

# **Annual Report & Accounts**

**2010-2011**



**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

(A Subsidiary of Coal India Limited)

**GONDWANA PLACE: KANKE ROAD  
RANCHI - 834 031**

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## **MANAGEMENT DURING 2010-2011**

Shri Ashok Kumar Singh : Chairman-cum-Managing Director

### **Functional Directors**

Shri Narinder Khurana : Director (Technical)  
Shri Amal Kumar Debnath : Director (Technical)  
Shri Shovan Kumar Mitra : Director (Technical)  
Shri Animesh Nandan Sahay : Director (Technical) (Upto 07.02.2011)

### **Part-time Official Directors**

Shri Devulapalli Narasimha Prasad : Director, Ministry of Coal, New Delhi  
Shri Nirmal Chandra Jha : Director (Technical) / Chairman,  
Coal India Ltd.

### **Independent Directors**

Prof. Ajoy Kumar Ghose : Director (Upto 20.09.2010)  
Dr. Ashok Kumar Kundra : Director (Upto 23.09.2010)  
Dr. Sushil Bhandari : Director (Upto 23.09.2010)  
Prof. Vedala Rama Sastry : Director (Upto 23.09.2010)  
Prof. Vedala Rama Sastry : Director (From 24.12.2010)  
Shri Pramod Kumar Misra : Director (From 24.12.2010)  
Dr. Mukesh Khare : Director (From 24.12.2010)  
Prof. P.K.J. Mohapatra : Director (From 24.12.2010)

### **Permanent Invitee**

Shri Sharad Ghodke : Director, Ministry of Coal, New Delhi

**Company Secretary** : Shri Udayan Chakrabarti

**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.  
Chartered Accountants  
Patna.

**REGISTERED OFFICE** : Gondwana Place, Kanke Road,  
Ranchi - 834 031  
Jharkhand, India

## Board of Directors



Shri Ashok Kumar Singh  
Chairman-cum-Managing Director



Shri N. Khurana



Shri A. K. Debnath



Shri S. K. Mitra



Shri N. C. Jha



Shri D.N. Prasad



Prof. V.R. Sastry



Prof. P.K.J. Mohapatra



Dr. Mukesh Khare



Shri Pramod Kumar Misra

## **MEMBERS OF THE BOARD AS ON 01.05.2011**

### **Functional Directors**

Shri Ashok Kumar Singh	:	Chairman-cum-Managing Director
Shri Narinder Khurana	:	Director (Technical)
Shri Amal Kumar Debnath	:	Director (Technical)
Shri Shovan Kumar Mitra	:	Director (Technical)

### **Part-time Official Directors**

Shri Devulapalli Narasimha Prasad	:	Director, Ministry of Coal, New Delhi
Shri Nirmal Chandra Jha	:	Director (Technical) / Chairman, Coal India Ltd.

### **Independent Directors**

Prof. Vedala Rama Sastry	:	Director
Shri Pramod Kumar Misra	:	Director
Dr. Mukesh Khare	:	Director
Prof. P.K.J. Mohapatra	:	Director

### **Permanent Invitee**

Shri Sharad Ghodke	:	Director, Ministry of Coal, New Delhi
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<b>Company Secretary</b>	:	Shri P. Lazar
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**SCOPE MERITORIOUS AWARD to CMPDIL for R&D contribution for 2009-10 received by Shri A.K. Singh, CMD, CMPDIL from the President of India on the occasion of Public Sector Day celebration on 11<sup>th</sup> April, 2011.**

## NOTICE FOR 36<sup>th</sup> ANNUAL GENERAL MEETING

Ref. No. CS/AGM-36/2011/ 900

Dated: 18.05.2011

Notice is hereby given to all the shareholders of Central Mine Planning & Design Institute Limited that the 36<sup>th</sup> Annual General Meeting of the Company will be held on Thursday, the 26<sup>th</sup> May, 2011 at 10.30 A.M. at the Registered Office of the Company, Gondwana Place, Kanke Road, Ranchi to transact the following business:-

1. Adoption of the Annual Accounts:

To receive and adopt the Balance Sheet as on 31st March 2011, Profit & Loss Account for the year ended on that date along with the schedules attached thereto and the Auditors' Report thereon with the replies given by the management.

2. Adoption of the Directors' Report:

To receive and adopt the Report of the Board of Directors for the year 2010-11.

3. Remuneration of Statutory Auditors

To approve the remuneration of Statutory Auditors for the year 2011-12

4. Appointment of Part-time Directors

The shareholders may pass the following resolutions with or without modification

- (i) To appoint a Director in place of Sri N. C. Jha 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.
- (ii) 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

(P. Lazar)  
Company Secretary

**N.B.** A member entitled to attend and vote, is entitled to appoint a proxy to attend and vote instead of himself and the proxy need not be a member of the Company.

To : All the Shareholders and Auditors of the Company

## **DIRECTORS' REPORT**

To

The Shareholders

Gentlemen,

Your Directors have great pleasure in presenting the 36<sup>th</sup> Annual Report on the working of your Company along with the Accounts for the year ended 31<sup>st</sup> March, 2011 and Auditors' Report thereon.

### **PART : A**

#### **1.0 CORPORATE OVERVIEW**

Your Company, a Mini Ratna (Cat-II) company, continued to operate with seven Regional Institutes (RI) located at Asansol, Dhanbad, Ranchi, Nagpur, Bilaspur, Singrauli & Bhubaneswar and its headquarters at Ranchi. Seven Regional Institutes designated as 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 SAIL-ISP, NTPC, Neyveli Lignite Corporation Ltd., SCCL, MECL, Tata Steel, M/s. Essar Mineral Resources Ltd. (Mahan Coal Company), O/o Commissioner of Customs, Gujarat, UCM Coal Company Limited, JSPL, Adani Mining Pvt. Ltd., CEA, M/s Field Mining and Ispat Limited etc. were provided mainly through CMPDI (HQ). CMPDI also handled specialised assignments of Ministry of Coal and CIL.

#### **Major Services Offered**

##### **1.1 Geological Exploration & Drilling**

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

- **Project Planning & Design**

Preparation of feasibility reports, detailed project reports and detailed engineering drawings for underground and opencast mines, master plans of coalfields, coal and mineral beneficiation and utilisation plants, coal handling plants, workshops and other ancillary units and infrastructure facilities including techno-economic evaluation of various schemes and project reports for investment decisions.

- **Engineering Services**

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



- **Research & Development**

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

- **Laboratory Services**

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

- **Environmental Services**

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

- **Information Technology**

- **Human Resource Development**

- **Specialised Services**

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

## 1.2 Financial Working Results

During the year under review your Company earned a net profit of Rs. 1531.93 Lakhs (after deferred tax). The working results of the company are given below:

(Rs. in lakhs)		
Sales		42909.19
Less: Total Net Expenditure		40331.69
Gross Profit		2577.50
Less:		
Depreciation	474.41	
Interest	2.95	
Provision	-	
		477.36
Profit (+) / Loss (-) for the year (Before P.P. Adjustment & Tax)		2100.14
Less: Prior Period Adjustment		(-) 268.76
Profit before Taxation		2368.90
Provision for Income Tax:		
Less: For current year	1322.33	
For earlier years	54.63	
Add: For Deferred Tax	539.99	
		836.97
Net Profit after Tax		1531.93

### 1.2.1 Significant related party transactions

No significant related party transactions of Board of Directors and Senior Management where they have personal interest has been reported during the year.

## 1.3 MANAGEMENT DISCUSSION AND ANALYSIS REPORT

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

### 1.3.1 Vision of CMPDIL:

To be the global market leader in an expanding 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 services in coal and mineral exploration including geological, geophysical, hydrological and environmental data generation.
2. To improve quality of exploration for providing higher level of confidence of geological assessment for optimum mine planning.
3. To optimize generation of internal resources by improving productivity, preventing wastage and mobilizing 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:

- a. Geological Exploration and support Services - This core function of CMPDI since its inception offers the following services for mineral deposits:
  - Planning and execution of exploration;
  - Resource evaluation and documentation for investment and exploitation decisions; and
  - Related field tests and laboratory support.
- b. Planning, Design and Support Services – Being another core function of CMPDI since inception, 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.
- c. Environmental Management Services - Under offer since 1992, these cover all round support to mining and mineral industry for environmental management during their planning and operations including Mine Closure Planning, laboratory and test support. Land use monitoring of all major opencast mines in Coal India Ltd. 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, OHSAS18001 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, Measurement of Coal and Over Burden Report (OBR), etc.

### **1.3.5 Prevalent Coal Industry Environment vis-a-vis role of CMPDIL**

India was one of the few large economies which was not severely impacted by financial crisis that began in the industrialised nations in 2007 and had its contagion effect on a large number of other economies across the world. India's GDP, though slowed down a bit from 9% level of 2007-08 to about 6.7 % for 2008-09 and 7.2 % for 2009-10, has looked up once again with the weaning effect of the global meltdown of economies and is estimated (Economic Survey of India) for 8.6 % GDP growth during 2010-11 and predicted for the 9% growth in the fiscal year 2011-12. Though doubts have been raised over the growth projected for 2011-12 due to global crude price rise and inflationary tendencies prevalent in the country, the Indian economy is set to grow faster and scale greater heights despite these risks like volatility in commodity prices and political turmoil in the West Asia.

Energy is key to development initiatives and reliable availability of commercial energy has to be ensured for sustaining the growth rate. India's primary commercial energy supply is predicted to increase by 3 to 4 times to the level of 1500-1800 Million Tonne (Mt) by 2030. The government had fixed a revised target of 62 thousand MW of electricity generation capacity addition during the 11<sup>th</sup> Plan and target of 1 lakh MW addition during the 12<sup>th</sup> Plan. Presently, share of coal in the commercial energy in India is over 50% and about 67 % of electricity generation is coal based. Hence, coal production is not going to be capped in foreseeable future due to demand restrictions.

The struggle of Japan with Fukushima nuclear crisis has brought the prospects for increased use of atomic electricity around the world under a cloud, at least in immediate terms, due to the damage in terms of shaken public confidence in the use of nuclear power. Though India is compelled to have nuclear power as a necessary element in its energy mix in the long term due to massive energy needs to improve the living standards of people, the zeal for the recent nuclear renaissance in the country has taken a halt, though temporarily. This is likely to give further boost to the coal production growth initiatives in the country.

Australia recently witnessed the worst flooding that it has seen in over thirty years, causing many open pit coal mines and railway links to submerge with a major impact on coal supply. Australia is the world's largest exporter of coking coal, accounting for nearly one-third of global supply as well as world's second largest in thermal coal. As the demand for coal is not diminishing, the supply shock has given the coal a positive price support globally.

As per the new Coal Distribution policy, CIL has the onus of meeting the coal demand in the country. Hence, there is enhanced reliance on Coal India in this policy for meeting the coal demand in the country, by expanding its activities further.

Coal production in India (532 million tonne) during 2010-11 remained stagnant at the production level of the preceding year, i.e. 2009-10. Coal production from CIL during 2010-11, with 81 % share in total production, also hovered around the production level of 2009-10. The production growth parameters were affected primarily due to environmental restrictions, particularly, application of the Comprehensive Environment Pollution Index (CEPI) and non-availability of

forestry clearances against some of the projects identified to contribute to production during the year. Coal evacuation incapacities in the form of non-availability of Rakes/Rail wagons also contributed to the cause of increased pithead stocks.

Amidst mounting concerns about global warming and related environmental effects, there is growing emphasis by the coal companies for eco-harmonious mining. Concept of Inclusive Growth is being emphasised for providing a better-life-than-before to peripheral inhabitants. The concept of Corporate and Social responsibility has also gained prominence over the years. Though, CIL was aware of its social and community responsibilities and was fulfilling the aspirations of the peripheral communities through its 'Community Development Policy' since long, a new Corporate Social Responsibility (CSR) Policy has been brought out. Commensurate with the CSR policy of CIL, CMPDIL is allocating 5 % of the retained profits of the pervious year as the fund for carrying out these activities in a year.

CMPDI, being the consulting subsidiary of CIL - the largest coal producer company in the world, has the mandate to provide exploration, planning and design and other allied services for its rapid expansion. Coal production in the country is expected to cross 1000 Mt by 2016-17 (the terminal year of XII plan). CIL is expected to grow yearly at a faster rate during the next six years. This will give a spurt in CMPDI's services rendered to CIL. Additionally, CMPDI's expert services had been in demand by other coal producer in public and private sector as well.

The presently known coal resource base of the country is about 277 Billion tonne (Bt), out of which, about 110 Bt (40 %) has been explored in detail to bring them under the Proved Category. The remaining 60%, i.e. around 167 Bt, are still in Indicated / Inferred category and require detailed drilling to be upgraded to Proved Category. For improving the availability of coal resources, exploration of coal is being intensified.

Furthermore, energy needs of the country will have to be met by 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. apart from the conventional mining methods. Development of Shale gas has also emerged out as a promising area of operation for CMPDI. Additionally, emerging area of Information and Communication Technology (ICT) in coal sector will also present additional opportunity for CMPDI in coming years.

### **1.3.6 Strategy adopted to realize above objectives and vision:**

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

- (i) Enhancing exploration capacity
- (ii) Diversification in newer areas of mineral, mining and allied engineering sectors other than coal.
- (iii) Increasing market share for outside clients
- (iv) Tie-up with strategic partners both within and outside the country
- (v) Upgradation and modernisation of existing facilities and infrastructure
- (vi) Increasing operational efficiency and work quality
- (vii) Improving corporate culture and internal systems
- (viii) Rationalising manpower utilization and Executive manpower induction to ensure continued exploration and planning support to the coal industry
- (ix) Better cost control measures and monitoring.
- (x) Development of Coal based alternate source of energy and Shale Gas.

### 1.3.7 Preparedness of CMPDIL

CMPDI has carried out 14.43 lakh metres of drilling during 2007-11 of XI plan period through in-house drills as well as by outsourcing, whereas, the target for drilling during 2011-12 is 4.50 lakh meter. Total drilling carried out during the X Plan period was about 10 lakhs metres.

CMPDI has substantially improved the capacity of drilling during XI plan period. As against the achievement of 2.09 lakh metre in 2007-08, CMPDI has achieved 4.70 lakh metre of drilling in 2009-10 and 4.92 lakh metre in 2010-11 through departmental resources and outsourcing.

Action has been taken for enhancement of departmental capacity through expansion and modernization. Sixteen new drills have already been procured and supply orders for 10 more drills have been placed during last three years. Furthermore, two nos. of high-capacity hydrostatic coring drills have also been procured and deployed. Supply Order for 2 more high-capacity hydrostatic coring drills will be placed shortly. CMPDI has also replaced 38 mud-pumps and 46 trucks in last three years.

Under outsourcing, the work of 18 blocks involving 7.28 lakh m of drilling was awarded in 2008-09 through open tendering (2 National & 1 Global). A long term MoU (5 years), involving 1 lakh m/annum of drilling, was signed with MECL in 2009-10. To further enhance the capacity, Global Tender of 7 additional blocks involving 4.37 lakh m of drilling was also floated in 2009-10.

CMPDI was to prepare 142 project reports resulting in capacity addition for coal production of about 372 Mt against which 125 project reports with capacity addition of about 396 Mt have already been prepared during 2007-11.

Capacities of various laboratories in CMPDI have either been upgraded or are in the process of upgradation. The Petrography Laboratory at HQ has been upgraded with imported equipment for doubling the capacity of the petrography unit. Upgradation of the Chemical Laboratory is on the verge of completion. Environment laboratories at HQ, RI-IV and RI-V have been upgraded, whereas, upgradation of RI-I and RI-VI Environmental labs. are also being proposed. Action for establishment of new environmental lab at RI-VII, Bhubneswar have been taken up. The Mining Technology laboratory has been made capable for carrying out the Resin and Cement Capsule tests and efforts are being made to bring the new Universal Testing Machine. Similarly, action has been initiated for upgradation of the Coal Preparation laboratory.

Manpower requirement of Exploration, Planning and Design as well as allied engineering services have been addressed. Out of total requirement of 172 Management Trainees (MTs) in different disciplines in 2010-11, 55 MTs have been recruited and posted in CMPDI. Efforts are being made to get remaining number of MTs. Similarly, process has been initiated for getting non-executive technical manpower also.

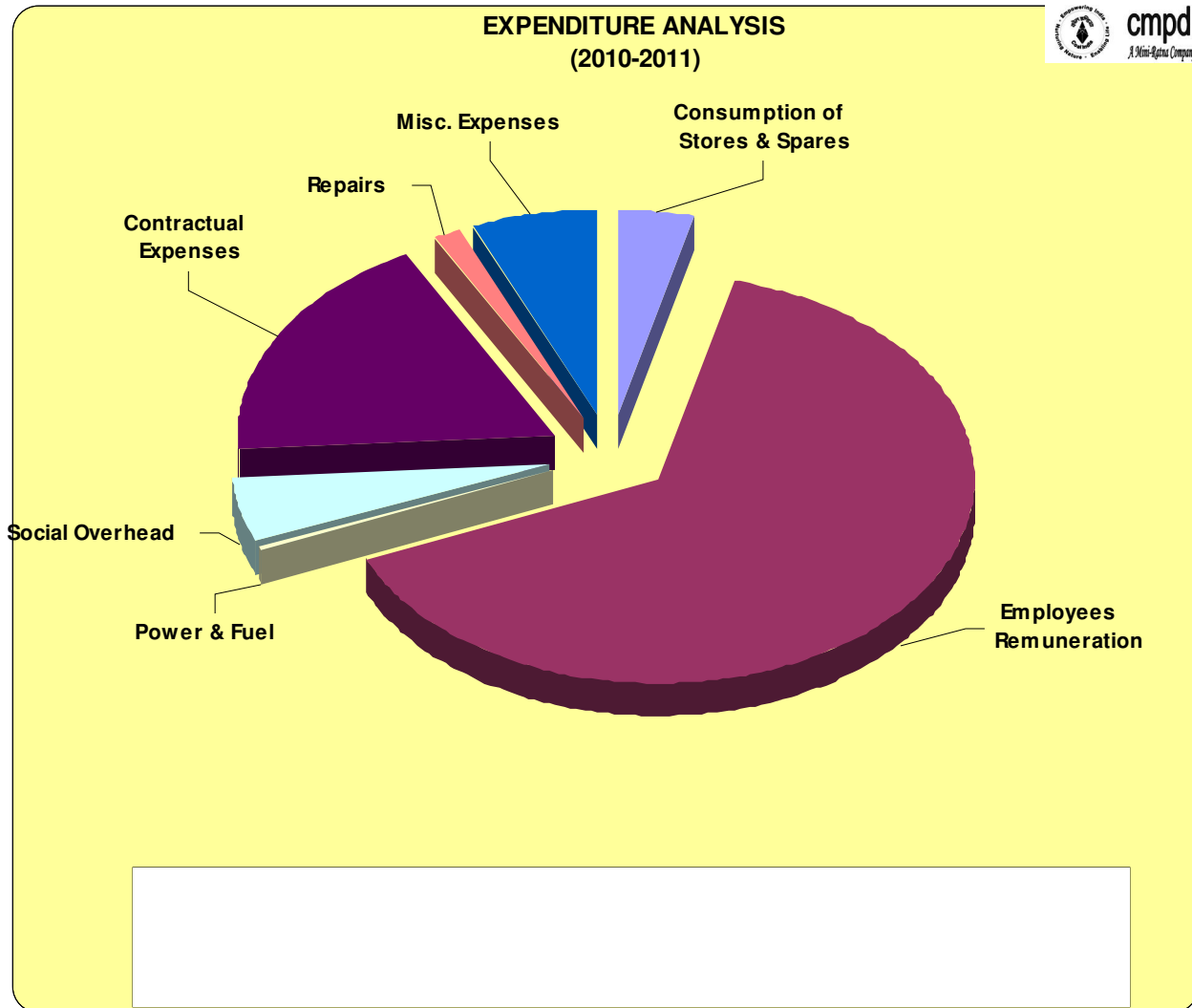
Development of coal based alternate energy sources has become one of the priority area of operation for CMPDI. Coal Mine Methane project has been successfully demonstrated by CMPDI at Moonidih project of BCCL. Efforts are being made for identification of suitable developers for 5 CMM blocks in the CIL command area. Development of Underground Coal Gasification (UCG) in Kasta Block of Raniganj Coalfields under collaborative regime with ONGC is also being pursued. Identification of the suitable developer is also in process for UCG development in blocks of Kaitha in CCL command area and Thesgora-C in WCL command area. Foray in the area of Shale Gas development is also under consideration.

### 1.4.0 Financial Overview of CMPDIL

During the year the company made a net profit of Rs. 1532 lakhs (After deferred Tax). The summary of the working results for the last three years is as follows:

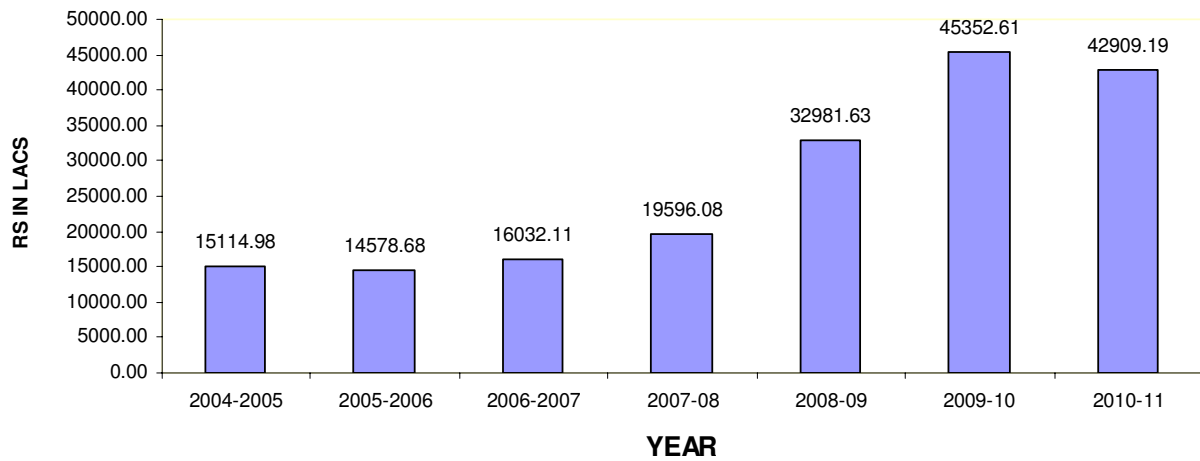
Eligibility Criteria		Status of CMPDIL		
		2008- 09	2009- 10	2010-11
1.	Profit before Taxes (Rs.in lakh)	674	1961	2369
2.	Profit after Taxes (Rs.in lakh)	484	1146	1532
3.	Net worth (Rs. in lakh)	5232	6335	7867
4.	Net profit to net worth (%)	12.88	30.95	30.11

5.	Profit before depreciation, interest and tax to capital employed (%)	9.17	19.94	22.59
6.	Profit before interest and tax to Turnover (%)	2.19	4.38	5.53

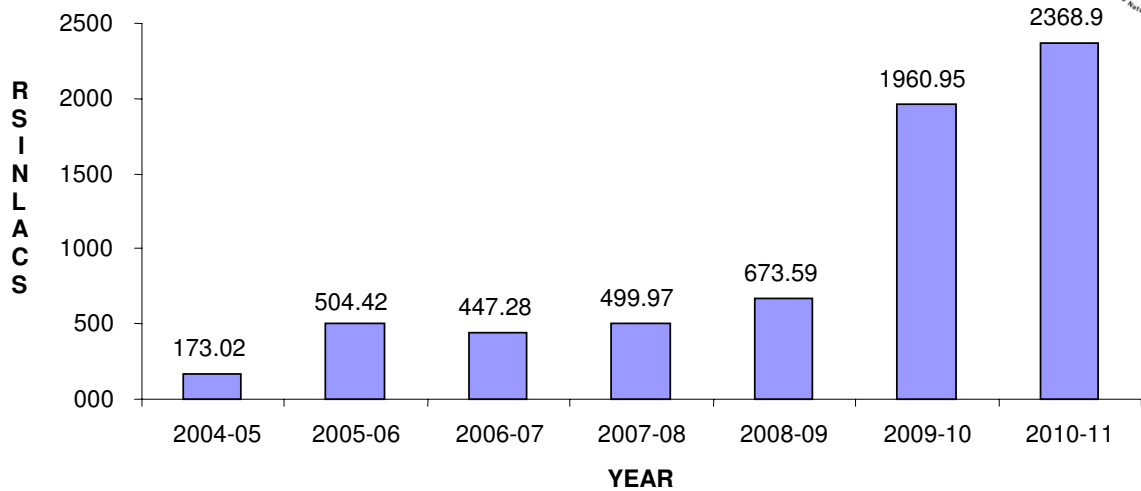


	Year ending 31st March 2011 (Rs. in Lakh)
<b>EXPENDITURE</b>	
Consumption of Stores & Spares	1611.99
Employees Remuneration & Benefits	26477.77
Power & Fuel	207.44
Social Overhead	1985.67
Contractual Expenses	7542.68
Repairs	599.83
Miscellaneous Expenses	2578.98
<b>Total Expenditure</b>	<b>41004.36</b>

### SALES ANALYSIS



### PROFIT BEFORE TAX





### 1.5.0 Corporate Governance:

#### 1.5.1 Company's Philosophy

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

#### 1.5.2 Board of Directors

The Board of Directors of CMPDIL comprises of four whole time Directors including the Chairman-cum-Managing Director, two part-time official Directors and four non-official part-time Directors. The composition of Directors, their remuneration and no. of meetings attended are as follows:

Name of Directors	Salary (in Rs.)	Others Benefit (in Rs.)	No. of Board meeting held	No. of Board meeting attended
<b>Whole-Time Directors</b>				
Shri Ashok Kumar Singh	2056189	30578	4	4
Shri Narinder Khurana	2312246	70635	4	4
Shri Amal Kumar Debnath	1802908	168390	4	4
Shri Shovan Kumar Mitra	2092640	50007	4	4
<b>Official Part-Time Directors</b>				
Shri Nirmal Chandra Jha	-	-	4	3
Shri Devulapalli Narasimha Prasad	-	-	4	3
<b>Non-Official Part-Time Directors</b>				
Prof. Vedala Rama Sastry	-	-	3	1
Shri Pramod Kumar Misra	-	-	1	1
Dr. Mukesh Khare	-	-	1	1
Prof. P.K.J. Mohapatra	-	-	1	1

No remuneration is being paid to the Non- official Part-time Directors except sitting fees for attending Board / Committee Meetings.

#### 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.

##### **Composition:**

The Audit Committee of CMPDI is constituted as per the guidelines of Corporate Governance of the Govt. of India. It consists of following members and is headed by a non-official part-time Director (Independent Director):

Shri Pramod Kumar Misra (Non-official part-time Director)	- Chairman
Dr. V. R. Sastry (Non-official part-time Director)	- Member
Prof. PKJ Mohapatra (Non-official part-time Director)	- Member
Prof. Mukesh Khare (Non-official part-time Director)	- Member
Shri D. N. Prasad (Govt. nominee Director)	- Member
Shri A. K. Debnath, Director (Technical)	- Member

The Audit Committee has reviewed the annual financial statement before submission to the Board.

#### **1.5.4 Remuneration Committee:**

The Board itself discharges the functions of this Committee.

### **PART : B**

## **ANNUAL PERFORMANCE OVERVIEW**

### **1.0 GEOLOGICAL EXPLORATION & DRILLING**

**1.0.1** CMPDI continued to carry out coal exploration activities in 2010-11 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 for captive mining.

**1.0.2** CMPDI has substantially improved the capacity of drilling during XI plan period. As against the achievement of 2.09 lakh metre in 2007-08, CMPDI has achieved 4.92 lakh metre in 2010-11 through departmental resources and outsourcing. For capacity expansion through modernization of departmental drills, Supply Order for 7 drills has been placed, out of which 5 drills have been received. Fresh tenders for procurement of 13 more drills have been floated and Supply Order for 8 drills placed. Additionally, 20 trucks and 21 Mud-pumps have been procured in 2010-11. To meet the increasing work load, recruitment of geologists was continued and 11 geologist and 6 geophysicist were inducted by direct recruitment through campus interview. Shortage of non-executive staff is being met through transfers from other subsidiaries of CIL.

**1.0.3** Under outsourcing, tender for exploration of one block, involving 0.38 lakh metre of drilling, has been floated whereas re-tendering of 7 additional blocks involving 4.37 lakh metre of drilling was done. To fulfill the enhanced requirement of coal core analysis due to increase in drilling, the capacity expansion of CMPDI & Central Institute of Mineral and Fuel Research (CIMFR) labs has been taken up and is under various stages of execution. Besides routine Geophysical logging and surface survey work, CMPDI intends to introduce 3-D Seismic Survey in coal exploration as a part of R&D project. A Project Proposal, in consultation with ONGC, was submitted for the purpose. However, Apex Committee of CIL R&D Board decided that initially small area should be taken up for 3-D Seismic Survey. ONGC is to be contacted for this purpose to take up work on turn-key basis. It has also been visualized that 3-D Seismic data collected by Hindustan Oil Exploration Corporation in coalfields of NE area will also be studied for this purpose.

### **1.1 Drilling Performance in 2010-11:**

**1.1.1** CMPDI deployed its departmental resources for exploration of CIL/Non-CIL/Promotional blocks whereas State Govts of MP and Orissa deployed resources in CIL blocks only. Besides, four other contractual agencies have also deployed resources for detailed drilling/exploration in CIL/Non-CIL blocks. A total of 100 to 123 drills were deployed in 2010-11 out of which 55 were departmental drills. Apart from it, CMPDI continued the technical supervision of Promotional Exploration work undertaken by MECL in Coal Sector (CIL & SCCL areas) and monitored work of Geological Survey of India (GSI) for Promotional Exploration in Coal Sector (CIL area) on behalf of MoC.

**1.1.2** In 2010-11, CMPDI and its contractual agencies took up exploratory drilling in 96 blocks/mines of 22 coalfields situated in 7 States. These coalfields are Raniganj (7 blocks/mines), Rajmahal (1), Jharia (4), W.Bokaro (5), Ramgarh (2), Tawa Valley/Pathakhara (6), Pench Kanhan (1), Kamptee (2), Nand-Bander (1), Wardha (8), Singrauli (7), Sohagpur (10), Sendurgarh (1),

Johilla (1), Mand Raigarh (13), Korba (4), Hasdo-Arand (1), Bistrampur (5), Sonhat (1), Talcher (9), Ib Valley (5) and Makum (2 blocks). Out of 96 blocks/mines, 18 were Non-CIL/Captive blocks, 2 Promotional blocks, 1 Consultancy block and 75 CIL blocks/mines. Departmental drills of CMPDI took up exploratory drilling in 65 blocks/mines whereas contractual agencies drilled in 31 blocks/mines.

**1.1.3** Under Promotional (regional) Exploration Programme, MECL has undertaken Promotional drilling in 9 blocks (Katol CF - 3 blocks, Mand Raigarh - 4, Wardha Valley - 1 & Godavari Valley - 1) and GSI has undertaken 11 blocks for Promotional drilling (Talcher CF - 5 blocks, Ib Valley - 2, Sohagpur - 2, Raniganj - 1 & Tatapani Ramakola -1) in Coal Sector.

**1.1.4** The overall performance of exploratory drilling in 2010-11 is given below:

Agency	Target 2010-11 (metre)	Performance of Exploratory Drilling in 2010-11			Achieved Prev. Year: 2009-10 (metre)	Growth %
		Achieved (metre)	Achieved (%)	+/- (metre)		
A. Detailed Drilling by CMPDI (including Promotional Drilling)*:						
i.Departmental	2,40,000	2,68,059	112%	+28,059	2,65,134	1%
ii. Outsourcing:						
State Govts.	5,000	7,206	144%	+ 2,206	9,101	-21%
MECL (MOU)	42,500	28,160	66%	- 14,340	24,145	17%
Tendering (CIL blocks)	16,000	14,581	91%	- 1,419	31,780	-54%
Tendering (non- CILblocks)	96,500	1,73,785	180%	+ 77,285	1,40,102	24%
<b>Total Outsourcing</b>	<b>160,000</b>	<b>223,732</b>	<b>140%</b>	<b>+ 63,732</b>	<b>205,128</b>	<b>9%</b>
<b>Total A:</b>	<b>4,00,000</b>	<b>4,91,791</b>	<b>123%</b>	<b>+ 91,791</b>	<b>4,70,262</b>	<b>5%</b>
B. Promotional Drilling by MECL, GSI & Nagaland Govt. in Coal Sector:						
MECL	59,800	29,920	50%	- 29,880	33,102	-10%
GSI	14,850	13,943	94%	- 907	13,192	6%
DGM, Nagaland	Unschedule	83	-	83	-	-
<b>Total B:</b>	<b>74,650</b>	<b>43,946</b>	<b>59%</b>	<b>- 30,704</b>	<b>46,294</b>	<b>-5%</b>
<b>Total A+B:</b>	<b>4,74,650</b>	<b>5,35,737</b>	<b>113%</b>	<b>+ 61,087</b>	<b>5,16,556</b>	<b>4%</b>

\* In 2010-11, departmental drills have carried out 1,318 metre of drilling in Promotional blocks, 2,01,016 metre in CIL blocks, 64,685 metre in Non-CIL/Captive Mining Blocks and 1,040 metre for consultancy work.

In 2010-11, CMPDI achieved its departmental and overall drilling targets by 112% and 123%, respectively. The performance of departmental drilling was better than previous year with 1% growth and recording average operational drills productivity of 407 metre/drill/month. Non-availability of permission to explore in forest areas has affected the performance of outsourced

drilling. MECL and GSI could not achieve the targets of Promotional drilling in coal sector due to forest problems.

### 1.1.5 Drilling in Non-CIL / Captive Mining Blocks:

CMPDI had submitted a scheme to the Government for conducting 13.50 lakh metre of detailed drilling in Non-CIL/Captive Mining Blocks in XI plan, through departmental resources and outsourcing. An allocation of Rs.89389 lakhs was requested for the purpose under this Central Sector Scheme. However, MoC has conveyed the approval of Rs.47294 lakhs only for XI plan. The enhancement of outlay has been taken up by MoC with Planning Commission.

In 2010-11, a total of 1,84,555 metre of drilling was targeted in Non-CIL blocks (departmental - 74,555 metre, outsourcing -1,10,000 metre). As against this, the departmental drills of CMPDI have carried out 64,685 metre of exploratory drilling whereas 1,82,858 metre of drilling has been achieved through outsourcing. The block-wise achievement of drilling in such blocks in 2010-11 is given below:

Agency/ Command Area	Coalfield	Block	Drilling in 2010-11 (metre)
<b>A. CMPDI (Departmental):</b>			
WCL	Kamptee	Bharatwada	5707
	Nand-Bander	Mandwa	6529
	Wardha Valley	Rajur Manikgarh	4422
		Bhivkund	3262
MCL	Talcher	Sakhigopal 'B'	12382
		Mahanadi	20609
	Ib Valley	Praja para & Dip Extension	11774
<b>Sub-total A (Departmental):</b>			<b>64,685</b>
<b>B. Outsourcing:</b>			
ECL	Rajmahal	Kayda-Chaudhar- Gariapani	23571
NCL	Singrauli	Makri Barka West	9074
SECL	Mand Raigarh	Syang Central 'A'	4053
		Syang East 'A'	3268
		Syang East 'B'	8045
		Chirra NE 'A'	4655
		Chirra NE 'B'	9687
		Syang North West	24505
		Syang South	34543
		Chirra North	45843
	Hasdo-Arand	Morga South	15614
<b>Sub-total B (Outsourcing):</b>			<b>1,82,858</b>
<b>Grand Total of Drilling in Non-CIL blocks:</b>			<b>2,47,543</b>

Note: Many blocks are now proposed to be retained by CIL.

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 Geological Reports (GRs) to prospective entrepreneurs 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. CMPDI has also prepared a document for allotment of blocks through competitive bidding by MoC.

#### **1.1.6 Promotional Drilling by CMPDI:**

The achievement of drilling in 2010-11 also includes Promotional (regional) drilling by departmental drills of CMPDI, under the Central Sector Scheme of Promotional Exploration in Coal & Lignite for XI Plan, for identification of new coal resources. An allocation of Rs.38700 lakhs was requested against which MoC has conveyed the approval of Rs.17402 lakhs only for XI plan. The enhancement of outlay has been taken up by MoC with Planning Commission. Under the scheme, CMPDI continued exploration in Chimri and Bishnupur blocks of Tawa Valley coalfield. A total of 1318 metre has been drilled in these blocks in 2010-11. The work is continuing.

As stated earlier, CMPDI has also carried out technical supervision of Promotional Exploration carried out by MECL in Coal Sector (9 blocks) and monitored Promotional Exploration conducted by GSI in 11 blocks under the scheme. The performance of Promotional drilling in coal sector is given in para 1.1.4 above.

#### **1.2 Hydrogeology:**

- 1.2.1** Hydro geological studies of a number of mining projects were taken up for preparation of 'Groundwater Clearance Application' for Central Ground Water Authority (CGWA) approval and Environmental Management Plan (EMP) clearance. Hydro geological studies for 36 mining projects in ECL, BCCL, CCL, WCL and SECL were completed during 2010-11. Hydrogeological study for a washery of BCCL was also completed for EMP clearance.
- 1.2.2** CMPDI is also carrying out groundwater monitoring of 73 Ministry of Environment and Forest (MOEF) cleared projects in WCL area. Water level monitoring in other areas of ECL, BCCL, CCL, SECL, NCL and NEC are in progress.
- 1.2.3** Hydrogeological notes on ground water condition of 12 WCL and 4 SECL projects, as part of Project Report (PR) and GR, have been completed during the year. Hydrogeological studies for mine water inflow estimation in 2 projects of WCL and MCL were also completed.
- 1.2.4** Hydrogeological studies in 6 projects of CCL, WCL and SECL have been carried out for water supply arrangement to mines, colony, washeries and villages.
- 1.2.5** Hydrogeological study on Acid Mine Drainage around Margherita area, Northeastern Coalfield, Assam was completed. Hydrogeological study of Machhakata coal block of Talcher coalfield was also carried out for a outside party.

#### **1.3 Geological Reports:**

- 1.3.1** In 2010-11, a total of 19 Geological Reports (excluding Interim GRs) were prepared on the basis of detailed exploration conducted in previous years. The prepared Geological Reports have brought about 2.2 Billion Tonnes of coal resources under 'Proved' category.
- 1.3.2** Under Promotional Exploration Programme, GSI and MECL have submitted 9 Geological Reports on coal blocks, estimating about 4.6 Billion Tonnes of coal resources, mainly in 'Indicated' category, 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 2010-11, a total of 221 boreholes were logged with multi-parametric geophysical logging equipments. A total of 1,32,061 depth meter of geophysical logging has been carried out for this purpose in CIL, Non-CIL and UNDP-CBM project areas. Out of this, 60,990 depth meter of logging was done by 5 nos. of departmental geophysical logging units and 71,071 metre 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 94.52 line km of Resistivity profiling, 90 no. of Vertical Electrical Sounding (VES) and 2242 no. of stations of Magnetic survey have been carried out in 2010-11 for such purpose. One 48-Channel signal enhancement Seismograph has been procured and with this equipment a total of 41.8 line kms of reflection survey and 26.6 line kms of refraction survey has been carried out in Chimtapani block of Mand-Raigarh Coalfield (SECL), Bijul block of Singrauli Coalfield (NCL) and Sakhi Gopal "B" block of Talcher coalfield.

## **1.5 Geosystem:**

**1.5.1** The Govt. funded project "Integrated Coal Resources Information System" continued in the year 2010-11 also. During the year, Map data capture of 1656 plans was finalized. Data processing (22F) of 153 blocks, Geological modeling for 32 blocks and 11 zones were also completed. Integration of survey work was continued by updating survey reference points at 102 points. Salient feature for 273 blocks and data for 16 zones have been captured during the year. Zone-wise plans using AutoCAD for 35 zones, data cleaning over GIS for 16 zones, Seam correlation for 32 zones and 11 coalfield maps were completed. Award of work for coal database completed after tendering process and work initiated.

**1.5.2 CIL R & D Project:** The Laboratory Service Division is implementing one CIL R&D project entitled "Effective utilization of low rank and low volatile high rank Indian coking coal for BF coke making". It is a CMPDI-RDCIS SAIL joint project and is effective from 01.09.09. The total outlay of the project is Rs.265 lakh with duration of two years. Under the project Characterization study of fifteen clean coal samples and five raw coal samples from Jhanjra, Muraidih, Sonapur Bazari, North Urimari and Gidi 'A' areas have been completed including ash analysis and plastometric test. Pilot Plant test on two samples of Muraidih Colliery, BCCL and North Urimari, Argada Seam, South Karanpura Coal Field (CF) of CCL for generation of clean at 10%, 15% & 17% ash level will be undertaken by CIMFR shortly.

## **1.6 COALBED METHANE (CBM) / COAL MINE METHANE (CMM) AND UNDERGROUND COAL GASIFICATION (UCG)**

### **1.6.1 Coalbed Methane Recovery and Commercial Utilization Project**

Under R&D efforts, a demonstration project on "Coalbed Methane Recovery & Commercial Utilization" has been successfully implemented at Moonidih coal mines of BCCL in Jharia Coalfield in the state of Jharkhand.

The project was taken up by Govt. of India in collaboration with United Nations Development Programme (UNDP)/ Global Environment Facility (GEF) and successfully implemented by Central Mine Planning & Design Institute Ltd. (CMPDI) and Bharat Coking Coal Ltd (BCCL) on behalf of the Ministry of Coal.

This demonstration project is a path finder for coal mine methane development in Indian mining scenario as methane gas embedded in coal seams have been successfully recovered through vertical wells and the recovered gas is being used as fuel in the gas based generator for electricity generation and generated electricity is being supplied to Moonidih colony since 27<sup>th</sup> June, 2008.

Keeping in view the fact that the key objectives of the project were successfully achieved and the project's funds have been fully utilized, Ministry of Coal vide letter no. 34012/7/2007-CRC (Part) dated 5th July, 2010 has decided to formally closed the project. A completion report of the project was also submitted.

#### **Achievement of the project:**

This high technology demonstration project was successfully implemented at Moonidih with all out effort of the entire team of CIL. Being implemented for the first time in the country, the project has created enough awareness in the Indian coal mining industry and the industry is now at a threshold of replicating such projects in other suitable areas. The project will open a new era in harnessing and utilization technique of coal mine methane, which is otherwise a wasted clean energy resource. The other achievements of the project are summarized as under:

- Capacity built-up both in terms of equipment and manpower
- The project was successfully implemented through the in-house efforts of CMPDI & BCCL team
- Proving the efficacy of the technology for CMM extraction and its utilization in Indian mining scenario.
- Utilization potential of recovered methane has been established and electricity that is being generated from the harnessed CMM has created enough awareness among the local populace.
- The cost of electricity generated from the recovered gas is comparable with that of from fossil fuel even in this demonstration project

#### **1.6.2. 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 development of coalbed methane. These projects are being implemented by CMPDI on behalf of CIL.

##### **1.6.2.1 Jharia CBM Block:**

The Govt. of Jharkhand granted Petroleum Exploration License (PEL) to the consortium of CIL-ONGC in 28<sup>th</sup> August'03 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 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 in Feb'08. This report has facilitated formulation of Development Plan by ONGC.

ONGC has completed drilling of exploratory wells and the requisite tests are being carried out. ONGC is also continuing Horizontal multilateral in-seam drilling in the CBM block. ONGC has submitted Development Plan having budgetary outlay of Rs 129000 lakhs for Parbatpur Sector of Jharia CBM Block to DGH in Sep'09 for consideration and competent approval. ***However, DGH has asked ONGC to submit an integrated Development Plan for the entire Jharia CBM Block including Parbatpur Sector immediately in the 11<sup>th</sup> Steering Committee Meeting held on 3.12.2010.*** In the meantime sale of incidentally produced gas has started in the Jharia block; consequent to the approval of the Govt.

The participating interest (PI) of CIL in Jharia CBM block is 10% with an option to increase it to 26% from Development Phase. Increasing the PI of CIL to 26% is under consideration.

#### **1.6.2.2 Raniganj CBM Block:**

The Govt. of West Bengal granted Petroleum Exploration License (PEL) for Raniganj CBM block on 09.06.04.

The drilling of slimholes by CMPDI has been completed in Nov'07. A report based on slimhole drilling & other available data has been prepared by CMPDI and submitted to ONGC in March 09.

ONGC has completed drilling of envisaged exploratory well in the block wherein CBM specific tests are being carried out.

#### **1.6.2.3 Completion of CIL R&D Project**

The Apex Committee for R&D Board of on 08.03.2011 has accepted the project completion of CIL R&D Project titled "Development of CIL/CMPDI's capacity for pursuing exploration for CBM in deep-seated coal deposits of Jharia and Raniganj coalfields"- CIL and ONGC collaborative project (Project code: CIL/R&D/1/16/04).

The above project was started in February 2004 with total approved cost of Rs. 1991.92 lakh with schedule date of completion in January 2011. It may be mentioned that the CIL part of the committed work as per Operating Agreement between CIL and ONGC in the Jharia and Raniganj CBM blocks allotted to the consortium of CIL and ONGC has been completed successfully and achieved its objective and target.

#### **1.6.3 CBM RELATED STUDIES UNDER PROMOTIONAL EXPLORATION DURING XI PLAN:**

CMPDI is carrying out studies related to "Assessment of Coalbed Methane Gas-in-Place Resource of Indian Coalfields/Lignite fields" through boreholes being drilled under promotional exploration (XI Plan period) under PRE funding. This study will enlarge the CBM resource base of the country and facilitate delineation of more blocks for CBM development. A total of 50 boreholes (30 by CMPDI and 20 by GSI) are to be taken up for studies during the XI Plan Period with a total plan expenditure of Rs.859 lakhs.

During 2010-11, a total of 8 boreholes located in different coal / lignite fields were taken up for studies by CMPDI and samples collected for desorption and other tests. So far such studies have been carried out in 24 boreholes by CMPDI during XI Plan Period (Total:40,24 by CMPDI

and 16 by GSI). Further, three assessment reports have been completed during 10-11 by CMPDI.



#### **1.6.4 COAL MINE METHANE (CMM) R & D PROJECT:**

A CIL R&D project titled “Development of CMPDI capacity for delineation of viable coalmine methane (CMM)/ abandoned mine methane (AMM) blocks in the existing and would be mining areas having partly de-stressed coal in virgin coal seams”, is under progress.

As envisaged in the project, five prospective CMM areas in coalfields of BCCL and CCL have been identified. Detailed assessment of these blocks have been completed and Data Dossiers for 5 CMM blocks (3 in BCCL area and 2 in CCL area) have been prepared incorporating all technical details including coal/gas in place resource etc.

#### **Commercial development of CMM**

To expedite the commercial development, an Expression of Interest (Eoi) was floated on 22/1/10 for identification of a suitable service provider for development of CMM. Ten responses received against this Eoi. A Meeting with the respondents of the EOI and CMPDI officials was held on 06.04.2010 in CMPDI to discuss the terms and conditions to be incorporated in the Tender Document to be formulated by CMPDI for award of blocks for development of CMM projects within CIL command area.

The draft tender document and bid evaluation criteria have been prepared by the consultant hired for the purpose. The tender document was deliberated in the pre-NIT meeting on 20/9/10 and the document has been modified based on the acceptable inputs from the respondents. The draft document has been sent to CIL for competent approval for identification of a suitable developer through bidding for harnessing CMM from the prospective blocks.

***CIL has approved the Tender document and the tender for identification of a suitable developer through bidding for harnessing CMM from the prospective blocks shall be floated by CMPDI on behalf of CIL/concerned Coal Company in April 2011.***

#### **1.6.5 ASSESSMENT OF CMM POTENTIAL RELATED TO LARGE OPENCAST MINES:**

Reports on “Assessment of CMM Potentiality in Dip-side Area of Moher Sub-basin, NCL, Singrauli” and “Assessment of CMM Potentiality in Dip-side Area of Korba Coalfield, SECL.” have been prepared by CMPDI and submitted on 01.03.2011.

#### **1.6.6 DEVELOPMENT OF VENTILATION AIR METHANE (VAM) PROJECTS**

CMPDI has also generated VAM specific data in few selected gassy coal mines of ECL, BCCL and CCL. Few areas have been found to be suitable for development of VAM project. For commercial development of VAM, an Eoi for identification of suitable collaborator has been floated. Ten offers have been received till the last date i.e 19/3/10. A Meeting with the respondents of the EOI and CMPDI officials was held in April 2010 to discuss the terms and conditions to be incorporated in the Tender Document to be formulated by CMPDI for award of blocks for development of VAM projects within CIL command area. A draft tender document is under formulation at CMPDI.

#### **1.6.7 CMM / CBM CLEARING HOUSE IN INDIA**

A CMM/CBM clearinghouse has been 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. A website of the India Clearinghouse, <http://www.cmmclearinghouse.cmpdi.co.in> encompasses all the important information viz EOI notifications, newsletters etc have been posted on the web-site of the Clearinghouse in addition to information regarding opportunities existing for development of CMM, VAM etc.

#### **1.7.0 DEVELOPMENT OF UNDERGROUND COAL GASIFICATION (UCG)**

##### **1.7.1 CIL ONGC Collaborative project in Kasta UCG block:**

Consequent to signing of MoU between CIL & ONGC in Nov.2006 for taking up pilot scale studies for UCG, CMPDI prepared data packages for 5 prospective UCG sites. Out of the five sites, one Kasta block in Raniganj coalfield was identified by Skochinsky Institute of Mining (SIM), Russia, the consultant appointed by ONGC, for generation of additional data for examining possibility of taking up pilot scale UCG project.

Drilling of boreholes in Kasta UCG block commenced on 17.04.2009 for generation of UCG specific additional data. All the 12 boreholes involving 3199.80 metre drilling have been completed by November'09. The assessment of data has been completed, draft report has been sent to ONGC in Dec'10 and ONGC team is expected for deliberation.

##### **1.7.2 Commercial development of UCG in CIL command area:**

An Eol for commercial development of UCG within CIL command area has been floated on 30/11/09. *Six offers were received and the meeting with respondents held on 26/2/10.* A draft tender document for award of the identified UCG blocks has been prepared by CMPDI, which has been circulated to the respondents of the EOI and the concerned coal companies. A pre-NIT meeting was held on 17.05.2010 and the draft tender document based on the accepted views of the participants has been prepared by CMPDI and approved by CIL.

CMPDI on behalf of CIL, has floated global tender on 27.12.2010 for selection of developers for UCG development in two coal blocks viz, Kaitha block, Ramgarh Coalfield (CIL Command area) and Thesgora 'C' block (WCL Command area). 8 offers for Kaitha and 6 offers for Thesgora block received. The Part I of the offer was opened on 16.03.2011. Technical scrutiny of offers received is in progress.

#### **1.8.0 CIL R & D Project to ascertain recoverability Of CBM from deep seated coal and lignite:**

CIL R&D Project entitled "An investigation on adsorption characteristics of Indian coal to ascertain recoverability of CBM from deep seated coal & lignite resources" (Project Code CIL/R&D/1/40/10) has been taken up and work is in progress.

#### **1.9.0 CIL R & D Project for assessment of prospect of shale gas in Gondwana basin:**

The Apex Committee for R&D Board of CIL in its 13<sup>th</sup> meeting held on 08.03.2011 approved the new project titled "Assessment of prospect of Shale Gas in Gondwana basin with special reference to CIL areas" with an estimated cost of Rs. 400.00 lakh (Rupees four hundred lakh only). The project will be implemented by CMPDI and Advance Resources International, USA will be sub-implementing agency. The project has been deemed to come in to effect from 1<sup>st</sup> April 2011 with an approved duration of 2 ½ years.

## 2.0 PROJECT PLANNING & DESIGN

During the year 2010-2011, preparation of project reports for new/expansion/re-organisation mines for building of additional coal production capacity was carried out as per prioritisation of coal producing subsidiary companies of Coal India Limited. Thrust was given for preparation of reports of XI Plan Projects and Master Plan of various Coalfields. An exercise was also carried out for identification of XII Plan Projects.

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

- Revision of project reports/ cost estimates
- Feasibility reports/Conceptual reports and customisation of bid document for coal washeries
- Operational plans for large OC mines
- Environment Management Plan (EMP)
- Mine Closure Plans of OC and UG mines
- Reports for dealing with fire
- Detailed design and drawings, NIT, tender scrutiny, etc.
- 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 Bids for deployment of Continuous Miner, Powered Support Long Wall (PSLW), high speed incline drivage and shaft sinking in underground mines of CIL.
- Preparation of Model Bid Document & Conceptual Report for setting up of Fluidised Bed Combustion (FBC) based thermal power plants using washery rejects.

During the year 2010-2011, 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, Effluent/Sewerage Treatment Plants, Illumination Survey, etc.

During the year 2010-2011, a total of 383 reports have been prepared for CIL and its subsidiary companies.

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

REPORTS	Nos.
Geological Reports	19
Project Reports/ Revised Cost Estimates	37
Operational Plans	14
Other Studies	162*

Environmental Management Plan (EMPs) (including 126 Form-I) for new & violation cases	151
<b>TOTAL</b>	<b>383</b>

\* This includes Master Plans for West Bokaro Coalfield and Korba Coalfield.

Detail of reports prepared during the period 2010-2011 is furnished in Annexure-I.

## LIST OF COMPLETED REPORTS DURING 2010-11

Regional Institute / HQ	Name of the Reports
<b><i>Geological Reports</i></b>	
<b>HQ</b>	1. Tikak Extn. OC (outsourced drilling) 2. Jagun (outsourced drilling)
<b>RI-I</b>	1. Chora (Combined) 2. Parasea-Jambad (Revised)
<b>RI-II</b>	1. Loyabad UG & Sijua Colliery (GR for PR) 2. Rajapur UG (GR for PR) 3. Block-II (GR for PR) 4. Block-V (GR for PR)
<b>RI-III</b>	1. Tokisud-II
<b>RI-IV</b>	1. Borda & Borda Extn. (Combined) 2. Murpar UG Mine Expansion 3. Mugoli-Nirguda
<b>RI-V</b>	1. Malachua 2. Jamdai Gumgara (Outsourced Drilling) 3. Dhanpura East 4. Amadand OC (including all lower seams)
<b>RI-VI</b>	1. Nigahi Deep Extn.
<b>RI-VII</b>	1. Dipside of Garjanbahal 2. Arkhapal-A
<b><i>Project Reports</i></b>	
<b>HQ</b>	1. Balram Expn. OC, MCL
<b>RI-I</b>	1. PR for introduction of Low Height CM at Jhanjra UG 2. Sankarpur UG Mine 3. Tilaboni/Tilaboni Extn. UG 4. Simlong OC 5. Itapara OC
<b>RI-II</b>	1. Block-IV OCP (I Seam Base) 2. Bhutgoria UG 3. South Loyabad UG
<b>RI-III</b>	1. Ashoka Expansion OC 2. Dabor OC, ECL 3. Pundi OC 4. Tapin Integrated (South) OC 5. Chano-Rikba OC (XI Plan)
<b>RI-IV</b>	1. Mahakali UG (Expn.) 2. Yekona-I extn. OC (Wanoja OC) (XI Plan) 3. Tawa-III UG 4. Ghatrohana-Gondegaon (A) OC 5. New Majri Sec A Extn. OC (XI Plan) 6. Ballarpur UG Expn. 7. Yekona-II Extn. (Shivani) OC (XI Plan) 8. Rawanwara East UG 9. Bhatadi Expn.-II OC (Bhatadi North West OC) (XI Plan)
<b>RI-V</b>	1. Shivani UG RPR 2. Amritdhara OC 3. Bagdeva UG RPR 4. Jhilimili UG RPR

	5.	Bakulmuni OC
	6.	Batura Extn. OC (XI Plan)
	7.	Batura West Extn. OC (XI Plan)
<b>RI-VI</b>	1.	Block-B OC (Recast)
	2.	Khadia Expn. OC (Recast)
<b>RI-VII</b>	1.	Lakhanpur OC Expn. (Ph-III)
	2.	Samleswari OCP Expn.
	3.	Belpahar OCP Expn. (Ph-II)
	4.	RPR for HBI UG Mine
	5.	Siarmal OC (XI Plan)
<b>Operation Plans</b>		
<b>RI-I</b>	1.	Kottadih OC
	2.	Chitra OC
<b>RI-III</b>	1.	Jharkhand OC
	2.	KDH OC
	3.	Parej East OC
<b>RI-IV</b>	1.	Umrer OC
<b>RI-V</b>	1.	Kusmunda OC
	2.	Dipka OC
	3.	Gevra OC
<b>RI-VI</b>	1.	Dudhichua OCP (15 Mty)
	2.	Nigahi OCP (15 Mty)
	3.	Bina Extn. OCP (6 Mty)
	4.	Jayant OCP (10 Mty)
	5.	Amlohri OCP (10 Mty)
<b>Other Reports</b>		
<b>RI-I</b>	1.	Conceptual Report on OC patch working through outsourcing of Mallick Basti OC Patch
	2.	Conceptual Note on Dabor OC Patch
	3.	Simlong OC (Model for PR)
	4.	Conceptual Note on hiring of HEMM for OB removal from R-V T/R-VII parting & R-VI/R-VII B parting of Sonepur Bazari OCP
	5.	UCE on Sonepur Bazari (Combined OCP)
	6.	Blasting and vibration studies at Mahabir OC
	7.	Blasting and vibration studies at Satgram UG Project
	8.	UCE for introduction of second continuous miner at Jhanjra UG
	9.	Blasting and vibration studies at Parasea 6 & 7 Incline
	10.	Foreclosure Report of J.K. Nagar UG (0.28 Mty)
<b>RI-II</b>	1.	Revised global bid for four mining blocks (Muraidih, Madhuband, Moonidih & PB) and Global bid of Block-II Continuous Miner
	2.	Scheme for stabilisation of NH-32 in the area of Godhur Colliery
	3.	Global Bid documents for three abandoned mines viz. Kenduadih, Kustore and Dharmaband
	4.	Scheme for dealing with fire at Ena Colliery
	5.	Report on Energy Conservation Audit of Vishwakarma OCP
	6.	Global Bid document (Technical Part) for Lohapatti Colliery
<b>RI-III</b>	1.	AAP of Koed Manatu OC
	2.	Master Plan of West Bokaro Coalfield
	3.	UCE of DRD OCP (4 Mty)
	4.	Subsidence prediction & management report of Argada UG

<b>RI-IV</b>	5.	UCE of Pachra OCP (15 Mty)
	6.	UCE of Piparwar Mangardaha OCP
	7.	Subsidence prediction & management report of Pindra UG Mines
	1.	Report on construction of bridge over Penganga River for approach to Penganga OC
	2.	Report for deployment of dragline at Ghugus OCM
	3.	Energy Audit Report (Electrical) with benchmarking for Vishnupuri-II UG
	4.	Energy Audit Report (Diesel) with benchmarking for Naigaon OC
	5.	Geological Model in MINEX for Yekona-II Extn. OC
	6.	Geological Model in MINEX for Ghatrohana-Gondegaon (A) OC
	7.	Geological Model in MINEX for Bhatadi North West OC
	8.	Conceptual Note for Nakoda UG to OC
	9.	Scheme for Ballarpur OC
	10.	Geological Model in MINEX for Nakoda UG to OC
	11.	Geological Model in MINEX for Visapur OC
	12.	Scheme for Ukni OC
	13.	Mine Closure Plan for Shobhapur UG
	14.	Mine Closure Plan for Satpura-II UG
	15.	Mine Closure Plan for Pathakhhera-I&II UG
	16.	Energy Audit Report (Electrical) with benchmarking for Saoner-I UG
	17.	Mine Closure Plan for Sasti UG
<b>RI-V</b>	18.	Mine Closure Plan for CRC UG & New Majri-III UG
	19.	Energy Audit Report (Electrical) with benchmarking for Tawa-I UG
	20.	Energy Audit Report (Diesel) with benchmarking for Niljai OC
	1.	UCE of Rajnagar OC (1.7 Mty)
	2.	Report on ground vibration in Umaria UG
	3.	Controlled blasting study at Mahan II OC
	4.	Subsidence study for Bincara UG
	5.	Controlled blasting study at Damini OC
	6.	Malachua (Model for PR)
	7.	Madan Nagar South (Model for PR)
<b>RI-VI</b>	8.	Batura Extn. & Comb. (Model for PR)
	9.	Study of blast induced ground vibration near village hutments at Kanchan OCM
	10.	Controlled blasting study at Rajnagar OCM for dragline working near railway line and hutments
	11.	Master Plan of Korba Coalfield
	1.	Report on transportation of rejects at Bina Deshaling Plant
	2.	Mine Closure Plan of Krishnashila OCP
	3.	Mine Closure Plan for Block-B OCP
	4.	Chandela-Kakri-Kakri North-Bina OC (Model for PR)
	5.	Mine Closure Plan for Khadia OCP
	6.	Mine Closure Plan for Nigahi OCP
<b>RI-VII</b>	7.	Scheme for effluent treatment of Balia Nala
	1.	Revised Scheme for CHP and Silo loading arrangement for Ananta OC (15 Mty)
	2.	Mine closure plan of Lingaraj OC Expn
	3.	Mine closure plan of Lakhanpur OC Expn
	4.	Power source re-organization of Talcher coalfield / Nandira Sub Station augmentation
	5.	Progressive Mine Closure Plan of Lajkura OCP
	6.	Mining Plan of Talcher West UG
	7.	Scheme for CHP & Silo of Bhubaneswari OCP

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8. Mining Plan of Natraj UG
9. Mining Plans of Basundhara (West) OCP & Jagannath UG
10. Mining Plan of Talcher UG
11. Mining Plan of Lingraj OCP
12. Scheme for SILO construction for Kulda OCP (for Basundhara washery)
13. Mining Plans of Jagannath OCP & Kulda OCP
14. Mine Closure Plans of Samleswari OCP, Ananta OCP, Hingula OCP, Bharatpur OCP, Bhubaneswari OCP, Belpahar OCP, Talabira OCP, Kaniha OCP & Gopalprasad OCP
15. Mine Closure Plans of Natraj UG, Talcher West UG, Orient-4 UG & HBI UG
16. Land use/land cover mapping of Ib Valley coalfield based on satellite data (1:50000 scale)
1. Conceptual Report for setting up of 4 Mty washery for Damodar River Diversion (DRD) OCP
2. Conceptual Report for Sonepur Bazari washery at ECL
3. Gas survey of Kurja mine, SECL
4. Preparation of scheme for installation of APO (Apex Planning Organisation) and ATO (Apex Training Organisation)
5. Gas survey of Kedla Mine No. 1, CCL
6. Ventilation Survey of Mahakali Colliery, Chandrapur Area, WCL
7. Controlled blasting and vibration study at Sirka OC, CCL
8. Report on RMR and Rock Load of Sudamdih Shaft Mine (XI/XII Seam), Busserya Colliery (V/VI C Seam), Damoda Colliery (IV/V/VI/VII Combined Seam) and Lohapatti Colliery (Pathorgoria Seam), BCCL
9. Benchmarking of electrical consumption and fixation of electrical consumption norms in Jagannath Opencast Project of MCL
10. Benchmarking of diesel consumption and fixation of diesel consumption norms in Ananta & Jagannath Opencast Projects of MCL
11. Report on RMR and Rock Load of Ratibati Colliery (R-VI Seam) and Badjna Colliery (Kalimati Seam - Top section) of ECL
12. Controlled blasting and vibration study at Block-II OCP, BCCL
13. Conceptual Report for Ib Valley (Lakhanpur) washery at MCL
14. Soil erosion study for Topa RO OCP, CCL
15. Scheme for WAN connection with weighbridges of BCCL
16. Interim Geological report of Sayang NW (outsourcing)
17. Report for unloading rake of 58 BOBR Wagons of raw coal of Dugda Washery, BCCL
18. Study of the feasibility of increasing the evacuation capacity and underground bunkering capacity of Moonidih Project, BCCL
19. Subsidence prediction report for Dhori (K) UG Colliery, CCL
20. Report on RMR and Rock Load of Pindra Colliery (VI/VII Combined Seam, Sector-I) and Urimari UG Colliery (Bansgarha Seam, Sector-III) of BCCL
21. Controlled blasting and vibration study at Purnadih OCP, CCL
22. Gas survey of Lower Semana, Hathidari and Bansgarha seams of Bhurkunda-B colliery, CCL
23. Report on RMR and Rock Load of Bhurkunda 'B' Colliery (Lower Semana, Hathidari and Bansgarha Seams) of CCL
24. Subsidence calculation report for depillaring scheme with stowing of Mine No.4, Orient Area, MCL
25. Soil erosion study for Urimari OCP, CCL
26. Conceptual Report for washery at Hingula Area, MCL
27. Land use/land cover mapping of buffer zone of Nawapara UG, Balgi UG & Binkara UG, SECL
28. Land use/land cover mapping of buffer zone of 30 km of Hura C OCP, ECL



29. Controlled blasting and vibration study at Kulda OCP, MCL
30. Interim Geological report of Kayda-Chaudhar-Gariapani (outsourcing)
31. Soil erosion study for Tapin OCP, CCL
32. Land use/cover mapping of core & buffer zone of Batura OCP of SECL, Ashoka washery and Ashoka OCP of CCL
33. Land use/land cover mapping of buffer zone of Jhanjra UGP, ECL
34. Assessment of OC Mine Capacity and Capacity Utilisation of CIL Mines during 09-10
35. Assessment of UG Mine Capacity and Capacity Utilisation of CIL Mines
36. Report on RMR and Rock Load of Pandaveswar Colliery (R-V, R-IV, R-II/III and R-VI Seams)
37. Benchmarking of diesel consumption and fixation of diesel consumption norms in Pauni mine of WCL
38. Land use/land cover mapping of buffer zone of Haripur UG, ECL
39. Benchmarking of annual minewise diesel consumption for identified 3 opencast mines of SECL
40. Benchmarking of annual minewise diesel consumption for identified 8 opencast mines of NCL
41. Auto sampling arrangement for Khadia CHP (Phase-I)
42. Controlled blasting and vibration study at Gastlitand Colliery, BCCL
43. Land use/land cover mapping of buffer zone of Parej East OC, Tetariakhar OC, Piparwar-Mangardaha OC and Dhori Washery, CCL
44. Gas survey of Sarubera & Argada Collieries, CCL
45. Report on RMR and Rock Load of Churi Colliery (Upper Bachra Seam), CCL
46. Report on RMR and Support Layout of Orient Colliery (Lajkura Seam-II), MCL
47. Performance analysis of HEMM (2009-10)
48. Specific consumption of Diesel/Power/Explosives
49. Capacity and Capacity utilisation during 09-10
50. Benchmarking of diesel consumption and fixation of diesel consumption norms in Jharkhand mine of CCL
51. Gas survey of Umaria Colliery, SECL
52. Report on RMR and Support Layout of Khottadih Colliery (R-II/III, R-IV, R-V and R-VI Seam), ECL
53. Land use/land cover mapping of buffer zone of Bansra UG, ECL
54. Land use/land cover mapping of buffer zone of washery and mines of cluster-I & II, BCCL
55. Land use/land cover mapping of buffer zone of Churcha UG, SECL
56. Soil erosion study for Tarmi OCP, CCL
57. Soil erosion study for Amrapali OCP, CCL
58. Soil erosion study for Ara Project, CCL
59. Report on RMR and Rock Load of Sarubera East Mine (I Seam) and Argada Colliery (I Seam), CCL
60. Controlled blasting & vibration study at Ara OCP, CCL
61. Land use/land cover mapping of buffer zone of Rangamati-A UG, ECL
62. Land use mapping of Damua & Sasti UG, WCL
63. Benchmarking of diesel consumption and fixation of diesel consumption norms in Ashok OCP of CCL
64. Controlled blasting & vibration study at Phularitand OCP, BCCL
65. Land use/land cover mapping of core and buffer zone of Rangamati-B UG, ECL
66. Standardised Global Bid for deployment of CM, PSLW, high speed incline drivage and shaft sinking
67. Report on RMR and Rock Load of J K Nagar Colliery (Satgram Seam), ECL

68. Report on RMR and Support Layout of K D Incline Colliery (K D Seam), ECL
69. Report on assessment of CMM potentiality in deep side of operating opencast mines, Moher sub-basin of Singrauli Coalfield
70. Report on assessment of CMM potentiality in deep side of operating opencast mines of Korba Coalfield
71. Soil erosion study for Magadh OCP, CCL
72. Benchmarking of annual minewise diesel consumption for identified 14 opencast mines of CCL
73. Benchmarking of annual minewise diesel consumption for identified 5 opencast mines of MCL
74. Benchmarking of annual minewise diesel consumption for identified 14 opencast mines of BCCL
75. Benchmarking of annual minewise diesel consumption for identified 9 opencast mines of ECL
76. Benchmarking of annual minewise diesel consumption for identified 14 opencast mines of WCL
77. Illumination survey of Basundhara (West) & Lingaraj OCP
78. Assessment of Normative Cost of sand stowing for all stowing mines (3 nos.) of CCL revised at 2009-10 price base
79. Assessment of Normative Cost of sand stowing for all stowing mines (13 nos.) of WCL revised at 2009-10 price base
80. Assessment of Normative Cost of sand stowing for all stowing mines (2 nos.) of MCL revised at 2009-10 price base
81. Assessment of Normative Cost of sand stowing for all stowing mines (12 nos.) and sand transportation of D&F Ropeways, BCCL revised at 2009-10 price base
82. Scheme for depillaring of Orient Mine no.4, MCL with stowing
83. Mine capacity assessment of opencast mines of CIL - Projections as on 1.4.2011
84. Land use/land cover mapping of buffer zone of Amritdhara UG, Shitaldhara-Kapildhara UG and Bakulmuni UG of SECL
85. Land use/vegetation cover mapping of Wardha Valley Coalfield, Kamptee Coalfield, Bisrampur Coalfield, Ib-valley Coalfield & Mand-Raigarh Coalfield

#### ***Environment Management Plan (Draft EMP)***

##### **New Cases**

##### **Draft EMP**

<b>HQ</b>	1. Dhory Washery
<b>RI-I</b>	1. Rangamati B UG
	2. Rangamati A UG
	3. Tilaboni UG
<b>RI-II</b>	1. Madhuband Washery
	2. Patherdih Washery
	3. Damuda BJ (Cluster-I Mine)
<b>RI-III</b>	1. Ashoka Washery
	2. Piparwar Mangardaha OC
	3. Parej East UG
<b>RI-IV</b>	1. Inder UG to OC
	2. Mugoli OC Expn.
	3. Ukni Deep OC
	4. Dhorwasa OC Expn.
	5. Telwasa OC Expn.
	6. Motaghat OC
	7. Kamptee Deep OC
<b>RI-V</b>	1. Dhanpuri-Amlai group of Mines

<b>RI-VII</b>	2.	Gevra OC Expn. (under clause 7.2)
	3.	Dipka OC Expn. (under clause 7.2)
	1.	Talabira II & III OCP (23 Mty)

**FORM-I  
HQ**

**RI-I**

**RI-II**

**RI-III**

**RI-IV**

1. Basundhara Washery
2. Jagannath Washery
1. Tilaboni UG Expn.
2. Narainkuri UG
1. Patherdih Washery
2. Dugda Washery
3. Block-II UG (Cluster-II Mine)
4. Phularitand OC (Cluster-II Mine)
5. Singra UG (Cluster-XI Mine)
1. KDH OC
2. Ashok Expn. OCP
3. Pichri OCP
1. Motaghat OC
2. Sakhari-Irawati (Pauni-III) OC
3. Kamptee Deep OC
4. Tawa-II UG Expn.
5. Tawa-III UG Expn.
6. Dhau North UG
7. Niljai Deep OC
8. Murpar UG Expn.

**Violation Cases**

**Draft EMP**

**RI-III**

**RI-II**

1. Tetariakhar OC  
Cluster-I Mines, BCCL
1. Damuda (Albion)
2. Damuda UG
3. Damuda (Ghutway) (closed mine)

**Form-I**

**RI-I**

- Cluster-V Mines, ECL
1. Parbelia UG
2. Dubeswari UG
- Cluster-VI Mines, ECL
3. Dhemomain Inc. UG
4. Sodepur UG
5. Narsamuda UG
6. Patmohana UG
7. Chinakuri-I UG
8. Chinakuri-III UG
9. Bejdih UG
10. Methani UG
11. Sheetalpur UG
- Cluster-VII Mines, ECL
12. Manoharbahal UG
13. Chakballavpur UG
14. West Bhanora UG

15. Barmondia UG  
Cluster-II Mines, ECL
16. Kumardhubi UG
17. Barmuri OC
18. Rajpura OC  
Cluster-IX Mines, ECL
19. Ratibati UG
20. Chapuikhas UG
21. Tirat UG
22. Kuardih UG UG
23. Nimcha UG
24. Ghusik UG
25. Kalipahari UG
26. Muslia UG
27. New Ghushik UG
28. Jemehari UG
29. Damra UG
30. Mahabir UG  
Cluster-I Mines, ECL
31. Hariajam UG
32. Badjna UG
33. Chapapur-II UG
34. Khoodia UG
35. Lakhimata UG
36. Sampur-B UG
37. Mandman UG
38. Nirsa OC
39. Shampur-A UG & Patch
40. Gopinathpur UG & Patch
41. Kapasra UG  
Cluster-XII Mines, ECL
42. Pandaveswar UG
43. Dalurband OC & UG
44. Manderboni UG
45. South Samla UG
46. Madhaipur UG
47. Nutandanga UG
48. Kendra UG
49. Samla UG  
Cluster-VII Mines, BCCL
1. Dhansar UG
2. Alkusa UG
3. Kusunda OC
4. S. Jharia/ROCP OC
5. Burragarh UG
6. Simlabahal UG
7. Hurriladih UG
8. Industry UG (closed mine)
9. Ena OC (closed mine)
10. Kustore UG (closed mine)
11. East Bhuggatdih UG (closed mine)
12. Bhutgoria UG (closed mine)  
Cluster-IX Mines, BCCL
13. Lodna UG

**RI-II**

14. N. Tisra UG
15. S. Tisra/NTST OC
16. Bagdigi UG & OC
17. Joyrampur UG
18. Jeenagora OC
19. Bararee UG & OC
20. Jealgora Mixed mine (closed mine)  
Cluster-X Mines, BCCL
21. Bhowrah (N) UG & OC
22. Bhowrah (S) UG
23. COCP
24. Sudamdih (Incline) UG
25. Sudamdih (Shaft) UG
26. Patherdih OC & UG
27. Amlabad (Mixed) Mine (closed mine)  
Cluster-V Mines, BCCL
28. Tetulmari Mixed
29. Mudidih UG
30. Nichitpur OC
31. Sendra Bansjora Mixed
32. Basdeopur Mixed
33. Kankanee OC
34. Loyabad UG (closed mine)  
Cluster-II Mines, BCCL
35. Block-II OC
36. Jamunia OC
37. Muraidih OC
38. Shatabdi OC  
Cluster-XV Mines, BCCL
39. Madhuband UG
40. Phularitand UG
41. Kharkharee UG
42. Dharmaband Mixed Mine (closed mine)  
Cluster-VIII Mines, BCCL
1. Bastakola OC & UG
2. Bera OC & UG
3. Dobari UG
4. Kuya OC & UG
5. Ghanoodih OC
6. Goluckdih UG & OC
7. Kujama UG (closed mine)  
Cluster-XI Mines, BCCL
8. Gopalichuk UG & OC
9. Kachchi Balihari 10/12 Pit UG
10. PB Project UG
11. Bhagaband UG
12. Moonidih UG
13. Keduadih UG (closed mine)
14. Pootkee UG (closed mine)
15. Kachchi Balihari UG (closed mine)

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## **2.1 COAL & MINERAL PREPARATION**

CMPDI offers a broad spectrum technology services ranging from concept to commissioning of Coal washeries, Mineral beneficiation Plant and Modification / Modernization of existing plants. The broad technological services encompass exhaustive Laboratory studies, Techno Economics Feasibility Report, Conceptual Report, Project Planning, Detail Design, Construction management and wide range of R&D activities.

CMPDI has already handled many prestigious assignments in the field of Beneficiation of coal and other minerals against stiff competition in the open market including World Bank aided project "Report on Techno-economic study of coal washeries for Cement Industry" and ADB funded project "Implementation of clean coal technology through coal beneficiation in India."

The following major works have been completed during the year 2010-11.

### **A. REPORTS/STUDIES.**

1. Conceptual Report for setting up of 4.0 Mty capacity washery for Damodar River Diversion (DRD) OCP.
2. Revised Conceptual Report for setting up of 8.0 Mty capacity non-coking coal washery at Sonepur Bazari, ECL on BOM concept.
3. Preparation of Updated cost estimate and Expression of interest for setting up of Dhori Washery, CCL
4. Preparation of conceptual report for Ib Valley Washery (Lakhanpur Washery)
5. Development of Data Bank for 16 nos. CIL washeries located in BCCL,CCL & WCL for year 2009-10
6. Report for unloading rake of 58 BOBR Wagons of raw coal of Dugda Washery, BCCL
7. Preparation of report on Washability tests of bore-hole samples of Chendipada coal block.
8. Washability test of CBME-101,104,105 & 107
9. Preparation of Conceptual report of Hingula washery at Talcher coalfields area, MCL.
10. Preparation of report on Washability tests on Coal Core Samples of Nuagoan-Telesahi block, Talchir coalfield for MECL.
11. Enhancement of storage capacity of clean coal & washed coal power bunkers at Sawang washery :
  - i) Preparation of project report
  - ii) preparation of TSD

### **Tender Document**

1. Preparation of Tender Document for replacement of Existing coarse coal and fine coal Jigs at Nandan Washery, WCL with suitable modern jigs on Turn-key-basis.
2. Preparation of NIT for installation of Apron Feeder, Primary & secondary Twin shaft sizers at Kedla Washery

### **Tender Scrutiny**

1. Evaluation of Bids (RFP & Price) of Vasundhara washery (10 Mty) MCL on 'BOM' concept
2. Techno commercial Evaluation of Bids (RFQ & RFP) for Ashoka washery (5 Mty), CCL on 'BOM' concept.
3. Evaluation of Bids (RFQ & RFP) for Patherdih NLW Coal washery, BCCL on BOM concept.

### **R&D and S&T Projects**

1. Preparation of Agreement for development of coal washing simulator under Indo-US.
2. Preparation of Tender Document for Dry beneficiation using radiometric detection & removal.

### **Outside Consultancy**

1. Revised Cost estimate with respect to report of installation of washery at Tasra OCP (Integrated Mining and Washery)
2. Testing of coal sample of Bhubaneswari mine, Talcher Coalfields for NTPL
3. Washability tests on Coal Core Samples of Nuagoan-Telesahi block, Talcher Coalfield for MECL

## **2.2 PROJECT APPRAISAL**

1. Scrutiny and appraisal of 37 nos. of draft PRs /EPRs/ Master Plans / Other Reports prepared by Regional Institutes and HQ Departments of CMPDI during the year 2010-11, and coordination for their presentation at CMPDI (HQ) for guidance to the concerned Regional Institutes before finalization of the reports.
2. Updation of status of implementation of ongoing projects costing more than Rs.500 crs., especially with respect to actions under CMPDI's responsibility, for Secretary(Coal) Review meeting held quarterly.
3. Updation of status of formulation of PRs of XI Plan coal projects of CIL at the time of Secretary (Coal) Quarterly Review meeting.

### **3.0 UNDERGROUND MINING AND OPENCAST MINING**

#### **3.1 UNDERGROUND MINING**

The following jobs were taken up during the year 2010-11

##### **A. OUTSIDE CONSULTANCY JOBS :**

1. Preparation of mining plan for Begunia seam of Mahtadih - Raidih of Ramnagar Colliery, IISCO
2. Assessment of Normative Cost of sand stowing for all stowing mines (22 nos.) of SCCL revised at 2009-10 price base.
3. Assessment of Normative Cost of sand stowing for all stowing mines (5 nos.) of TSL revised at 2009-10 price base.
4. Assessment of Normative Cost of sand stowing for all stowing mines (3 nos.) of ISP-SAIL revised at 2009-10 price base.
5. Preparation of EOI, Bid document & vetting of designs for construction equipping & furnishing of new shaft at Hutti Gold mines.
6. Preparation of DPR for Gare-III sub block of Gare Pelma sector, Raigarh coalfields, C.G.
7. Preparation of mining plan & project report for Macherkunda coal block, Latehar for Bihar Sponge Iron Ltd.
8. Comprehensive Consultancy Services including design & preparation of Tender document for sinking of 7.5 meters diameter vertical high speed shaft about 630 metres. deep at Balaghat mine of MOIL.

##### **B. CIL JOBS :**

1. Gas survey of Kurja mine, Hasdeo area, SECL.
2. Ventilation survey of Mahakali Colliery, Chandrapur Area, WCL.
3. Stability analysis of permanent headframe, Pit no.1 & 2 for Kunustoria mine, ECL.
4. Gas survey of Kedla mine no.1, Hazaribagh Area, CCL
5. Preparation of support design & bill of quantities for drivage of 3 nos. parallel incline drifts at ROCP/SJ, Kustore Area, BCCL.
6. Gas survey of Lower Semana, Hathidari and Bansgarha seams of Bhurkunda-B Colliery.
7. Techno-commercial evaluation of bids for development and extraction of coal from Muraidih U/G mine by mass production technology.
8. Gas survey of Barka-Sayal Area, CCL.



9. Gas survey of Sarubera colliery, CCL.
10. Capacity assessment and utilisation of U/G mines of CIL.
11. Gas survey of Argada colliery, seam I & J, CCL.
12. Gas survey of Umaria colliery, Johilla area, SECL.
13. Report for reduction of fleet angle of 6 pit winder at Alkusa colliery, BCCL.
14. Detailed design drawing of Fan Drift & Fan House suitable for PV300 fan for Nandira U/G mine, Talcher area, MCL.
15. Preparation of standardized global bid for deployment of Continuous Miner (CM), PSLW and high speed incline drive and shaft sinking.
16. Assessment of Normative Cost of sand stowing for all stowing mines (43 nos.) & sand transportation of J K Ropeways, ECL revised at 2009-10 price base.
17. Assessment of Normative Cost of sand stowing for all stowing mines (12 nos.) & sand transportation of D&F Ropeways, BCCL revised at 2009-10 price base.
18. Assessment of Normative Cost of sand stowing for all stowing mines (3 nos.) of CCL revised at 2009-10 price base.
19. Assessment of Normative Cost of sand stowing for all stowing mines (13 nos.) of WCL revised at 2009-10 price base.
20. Assessment of Normative Cost of sand stowing for all stowing mines (2 nos.) of MCL revised at 2009-10 price base.
21. Scheme for depillaring of Orient mine no.4, MCL with stowing
  - ❖ Phase - I : Depillaring schemes.
  - ❖ Phase - II : Detailed design of sand stowing arrangement.
  - ❖ Phase - III : Estimation of normative cost of sand stowing.
22. Study Report for Technical Feasibility of Man Riding System in R-VI seam of Jhanjra Project, ECL
23. Standard NIT for Universal Drilling Machine (UDM).
24. Master plan of NEC (Under Ground portion).
25. Preparation of draft Notice Inviting Tender (NIT) for operation of Chinakuri-I, U/G mine, ECL, through joint venture route.
26. Study for improvement of H/L ratio in Panel-C of Upper Semana & Lower Semana seams in Sirka U/G mine, CCL.
27. Preparation of draft project report for Jagannath u/g mine of Talcher area, MCL
28. Detailed design drawing of Air Shaft of Kurasia U/G mine, Chirimiri area, SECL

## **3.2 OPENCAST MINING**

### **JOBS COMPLETED DURING 2010-11**

#### **A1. Outside Consultancy Jobs**

1. Project Cost Estimate for Pakri Barwadih OCP (15 Mty), NTPC
2. Bankable Detailed Project Report (DPR) for Mahan OCP 8.5 Million tonne per year (Mty), Mahan Coal Co. Ltd.
3. Mine Closure Plan for Hadla, Neyveli Lignite Corp.
4. NIT Document for Integrated Tasra Mine & Washery (Technical Part), SAIL

#### **A2. Major Internal Consultancy Jobs**

1. PR for Balram Expn. (15 Mty) (Recast), MCL
2. Updated Cost Estimate for Tipong OC (1 Mty), NEC

#### **A3. Other Major Jobs**

1. Assessment of Capacity of all the opencast mines of CIL
2. Performance Analysis of HEMM deployed in opencast mines of CIL
3. Grade-wise Reserve Assessment of mines & blocks for CIL IPO
4. Specific Consumption of explosives, diesel & electric power in OC mines of CIL
5. Technical Scrutiny of Project Reports

### **B. JOBS IN PROGRESS**

#### **B1. Outside Consultancy Jobs**

1. Mining Plan for Palana Lignite Mine, Neyveli Lignite Corp. (Draft report submitted)
2. FR for Palana Lignite Mine, Neyveli Lignite Corp. (Draft report submitted)
3. DPR for Gare-III OCP, Goa Industrial Development Corp. (Draft report submitted)
4. Mining Plan for Devangudi Lignite Mine Project, Neyveli Lignite Corp.
5. Feasibility Report (FR) for Devangudi Lignite Mine Project, Neyveli Lignite Corp.
6. Udated Cost Estimate (UCE) for Tasra Integrated Report (Mine + Washery), SAIL

#### **B2. Major Internal Consultancy Jobs**

1. Revised FR for Argada OCP (1.2 Mty), CCL (Draft submitted)
2. PR for Jagannath OCP (Re-org), MCL
3. FR for Tikak OCP, NEC
4. Master Plan of NEC

## **4.0 ENGINEERING SERVICES**

Apart from providing consultancy services for coal handling plants, workshop, power supply, distribution and control systems, pumping and drainage system, industrial and residential buildings, roads and railway siding, townships, the following services were provided:

## **4.1 CIVIL ENGINEERING**

**Following major services were carried out during the year 2010-11 :**

### **On going jobs :**

1. Scrutiny of design/ drawing for Amlohri CHP of capacity 10 MTY with Rapid loading Silo of capacity 3000 tonne, Ground Bunker of capacity 20000 tonne, Receiving pit with Gyratory Crusher, associated conveyor Structures and associated civil /structural and infra-structure facility.
2. Scrutiny of design/ drawing for Bharatpur 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.

### **Jobs completed :**

1. Design of Padmapur CHP of WCL
2. Rehabilitation of around 35 metre high damaged trestle of Jayant CHP hit by a running wagon
3. Interior Design and Air-conditioning Scheme for Central Hospital of MCL at Talcher
4. Structural stability study of Headframe of Madhabpur UG mine, Mithani Colliery Pit No. 1 and Pit no. 3
5. Turnkey Tender Documents for Krishnashila Main CHP and Block B CHP
6. Preparation of Turnkey Tender Document for Shifting of existing OB sub-station Duchichua OCPs at NCL (Civil Part)
7. Preparation of feasibility of 132 KV substation for BCCL.
8. Detail architectural design, preparation of tender document, tendering, finalisation of tender and award of work and details design of 8 Nos. of B-type quarters for CMPDI, RI-V at Bilaspur
9. Study of structural stability of Bunker and Conveyor structure of CHP of Dhanpuri OCP of SECL
10. Design of standard A and B-type Quarters for MCL
11. Design of water dam in the U/G mine at Choitudih, Katras Area

## **4.2 ELECTRICAL AND MECHANICAL ENGINEERING SERVICES**

### **4.2.1 Outside Consultancy**

- Mine infrastructure facility (CHP, Power supply, Maintenance facility & Pumping) for Bankable DPR for Mahan OCP of Mahan Coal Limited.

- Mine infrastructure facility (CHP, Power supply, Maintenance facility & Pumping) for Feasibility report for Palana Lignite Mine Project of NLC.
- Mine infrastructure facility (CHP, Power supply, Maintenance facility & Pumping) for Feasibility report for Gare-III OCP of GMDC.

#### **4.2.2 Coal Handling Plant**

- Preparation of tender documents of Amlohri CHP, Ph-II -10 Million tonne per annum (Mtpa), 6 Mtpa incremental. The scope of work also includes floating of tender, bid evaluation, award of job, approval of drawings and author's supervision. The job has been successfully awarded. The construction work has started and approval of drawings and author's supervision work is going on.
- Tender document of Krishnashila CHP (4Mtpa) was prepared and tender has been floated. The scope of work also includes floating of tender, bid evaluation, award of job, approval of drawings and author's supervision.

#### **4.2.3 FBC based power plant**

- A model bid document for construction of FBC power plant based on washery rejects has been prepared with "Build Own Operate (BOO)" concept.
- Planning for FBC based power plant utilising washery rejects for the following projects has been done:
  - i) Kusmunda OCP(50Mtpa),SECL    ii) Siarmal (40 Mtpa),MCL    iii) Balram expansion OCP(15 Mtpa),MCL    iv) Ashok OCP (10Mtpa), CCL.
- Coceptual report for FBC based power plant at Dugdha, utilising washery rejects of Madhuband and Dugdha washery.
- Bid document for Chinakuri captive Termal Power Plant (TPP).

#### **4.2.4 Energy Audit and Benchmarking**

- Reports on Benchmarking of diesel consumption and fixation of equipment wise diesel consumption norms for 4 mines of CCL.
- Reports on Benchmarking of diesel consumption and fixation of equipment wise diesel consumption norms for 1 mine of MCL and 1 mine of WCL.
- Report on Benchmarking of electrical energy consumption for 1 mine of MCL .
- Reports on annual benchmarking of diesel consumption of 70 identified OCPs of CIL.
- Report on electrical safety audit of CMPDI(HQ) Complex.

#### **4.2.5 Power supply and distribution & control system**

- NIT for shifting of Jayant Central Sub-station of NCL

- NIT for shifting of Dudhichua H OB sub-station of NCL.
- Scheme for 132 kV Central sub-station of BCCL.

#### 4.2.6 Inspection Services

CMPDI continued Third party inspection services for Pre-despatch inspection of equipment and materials purchased by various subsidiaries of CIL. Total revenue earned from these services was Rs. 1.95 crores during 2010-11.

#### 4.2.7 Other Studies

- Mine infrastructure facility (CHP, Power supply, Maintenance facility & Pumping) for Feasibility report for Balram OCP of MCL.
- Illumination survey of 2 mines of MCL.
- Report on auto sampling system (Ph-1) of Khadia CHP
- Mine infrastructure facility (CHP, Power supply, Maintenance facility & Pumping) for master plan of NEC.
- Scheme on proposed central air conditioning system for Nehru Shatabdi Central Hospital (NSCH) at Talcher, MCL
- NDT of Dragline (5 nos.)/ Winders (15 nos.)/ Case Suspension Gear (4sets) / CHP (3 nos.)/ Shovel (2nos.) of 14 mines of CIL.

### 4.3 TOWN ENGINEERING SERVICES

Following are the list of completed and running works under **Special Repair** and **CSR** works in 2010-11 in Town Engineering Department of CMPDI, HQ. Highlighting the activities / jobs completed and work-in progress during the financial year 2010-11.

#### Completed works:

Sl No	Name of works	Work Value ( Rs. in lakh)
1.	Construction of park in front of Gondwana house, old office bldg Multi storied C & D type qtrs, at Hillock behind sports ground and Near B Type qtrs at CMPDI,HQ.	Rs 77.00
2.	Spl repair and maintenance of Environment Division at 7 <sup>th</sup> floor and CP division of at 5 <sup>th</sup> floor of CPEI building CMPDI HQ.	Rs 92.50
3.	Development work including construction Of boundary wall around A,B & C type Qtrs at CMPDI, HQ Ranchi.	Rs 39.00
5.	Renovation of Geophysics lab at ground Floor, chemical lab at 1 <sup>st</sup> & 2 <sup>nd</sup> floor,NDT	Rs 55.11

Mining lab at 2<sup>nd</sup> floor and electronics lab  
At 3<sup>rd</sup> floor of R&D building at CMPDI,  
HQ Ranchi.

- |  |           |
|--|-----------|
| 6. Renovation of Community hall of CMPDI<br>HQ Ranchi. | Rs. 78.50 |
|--|-----------|

**On-going works :**

- |   |           |
|---|-----------|
| 1. Renovation of Toilet & Kitchen of C&D<br>Type qtrs at CMPDI, HQ Ranchi.  | Rs 71.35  |
| 2. Internal and external painting of A,B,C &<br>D type qtrs at CMPDI,HQ Ranchi.   | Rs 91.80  |
| 3. Renovation of MT laboratory at ground<br>Floor of R&D building and setting up for a lab<br>For testing of cement/resin capsules of Mining Lab<br>At CMPDI, HQ. | Rs. 41.72 |

**CSR Work:**

- |  |          |
|--|----------|
| 1. Construction of Patragonda village under<br>CSR scheme. | Rs. 4.40 |
|--|----------|

## **5.0 RESEARCH & DEVELOPMENT PROJECTS**

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

1. 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 CIL, CMDs of CMPDI, SCCL and NLC, Directors of concerned CSIR laboratories, representatives of Department of S&T, Planning Commission and educational institutions, amongst 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. For in-house R&D work of CIL, R&D Board headed by Chairman CIL is also functioning.
2. The SSRC is assisted by a Technical sub-committee headed by CMD, CMPDI. The committee deals with research proposals related to coal exploration, mining, mine safety, coal beneficiation & utilization and also the project proposals on mine environment and reclamation.
3. 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, monitoring the progress of implementation of the projects, preparation of budget estimates, disbursement of funds etc.

Total no. of S&T projects taken up (till 31.03.2011)	-	368
Total no. of S&T projects completed (till 31.03.2011)	-	295

#### 4. S & T PROJECTS OF MOC

##### 5.1.1 Physical status

The status of Coal S&T projects during 2010 -11:

Projects on-going as on 1.4.2010	-	23
Projects sanctioned by Gol during 2010 -11 (Annexure-A)	-	02
Projects completed during 2010 -11 (Annexure-A))		08
Project terminated during 2010 -11	-	01
Projects on-going as on 1.4.2011	-	16

##### 5.1.2 Financial status – Budget provisions and actual are shown below:

(Rs. in Lacs)			
2009 -10		2010 -11	
RE	Actual	BE	Actual
1100	1163	1000	1000

#### 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 co-ordination of research activities funded by CIL R&D Board.

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 the Apex committee and also to CIL R&D Board. The Apex committee is now empowered to sanction individual research project having outlay up to Rs. 500 Lacs and Rs. 2500 Lacs per annum considering all the projects together. CIL R&D Board which earlier had the power to sanction individual project up to 1000 Lacs can now sanction individual project up to 5000 Lacs. Altogether CIL R&D Board can now sanction research projects up to 50000 Lacs in a year. So far, 58 projects have been taken up under the funds of CIL R&D Board out of which 30 projects have been completed till March 2011.

The status of CIL R&D Board Projects during 2010 -11:

i)	Projects on-going as on 1.4.2010	-	20
ii)	Projects sanctioned during 2010-11 (Annexure-B)	-	08
iii)	Projects completed during 2010 - 11 (Annexure-B)	-	02
iv)	Projects terminated during 2010 -11	-	02
v)	Projects on-going as on 1.4.2011	-	24

Total disbursement of fund to CIL R&D projects during 2010 -11 is Rs.3020 Lacs which is over and above the total disbursement of Rs. 2580 Lacs, made during 2009-10.

## S&T Projects of MoC sanctioned during 2010-11

### ANNEXURE- A

(Rs. in lakh)

SI No	Name of the Project.	Total Approved Cost
1.	Integrated communication system to communicate and locate trapped underground miners- MT(EoI)/158 <b>Impl. Agency:</b> Adcept Technology Pvt. Ltd, Kolkata and CMPDI, Ranchi	459.59
2.	Development of self advancing (mobile) goaf edge supports (SAGES) for depillaring operations in underground mines - MT(EoI)/159 <b>Impl. Agency:</b> ISM, Dhanbad & M/s Jaya Bharat Equipment, Pvt. Ltd.(JBEPL), Hyderabad	197.75

## S&T Projects of MoC completed during 2010-11

(Rs. in lakh )

SI No	Name of the Project with Code No.	Total Approved Cost
1	Stability of parting between coal pillars workings in level contiguous seams during depillaring - MT/137 <b>Impl. Agency : CIMFR</b>	50.54
2	Investigation of cavability of overlying strata and development of guidelines of support capacity for longwall faces - MT/151 <b>Impl. Agency : CIMFR, NIRM, ISM, CMPDI, SECL, SCCL, ECL &amp; BCCL</b>	461.3674
3	High resolution seismic monitoring for early detection of slope failures in opencast mines - MT/155 <b>Impl. Agency : Anna University, Chennai.</b>	124.30
4	Production of {60} {70} fullerenes, heterofullerenes and carbon nanotubes from coal - CU/52 <b>Impl. Agency : CIMFR &amp; BHU</b>	175.80
5	Re-design and fabrication of biomass gasification plant coal fuel utilisation - CU/56 <b>Impl. Agency : R.V. College of Engg. Bangalore</b>	40.06
6	Development of suitable biological waste water treatment technology through constructed wetlands for treatment of acid mine drainage from coal projects - EE/31 <b>Impl. Agency : CMPDI</b>	78.62
7	Study on blasting dust management system in an opencast coal mine - EE/35 <b>Impl. Agency : NIRM, MCL &amp; NCL</b>	48.30
8	Development and use of fly ash based pesticides - EE/36 <b>Impl. Agency : NLC, Annamalai Univ. (AMU) &amp; VCRC, Pondichery</b>	304.92



## R&D Projects of R&D Board of CIL sanctioned during 2010-11

**ANNEXURE- B**  
(Rs. in lakh)

SI No	Name of the Project.	Total Approved Cost
1.	Demonstration of Coal Dry Beneficiation System using Radiometric Technique. <b>Impl. Agency:</b> CMPDI & Ardee Hi-Tech Pvt. Ltd., Vishakhapatnam	2565.70
2.	Demonstration of Cost effective Technology for Dry Beneficiation of Coal by Allair-jig. <b>Impl. Agency:</b> CMPDI & MCL	3837.41
3.	Assessment of performance of explosives/blast results based on explosive energy utilization <b>Impl. Agency:</b> CMPDI & NITK, Suratkhal	231.18
4.	An investigation on Adsorption Characteristics of Indian coal and to ascertain recoverability of CBM from deep-seated coal and lignite resources <b>Impl. Agency:</b> CMPDI & IIT, Kharagpur	98.07
5.	Feasibility study of High Angle Conveying System (HAC) in Open Cast Coal Mines by Computer Modeling and Simulation. <b>Impl. Agency:</b> CMPDI, Ranchi	211.50
6.	Investigations of Bolt Behaviour in Development and Depillaring Panels under Blast Induced Dynamic Loading. <b>Impl. Agency:</b> CMPDI, IIT, Kharagpur & RDCIS, Ranchi	491.08
7.	Eliminating the possibility of ignition of gas and incidences of explosion in underground coal mines due to electrical faults by application of innovative technology of fault diversion. <b>Impl. Agency:</b> ISO, CIL, Kolkata & Society for Mining Research Sustainable Development & Environment, Kolkata	11.022
8.	Investigation on augmentation of life of dump truck tyres through the improvement of the tyre retreading compound and development of an optimum road maintenance management system"-Phase-II <b>Impl. Agency:</b> IIT, Kharagpur & BCCL	53.28
<b>Total approved cost of all eight projects</b>		<b>7499.242</b>

## R&D Projects of R&D Board of CIL completed during 2010-11

(Rs. in lakh )

SI No	Name of the Project with Code No.	Total Approved Cost
1.	Development of CIL/CMPDI's capacity for pursuing exploration of CBM in deep seated coal deposit of Jharia and Raniganj Coalfields. <b>Impl. Agency:</b> CMPDI, Ranchi	1991.91
2.	Inventory and monitoring of underground and surface coal mines fire for modeling fire dynamics and rate of fire movement, Jharia Coalfields, Jharkhand using satellite thermal remote sensing data. <b>Impl. Agency:</b> Presidency College, Kolkata & BCCL	138.40

## **6.0 LABORATORY SERVICES**

### **6.1 Chemical Laboratory**

Characterization study of coal core samples was carried out for 25 blocks explored by CMPDI and 22 boreholes for CBM studies during the year 2010-11. A total 10,021 m of coal cores were processed and 20,692 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), four imported equipments and all indigenous equipments were procured for the Lab.

### **6.2 Coal Petrography Laboratory**

During the year 2010-11, the laboratory has undertaken Petrographic study, minerals in coal through X Ray Defratometre (XRD), shape/size study & cleat analysis through Scanning Electron Microscope (SEM) on 545 coal samples from different blocks covering nine coalfields. Apart from it, 3 coal samples were studied as part of outside consultancy job. Systematic characterization of raw & clean coal samples (washery product) from BCCL, CCL and WCL has also been carried out during the year. Comprehensive technical reports on petrography, cleat and mineralization data on coal samples from promotional blocks for XI Plan and for Directorate General of Hydrocarbon (DGH) were prepared for CBM assessment. Under the project "Augmentation of capacity of coal core analysis" two imported equipments were procured for the Lab.

### **6.3 Mining Laboratory**

Mining Laboratory caters for the jobs related with rock mechanics, strata control and subsidence. Following jobs were carried out during 2010-11.

#### **6.3.1 Rock Mechanics :**

- i) Tests were conducted on 1532.00 metre length of drill core samples for determination of physico-mechanical properties.
- ii) Compressive strength of coal samples of VIA, IVB(Top), IVB(Bottom) and V Seams were determined for Lingraj OCP, MCL
- iii) Tests were conducted on 41 nos. roof rock samples from various mines of CIL for determination of strength properties, slake durability index and density.

#### **6.3.2 Strata control and subsidence:**

- i) RMR studies for 26 mines/districts of CIL have been completed and reports submitted.
- ii) Determination of specific gravity of 5 coal seams have been completed and reports submitted.
- iii) Subsidence prediction reports were prepared and submitted for three mines of CIL.
- iv) A comprehensive report submitted on Feasibility of constructing residential colony over goaved out Longwall panels of Rajendra Under Ground Project (UGP), SECL

- v) A Technical scheme submitted to establish ground stability and detailed design parameters of a proposed Meri-go-round over goaved out area of mine no- 4,MCL.
- vi) Proposal submitted for scientific study to establish stability for driving Incline over and below goaved out seams in Bastacolla colliery, BCCL.

### **6.3.3 Cement and Resin Capsule Testing :**

- i) Establishment of Cement and Resin capsule testing laboratory.
- ii) Resin capsule (fast & slow set) testing of 8 Companies completed and report submitted.

### **6.4 Coal Preparatory Laboratory**

- 1. Washability tests of bore-hole samples of Chendipada coal block.
- 2. Washability test of CBME-101,104,105 & 107
- 3. Washability tests on Coal Core Samples of Nuagoan-Telesahi block,Talchir coalfield for MECL
- 4. Washability Test of CNCR-40 & CNCR-43 is completed.

### **6.5 Coalbed Methane (CBM) Laboratory**

CBM Laboratory has carried out the field desorption study at the borehole sites for 24 boreholes and has generated total gas content and gas composition data. In addition, 1068 mine air samples received from different collieries of CCL, ECL, BCCL have been tested and the results submitted. Sample collection and analysis for ventilation air methane (VAM), CMM etc were also taken up by the CBM Lab.

## **7.0 ENVIRONMENTAL SERVICES**

### **7.1 EIA / EMPs**

During the year, CMPDI has prepared 126 Form-I (including 15 clusters consisting of 106 mines) and 25 Draft EIA / EMPs (including 1 cluster consisting of 3 mines) for subsidiary companies of CIL.

### **7 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 2010-11, environmental monitoring of 283 projects/establishments of CIL (ECL-24, CCL-60, WCL-81, SECL-80, NCL-13 and MCL-25) were carried out through seven environmental laboratories located at Asansol, Nagpur, Kusmunda, Hasdeo, Jayant, Talcher and Ranchi.

### **7 Establishment / Upgradation of Environmental Laboratory**

Adhering to the practice of adopting the state-of-the-art environmental monitoring, implementation of schemes of environmental laboratories, approved by CMPDI Board, for Regional Institute-IV, Nagpur and Regional Institute-V, Bilaspur have been taken up and in progress. The laboratory at Talcher Coalfield of MCL has also started functioning under Regional Institute-VII, Bhubneshwar for air quality monitoring of all MCL mines.

### **7.4 ETP for Block-B Project**

Final scheme for an integrated Effluent Treatment Plant (ETP) at Block-B Opencast Project of NCL to treat 1128 m<sup>3</sup>/hr effluent from mine, CHP and workshop has been completed.

### **7.5 Mine Closure Plan for Begunia UGP**

A total of 95 nos. of mine closure plans were prepared during the year. In addition, one Mine closure plan for Begunia UG project (0.33 MTY) of SAIL-ISP was also prepared.

### **7.6 Rehabilitation Plan for Silica Sand Mines**

As per the requirement of Hon'ble Supreme Court of India, rehabilitation plan in accordance with IBM guidelines for 6 nos. of silica sand mines, situated in Aravali Hill region of Faridabad District in the State of Haryana, were prepared and submitted.

### **7.7 Assessment of Stability and Safety for Fly Ash Disposal**

A report on "Assessment of stability and safety for proposed overburden earth fill barrier and study of existing ash filling system" for NTPC, Talcher, using the abandoned quarry of South Balanda OCP of Mahanadi Coalfields Ltd. (MCL) was prepared and submitted.

## **7.8 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, 1 nos. slope stability study and determination of ultimate slope angle of high wall for Tapin OCP of CCL was completed. Besides, 7 nos. of soil erosion control studies of CCL projects were also completed.

## **7.9 Celebration of World Environment Day**

The World Environment Day was celebrated on 5<sup>th</sup> June, 2010. 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.

A rainwater harvesting scheme was prepared for residential quarters in the CMPDI (HQ) Complex. The foundation stone of the scheme was laid on 5<sup>th</sup> June, 2010 (World Environment Day).

## **7.10 S&T Projects**

- A S&T Project on “Development of Suitable Biological Wastewater Treatment Technology through Constructed Wetlands for Treatment of Acid Mine Drainage from Coal Projects”, approved by Ministry of Coal for an estimated cost of Rs 78.62 Lakhs has been completed and the draft report submitted.
- Another S&T project titled “Fly Ash Characterization for Mine Void Reclamation”, approved by Ministry of Coal at an estimated cost of Rs 287.684 lakhs has been taken up and is in progress.

## **7.11 Special Award**

Certificate of excellence in Environment Management has been awarded to CMPDI for its contribution and in appreciation of its performance by Hon'ble Minister of Coal on the occasion of CIL Foundation Day at Kolkata on 1<sup>st</sup> November, 2010.

# **8 INFORMATION & COMMUNICATION TECHNOLOGY**

### **Activities / Jobs completed**

1. MPLS-VPN Wide Area Network of CMPDI (HQ) with Regional Institutes for video, voice and data communication. IT capacity was augmented by adding 6 HP Blade Servers with SAN Storage of 5 TB and a backup facility of tape library. The Internet bandwidth has been enhanced from 2 mbps to 4 mbps.
2. Unified Threat Management has been installed at HQ, Ranchi and all Regional Institutes for Network Security from external and internal threats.
3. Network licenses for MINEX, AutoCAD, Galena and Antivirus are served across the MPLS Network for users using these applications at Regional Institutes and headquarters.
4. Upkeepment of website of BCCL.
5. Payroll using CoalNet software running on MPLS-VPN in HQ, Ranchi and all Regional Institutes.

## **Work in progress**

1. The Online Executive Information System (EIS) for all below board level executives, addressing the basic requirements was launched in Dec, 2010. The application, the 1<sup>st</sup> of its kind in CIL, has been designed to operate securely on the public network using an Internet connection and as such it could be accessed anywhere across the world. The user authentication mechanism is entirely based on Oracle security.

## **8.1 INFORMATION MANAGEMENT SYSTEM**

Funded as Coal India R&D project, e-Library has been setup at CMPDI premises which gives a single point search engine on a variety of technical information pertaining to the Coal Mining Industry. Set up with an objective to establish web-enabled Information Centre to improve capability in information transfer and access, the e-Library has been a step forward towards facilitating ready access to encapsulated information.

CMPDI publishes a premier technical mining journal 'Minetech' which is now financially supported by coal India for publication and distribution of the journal in all the coal mines of Coal India Limited. Two thousand copies of the journal are published quarterly and attracts readership throughout the Indian coal Mining industry as well as all the premier education institutions, CMRI and DGMS and even abroad.

CMPDI also publishes in-house quarterly journal 'Deshkal Sampada' in Hindi which was earlier published biannually. The journal has been honoured by prestigious award from Hindi Sahitya Sammelan, Prayag.

CMPDI is also engaged in publication of technical books and a booklet on 'Safe use of explosives in coal mines' was published in Hindi during 2010-11.

## **9.0 SPECIALISED SERVICES**

### **9.1 GEOMATICS**

CMPDI provides services in the field of remote sensing and survey for land reclamation monitoring, geostructural mapping, siting of power stations, washery and environmental baseline data generation for land and vegetation cover, topographical survey and OB measurement, underground mine correlation survey etc.

#### **9.1.1 REMOTE SENSING**

1. Satellite surveillance of 50 OC projects of WCL, SECL, NCL, MCL, CCL, BCCL and ECL producing more than 5 million cu. M. (coal + OB) together have been carried out for land restoration/reclamation monitoring based on satellite data of the year 2010.
- 7 Land use/vegetation cover mapping of following coalfields have been completed for creating environmental database for land, vegetation, infrastructure, surface water bodies etc. This baseline data will be used in assessing the impact of coal mining on land use/vegetation cover at different cut-off dates.
  - Wardha Valley
  - Kamptee
  - Bisrampur

- Mand-Raigarh
- Ib Valley

3. For compliance of the MoEF stipulations, digital image processing of satellite data for land use/cover mapping in the leasehold area of 11 underground projects viz. Navin Kunda, Singhori, Durgapur, Ganpati, Ballarpur, Dhorwasa, Ambara, Mahadevpuri, Rajur, Damua and Sasti have been completed during the year 2010-11.
4. Land use/cover mapping of core and buffer zone for 29 coal mining projects (ECL: 6, SECL: 8, CCL: 6, BCCL: 9) based on satellite data have been completed for environmental management planning.
5. Identification of mine voids in Kuju area of Central Coalfields Ltd. based on satellite data are carried out for assessing the quantum of OB materials required for filling up of the mine voids.
6. An MoU between CMPDI and Survey of India has been signed for topographical survey of 28 major coalfields of CIL on 1:5000 scale with 2 meter contour interval based on remote sensing technique. The above project was funded by Coal India Ltd. for an amount of Rs.117.00 crore. The output will be available in DXF format which can directly be used on desired scale for coal exploration, mine planning, coal transportation planning, EIA & EMP, infrastructure development planning for coalfield etc. The project is under progress. Aerial photography of 10 coalfields viz. Lakhanpur, Chirimiri, Bishrampur, Sohagpur, Sonhat, Korba, Hasdeo-Arand, Mand-Raigarh, Talcher and Ib Valley has been completed. Benchmark leveling is under progress.
7. Siting of thermal power stations in the States of Haryana and M.P. based on remote sensing data and GIS has been completed for Central Electricity Authority, Ministry of Power, Govt. of India during 2010-11.

### 9.1.2 SURVEY WORK

**Major survey work completed by CMPDI during the year 10-11 are as follows :**

1. Periodic OBR check measurement :- carried out for 38 OC mines (5 in BCCL, 5 in WCL, 8 in SECL, 8 in NCL, 2 in NEC & 10 in MCL)
2. Outsourcing/ contractual OC patch survey :- conducted 69 measurements in 42 outsourcing OC patches (23 in ECL, 15 in CCL & 4 in MCL)
3. Filling of voids of abandoned mines of CCL command area:-  
Carried out survey work of 40 voids & 8 dumps in Kuju Area, CCL & its report submitted.
4. Global Positioning System (GPS) survey for determining Geographical Co-ordinates of Gare IV/ 6 Coal Block Boundary in Raigarh as outside consultancy work for M/s JSPL
5. GPS survey for determining Geographical Co-ordinates of Chintapani block in SECL
6. GPS survey for determining Geographical Co-ordinates of Korba & Trans-Mand Coalfields for RI-V
7. GPS survey for determining Geographical Co-ordinates of Badam Block, CCL for RI-III.
8. Carried out detailed survey of the Umrer OC mine of WCL including its dump & voids areas using Terrestrial Laser Scanner.
9. Measurement of rejects:- Bina OCP (near discharge chute), NCL.
10. Connecting coal blocks with national grid under ICRIS project :- 24 Blocks
11. Surface features survey of road/ Nalla/ HT line:- 43 line kms. in WCL.
12. Survey for Geophysical work:- 12 line kms. In WCL
13. Surface contouring :- 23.3 Sq Km in WCL.
14. Inspection of 11 nos. Theodolites for CCL.
15. Annual Coal Stock measurement in different Coal Cos. :- as per directive of CIL
16. Coal Stock computation related jobs for CBI

#### **Summary of work done by Survey Deptt. of HQ and RIs during 10-11**

	Periodic OBR Survey		OC Patch Survey		Exploration	Misc.
	No. of mines	No. of survey	No. of Patches	No. of survey		
<b>HQ - S&amp;D Deptt</b>	17 *  (14 on regular basis + 3 of	19 *	3	3	-	1.Filling of voids of abandoned mines of CCL command area:- Carried out survey work of 40 voids & 8 dumps in Kuju Area, CCL 2.GPS survey for determining Geographical Co-ordinates of



	NCL on temporary basis)					<p>Gare IV/ 6 Coal Block Boundary in Raigarh as outside consultancy work for M/s JSPL</p> <p>3. GPS survey for determining Geographical Co-ordinates of Chimtapani block in SECL</p> <p>4. GPS survey for determining Geographical Co-ordinates of Korba &amp; Trans-Mand Coalfields, for RI-V</p> <p>5. GPS survey for determining Geographical Co-ordinates of Badam Block, CCL for RI-III.</p> <p>6. Carried out detailed survey of the Umrer OC mine of WCL including its dump &amp; voids using Terrestrial Laser Scanner.</p> <p>7. Inspection of 11 nos. Theodolite for CCL</p> <p>8. Annual Coal stock measurement – as per directive of CIL</p> <p>9. Coal Stock computation related jobs for CBI</p>
	<p><i>*Note: 5 OBR Check measurement surveys in 3 mines of NCL were done by HQ Survey team. These are also included above. Earlier these mines were surveyed by R.I-VI on monthly basis.</i></p>					
<b>R.I-I</b>	2	2	23	48	Final Co-ordinate survey - 122 Nos. BH Proposed BH location: 107 nos.	1. Connecting coal blocks with national grid under ICRIS project - 24 blocks
<b>R.I-III</b>	-	-	12	12	Survey work related to exploration in 3 Camps	-
<b>R.I-IV</b>	5	12	-	-	Final Co-ordinate survey – 147 nos. BH Proposed BH location - 155 nos.	<p>1. Surface features survey of road/ Nalla/ HT line, etc. in 43 line kms</p> <p>2. Survey line for Geophysical work- 12 line kms. in WCL.</p> <p>3. Surface contouring – 23.3 Sq Km</p>
	<b>Periodic OBR Survey</b>		<b>OC Patch Survey</b>		<b>Exploration</b>	<b>Misc.</b>
	<b>No. of mines</b>	<b>No. of survey</b>	<b>No. of Patches</b>	<b>No. of survey</b>		
<b>R.I-VI</b>	8	63	-	-	Survey work related to exploration in 1 Camp	1. Monthly measurement of rejects of Bina OCP (near Discharge Chute), NCL.
<b>R.I-VII</b>	6	9	4	6	Final Co-ordinate survey - 78 nos. BH	

					Proposed BH Location: 151 nos.	
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## 9.2 BLASTING

CMPDI has developed technical expertise and capabilities to render value added services in the field of controlled blasting and vibration study, testing of explosives and accessories, fragmentation assessment and improvement study for gainful utilization of HEMM. It has also technical niche in solving Intricate Blasting Problems viz. assimilation and application of new technology / concept , cast blasting, induced caving by blasting, blasting in hot strata, structural demolition etc. In addition, R&D/S&T projects related to blasting domain and funded by CIL R&D Board are also under implementation for improvement of production, productivity & safety in coal mines.

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

Following services were rendered to different subsidiaries of Coal India Limited & outside agencies during 2010-11 :

- Controlled Blasting & Vibration study – 7 mines of BCCL, CCL and MCL
  - Optimization of blast parameters and improvement of Power factor study – 29 mines of BCCL, CCL, NCL and MCL
  - Random Sampling and Testing of explosives and accessories – In mines of CCL, BCCL, NEC and Neyveli Lignite Corporation
  - Introduction of Site Mix Emulsion (SME) explosives – 2 mines of BCCL and MCL
  - Performance evaluation of new explosive product – 1 product of M/s IDEAL Detonators (P) Ltd.
  - R&D project under implementation
1. Study of Techno-Commercial Efficacy of Ammonium Nitrate Fuel Oil (ANFO) with Low Density Porous prilled Ammonium Nitrate for blasting in overburden of coal mines in collaboration with Deepak Fertilizers & Petrochemicals Corporation Limited, Pune.
  2. Assessment of performance of explosives /Blast results based on explosive energy utilisation in collaboration with NITK, Surathkal.
  3. Investigations of Bolt Behaviour in Development and Depillaring Panels under Blast Induced Dynamic Loading in collaboration with IITK, KGP and SAIL (RDCIS).

## 9.3 MINING ELECTRONICS

CMPDI renders services to subsidiary companies of CIL in preparing Feasibility Reports, Detailed Design Reports and Tender Documents for establishing communication network at various subsidiaries of CIL. It also renders valuable services to subsidiary companies in

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

### **9.3.1 Preparation of Reports/Schemes/NIT**

1. NIT for Ringmain Telecommunication Network of NCL submitted
2. NIT for Environmental Telemonitoring System of Swang Colliery, CCL and Environmental Telemonitoring System for Hirakhand-Bundia U/G MCL.
3. CIL R&D Project on - Indigenous development of Programmable Logic Card (PLC)-based integrated control & monitoring system for conveyors and other equipment of underground mine (Churi Mine, CCL) is under field trial and on the verge of completion.
4. MoC approved S&T Project on – Integrated communication system to communicate and locate trapped underground miners- Phase-I, comprising Through the Earth(TTE) system is installed and under continuous field trial (Central Saunda, CCL).
5. CIL R&D Project on – “Underground Trapped Miner Location System”- Fabrication of Prototype MCD and Integration of application software is in progress for Jhanjhra Mine, ECL.
6. NIT prepared and Technical evaluation completed for High Speed Gigabit LAN for ECL.

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

1. Repairing of HEMM cards -145 nos.
2. Repairing & Calibration of Methanometers – 88 nos.

## **9.4 COAL TECHNOLOGY**

### **A. The following jobs were undertaken during the year under review :**

- i) Technical support to S&T Department for projects under SSRC/CIL R&D Board.
- ii) Technical services to Ministry of Coal / CIL on issues relating to Coal Technology / Utilisation

### **B. Implementation of following R&D / S&T projects are in progress**

Coal S&T job with CIMFR as Principal Implementing Agency

“Development of indigenous catalyst through pilot scale studies of coal to liquid (CTL) conversion technology”

## **9.5 MANAGEMENT SYSTEM CONSULTANCY**

CMPDI had diversified into management system consultancy in 1998. Over the years, it has substantially expanded its capabilities in this field. It now offers the whole gamut of management system consultancy services that cover ISO 9001 Quality Management System (QMS), ISO 14001 Environmental Management System (EMS), OHSAS 18001 Occupational Health and Safety Assurance System, SA8000 Social Accountability Management System,

ISO 27001 Information Security Management System (ISMS), application of other management techniques like Six Sigma, and industry specific translations of ISO 9001, eg, ISO 17025, ISO 16949, etc.

CMPDI provides all such consultancies through the design and implementation of Integrated Management Systems (IMS) conforming simultaneously to different international management-system standards as may be required.

The scope of all such consultancies includes;

1. Creation of management system;
2. Providing training support
3. Initial implementation and certification support; and
4. Post certification support/assessments etc.

#### **9.5.1. Management System Consultancy for CIL and its Subsidiary Companies**

Till 31<sup>st</sup> March 2011, CMPDI has assisted CIL subsidiary companies to achieve a total of 195 ISO 9001, ISO 14001, OHSAS 18001 and SA8000 certifications through its consultancy in various mines, hospitals, workshops, washery, training institute, etc.

#### **9.5.2. Job Completed during 2010-11**

Management System Consultancy worth about Rs. 92.26 lakhs was completed during the year. This resulted into a total 48 management-system certifications – 22 of ISO 9001 (including 10 re-certifications and up-gradations), 23 of ISO 14001 (including 4 re-certifications), 2 of OHSAS 18001 (including 1 company level), and 1 company level SA8000 certification.

First time in mining sector in the World, a coal mining company NCL achieved company-level SA 8000 and OHSAS 18001 certifications under this consultancy during this year to include all its operations and functions without any exception, thus, also becoming the first mining company to have achieved company-level ISO 9001, ISO 14001, OHSAS 18001 and SA8000 certifications that too under an integrated management system.

Capabilities were also enhanced during the year to provide consultancy for ISO 27001 Information Security Management System certifications.

#### **9.5.3. Work in Progress**

Presently, CMPDI is providing Management System Consultancy worth about Rs 12 crores. This is for 143 new certifications under ISO 9001, ISO 14001, OHSAS 18001, and SA8000 in various CIL establishments, which includes all major opencast coal-mining projects, some of the major underground projects, various hospitals and HEMM workshops, and certification of total SECL against SA8000.

### **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 Rs.126.70 lakh have been disposed off.

## 10.2 Inventory Control :

There are 55 nos. of drills deployed at different sites by the Regional Institutes which are in continuous operation. 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 31.03.2011 was valued to Rs.296.79 lakhs, mainly comprising of drill rod, casings, drill bit, core barrel, Tungsten Carbide (TC) bit etc.. The inventory also consists of accessories and consumables for 2 nos. of Hydrostatic Drills added in the fleet during 2010-11. This inventory will be consumed in due course before supply of fresh lots of items.

## 10.3 Procurement related to different Laboratory items:

As per CMPDI's Plan, laboratory for testing cement and resin capsules was to be set-up at CMPDI (HQ.) which was time-bound. Besides, environmental laboratories were to be set-up at Regional institute-IV Nagpur and Regional Institute-V Bilaspur. As these projects were limited by time, procurement of items of these laboratories was of paramount importance for successful setting up of the laboratories within the schedule. Procurement of these items was taken-up on priority and it was ensured through constant follow-up that the materials reached in time to start the laboratories.

## 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 been no instance of any complaint from any of the drilling camp regarding non-fulfillment of their requirement. There was sufficient stock of the items to take care of continuous operation.

- 10.5 A Road Map for complete switchover to e-Procurement was placed before CMPDI Board of Directors. As informed to the Board, CMPDI is well in line with the target for the Year: 2011-12 and it expected that majority of the tenders would be finalized through e-Procurement.

## 11.0 HUMAN RESOURCE DEVELOPMENT

During the year 2010-11, the exposures were given to CMPDI employees in the following major areas:

Major Area	STC	IICM	External	Foreign	Total
Managerial	82	141	-	12	235
Technical/Functional	333	86	129	25	573
Cross Functional	285	125	43	-	453
<b>Total</b>	<b>700</b>	<b>352</b>	<b>172</b>	<b>37</b>	<b>1261</b>

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

## Foreign training

In the year 2010-11 total 37 nos. of executives from CMPDI including CMD & Directors visited abroad for attending high level meetings, conferences and trainings in several parts of the world. Executives in two batches were sent to USA for training on 'Development of CMPDI Capacity for Delineation Of Viable Coal Mine Methane/ Abandoned Mine Methane Blocks'

## 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 172 nos of executives and non executives have attended programmes at different places in India. Nomination is generally made by Head of the Divisions of HQ/ Regional Directors of Regional Institutes and approved by CMD/ Director as per need of the company.

Training of Management Trainee have been emphasized and were sponsored for different Training, Seminar, Workshop etc to the external organization. Some of areas of such external exposures to MT were Basic training on geology, Mines Safety and Legislation, Rock Mechanics Challenge of Deep Underground Mining, Plasma Nitriding, Ground Water Resource Estimation, Analysis of Pumping Test Data, Coal Bed Methane, Recent Advances in Geosciences, Mathematical Modeling of Ground Water System, World PetroCoal Congress, Explosives & Blasting Techniques for Mining and Quarrying, Digital Libraries and Knowledge Organization etc.

Some of the topics on which executives attended the Training, Workshop, Seminar, Conference etc are listed below:

- SA-8000 Introduction and Basic Auditor's Training course
- International Symposium on Emerging Trends in Environment, Health & Safety Management in Mining & Mineral based Industries
- National Seminar on Water Resource Management & Mining Sector in India.
- Short Term Course on Rock Mechanics
- Programme on Managing the Contract Labour
- Workshop on Impacts of R&D on the Indian Mineral industry performance- Identifying new priorities and strategic initiatives
- Workshop on Plasma Nitriding
- Coal Preparation in India-Challenges and Opportunities
- 3rd Indian Mineral Congress & Exhibition
- 63rd Residential training programme for the Chief Liaison officers/Liaison officers for SC/ST/OBC employees, CAOs, AOs, EOs and other officers on Reservation Policy of Govt. of India.
- A Primer on Mineral Geostatistics
- Analysis of pumping Test Data
- Application course on Ground Water Estimation and Management Software (GEMS)
- Asia pacific HRM congress 2010
- Basic Training on Geology
- CHEMCON-2010-Emergence of Biotechnology in process industry a Sustainable Growth & Clean World.
- CMI's 6th Advance Executive CDM Training Program

- Coal summit 2010 - Coal for Economic Growth
- Course on Forest and Environment Clearance of projects
- Eastern India Energy Summit 2010(Theme-Emerging Trends in Capacity Building Through Clean Technologies)
- Emerging Contractual Frauds and their Management
- Environment Impact Assessment - Good Practices.
- Errors & Approximations in Air Pollution Monitoring & Analysis

- Evaluation of Training Course
- Gemcom Asia Pacific User Conference
- Geospatial World forum secretariate
- Green BIZ QUIZ-2009 on Environment Mgmt
- Greentech HR Conference-2010
- Ground Water Management (Regulation & Control)
- ICAI National Conclave,'ICAI Corporate forum 2011
- International Coal Conference-2011
- Integrated workshop on Coal Washing for Thermal Power Plants
- International Conf. on Geophysical Sciences-Energy, Climate Change and evolution
- International Conference on Devices and Communication
- International Conference on Digital Libraries and Knowledge Organization (ICDK 2011)
- International Conference on Indian Coal Preparation Industry.
- International Seminar on Recent Advances in Geosciences
- Mathematical Modeling of Ground Water System
- National Conference on Underground Coal Mining-Challenges and Opportunities
- National Conference on Maintenance strategies for global competitiveness
- National Convention of Company Secretaries
- National Convention of Global Compact Network
- National Seminar on "Challenges in Development of Min. Blocks to meet National Objectives"
- National Seminar on "Coal and Power for Sustainable Development"
- National Seminar on Explosives & Blasting Techniques for Mining Quarrying & Infrastructure Industry
- National Seminar on Fly Ash An opportunity for mining sector
- National Seminar on 'Raw Material Security for the steel industry- Challenges Ahead.
- National Symposium on Environment(NSE-17)
- National Workshop on-"The Board Interview"
- Programme on e-Procurement
- Regional Cost Conference-2011 on "Emerging Economic Development"
- Second International Conference for CSI EAIT 2011
- Seminar on Excellence in Energy & Mineral Sector
- Seminar on Meeting Rock Mechanics Challenge of Deep Underground Mining
- Short course on Mines Safety and legislation
- Short Term Course In Mine Closure Planning and Environmental Management : Remote Sensing & GIS Application
- Standards, Parameters and Testing of Cement and Resin Capsules
- Stress , Goal and Health Management Programme.

- Coal Bed Methane
- Knowledge Management & Business Intelligence
- Test Facilities at CPRI
- Tunneling in Highway, Irrigation & Railway Projects.
- WIPS-21st National Meet
- Workshop for Design of Steel structure
- Workshop on Non Destructive Testing on Winding Engine components and other associated installations.
- Workshop on Trends of Recent Judgments of Supreme Court & High Courts on Labour issues
- Workshop on Tunnelling Techniques-QUO VADIS
- World PetroCoal Congress-2011

### **At IICM**

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

At IICM 352 numbers of executives have been trained in 2010-11.

Some of the topics are listed below:

- Advance Management Programme
- Strategic Management Programme
- Leadership Development Programme
- General Management Programme
- Managerial Awareness Programme for MTs
- Project Appraisal and Risk Management
- Technology Awareness Programme for MTs
- Finance for non-finance executives
- Functional Skill Prog. For Mining Engineering
- Functional Skill Prog. For System (Linux & Networking)
- Functional Programme for Mining & Safety
- Functional Skill Programme for Earth Moving Equipment (Excvn.)
- Functional Skill Programme for Systems(JAVA/JSP)
- Functional Skill Programme for Electrical & Mechanical Engg.
- Fun. Skill Programme for System(Autocad)
- Goods & Service Tax & Direct Tax Code
- Corporate Governance
- Tendering Procedure & Contract Mgmt.
- IT in Mining
- Preparatory Program for retiring executive
- Total Productive Maintenance
- Communication & Presentation skill
- CDM & Climate Change



- HR: A Strategic Management Partner
- Project Management for Coal Companies
- Self Management of Excessive Tension
- GIS/GPS application in Coal Mining
- Discipline & Disciplinary procedure
- Maintenance Management
- National Seminar on "Coal Preparation & New Coal Washing Techniques"
- Right to Information Act:2005
- Land & Revenue
- Continuing Advance Medical Education
- Corporate social responsibility

### **At Staff Training College**

Training of all non executives and CMPDI specific training of executives are being organised at STC. A total of 700 executives and non executives have attended training, workshop etc at STC in 2010-11.

Technology Awareness Programme for all MTs of Environment, Coal Preparation, Geology / Geophysics discipline of CIL were organized at STC, CMPDI. Apart from regular training, special training programme for MTs of CMPDI on AutoCad 2010, GR Preparation(Manual Methods and through Minex Software) etc were also organized as per need of CMPDI.

Major areas of Training/ Workshop were the following:

- AutoCAD 2010
- Arc GIS
- Project Appraisal & Risk Management
- Minex software for PR/GR Preparation (Geology & O/C module)
- Technology Awareness Programme for MTs of CIL – System, CP, ENV, Geology/Geophysics discipline.
- Orientation Programme for newly appointed MT
- Orientation Programme for newly appointed Rigman/Surveyor
- CCT- Technical Exchange Seminar on Coal Preparation Technology
- Hindi Software
- QMS Concept
- HIV/AIDS Awareness – Master trainer/Peer educator
- Hindi Karyashala
- ISO 9001 / 14001 Internal Auditor Course
- Computer Application in Office Work
- Systematic Application of Drilling and use of Drilling Equipments/Accessories
- Use of Atomic Absorption Spectra Photometer
- Advance Training on Blasting Technology

## **Training at CMPDI for students of different Institutions**

As a social responsibility, training of the students of various institutions at different divisions of CMPDI is also organized.

Total students trained at CMPDI in 2010-11 are 100 numbers. The students undergo these Training/Project work for 7 days to 2 months. After completion of training / project, HRD Division is issuing a certificate for successful completion.

The institutions mainly approached for training are:

- Indian Institute of Technology, Kharagpur
- Indian Institute of Technology, Kanpur
- Indian School of Mines, Dhanbad
- BHU, Varanasi
- NIT, Tiruchirapalli
- Birla Institute of Technology, Ranchi
- Ranchi University, Ranchi
- St. Xaviers College, Ranchi
- Chanakya National University, Patna
- Women's College, Ranchi
- XISS, Ranchi
- SRM University, Chennai
- SMIT, Sikkim
- Asian School of Business Management, Bhubaneswar
- Amity University, Noida
- Sathyabama University, Chennai
- Rajasthan College of Engineering, Jaipur
- University of Petroleum and Energy Studies, Dehradun
- Anand Engineering College, Agra
- University Of Calcutta, Kolkata

## **12.0 OUTSIDE CIL CONSULTANCY**

During the period April, 2010 to March, 2011, consultancy services were provided to 29 organizations for 38 jobs. Some of the important clients / organizations to whom services were provided are SAIL-ISP, NTPC, Neyveli Lignite Corporation Ltd., SCCL, MECL, Tata Steel, M/s. Essar Mineral Resources Ltd. (Mahan Coal Company), O/o Commissioner of Customs, Gujarat, UCM Coal Company Limited, JSPL, Adani Mining Pvt. Ltd., CEA, M/s Field Mining and Ispat Limited etc.

Presently, 37 outside consultancy jobs are in hand for 33 organizations like SAIL-ISP, NTPC, Neyveli Lignite Corporation Ltd., MOIL, Baitarni West Coal Co. Ltd, Goa Industrial Development Corporation, Bihar Sponge Iron Ltd., Naini Coal Co. Ltd., PSEB, Ultratech Cement, NALCO and MECL etc.

During the year 2010-11, 63 jobs worth Rs. 13.16 crores from 44 organizations were procured by CMPDI.

### 13.0 MANPOWER AND WELFARE ACTIVITIES

#### Status of Manpower:

Particulars	As on 31st March 2010	As on 31 March 2011
Executive	824	811
Non-Executive:		
Monthly Rated	1333	1361
Daily Rated	999	930
<b>Grand Total</b>	<b>3156</b>	<b>3102</b>

#### Welfare Activities:

1. CMPDI has 2518 nos. of quarters at its Headquarters and Regional Institutes with housing satisfaction of 100%.
2. Adequate supply of drinking water has been made available to the employees of CMPDI.
3. All the employees and their dependents are provided medical facilities through its dispensaries and the hospitals owned by subsidiary companies of CIL. Patients are also referred to renowned institutions as per requirement.
4. All the employees of CMPDIL are getting their salary through Bank.
5. Gratuity is being given to the employees on the day of their superannuation.
6. CMPDI provides financial assistance/ grant of Rs. 1.00 lakh to DAV Public School, Gandhi Nagar, Ranchi.
7. The dependents of employees who represented District/ State/ Nation in the field of sports were awarded prize amounting to Rs. 33,000/- (Rupees thirty three thousand).
8. Cash Award amounting to Rs. 97,600/- (Rupees ninety seven thousand six hundred) 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 2009.
9. Cash Award amounting to Rs. 17,000/- (Rupees seventeen thousand) only was given to wards of the employees, who performed better in sports at District & State level.
10. A Grant of Rs. 60,000/- (Rupees Sixty thousand) only was given to Gondwana Club Rs. 30,000/- each on two occasion.
11. A Grant of Rs. 55,000/- (Rupees fifty five thousand) only was given to Gondwana Club for purchase of 150 Nos. of Plastic Chair.
12. A Grant of Rs. 58,148/- (Rupees fifty eight thousand one hundred forty eight) only was given to Recreation Club for purchase of Carrom Board, TT Board, Musical Instruments & for conducting Annual Function.
13. A Grant of Rs. 5,000/- (Rupees five thousand) only was given to WIPS for celebrating Mahila Divas.

14. A Grant of Rs. 6,000/- (Rupees Six thousand) only was given for celebrating Ambedkar Jayanti.
15. A Lawn Tennis Coaching Camp for the ward of the employees was organised at CMPDI for 15 days.

**CSR Activities:**

1. General Medical Camp was organised at Birsa High School, Hathiagonda, Kanke Road, Ranchi in which 53 students were clinically checked and given free medicine. Medical Check-up was done by Dr. A.K.P. Sinha, Dy. C M O and assisted by Para Medical Staff of CMPDI.
2. Financial assistance of Rs. 15,000/- was provided to Gondwana Primary School, Gondwana Place, Kanke Road, Ranchi for promotion of Sports & Games through Summer Coaching Camp for the student for the period from 10.05.2010 to 16.05.2010.
3. School Fees to 30 poor and meritorious students of Birsa High School, Hathiagonda was provided for the financial year 2009-10.
4. General Medical Camp was organised at Birsa High School, Hathiagonda, Kanke Road, Ranchi in which 101 students were clinically checked and given free medicine. Medical Check-up was done by Dr. A.K.P. Sinha, Dy. C M O and assisted by Para Medical Staff of CMPDI.
5. General Medical Camp was organised at Patragonda village, Kanke Road, Ranchi in which 103 villagers were clinically checked and given free medicine. Medical Check-up was done by Dr. A.K.P. Sinha, Dy. C M O and assisted by Para Medical Staff of CMPDI.
6. Anti-Rabies Vaccination to one of the student of Birsa High School, Hathiagonda was provided.
7. Financial support for Celebration of Independence Day, 2010 to Birsa High School, Hathiagonda.
8. 580 Saplings of fruit bearing tree and other useful trees were distributed among the villagers of Hathiagonda and Patragonda village.
9. Shri Papusona Gandhi of village Damra, Kalipahadi, Asansol, a blind student brilliantly scored in the Madhyamik Examination, 2010-11 have been provided with some electronic devices such as IPOD, Cassette Recorder, Blank Cassettes and Braile Books etc. to enable him to continue his studies. The materials were handed over by Shri B.N. Basu & other member of CSR Committee in the Office Chamber of RD, RI- I, Asansol.
10. Financial support for distribution of prizes on the occasion of Independence Day, 2010 to Birsa High School, Hathiagonda.
11. Financial support for Celebration of Independence Day, 2010 to Gondwana Primary School, Kanke Road, Ranchi.
12. Cycles among the 8 (eight) tribal girls students, attending School about 3 Km. & more were provided on the occasion of Independence Day, 2010.

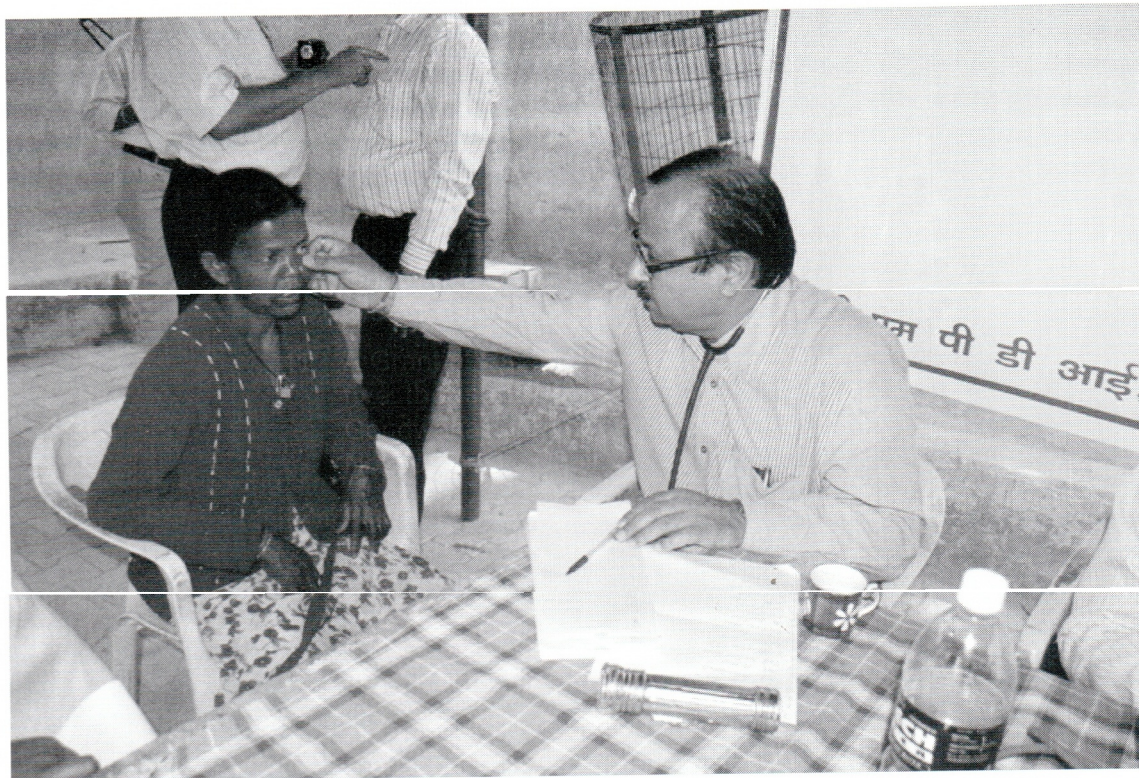
13. The Zakir Hussain Primary School (Government of West Bengal aided) Kumarpur, Asansol have been provided 12 Nos. of wooden low benches & 12 Nos. of wooden high benches. The materials were handed over by Shri Gopal Prasad, G.M (Mining) & Chairman of RI- I CSR Committee.
14. 620 Saplings of fruit bearing tree and other useful trees were distributed among the villagers of Soso village.
15. 700 Saplings of fruit bearing tree and other useful trees were distributed among the villagers of Chandwe village.
16. 600 Saplings of fruit bearing tree and other useful trees were distributed among the villagers of Lower Misirgonda village.
17. General Medical Camp was organised at Lower Misirgonda, Kanke Road, Ranchi in association with Lions Club, Ranchi, in which 146 villagers were clinically checked and given free medicine. Medical Check-up was done by Dr. A.K.P. Sinha, Dy. C M O and assisted by Para Medical Staff of CMPDI.
18. 300 Nos. of old cloth collected from the employees of CMPDI, were distributed amongst the villagers of Lower Mishirgonda village, Ranchi on Dt. 28.09.2010.
19. Stationery amongst the students of KG & Class- I of Birsa High School, Hathiagonda was distributed.
20. One shade in continuation to the existing structure is constructed with flooring in the shade portion and provision of ceiling fans & light points in the shade. Apart from this one hand pump near the shade is also constructed and handed over to Missionaries of Charity at Mangala, Bilaspur.
21. One Tube well with Water Tank and submersible pump were provided at Khamatarai village, Bilaspur.
22. Eye Check-up Camp was organised at Birsa High School, Hathiagonda, Kanke Road, Ranchi in association with Lions Club, Ranchi in which 56 students were checked and given free medicine. Check-up was done by the Doctors of Lions Club, Ranchi. Dr. A.K.P. Sinha, Dy. C M O, CMPDI and his Para Medical Staff were also participated in the Eye Check-up Camp.
23. Sports activities for the student of Birsa High School, Hathiagonda, Kanke Road, Ranchi was conducted in the sports ground of CMPDI. Prizes were distributed by Sri A.N. Sahay, Dir. (T/RD&T) among the winner.
24. Sports material like two sets for cricket, two volley ball with nett & two foot ball were handed over to the Principal, Birsa High School, Hathiagonda, Kanke Road, Ranchi by the JCC/ CSR Committee members.
25. General Medical Camp was organised at Chandwe Village, Kanke Road, Ranchi, in which 60 villagers were clinically checked and given free medicine. Medical Check-up was done by Dr. A.K.P. Sinha, Dy. C M O and assisted by Para Medical Staff of CMPDI.

26. 60 villagers of Chandwe Village, Kanke Road, Ranchi were distributed blanket.
27. 91 villagers of Lower Misirgonda, Kanke Road, Ranchi were distributed blanket.
28. An Inverter and 5 wooden chowki (incl. bedding & blanket) were provided to the Old Age Home for the benefit of the poor Boarders of the Home (all are senior citizens).
29. 25 Blind tribal girl of Braj Kishore Netraheen Vidyalaya were given the following items :-
 

1) Red Terrycot Cloth	- 65 Mtr.
2) White Terrycot Cloth	- 65 Mtr.
3) White Syphone	- 50 Mtr.
4) Printed Shalwar Suit	- 25 Pcs.
5) Shawl	- 25 Pcs.
6) Cardigan	- 25 Pcs.
7) Bed-sheet with pillow cover	- 25 Pcs.
8) Canvas shoes with socks	- 21 Pcs.
30. Blankets were distributed to the poor families having BPL Ration Card of Santhal Para, Kalikapur and Hela (Sweeper) Para, Kumarpur, Asansol by the members of RI- I CSR Committee in presence of the representatives of SPARSHA, a NGO, Asansol.
31. 10 sets of wooden Dest and Benches provided to Mosadi Mohalla Urdu Free Primary School, Railpar, Asansol. The materials were handed over by Shri Gopal Prasad, G M (Mining)/ Chairman including other members of RI- I CSR Committee.
32. 5 Sets of wooden Dest (box type) & Benches and Braile Books were provided to the students of Asansol Braile Academy, a residential blind school (A Unit of Asansol Prevention of Blindness Society). The materials were handed over by Shri Tapas Banerjee, Mayor, Asansol Municipal corporation, Shri Gopal Prasad, G M (Mining)/ Chairman including other members of RI- I CSR Committee.
33. An Awareness Programme regarding HIV/AIDS under HIV/AIDS Awareness Campaign was organised by CMPDI in association with Jharkhand AIDS Control Society. In this Programme Dr. Om Prakash, M.S, Sri A.K. Mishra, Dy. Manager (P/W/CSR) & Nodal Officer (HIV/AIDS) of CMPDI and Sri D. Chakraborty, Consultant, Jharkhand AIDS Control Society explained about precaution, symptoms and prevention. During this Programme over 130 Villagers and employees and their family members including Mukhiya Sri Nirmal Karmali were present.
34. 70 Nos. of wooden Desks & wooden benches were handed over to Principal Smt. Pramila Sharma by Shri R.K. Chopra, Regional Director & CSR Committee Members of CMPDI, RI- VI, Singrauli.
35. An Awareness Programme regarding HIV/AIDS under HIV/AIDS Awareness Campaign was organised by CMPDI in association with Jharkhand AIDS Control Society. In this Programme Dr. A.K.P. Sinha, Dy. CMO, Sri A.K. Mishra, Dy. Manager (P/W/CSR) & Nodal Officer (HIV/AIDS) of CMPDI explained about precaution, symptoms and prevention. During this Programme over 50 Villagers and employees and their family members including Mukhiya Ms. Kalawati Kumari were present.

36. A medical check-up camp for the poor people of the locality was organised on in association with Debasish Ghatak Foundation, a Public Trust, duly registered. Medicines were supplied by RI- I, Asansol.
37. An Awareness Programme regarding HIV/AIDS under HIV/AIDS Awareness Campaign was organised by CMPDI in association with Jharkhand AIDS Control Society. In this Programme Dr. A.K.P. Sinha, Dy. CMO, Sri A.K. Mishra, Dy. Manager (P/W/CSR)/ Nodal Officer (HIV/AIDS) of CMPDI & Sri D. Chakraborty of Jharkhand AIDS Control Society explained about precaution, symptoms and prevention. During this Programme over 50 Villagers and employees and their family members including Ward Member Sri Deepak Gope of Ward No. 22 were also present.
38. General Medical Camp was organised at Birsa High School, Hathiagonda, Kanke Road, Ranchi in which 125 villagers & children were clinically checked and given free medicine. Medical Check-up was done by Dr. A.K.P. Sinha, Dy. C M O and assisted by Para Medical Staff of CMPDI.





**CSR Activities - General Medical Camp for the poor people**



**CSR Activities - Blanket distribution to villagers**



39. 12 Sets of Wooden High & Low Benches provided to Bartoria Free Primary School, Post-Methani, Distt.- Burdwan (W.B). The materials were handed over by Shri J. Banerjee, Shri T.K. Mitra, Shri Partha Mondal, Shri Paresh Mukherjee, Shri Swapan Mukherjee and Shri Jagadamba Singh all members of RI- I CSR Committee.
40. A Passenger Shade has been constructed at Orla Village for the use of villagers of Orla village. The Shade has been inaugurated by Shri V.K. Rai, Regional Director, CMPDI, RI-III, Ranchi on 16.03.2011.
41. In the Primary & Middle School of Basantpur & Parez Village, Distt.- Hazaribagh (JH) Sports materials like four sets of Cricket & four sets of Foot Ball, 80 Water Bottle & 10 Dari were distributed among the students by Shri V.K. Rai, Regional Director, CMPDI, RI-III, Ranchi.
42. One No. Eureka Forbs Heavy Duty Water Cooler-cum-Purifier, one No. Whirlpool Heavy Duty Washing Machine & 20 Nos. of Rexin bound Mattresses were handed over to Chetna Institute of Mentally Handicapped, Bhubaneswar.
43. 75 sets of School Dress (Boys), 103 sets of School Dress (Girls), 20 sets of Desk-bench, 02 nos. of Dari, 01 no. chair & 01 no. Table have been procured by CMPDI, RI- II, Dhanbad in the Financial Year 2010-11 and will be given to Prathmik Vidyalaya Telipara (Boys & Girls), Adivasi Prathmik Vidyalaya, Telipara and Anganbadi Telipara (Boys & Girls).
44. 300 Nos. of Khand Plates for the children of Khamatarai village have been procured in the Financial Year 2010-11 and will be given to Khamatarai village School.
45. 06 Nos. of Sewing Machine, 02 Foot Ball with Nett., 02 Valley Ball with Nett., 02 set Cricket Kit, 01 No. Zero-B Reverse Osmosis System and 68 set of School Dresses have been procured and will be handed over to Jan Kalyan Samiti, Misirgonda, Anu Mahila Samiti, Chandwe, Rajkiye Madhya Vidyalaya, Ashok Nagar and Maheshwari Girls High School, Ashok Nagar respectively.
46. Cheque of Rs. 43,020/- regarding School fees of 39 Nos. of poor and meritorious students of Birsa High School, Hathiagonda, Kanke Road, Ranchi and Cheque of Rs. 11,880/- regarding School fees of 11 Nos. of poor and meritorious students of Gondwana Primary Nursery, Kanke Road, Ranchi have been prepared during the Financial Year 2010-11 and will be handed over to respective Principal.

#### **SPORTS ACTIVITIES:**

1. CMPDI conducted sports tournament like- Inter Regional Institute Carrom, Chess, Bridge, Table Tennis, Volley Ball, Badminton Tournament and Inter Regional Institute Athletic Meet.
2. CMPDI conducted 24<sup>th</sup> Coal India Inter Company Badminton Tournament successfully at CMPDI (HQ), Ranchi.
3. Smt. Pushpa Hussa, Sports Supervisor secured 1<sup>st</sup> position in Javeline Throw and bagged Gold Medal in the Coal India Inter Company Athletic Meet hosted by NCL Singrauli.

4. Smt. Pushpa Hussa, Sports Supervisor secured 1<sup>st</sup> position in Javeline Throw and bagged Gold Medal in All India Public Sector Athletic Meet hosted by ONGC at Ahmedabad.
5. Smt. Pushpa Hussa, Sports Supervisor secured 1<sup>st</sup> position in Javeline Throw and bagged Gold Medal in 32<sup>nd</sup> National Master's Athletic Championship at Chandigarh.
6. Shri D.N. Mahto, Daftary declared the Winner in the 38<sup>th</sup> Annual Golf Championship conducted by Patna Golf Club, Patna with an achievement of had a hole in one hole in hole no. 14, which is a rarest achievement.

#### **14.0 RAJBHASHA**

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

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

Besides, documents under 3 (3) of the Official Language Act, the minutes of the different meetings held at the level of C M D/Directors, the Monthly and Annual Reports of your company also continued to be prepared bilingually. The publication of "Desh Kaal Sampada", a Renowned & National Level House Magazine of your company also continued to enhance the

creative writing in Hindi, which fetched laurel all over the country and was awarded "Saraswat-Samman" by Hindi Sahitya Sammelan, Prayag, Allahabad.

A grand "Akhil Bhartiya Hasya Kavi Sammelan" was organised successfully on 2<sup>nd</sup> November 2010 to propagate Hindi and was praised by the audience. In the month of September, 2010, "Raj Bhasha Pakhwara" was organized as per the directives of Ministry of Coal. In order to promote and make Hindi popular among the employees of the company, several Hindi competitions were organized on this occasion. A large number of employees participated in all the competitions held during the month and the winners were awarded a cash prize of Rs.1500/-, 1300/-, 1200/-, 1100/- and 1000/- and books of equal amount. In addition, two departments and RI's who have done most of their official work in Hindi were awarded Chairman's Winner and Runner Shield respectively.

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

Four quarterly meetings of Official Language Implementation Committee were also organized under the Chairmanship of CMD to review quarterly progress of Official Language in different departments of your company as per the Directive and Annual Programme issued by the Ministry of Home Affairs, Department of Official Language, and New Delhi. In addition, Progress of Hindi is also included as permanent Agenda in Regional Directors' Co-ordination Meeting to improve the use of Hindi in day-to-day Official Work of all Regional Institutes and reviewed regularly. Apart from this, four committees were also constituted to review the progress of Official Language Hindi in different departments of HQ and Regional Institutes. They used to suggest them how to improve the use of Official Language Hindi in day-to-day Official work and Present their reports in the meeting of Head Quarter Official Language Implementation Committee.

#### **15.0 DIRECTOR'S RESPONSIBILITY STATEMENT:**

- 15.1** In the preparation of the annual accounts, the applicable accounting standards had been followed along with proper explanation relating to material departures.
- 15.2** 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.
- 15.3** 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.
- 15.4** 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 2010-11. They were also appointed Tax-Auditors for the year U/S 44 (AB) of the Income-Tax Act, 1961.

**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 Neyveli Lignite Corporation Ltd., SAIL-ISP, IIFCO-Chattisgarh Power Ltd., Central Electricity Authority, Tata Steel, HINDALCO, Mahaguj Colliery Ltd., Director General of Hydrocarbons, DSCL, Reliance Coal Resource Ltd. (M/s Sasan Power Ltd.) OMC etc. for the confidence reposed in us and the patronage extended to us.

**ADDENDUM:**

Particulars of employees required under Section 217(2A) of the Companies Act, 1956 (Nil Report) and Comments of the Comptroller & Auditor General of India under section 619 (4) of the Companies Act, 1956 are attached.

For and on behalf of the Board of Directors

Ranchi  
Date: 26.05.2011

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

## AUDITORS' REPORT

## MANAGEMENTS' REPLY

To  
The Members,  
Central Mine Planning and Design Institute Limited.  
Ranchi, Jharkhand.

- (1) We have audited the attached Balance Sheet of Central Mine Planning and Design Institute Limited as at 31<sup>st</sup> March 2011 and the Profit and Loss Account and the Cash Flow Statement of the Company for the year ended on that date annexed thereto, which we have signed under reference to this report. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audit.
- (2) We conducted our audit in accordance with the auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement. An audit includes examining, on a test basis, evidence supporting the amount and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by the management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion
- (3) As required by the Companies (Auditor's Report) Order, 2003 as amended by The Companies (Auditors Report) (Amendment Order), 2004 issued by the Central Government of India in terms of sub section (4A) of Section 227 of The Companies Act, 1956, we enclose in the Annexure hereto a statement on the matters specified in paragraphs 4 and 5 of the said Order.
- (4) Further to our comments in the Annexure referred to in paragraph 3 above, we report that:-

### A. Comments on accounts :-

- i. *Balances of Sundry Debtors also include TDS deducted by various Parties. Due to non-reconciliation of Sundry Debtors and also in the absence of Balance confirmation from Sundry Debtors, the amount of TDS included in Sundry Debtors is not quantifiable and the extent of realisability of TDS is also not ascertainable.*
- ii. *Buildings cost or WDV includes Rs.1063.45 lacs standing on land belonging to other CIL subsidiaries, which has not been conveyed in favour of the Company. (Note no.1.1.3 of Schedule-15).*
- iii. *As indicated in Note No.4.1.3 in Schedule 15, balances in debtors are yet to be confirmed. Balances in loans and advances and sundry creditors are also not confirmed.*
- iv. *As indicated in Note no.9.1.4 in Schedule 15 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 by the management.*
- v. *Impact of the above comments (i) to (iii) on Profit/Loss or Assets/Liabilities is unascertained. There is no impact of comment (iv) on any of them.*

Reconciliation of Sundry Debtors is under progress.  
TDS is accounted for on receipt of TDS Certificate from the Clients.

No Comments.

Letters have already been issued for confirmation of balance in Debtors ( other than CIL Subsidiaries)  
No Comments.

## AUDITORS' REPORT

**(B) Subject to our comments in paragraph (A) above:**

1. 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.
2. In our opinion, proper books of accounts as required by law have been kept by the Company so far as appears from our examination of those books.
3. The Balance Sheet, Profit and Loss Account and Cash Flow Statement dealt with by this report are in agreement with the books of account;
4. In our opinion, Balance Sheet, Profit and Loss Account and Cash Flow statement dealt with by this report comply with the requirements of the applicable Accounting Standards referred to in sub section (3C) of Section 211 of The Companies Act, 1956. *However, segment wise assets and liabilities have not been disclosed as per AS-17 (Segment Reporting) and also no identification of primary & secondary segments has been done as per AS-17.*
5. As per the records that could be produced before us and on the basis of representation made by the Chairman –cum- Managing Director and the Company secretary we report that the provisions of clause (g) of sub section (1) of Section 274 of The Companies Act, 1956, regarding disqualifications of directors are not applicable to the company.
6. In our opinion, and to the best of our information and according to the explanations given to us, the said accounts with schedules thereto and read with significant accounting policies (Schedule 14) and Notes on accounts (Schedule 15), give the information required by The Companies Act, 1956, in the manner so required and give a true and fair view:
  - a. In the case of the Balance sheet, of the state of affairs of the Company as at 31<sup>st</sup> March, 2011.
  - b. In the case of the Profit and Loss Account, of the Profit of the Company for the year ended on that date.
  - c. In the case of the Cash Flow statement, of the cash flows for the year ended on that date.

**FOR TODI TULSYAN & CO.  
CHARTERED ACCOUNTANTS**

**Sd\-**  
**(CA. SUSHIL KUMAR TULSYAN)**  
**Partner**  
**(Membership No. 075899)**  
**(FRN – 002180C)**

Place : Kolkata  
Dated: 18.05.2011

## ANNEXURE TO THE AUDITORS REPORT

## MANAGEMENT'S REPLY

(REFERRED TO IN PARAGRAPH 3 OF OUR REPORT OF EVEN DATE ON THE ACCOUNTS OF CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2011)

1. In respect 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. *However in case of Assets belonging to S&T Fund, Fixed Asset Register is maintained year wise instead of Asset wise.*

Preparation of Asset wise Fixed Assets Register belonging to S&T Funds is under progress.
  - (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. *Physical Verification of S&T Assets has not been done during the year.*

Necessary action has already been taken for Physical Verification of S&T Assets.
  - (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.
2. In respect 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.
3. In respect of loans, secured or unsecured, granted or taken by the Company to/from companies, firms or other parties covered in the register maintained under Section 301 of The Companies Act, 1956:
  - (a) The Company has not granted any loans, secured or unsecured to companies, firms or other parties covered in the register maintained under section 301 of the Act.

No Comments.
  - (b) In view of our comment in 3(a) above, the clause 3(b) of aforesaid Order is not applicable to this Company.

No Comments.
  - (c) In view of our comment in 3(a) above, the clause 3(c) of aforesaid Order is not applicable to this Company.

## ANNEXURE TO THE AUDITORS REPORT

## MANAGEMENT'S REPLY

(d) In view of our comment in 3(a) above, the clause 3(d) of aforesaid Order is not applicable to this Company.	No Comments.
(e) The Company has not taken loans, secured or unsecured from companies, firms or other parties covered in the register maintained under section 301 of the Act. The Company had taken unsecured loan from its Holding Company, Coal India Limited which was repaid during the year.	No Comments.
(f) In our opinion and according to the information and explanations given to us, the rate of interest and other terms and conditions of the loan taken from its Holding Company, Coal India Limited are, prima facie, not prejudicial to the interest of the Company.	No Comments.
(g) In respect of the loan taken by the Company from Coal India Limited, interest payments are regular and the principal is repayable on demand.	No Comments.
4. In our opinion, there is an adequate internal control system commensurate with the size of the Company and the nature of its business, for the purchase of inventory and fixed assets and for sale of goods and services. During the course of our audit, we have not observed any major weakness in internal control system.	No Comments.
5. In respect of transactions covered under Section 301 of The Companies Act, 1956:-	No Comments.
(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 Rs. Five lakhs at prices which are not reasonable having regard to the prevailing market prices at the relevant time.	No Comments.
6. The Company has not accepted any deposits from the public within the meaning of Section 58A and 58AA or any other relevant provision of the Act.	No Comments.
7. The Company has appointed outside firms of Chartered Accountants for internal audit of Headquarters and Regional institutes, except for Regional Institute II, and VI at Dhanbad, and Singrauli respectively. In our opinion, the Company has an internal audit system commensurate with its size and nature of business. Locational and functional coverage, however, should be increased.	The Internal Audit team from CMPDI, HQ has conducted the audit of Regional Institute-II, Dhanbad & Regional Institute-VI, Singrauli during the financial year 2010-11. Steps have already been taken to conduct Internal Audit in HQ & all the RIs from outside Firms for the F.Y. 2011-12.
8. We have been informed that the Central Government has not prescribed the maintenance of cost records under Section 209(1) (d) of The Companies Act, 1956 for the Company.	No Comments.
9. In respect of statutory dues:	No Comments.
(1) According to the records of the Company, the Company is generally regular in depositing undisputed statutory dues such as provident fund, investor education and protection fund, income tax, sales tax,	



## ANNEXURE TO THE AUDITORS REPORT

wealth tax, service tax, customs duty, excise duty, cess and any other dues with the appropriate authorities. According to the explanations given to us, Employees State Insurance Scheme is not applicable to the Company. According to the information and explanations given to us, no undisputed amounts payable in respect of the aforesaid dues were outstanding as at 31<sup>st</sup> March, 2011 for a period of more than six months from the date they became payable except the following:-

SL	Name of Statute	Nature of dues	Amount(Rs.)
(1)	VAT Act	sales tax	Rs.0.64 lakhs

No Comments.

No Comments.

- (2) The disputed statutory dues aggregating to Rs.276.47 Lacs that have not been deposited on accounts of matters pending before appropriate authorities are as under:

SL	Name of Statute	Nature of Dues	Amount (Rs. in Lakh)	Forum Where Dispute is Pending
1	Service Tax Act	Service Tax	40.24	Service Tax Tribunal Kolkata
2	Sales Tax Act	Entry Tax	16.78	Sales Tax Authority

10. The Company has no accumulated losses as at 31<sup>st</sup> March 2011 and has also not incurred any cash losses from operating activities during the financial year ended on that date and in the immediately preceding financial year.
11. According to the information and explanations given to us, we are of the opinion that the Company has no dues to financial institutions, banks or debenture holders.
12. According to the information and explanations given to us, the Company has not granted any loans or advances on the basis of security by way of pledge of shares, debentures and other securities.
13. The Company is not a Chit Fund, Nidhi or Mutual benefit fund/society. Therefore, clause (xiii) of CARO is not applicable to the Company.
14. In our opinion the Company is not dealing or trading in shares, securities, debentures and other investments,
15. According to the explanations and information given to us, the Company has not given any guarantee for loans taken by others from banks or financial institutions.
16. The Company has not raised any term loans during the year.
17. In our opinion and according to the explanations given to us, the Company has not raised any short term funds and used it for long term purposes or vice versa.
18. During the year, the Company has not made any preferential allotment of shares to parties and companies covered in the register maintained under Section 301 of The Companies Act, 1956.

No Comments.

No Comments.

No Comments.

No Comments.

No Comments.

No Comments.

No Comments.

No Comments.

No Comments.

## **ANNEXURE TO THE AUDITORS REPORT**

19. The Company has not issued any debenture during the year.

No Comments.

20. The Company has not raised any money by public issue during the year.

No Comments.

21. *As per information and explanation received from the management, a cash defalcation of Rs. 2.85 lacs has been reported at Anandvan Camp (RI-IV) which is under recovery process .*

No Comments.

**FOR TODI TULSYAN & CO.  
CHARTERED ACCOUNTANTS**

Sd/-  
**(CA. SUSHIL KUMAR TULSYAN)**  
**Partner**  
**(Membership No. 075899)**  
**(FRN – 002180C)**

Place : Kolkata  
Dated : 18.05.2011

## **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.

## **Annexure-1**

### **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 31<sup>st</sup> March 2011.**

The preparation of financial statements of Central Mine Planning & Design Institute Limited for the year ended 31<sup>st</sup> March 2011 in 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 auditing and assurance standards 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 17<sup>th</sup> May 2011.

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<sup>st</sup> March 2011. This supplementary audit has been carried out independently without access to the working papers of the statutory auditors and is limited primarily to inquiries of the statutory auditors and company personnel and a selective examination of some of the accounting records. On the basis of my audit nothing significant has come to my knowledge which would give rise to any comment upon or supplement to Statutory Auditors' Report under section 619 (4) of the Companies Act, 1956.

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

Sd/

**( S K Jaipuriyar )**

Principal Director of Commercial Audit  
& Ex-officio MAB – II, Kolkata-20

Place: Kolkata  
Date: 18.05.2011

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**  
**BALANCE SHEET AS AT 31ST MARCH, 2011**

	<u>Schedule</u>	<u>As at</u> <u>31st March 2011</u> <u>(Rs. in Lakh)</u>	<u>As at</u> <u>31st March 2010</u> <u>(Rs. in Lakh)</u>
<b><u>SOURCES OF FUNDS</u></b>			
<b>Shareholders' Funds</b>			
Share Capital	A	1904.00	1904.00
Share Money pending allotment	B	0.00	0.00
Reserves & Surplus	C	6850.70	5474.82
<b>Loan Funds</b>			
Secured	D	0.00	0.00
Unsecured	E	0.00	3.66
		<u>8754.70</u>	<u>7382.48</u>
<b><u>APPLICATION OF FUNDS</u></b>			
<b>Fixed Assets</b>			
(including assets held on behalf of Govt. / CIL)			
Gross Block	F	16593.04	15530.68
Less : Depreciation		<u>9398.39</u>	<u>8774.91</u>
Net Block		7194.65	6755.77
<b>Surveyed off Assets</b>		50.55	52.27
<b>Capital Work in Progress</b>	G	513.38	138.66
<b>Investment</b>	H	0.00	0.00
<b>Deferred Tax (Net)</b>		5990.61	5450.62
<b>Current Assets, Loans &amp; Advances:</b>			
Inventories	I	677.33	629.16
Sundry Debtors	J	19046.61	27586.66
Cash & Bank Balances	K	6104.07	6924.33
Loans & Advances	L	11355.75	6913.07
Other Current Asset	M	3856.77	5409.72
Total Current Assets, Loans & Advances		<u>41040.53</u>	<u>47462.94</u>
Less: Current Liabilities & Provisions	N	<u>46035.02</u>	<u>52477.78</u>
Net Current Assets		-4994.49	-5014.84
Intangible Assets	O	0.00	0.00
		<u>8754.70</u>	<u>7382.48</u>
<b>Significant Accounting Policy</b>	14		
<b>Notes on Accounts</b>	15		

The Schedules referred to above form  
an integral part of Accounts  
For and on behalf of Board of Directors Central Mine Planning & Design Institute Limited

Sd/-  
**( P. Lazar )**  
Company Secretary

Sd/-  
**( K. Chandra Mouli )**  
Chief General Manager ( Finance )

Sd/-  
**( N. Khurana )**  
Director

Sd/-  
**( A. K. Singh )**  
Chairman - cum - Managing Director

In terms of our report of even date attached

**For TODI TULSYAN & CO.**

Chartered Accountants

Firm Registration No. : 002180C

Place : Ranchi  
Date : 18.05.2011

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

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2011**

	<u>Schedule</u>	<u>Year ending 31st March 2011 (Rs. in Lakh)</u>	<u>Year ending 31st March 2010 (Rs. in Lakh)</u>
<b>INCOME</b>			
Sale of services	1	42909.19	45352.61
Coal issued for other purpose	2	0.00	0.00
Other income	3	672.67	376.55
Total Income		<u>43581.86</u>	<u>45729.16</u>
<b>EXPENDITURE</b>			
Consumption of Stores & Spares	4	1611.99	1236.61
Employees Remuneration & Benefits	5	26477.77	28698.04
Social Overhead	6	1985.67	1871.89
Power & Fuel	7	207.44	230.19
Repairs	8	599.83	727.23
Contractual Expenses	9	7542.68	7699.88
Miscellaneous Expenses	10	2578.98	2459.43
Total Expenditure		<u>41004.36</u>	<u>42923.27</u>
<b>GROSS OPERATING PROFIT</b>		<b>2577.50</b>	<b>2805.89</b>
Interest	11	2.95	26.42
Depreciation		474.41	383.46
Provisions	12	0.00	175.79
<b>PROFIT FOR THE YEAR</b>		<b>2100.14</b>	<b>2220.22</b>
Prior Period Expenses/ (-)Income	13	-268.76	259.27
<b>NET PROFIT BEFORE TAXATION</b>		<b>2368.90</b>	<b>1960.95</b>
Provision for Taxes			
Income Tax-Current year		1322.33	2103.94
Income Tax-Earlier years		54.63	-196.18
Deferred Tax		-539.99	-1093.19
<b>PROFIT AFTER TAX</b>		<b>1531.93</b>	<b>1146.38</b>
Less: Transferred to General Reserve		<u>0.00</u>	<u>0.00</u>
<b>PROFIT AFTER TRFD. TO GENERAL RESERVE</b>		<b>1531.93</b>	<b>1146.38</b>
Add : Profit upto the previous year		4213.92	3110.21
Less : Provision for retirement Medical Benefit		<u>0.00</u>	<u>42.67</u>
<b>BALANCE CARRIED TO BALANCE SHEET</b>		<u><b>5745.85</b></u>	<u><b>4213.92</b></u>
Significant Accounting Policy	14		
Notes On Accounts	15		

The schedules referred to above form  
an integral part of Accounts  
For and on behalf of Board of Directors Central Mine Planning & Design Institute Limited

**Sd/-**  
**( P. Lazar )**  
Company Secretary

**Sd/-**  
**( K. Chandra Mouli)**  
Chief General Manager (Finance )

**Sd/-**  
**( N. Khurana )**  
Director

**Sd/-**  
**( A. K. Singh )**  
Chairman - cum -  
Managing Director

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

Place : Ranchi  
Date : 18.05.2011

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

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**SCHEDULE - A**

**SHARE CAPITAL**

	<b><u>Current Year</u></b> <b><u>(Rs. in Lakh)</u></b>	<b><u>Previous Year</u></b> <b><u>(Rs. in Lakh)</u></b>
<b><u>Authorized Capital</u></b>		
500000 Equity Shares of Rs 1000/- each	<b>5000.00</b>	5000.00
	<b><u>5000.00</u></b>	<b><u>5000.00</u></b>
<b><u>Issued Subscribed &amp; Paid up</u></b>		
(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 Rs 1,000/- each)	<b>0.08</b>	0.08
85392 Equity Shares of Rs 1,000/- each allotted as fully paid up for consideration received other than cash (Previous Year 85392 Equity Shares of Rs 1,000/- each)	<b>853.92</b>	853.92
105000 Equity Shares of Rs 1000/- each allotted as fully paid for Cash to Holding Company by converting loan in equity	<b>1050.00</b>	1050.00
	<b><u>1904.00</u></b>	<b><u>1904.00</u></b>

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**SCHEDULE - B**

**SHARE MONEY PENDING ALLOTMENT**

<b><u>Current Year</u></b> <b><u>(Rs. in Lakh)</u></b>	<b><u>Previous Year</u></b> <b><u>(Rs. in Lakh)</u></b>
<b><u>NIL</u></b>	<b><u>NIL</u></b>

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**SCHEDULE - C**

<b><u>RESERVE &amp; SURPLUS</u></b>	<b><u>Current Year</u></b> <b><u>(Rs. in Lakh)</u></b>		<b><u>Previous Year</u></b> <b><u>(Rs. in Lakh)</u></b>
<b>A) CAPITAL RESERVE : -</b>			
<b>Grants for purchase of capital equipment</b>			
<b>Energy Coal S&amp;T Grants</b>			
As per last Account	704.49		994.71
Additions during the year	<u>6.93</u>		<u>61.53</u>
	711.42		1056.24
Less : Depreciation written-off during the year	102.25		100.42
Less : Adjustment	<u>0.00</u>	609.17	<u>251.33</u>
			704.49
<b>UNDP Grants</b>			
As per last Account	5.77		5.93
Addition during the Year	<u>0.00</u>		<u>0.00</u>
	5.77		5.93
Less : Depreciation written off	<u>0.80</u>	4.97	<u>0.16</u>
			5.77
<b>CCDA Grants</b>			
As per last Account	14.07		15.61
Addition during the Year	<u>0.00</u>		<u>0.51</u>
	14.07		16.12
Less : Depreciation written off	<u>1.84</u>	12.23	<u>2.05</u>
			14.07
<b>EMSC Grants</b>			
As per last Account	0.47		0.47
Addition during the Year	<u>0.00</u>		<u>0.00</u>
	0.47		0.47
Less : Depreciation written off	<u>0.00</u>	0.47	<u>0.00</u>
			0.47
<b>CIL R&amp;D GRANTS</b>			
As per last Account	219.47		386.83
Addition during the Year	<u>14.52</u>		<u>2.40</u>
	233.99		389.23
Less : Depreciation written off	50.62		58.09
Less : Adjustment / Transfer	<u>0.00</u>	183.37	<u>111.67</u>
			219.47
<b>P.R.E. Grants</b>			
As per last Account	88.26		101.05
Addition during the Year	<u>1.63</u>		<u>10.33</u>
	89.89		111.38
Less : Depreciation written off	<u>23.89</u>	66.00	<u>23.12</u>
			88.26
<b>CMM/CBM CLEARING HOUSE :</b>			
As per last Account	10.83		12.59
Addition during the Year	<u>0.00</u>		<u>0.00</u>
	10.83		12.59
Less : Depreciation written off	<u>-0.27</u>	11.10	<u>1.76</u>
		887.31	1043.36
<b>B) GENERAL RESERVE :</b>	217.54		217.54
<b>C) Balance of Profit transferred from Profit &amp; Loss Account</b>	5745.85		4213.92
<b>Total</b>	<u><u>6850.70</u></u>		<u><u>5474.82</u></u>



**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**SECURED LOAN**

**Current Year**  
**(Rs. in Lakh)**

**Previous Year**  
**(Rs. in Lakh)**

NIL

NIL

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**UNSECURED LOAN**

**Current Year**  
**(Rs. in Lakh)**

**Previous Year**  
**(Rs. in Lakh)**

Due to Coal India Ltd., the Holding Company  
Interest accrued & due

**0.00**  
**0.00**

0.00  
3.66

Total

**0.00**

**3.66**

Schedule to Balance Sheet as at 31st March, 2011  
Fixed Assets

**SCHEDULE - F**

(Rs in lakh)

PARTICULARS	GROSS BLOCK				DEPRECIATION				NET BLOCK	
	Cost as at 01.04.2010	Addition During 2010-11	Adjustment/ Disposal/ Discarded	Cost as at 31.03.2011	Depreciation as at 01.04.2010	Addition During 2010-11	Adjustment/ Disposal/ Discarded	Depreciation as at 31.03.2011	NET BLOCK AS AT 31.03.11	NET BLOCK AS AT 31.03.10
<b>A. Fixed Assets (Excluding S&amp;T,CCDA EMSC,UNDP,PRES,CIL R&amp;D Assets</b>										
<b>Land</b>										
Freehold	114.71	0.00	0.00	114.71	0.00	0.00			114.71	114.71
Leasehold	117.98	100.71	-0.02	218.67	67.63	3.23	0.01	70.87	147.80	50.35
<b>Buildings :</b>	3995.10	22.58	64.97	4082.65	1284.06	72.01	11.19	1367.26	2715.39	2711.04
<b>Plant &amp; Machinery :</b>	5546.12	642.11	-84.04	6104.19	3358.36	349.10	-20.07	3687.39	2416.80	2187.76
<b>F/F &amp; Office Equipmt :</b>	1247.05	90.18	-2.06	1335.17	1011.02	41.77	-7.02	1045.77	289.40	236.03
<b>Vehicle :</b>	969.78	277.92	-73.09	1174.61	556.90	62.59	-68.48	551.01	623.60	412.88
<b>TOTAL (A)</b>	<b>11990.74</b>	<b>1133.50</b>	<b>-94.24</b>	<b>13030.00</b>	<b>6277.97</b>	<b>528.70</b>	<b>-84.37</b>	<b>6722.30</b>	<b>6307.70</b>	<b>5712.77</b>
<b>B. S&amp;T,CCDA,EMSC,UNDP,PRES, CIL R&amp;D,CMM/CBM Ctg House Assets</b>										
<b>Buildings :</b>	31.07	0.00	0.00	31.07	4.20	0.54	-0.58	4.16	26.91	26.87
<b>Plant &amp; Machinery :</b>	3459.34	22.38	-0.42	3481.30	2473.86	176.05	-3.49	2646.42	834.88	985.48
<b>F/F &amp; Office Equipmt :</b>	45.60	0.71	0.43	46.74	15.16	2.54	4.08	21.78	24.96	30.44
<b>Vehicle :</b>	3.93	0.00	0.00	3.93	3.72	0.00	0.01	3.73	0.20	0.21
<b>TOTAL (B)</b>	<b>3539.94</b>	<b>23.09</b>	<b>0.01</b>	<b>3563.04</b>	<b>2496.94</b>	<b>179.13</b>	<b>0.02</b>	<b>2676.09</b>	<b>886.95</b>	<b>1043.00</b>
<b>TOTAL (A+B)</b>	<b>15530.68</b>	<b>1156.59</b>	<b>-94.23</b>	<b>16593.04</b>	<b>8774.91</b>	<b>707.83</b>	<b>-84.35</b>	<b>9398.39</b>	<b>7194.65</b>	<b>6755.77</b>
<b>C.Assets Surveyed off :</b>									<b>50.55</b>	<b>52.27</b>
Previous Year										
i) Fixed Assets (Excluding S&T,CCDA EMSC,UNDP,PRES,CIL R&D Assets	10727.52	1423.07	-159.85	11990.74	6000.07	429.85	-151.95	6277.97	5712.77	4727.45
ii) S&T,CCDA,EMSC,UNDP,PRES, CIL R&D,CMM/CBM Ctg House Assets	3453.12	86.82	0.00	3539.94	2311.34	185.60	0.00	2496.94	1043.00	1141.78
<b>TOTAL (B)</b>	<b>14180.64</b>	<b>1509.89</b>	<b>-159.85</b>	<b>15530.68</b>	<b>8311.41</b>	<b>615.45</b>	<b>-151.95</b>	<b>8774.91</b>	<b>6755.77</b>	<b>5869.23</b>
iii).Assets Surveyed off :									<b>52.27</b>	<b>47.56</b>

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**Schedule to Balance Sheet as at 31st March' 2011**  
**FIXED ASSETS**

**SCHEDULE - F**  
**Annexure - F1**

	(Rs. In Lakh) Year ended <u>31st March'2011</u>	(Rs. In Lakh) Year ended <u>31st March'2010</u>
<b>NOTE 1 :</b>		
<b><u>ALLOCATION OF DEPRECIATION :</u></b>		
1. Profit & Loss Account		
(a) 100% Depn. on Assets costing below Rs. 5000/-	9.20	6.45
(b) Others	465.21	377.01
2. Social Overhead	68.41	58.72
3. Prior Period Adjustment	-14.12	44.04
4. Capital Assets against Grants *	179.13	185.60
<b>TOTAL</b>	<b>707.83</b>	<b>671.82</b>

**\* Depreciation on Assets purchased against Grants :**

Energy Coal S&T	102.25	100.42
UNDP	0.80	0.16
CCDA	1.84	2.05
EMSC	0.00	0.00
CIL R&D	50.62	58.09
PRE(Fixed Assets)	23.89	23.12
CMM/CBM CL.HOUSE ASSET	-0.27	1.76
<b>SUB TOTAL</b>	<b>179.13</b>	<b>185.60</b>

**NOTE 2**

SOCIAL OVERHEAD ASSETS INCLUDED IN THE SCHEDULE EXCLUDING FURNITURE, FITTINGS & OFFICE EQUIPMENTS ARE AS FOLLOWS :

	AS AT <u>31.03.2011</u>	AS AT <u>31.03.2010</u>
(i) Building	2729.92	2619.71
(ii) Vehicles	79.97	89.72
<b>TOTAL</b>	<b>2809.89</b>	<b>2709.43</b>

**NOTE 3 :**

RECONCILIATION OF DISPOSAL OF FIXED ASSETS:

1. Provision for Depreciation	191.13	60.46
2. Bank	42.22	14.50
3. Loss (+) / Profit (-) of Fixed assets	-32.10	-11.29
Disposal of Fixed Assets (Gross Cost)	<b>201.25</b>	<b>63.67</b>

**NOTE 4 :**

RECONCILIATION OF DISCARDED FIXED ASSETS :

	AS AT <u>31.03.2011</u>	AS AT <u>31.03.2010</u>
Gross Cost	1011.89	1045.86
Provn. for Depn.	961.34	993.59
	<b>50.55</b>	<b>52.27</b>

**NOTE 5 :**

RECONCILIATION OF DEPRECIATION FUND :

	Year ended <u>31st March'2011</u>	Year ended <u>31st March'2010</u>
Opening Balance :	8774.91	8311.41
Add : Depreciation provided during the year	707.83	615.45
	<b>9482.74</b>	<b>8926.86</b>
Less : Net Outflow of Fund :		
for Surveyed/Written off and disposed Assets	84.35	151.95
Less : Outflow Fund -	0.00	0.00
Inter Company	0.00	0.00
Others	0.00	0.00
Closing balance	<b>9398.39</b>	<b>8774.91</b>

Schedule to Balance Sheet as at 31st March, 2011  
CAPITAL WORK IN PROGRESS

SCHEDULE - G  
(Rs in lakh)

PARTICULARS	GROSS BLOCK				DEPRECIATION				NET BLOCK	
	Cost as at 01.04.2010	Addition During 2010-11	Adjustment/ Disposal Discarded	Cost as at 31.03.2011	Depreciation as at 01.04.2010	Addition During 2010-11	Adjustment/ Disposal/ Discarded	Depreciation as at 31.03.2011	NET BLOCK AS AT 31.03.2011	NET BLOCK AS AT 31.03.2010
<b>A. Capital WIP (Excluding S&amp;T,CCDA EMSC,UNDP,PRES,CIL R&amp;D Assets)</b>										
<b>Buildings :</b>	65.87	145.39	-65.31	<b>145.95</b>	11.42	0.00	-11.42	<b>0.00</b>	<b>145.95</b>	54.45
<b>Plant &amp; Machinery &amp; Capital items in stores</b>	139.81	361.23	-133.73	<b>367.30</b>	55.73	0.00	-55.73	<b>0.00</b>	<b>367.31</b>	84.08
<b>TOTAL (A)</b>	<b>205.68</b>	<b>506.62</b>	<b>-199.04</b>	<b>513.25</b>	<b>67.15</b>	<b>0.00</b>	<b>-67.15</b>	<b>0.00</b>	<b>513.26</b>	138.53
<b>B. Capital WIP (For S&amp;T)</b>										
<b>Plant &amp; Machinery &amp; Capital items in stores</b>	2.72	0.00	0.00	<b>2.72</b>	2.59	0.00	0.00	<b>2.59</b>	<b>0.13</b>	0.13
<b>(For R&amp;D)</b>										
<b>Coal Tailing Treatment Plant</b>	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	0.00	<b>0.00</b>	<b>0.00</b>	0.00
<b>(For P R E)</b>										
<b>Plant &amp; Machinery &amp; Capital items in stores</b>	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	0.00	<b>0.00</b>	<b>0.00</b>	0.00
<b>TOTAL (B)</b>	<b>2.72</b>	<b>0.00</b>	<b>0.00</b>	<b>2.72</b>	<b>2.59</b>	<b>0.00</b>	<b>0.00</b>	<b>2.59</b>	<b>0.13</b>	0.13
<b>TOTAL (A+B)</b>	<b>208.40</b>	<b>506.62</b>	<b>-199.04</b>	<b>515.97</b>	<b>69.74</b>	<b>0.00</b>	<b>-67.15</b>	<b>2.59</b>	<b>513.38</b>	138.66

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**SCHEDULE - H**

**INVESTMENT (AT COST)**

	<b><u>Current Year (Rs. in Lakh)</u></b>	<b><u>Previous Year (Rs. in Lakh)</u></b>
Investment at Cost	<b><u>Nil</u></b>	<b><u>Nil</u></b>

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**SCHEDULE - I**

**INVENTORIES**

(As valued and certified by the Management)

	<b><u>Current Year (Rs. in Lakh)</u></b>	<b><u>Previous Year (Rs. in Lakh)</u></b>
Stock of Stores & Spare Parts at weighted average co	<b>650.74</b>	593.10
Less : Provision for slow moving/non-moving/ obsolescence	<b><u>55.74</u></b>	<u>70.79</u>
	<b>595.00</b>	522.31
Other stores at purchase price	<b><u>52.00</u></b>	52.05
Add : In Transit/Under Inspection	<b>30.33</b>	54.80
Total	<b><u><u>677.33</u></u></b>	<b><u><u>629.16</u></u></b>

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**SCHEDULE - J**

**SUNDRY DEBTORS**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Debts outstanding for a period		
Exceeding Six months	<b>6853.52</b>	4249.50
Others	<b>12491.68</b>	23886.19
Total	<b>19345.20</b>	28135.69
Less : Provisions for doubtful debts	<b>298.59</b>	549.03
Balance	<b>19046.61</b>	27586.66
Classification :		
Unsecured & Considered good	<b>19046.61</b>	27586.66
Unsecured & Considered doubtful	<b>298.59</b>	549.03
	<b>19345.20</b>	28135.69

**Due from the Companies under the same management :**  
(Unsecured and considered good)

Eastern Coalfields Limited	<b>770.99</b>	2344.77
Bharat Coking coal Limited	<b>1652.64</b>	2688.65
Central Coalfields Limited	<b>2777.63</b>	2864.52
Western Coalfields Limited	<b>1443.10</b>	2562.28
South Eastern Coalfields Limited	<b>2575.00</b>	4621.41
Northern Coalfields Limited	<b>1848.16</b>	2594.40
Mahanadi Coalfields Ltd.	<b>1168.45</b>	3333.96
North East Coalfields	<b>373.79</b>	734.45
Kakri CHP (NCL)	<b>14.08</b>	14.08
Dankuni Coal Complex (CIL)	<b>1.87</b>	1.87
Bharatpur CHP (MCL)	<b>0.73</b>	0.73
C. I. L., Kolkata	<b>1841.72</b>	1139.52
Indian Institute of Coal Management	<b>0.00</b>	0.00
MJSJ Coal Co. Ltd	<b>5.31</b>	0.00
Total	<b>14473.47</b>	22900.64

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**SCHEDULE - K**

**CASH & BANK BALANCE**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Cash, Cheques, Drafts & Stamps in-hand	<b>40.97</b>	41.65
Remittance in-transit	<b>0.04</b>	52.30
Balance with Scheduled Bank :		
In Current Account *	<b>5941.23</b>	6660.63
In Deposit Accounts **	<b>121.83</b>	169.75
Total	<b>6104.07</b>	6924.33

\* Includes Rs 1960.26 lakh ( Previous year Rs 388.64 lakh )  
being Govt. Grants pending disbursement

\*\* Rs 10.57 lakh encumbered for issue of Bank Guarantee  
( Previous year Rs. 10.57 lakh )

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**SCHEDULE - L**

**LOANS & ADVANCES**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
<u>Advance recoverable in Cash or for value to be received :</u>		
Advances to Suppliers		
for Capital Works	115.67	229.53
for Other Stores	61.56	52.58
Advances to Employees:		
for House Building	38.59	55.01
for Motor Car & Other Conveyances	0.13	0.25
for Others	89.94	132.03
Current Account Balances with Holding co. & its Subsidiaries (Coal India Ltd., Holding Co.)	2208.13	0.00
Subsidiaries Suspense Account	10.96	0.00
Deposits for P&T, Electricity, Gas etc.	56.37	49.14
Advance payment of statutory Dues		
Income-tax	8756.34	6381.63
Sales Tax	9.42	9.42
Wealth tax	0.18	0.00
Pre paid Expenditure	17.04	13.99
Advances to Other Government Agencies	4.87	4.87
Total	<u>11369.20</u>	<u>6928.45</u>
Less : Provisions	<u>13.45</u>	<u>15.38</u>
Balance	<u><u>11355.75</u></u>	<u><u>6913.07</u></u>

Notes :

i) Secured & Considered good	38.72	55.26
Unsecured & Considered good	11317.03	6857.81
Unsecured & Considered doubtful	13.45	15.38
Total	<u>11369.20</u>	<u>6928.45</u>
ii) Amount due from an Officer of the Company Rs. Nil ( Prev. year nil ). Maximum balance due at any time during the year Rs 0.28 lakh (Prev. year 0.77 Lakh)		
iii) Amount due from directors of the Company Rs. 10.23 lakh ( Prev. year Rs 4.65 lakh ). Maximum amount due at any time during the year Rs 11.22 Lakh ( Prev. Year Rs 9.35 Lakh )		

Company Secretary has been considered to be an officer of the company  
for the above disclosure.

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**SCHEDULE - M**

**OTHER CURRENT ASSETS**

	<b><u>Current Year</u></b> <b><u>(Rs. in Lakh)</u></b>	<b><u>Previous Year</u></b> <b><u>(Rs. in Lakh)</u></b>
Claims Receivables :		
i) Railway	-	-
ii) Insurance	-	-
iii) Others	<b>16.78</b>	50.15
Other Receivables		
i) Employees	<b>284.47</b>	316.06
ii) Others	<b>3555.52</b>	5043.51
Total	<b><u>3856.77</u></b>	<b><u>5409.72</u></b>



**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**SCHEDULE - N**

**CURRENT LIABILITIES & PROVISIONS**

	<b><u>Current Year</u></b> <b><u>(Rs. in Lakh)</u></b>	<b><u>Previous Year</u></b> <b><u>(Rs. in Lakh)</u></b>
Creditors for goods :		
Capital	323.64	131.05
Revenue	63.85	103.54
Sundry Creditors for contractual expenses		
Capital	272.04	369.17
Revenue	2231.14	2417.75
Liability against Coal Block	0.00	1465.80
Sundry Creditors for other expenses		
Power & Fuels	65.91	77.77
Others	823.32	1059.22
Employee Remuneration & Benefits :-		
Salaries, Wages & Allowances (gross)	2147.92	7782.49
Gratuity	10400.71	10154.27
Attendance Bonus	47.82	66.01
Exgratia	8836.35	5747.59
Unpaid Salaries/Wages	145.15	141.25
Leave encashment	6048.47	5328.83
Statutory Dues :		
Income Tax deducted at source :		
from Employees	29.57	49.86
from Contractors	2.81	2.12
Service Tax	2058.55	2535.40
Advances & Deposits :		
from Customers	1135.92	722.87
from Ministry of Coal (Annex. N - 4)	269.72	0.00
from Contractors & others	402.52	729.98
Government Grants pending disbursement		
Energy Coal (S&T) Grants (Annex N -1)	24.79	20.55
Other grants (Annex N - 2)	1016.71	68.23
CIL R&D Fund (Annex N-3)	658.63	299.86
Ministry of Steel sponsored R&D Funds	7.00	0.00
Current Account Balances with Holding co. & its Subsidiaries (Coal India Ltd., Holding Co.)	0.00	5025.33
Subsidiaries Suspense Account	0.00	758.48
Current Account with N.E.C.	0.00	52.96
Other Liabilities :		
Retirement Pension Fund dues	35.13	39.59
Provident Fund dues	50.40	62.56
Cooperatives/Benevolent Fund/Recreation Club	24.42	26.01
Provisions :		
Provision for Taxation - Income Tax	5909.06	5179.96
Provision for Fringe Benefit Tax	108.28	193.77
Provision for Taxation - Wealth Tax	0.36	0.18
Non-refundable fees against Medical Scheme - for retired Executives	210.81	113.72
CMPF Pension Funds	800.37	527.60
Superannuation Funds	1824.79	1202.86
Corporate Social Responsibility (C.S.R.) Funds	37.71	0.00
Provision for loss of Asset	21.15	21.15
Total	<b><u>46035.02</u></b>	<b><u>52477.78</u></b>

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**ENERGY COAL S&T GRANTS**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Opening Balance	20.55	59.77
Amount received from Ministry of Energy-Coal (S&T) Grant	1000.00	1100.00
Refund from Implementing Agencies	2.41	22.87
Interest on Deposits	8.30	1.13
Total Receipt	<u>1031.26</u>	<u>1183.77</u>
<u>Disbursement to various Implementing Agencies :</u>		
Anna University, Chennai	4.00	5.00
Annamalai University Madras	0.00	25.00
Benaras Hindu University	3.00	16.00
Central Instt of Mining & Fuel Research (CIMFR, Dhanbad)	205.00	430.00
Coal Bed Methane	0.00	150.00
Humboldt Bedag	0.00	18.53
IISC, Banagalore	0.00	5.00
IIT, Kharagpur	40.00	70.00
Indian School of Mines University (ISMU, Dhanbad )	74.00	25.00
Jadavpur University	0.00	15.00
Mepco College of Engg	0.00	4.00
National Institute of Rock Mechanics	0.00	18.78
Nayveli Lignite Corporation	0.00	4.50
NEIST Jorhat	25.00	20.00
SAIL R&D Organisation	0.00	70.00
T.M., Bhagalpur University	0.96	5.00
Tamil Nadu Agriculture University	1.00	15.00
Vector Control Research Centre, Pondichery	10.00	0.00
WCL	25.31	0.00
Central Mine Planning & Design Institute Limited	<u>618.20</u>	<u>266.41</u>
Total Disbursement	<u>1006.47</u>	<u>1163.22</u>
Closing Balance	<u>24.79</u>	<u>20.55</u>

**SCHEDULE - N  
Annexure N-1**

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2011**

Schedule - N

Annexure - N.2

**OTHER GRANTS**

Rs. in Lakhs

Name of Government Grants		Opening Balance	Addition during the year	Interest on deposits	Funds receivable from M. O. C.	Total	Disbursed during the year	Balance as on 31/03/11
Mining Electronic Grants								
	<b>Curr. Year</b>	<b>0.52</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.52</b>	<b>0.00</b>	<b>0.52</b>
	Prev. Year	0.52	0.00	0.00	0.00	0.52	0.00	0.52
Promotional Regional Exploration Grants (Annex. N.2.1)								
	<b>Curr. Year</b>	<b>0.00</b>	<b>6800.00</b>	<b>20.25</b>	<b>0.00</b>	<b>6820.25</b>	<b>5910.33</b>	<b>909.92</b>
	Prev. Year	178.76	3039.00	5.20	1488.68	4711.64	4711.64	0.00
Environmental Measures Subsidence Control and Rehabilitation Control of Fire & Subsidence ( RCFS ) ( Annex. N.2.2)								
	<b>Curr. Year</b>	<b>0.24</b>	<b>0.00</b>	<b>0.03</b>	<b>0.00</b>	<b>0.27</b>	<b>0.00</b>	<b>0.27</b>
	Prev. Year	6.61	0.00	0.00	0.00	6.61	6.37	0.24
Testing Laboratory Grants								
	<b>Curr. Year</b>	<b>28.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>28.00</b>	<b>0.00</b>	<b>28.00</b>
	Prev. Year	28.00	0.00	0.00	0.00	28.00	0.00	28.00
United Nations Development - Programme Grants								
	<b>Curr. Year</b>	<b>26.82</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>26.82</b>	<b>0.00</b>	<b>26.82</b>
	Prev. Year	26.82	0.00	0.00	0.00	26.82	0.00	26.82
Coal Conservation Development - Advisory Grants								
	<b>Curr. Year</b>	<b>12.65</b>	<b>36.74</b>	<b>1.79</b>	<b>0.00</b>	<b>51.18</b>	<b>0.00</b>	<b>51.18</b>
	Prev. Year	13.08	1080.00	0.08	0.00	1093.16	1080.51	12.65
<b>Total</b>								
	<b>Curr. Year</b>	<b>68.23</b>	<b>6836.74</b>	<b>0.00</b>	<b>0.00</b>	<b>6927.04</b>	<b>5910.33</b>	<b>1016.71</b>
	Prev. Year	253.79	4119.00	0.00	0.00	5866.75	5798.52	68.23

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**Promotional Regional Exploration Grants**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Opening Balance	<b>0.00</b>	178.76
Amount received from Ministry of Coal	<b>6800.00</b>	3039.00
Interest received from Bank	<b>20.25</b>	5.20
Funds Receivable from Ministry of Coal	<b>0.00</b>	1488.68
Total Receipt	<b>6820.25</b>	4711.64
<u>Disbursement to various Implementing Agencies :</u>		
Reimbursement to CIL for funds drawn in 2009-10	<b>1488.68</b>	0.00
Central Mine Planning & Design Institute Limited	<b>521.24</b>	573.64
Central Instt. Of Mining & Fuel Research (CIMFR)	<b>31.26</b>	24.38
Geological Survey of India	<b>818.19</b>	915.24
Govt. of Nagaland	<b>12.24</b>	0.00
Mineral Exploration Corporation Limited	<b>2736.75</b>	2447.38
Neyveli Lignite Corporation Limited	<b>233.44</b>	17.49
National Geophysical Research Instt. (NGRI)	<b>0.00</b>	639.08
The Singreni Collieries Co. Ltd. (SCCL)	<b>68.53</b>	94.43
Total Disbursement	<b>5910.33</b>	4711.64
Closing Balance	<b>909.92</b>	0.00

**SCHEDULE - N  
Annexure N-2.1**

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**Environmental Measures Subsidence Control &  
Rehabilitation Control of Fire & Subsidence ( RCFS) Grants**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Opening Balance	<b>0.24</b>	6.61
Receipts from Ministry OF Coal	<b>0.03</b>	0.00
Total Receipt	<b>0.27</b>	6.61
<u>Disbursement to various Implementing Agencies :</u>		
Central Mine Planning & Design Institute Limited	<b>0.00</b>	6.37
Total Disbursement	<b>0.00</b>	6.37
Closing Balance	<b>0.27</b>	0.24

**SCHEDULE - N  
Annexure N-2.2**

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**SCHEDULE - N  
Annexure N-3**

**C I L R & D FUND**

	<b><u>Current Year</u></b> <b><u>(Rs. in Lakh)</u></b>	<b><u>Previous Year</u></b> <b><u>(Rs. in Lakh)</u></b>
Opening Balance	<b>299.86</b>	2896.12
Amount received during the year from Coal India Ltd.	<b>3129.15</b>	2552.00
Interest on Deposits	<b>0.00</b>	2.28
Refunds	<b>232.06</b>	0.00
Total Receipt	<b><u>3661.07</u></b>	<u>5450.40</u>
<u>Disbursement to Implementing Agencies during the year :</u>		
B. I. T. , Mesra	<b>6.00</b>	40.00
Central Coalfields Ltd.		
CIMFR, Dhanbad	<b>150.00</b>	2100.00
Eastern Coalfields Ltd (ECL)		
IIT, Kharagpur	<b>299.55</b>	
Indian School of Mines	<b>10.00</b>	
National Remote Sensing Agency		235.00
NIT Surathcole	<b>90.00</b>	0.00
Presidency College, Kolkata		5.00
SMRSDE, Kolkata	<b>2.60</b>	0.00
Systems Deptt, CIL		0.41
South Eastern Coalfields Ltd (SECL)	<b>1750.69</b>	0.00
Central Mine Planning & Design Institute Limited	<b>693.60</b>	2770.13
Total Disbursements	<b><u>3002.44</u></b>	<u>5150.54</u>
Closing Balance	<b><u>658.63</u></b>	<u>299.86</u>

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2011**

**Grants for Detailed Drilling Work in Non-CIL Blocks**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Opening Balance	<b>0.00</b>	887.53
Amount received from Ministry of Coal	<b>11000.00</b>	6000.00
Interest received from Bank	<b>25.29</b>	2.49
Funds receivable from Ministry of Coal	<b>-</b>	3550.57
Total Receipt	<b>11025.29</b>	10440.59
 <u>Disbursement to various Implementing Agencies :</u>		
Central Mine Planning & Design Institute Limited	<b>10755.57</b>	10440.59
Total Disbursements	<b>10755.57</b>	10440.59
Closing Balance	<b>269.72</b>	0.00

**SCHEDULE - N  
Annexure N- 4**

Schedule to Balance Sheet as at 31st March, 2011  
Intangible Assets

SCHEDULE - O  
(Rs in lakh)

PARTICULARS	GROSS BLOCK				AMORTISATION				NET BLOCK	
	Cost as at 01.04.2010	Addition During 2010-11	Adjustment/ Disposal/ Discarded	Cost as at 31.03.2011	Amortisation as at 01.04.2010	Addition During 2010-11	Adjustment/ Disposal/ Discarded	Amortisation as at 31.03.2011	NET BLOCK AS AT 2010-11	NET BLOCK AS AT 2009-10
<b>A.Software : CMPDIL</b>	222.79	5.19	0.01	<b>227.99</b>	222.79	5.19	0.01	<b>227.99</b>	<b>0.00</b>	<b>0.00</b>
<b>B.Software : PRE</b>	134.15	0.00	0.00	<b>134.15</b>	134.15	0.00	0.00	<b>134.15</b>	<b>0.00</b>	<b>0.00</b>
<b>C.Software - S&amp;T,CCDA,R&amp;D</b>	43.27	0.00	0.00	<b>43.27</b>	43.27	0.00	0.00	<b>43.27</b>	<b>0.00</b>	<b>0.00</b>
<b>TOTAL</b>	<b>400.21</b>	<b>5.19</b>	<b>0.01</b>	<b>405.41</b>	<b>400.21</b>	<b>5.19</b>	<b>0.01</b>	<b>405.41</b>	<b>0.00</b>	<b>0.00</b>

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2011**

**SCHEDULE -1**

**SALE OF SERVICE**

	Year ended 31st March, 2011 (Rs. in Lakh)	Year ended 31st March, 2010 (Rs. in Lakh)
Exploration	24006.42	24865.14
Planning & Design	16686.34	18638.34
Natural Resource Management	2216.43	1849.13
Total Sales	<u>42909.19</u>	<u>45352.61</u>

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2011**

**SCHEDULE -2**

**COAL ISSUED FOR OTHER PURPOSE**

Year ended 31st March, 2011 (Rs. in Lakh)	Year ended 31st March, 2010 (Rs. in Lakh)
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**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2011**

**SCHEDULE -3**

**OTHER INCOME**

	Year ended 31st March, 2011 (Rs. in Lakh)	Year ended 31st March, 2010 (Rs. in Lakh)
Interest received		
on Loan to Employees	4.21	7.61
on Bank Deposit	8.53	8.64
Others	115.20	0.00
others	0.00	6.49
Rent received from outsiders	23.48	14.64
Tender fees	19.31	13.08
Liquidated Damage	55.87	119.42
Rent Vehicles	0.14	0.14
Excess Provision Written Back	290.01	143.03
Others	54.32	33.39
Sale of Scrap	69.50	18.81
Profit on sale of asset	32.10	11.30
Total	<u>672.67</u>	<u>376.55</u>



**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2011**

**SCHEDULE -4**

**CONSUMPTION OF STORES**

	Year ended 31st March, 2011 (Rs. in Lakh)	Year ended 31st March, 2010 (Rs. in Lakh)
POL	504.97	411.63
Stores & spares	1030.58	769.31
Other stores & consumable	76.44	55.67
Total	<u>1611.99</u>	<u>1236.61</u>

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2011**

**SCHEDULE -5**

**EMPLOYEES REMUNERATION AND BENEFITS**

	Year ended 31st March, 2011 (Rs. in Lakh)	Year ended 31st March, 2010 (Rs. in Lakh)
Salaries & Wages	13746.53	12916.35
Overtime	134.49	126.54
Incentives	307.19	372.46
Leave encashments	1560.59	1522.54
Other allowances	2713.64	2368.66
Contribution to PF( Annex. 1)	1948.66	1575.69
Attendance Bonus	392.02	388.95
Exgratia / P. R. P.		
a) Non - Executives	444.56	231.61
b) Executives	2977.00	5515.00
LTC/LLTC	435.80	243.01
Pension	281.24	538.00
Superannuation Benefits	621.93	1202.86
Gratuity	1385.87	2050.78
Workmen Compensation	0.21	0.41
D.L.I.	2.85	13.38
Life Cover Scheme	5.69	12.18
V R S	0.00	1.53
Total	<u>26958.27</u>	<u>29079.95</u>
Less : Transferred to Social Overhead (Sch - 6 )	480.50	381.91
Balance	<u>26477.77</u>	<u>28698.04</u>

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2011**

**SCHEDULE - 5**

**CONTRIBUTION TO PROVIDENT FUNDS**

**ANNEXURE - 1**

	Year ended 31st March, 2011 (Rs. in Lakh)	Year ended 31st March, 2010 (Rs. in Lakh)
Coal Mines Provident Fund	1791.63	1449.44
Coal Mines Family Pension Fund	157.03	126.21
Other Provident Funds	0.00	0.04
Total	1948.66	1575.69

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2011**

**SCHEDULE - 6**

**SOCIAL OVERHEAD**

	Year ended 31st March, 2011 (Rs. in Lakh)	Year ended 31st March, 2010 (Rs. in Lakh)
Salary Wages Allowances (From Schedule - 5)	480.50	381.91
Free issue of Coal to Employees	68.07	57.10
Medical Facilities		
Medical Reimbursement	422.15	325.10
Medicines & Hospital Expenses	52.28	153.10
Grant to :		
a) Schools	0.33	0.06
b) Sports & Recreations	26.72	22.57
Canteen upkeep	12.60	10.48
Power (from Schedule - 7)	175.48	167.27
Repairs & Maintenance (Transferred from Sch. 8)		
a) Township	280.09	389.50
b) Other Welfare Buildings	90.57	115.31
c) Others (Maintenance of School Bus/Ambulance)	26.83	12.90
Training Expenses		
a) Within Co.	49.77	39.43
b) Outside Co.	14.83	51.16
Depreciation on Social Overhead Assets (Ref : Sch-F/F1)	68.41	58.72
Provision for Expenses on C. S. R.	57.32	9.18
Uniforms / Stitching Charges	15.25	11.33
Provision for Medical expenses to retired employees	132.68	58.17
Other Benefits	107.17	63.11
Sub Total (A)	2081.05	1926.40
<u>Less : Recoveries</u>		
House Rent	31.36	10.33
Electricity	63.00	43.08
School bus Charges	1.02	1.10
Sub Total (B)	95.38	54.51
Total (A - B)	1985.67	1871.89

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2011**

**SCHEDULE - 7**

**POWER AND FUEL**

	<b>Year ended 31st March, 2011 (Rs. in Lakh)</b>	<b>Year ended 31st March, 2010 (Rs. in Lakh)</b>
Purchased	<b>382.92</b>	397.46
Less : Transferred to Social Overhead Sch-6	<b>175.48</b>	167.27
Total	<b><u>207.44</u></b>	<b><u>230.19</u></b>

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2011**

**SCHEDULE - 8**

**REPAIRS**

	<b>Year ended 31st March, 2011 (Rs. in Lakh)</b>	<b>Year ended 31st March, 2010 (Rs. in Lakh)</b>
Office Building	<b>389.92</b>	554.34
Repair & Maintenance Township/Residential Building	<b>370.66</b>	504.81
Plant & Machinery	<b>142.57</b>	90.58
Office Equipment & Furniture	<b>50.83</b>	62.80
Vehicles ( Other than School Bus / Ambulance)	<b>37.78</b>	51.47
Repair & Maintenance School Bus/Ambulance	<b>26.83</b>	12.90
Others	<b>3.36</b>	2.27
Sub Total (A)	<b><u>1021.95</u></b>	<u>1279.17</u>
Less : Transferred to Social Overhead Sch-6	<b>397.49</b>	517.71
Less : Transferred to Misc. Expenses Sch-10	<b>24.63</b>	34.23
Sub Total (B)	<b><u>422.12</u></b>	<u>551.94</u>
Total (A - B)	<b><u>599.83</u></b>	<b><u>727.23</u></b>

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2011**

**SCHEDULE - 9**

**CONTRACTUAL EXPENSES**

	<b>Year ended 31st March, 2011 (Rs. in Lakh)</b>	<b>Year ended 31st March, 2010 (Rs. in Lakh)</b>
Contractual Works		
Drilling - MECL	<b>3083.49</b>	3444.65
Drilling - Others	<b>4019.48</b>	3949.74
Coal testing	<b>339.16</b>	162.41
Remote Sensing etc.	<b>100.55</b>	143.08
Total	<b><u>7542.68</u></b>	<b><u>7699.88</u></b>

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2011**

**SCHEDULE -10**

**MISCELLANEOUS EXPENSES**

	<b>Year ended 31st March, 2011 (Rs. in Lakh)</b>	<b>Year ended 31st March, 2010 (Rs. in Lakh)</b>
Traveling		
In country	<b>904.06</b>	808.18
Outside country	<b>95.70</b>	64.32
Printing & Stationery	<b>132.69</b>	115.45
Postage	<b>5.21</b>	5.05
Telephone	<b>57.07</b>	66.37
Advertisement & Publicity		
i) Tender	<b>70.51</b>	57.84
ii) Recruitment / Others	<b>0.03</b>	0.15
iii) Publicity	<b>1.29</b>	0.54
Freight Charges	<b>0.73</b>	0.01
Subscriptions	<b>7.86</b>	7.44
Security Expenses	<b>410.37</b>	345.49
Hire Charges		
a) Computer	<b>2.15</b>	0.68
b) Others	<b>182.10</b>	164.36
Maintenance of Cars & Jeeps :		
i) Petrol & Diesels	<b>56.29</b>	44.24
ii) Repairs (From Schedule 8)	<b>24.63</b>	34.23
iv) Road Tax	<b>20.52</b>	20.00
v) Insurance	<b>11.83</b>	9.47
Legal Expenses	<b>40.86</b>	23.56
Bank Charges	<b>8.58</b>	11.14
Consultancy Charges (CIL subsidiaries & Other jobs)	<b>132.10</b>	226.20
Auditor's Remuneration		
As Auditor	<b>3.16</b>	2.26
Traveling & Out of Pocket Expenses	<b>5.87</b>	4.90
In other capacity - Tax Audit	<b>0.60</b>	0.62
Internal Audit Expenses	<b>13.59</b>	11.39
Rates & Taxes	<b>53.54</b>	30.71
Rent	<b>54.47</b>	39.76
Insurance	<b>1.41</b>	0.80
Lands/crops compensation	<b>0.02</b>	0.07
Others :		
Amortisation of Software Licensing fees	<b>20.78</b>	62.61
Conference & Seminar etc.	<b>24.13</b>	27.74
Tents & Hutments	<b>147.67</b>	195.89
Shifting & Settling Expenses	<b>38.27</b>	34.31
Entertainment	<b>0.03</b>	0.14
Horticulture	<b>9.73</b>	7.29
Bad Debt Written Off	<b>8.00</b>	0.09
Exchange Fluctuation	<b>0.86</b>	0.90
Wealth Tax	<b>0.18</b>	0.18
Other Expenses	<b>32.09</b>	35.05
Total	<b>2578.98</b>	2459.43

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2011**

**SCHEDULE -11**

**INTEREST**

	Year ended 31st March, 2011 (Rs. in Lakh)	Year ended 31st March, 2010 (Rs. in Lakh)
Coal India Limited ( Holding Co.)	0.00	3.66
Interest on Retirement Pension Fund	0.16	0.57
Interest others	2.79	22.19
Total	<u>2.95</u>	<u>26.42</u>

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2011**

**SCHEDULE -12**

**PROVISIONS / WRITE - OFF**

	Year ended 31st March, 2011 (Rs. in Lakh)	Year ended 31st March, 2010 (Rs. in Lakh)
Provision :		
Doubtful debts	0.00	171.99
Doubtful Advances	0.00	3.64
Obsolescence	0.00	0.16
Total	<u>0.00</u>	<u>175.79</u>

**SCHEDULE-13****Schedule to Profit & Loss Account for the year ended 31st March 2011  
PRIOR PERIOD ADJUSTMENTS**

<b>Particulars</b>	<b>Year ending 31st March'2011 (Rs. In Lakh)</b>	<b>Year ending 31st March'2010 (Rs. In Lakh)</b>
<b><u>DEBIT</u></b>		
Salary Wages & Allowances		10.18
Consultancy Fees		39.70
Consumption of Stores		45.21
Electricity		9.24
Depreciation		44.04
Misc.Expenses		17.09
Interest charged for Income Tax		103.76
HSD OIL	9.34	
<b>TOTAL DEBIT</b>	<b>9.34</b>	<b>269.22</b>
<b><u>CREDIT</u></b>		
Depreciation	14.12	
Sale of Service	263.98	9.95
<b>TOTAL CREDIT</b>	<b>278.10</b>	<b>9.95</b>
<b>NET CREDIT (-) / DEBIT (+)</b>	<b>-268.76</b>	<b>259.27</b>

**CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED**

**CASH FLOW STATEMENT FOR THE YEAR ENDED 31st March, 2011**

**Rs in Lakh**

PARTICULARS		2010-11	2009-10
<b>CASH FLOW FROM OPERATING ACTIVITIES</b>			
Net Profit before taxation and extraordinary Items		2100.14	2220.22
PP Adj ( Dr)	-		259.27
PP Adj (CR)	+	268.76	
Adj from Reserves (DR)	-		42.67
Adj from Reserves (CR)	+		
Wealth Tax Prov	+	0.18	0.18
Increase in Misc Exp not Written off	-		
Decrease in Misc Exp not Written off	+		
<b>Adjusted Net Profit</b>		<b>2369.08</b>	<b>1918.46</b>
Adjustments for :-			
Depreciation	+	707.83	671.82
Profit on Sale of Assets	-	32.10	11.29
Loss on Sale of Assets	+		
Amortisation of Intangible Assets	+	5.20	41.53
Foreign Exchange Fluction Gain	-		
Foreign Exchange Fluction Loss	+	0.86	0.90
Interest Income	-	127.94	22.74
Interest Expenses	+	2.95	26.42
<b>Operating Profit before Working Capital Changes</b>		<b>2925.88</b>	<b>2625.10</b>
Increase in Sundry Debtors	-		2618.44
Decrease in Sundry Debtors	+	8540.05	
Increase in Loans & Advances	-	2067.79	
( Excl Incone Tax & Wealth Tax)			
Decrease in Loans & Advances	+		833.24
( Excl Incone Tax & Wealth Tax)			
Increase in Other Current Assets	-		4529.83
Decrease in Other Current Assets	+	1552.96	
Increase In Inventories	-	48.17	230.34
Decrease In Inventories	+		
Increase in Sundry Creditors	+		10581.53
(Current Liab & Prov excl. Income Tax & Wealth Tax)			
Dcrease in Sundry Creditors	-	7086.55	
(Current Liab & Prov excl. Income Tax & Wealth Tax)			
Cash Generated From Operation		<b>3816.38</b>	<b>6661.26</b>

		2010-11	2009-10
Cash Generated From Operation		<b>3816.38</b>	<b>6661.26</b>
Income Tax Paid	-	3108.06	2867.65
Wealth Tax Paid	-	0.18	
Cash Flow before Extraordinary Items		<b>708.14</b>	<b>3793.61</b>
Proceeds from Earthquake disaster settlement			
<b>Net cash from Operating Activities</b>		<b>708.14</b>	<b>3793.61</b>
<b>CASH FLOW FROM INVESTING ACTIVITIES</b>			
Purchase of Fixed Assets ( incl.WIP)	-	1535.04	942.11
Proceeds from Sale of Equipment	+	42.22	14.50
Interest Received	+	127.94	22.74
<b>Net cash from Investing Activities</b>		<b>-1364.88</b>	<b>-904.87</b>
<b>CASH FLOW FROM FINANCING ACTIVITIES</b>			
Proceeds from Long-term borrowings	+		
Dedrease in Long-term borrowings	-	3.66	177.45
Govt Grants	+	-156.05	-473.83
Foreign Exchange Fluction Gain	+		
Foreign Exchange Fluctuation Loss	-	0.86	0.90
Interest Paid	-	2.95	26.42
Dividend Paid	-		
<b>Net cash from Financing Activities</b>		<b>-163.52</b>	<b>-678.60</b>
<b>NET INCREASE / DECREASE IN CASH &amp; CASH EQUIVALENTS</b>		<b>-820.26</b>	<b>2210.14</b>
<b>ADD :CASH &amp; CASH EQUIVALENTS AT THE BEGINING OF THE PERIOD</b>		6924.33	4714.19
<b>CASH &amp; CASH EQUIVALENTS AT THE END OF THE PERIOD</b>		<b>6104.07</b>	<b>6924.33</b>



**SIGNIFICANT ACCOUNTING POLICY FOR 2010-11****1.0 ACCOUNTING CONVENTION**

Financial statements are prepared consistently on the basis of historical cost and on accrual basis following going concern concept, Accounting Standards and generally accepted accounting principles and practices except otherwise stated elsewhere.

**2.0 BASIS OF ACCOUNTING**

All expenses and incomes, if material, are booked initially in natural heads of accounts and then transferred to functional heads of accounts wherever required.

**3.0 SUBSIDIES / GRANTS FROM GOVERNMENT**

3.1 Subsidies / Grants on Capital Account are deducted from cost of respective asset to which they relate. The unspent amount at the year end, if any, is shown as Current Liability.

3.2 Subsidies / Grants on Revenue Account are credited to Profit & Loss Account under the head of other Receipts and the expenses are debited to respective heads.

3.3 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.

3.4 Grant / Funds received as Nodal/Implementing Agency directly or through CIL are accounted for on the basis of receipts and disbursement.

**4.0 FIXED ASSETS****4.1 Land**

Land includes cost of acquisition including incidental expenses incurred thereon.

**4.2 Buildings**

Buildings include cost of electrical fittings, water supply arrangements, sanitary fittings etc. which were part of construction contract and could not be segregated. Expenditures like partition, modification etc. and area development in township are being charged to Revenue as Repairs and Maintenance Expenses.

**4.3 Plant & Machinery**

4.3.1 Plant & Machinery include cost & expenses incurred for erection / installation and other attributable costs of bringing those assets to working condition for their intended use. Insurance spares supplied along with the machine are capitalized with the machine.

4.3.2 Software are fully amortised in the year of acquisition.

## 5.0 INVESTMENTS

Long Term Investments, if any, are valued at cost.

## 6.0 INVENTORIES

6.1 Stock of stores & spares at Central Drilling Stores, Barkakana are valued at cost calculated on the basis of weighted average method. Stores issued to Drilling Camps / Sites are charged off. The year end inventory of stores & spare parts lying at camps/sites/sub-stores initially charged off, are valued at issue prices. Consumables are valued at purchase prices.

6.2 Stores & spare parts include loose tools.

6.3 Provisions are made at the rate of 100% for unserviceable, damaged and obsolete stores and 50% for stores & spares not moved for 5 years or more .

6.4 Stock of Stationery and Medicine are not considered in Inventory.

## 7.0 DEPRECIATION

7.1 Depreciation on Fixed Asset is provided on straight line method at the rates specified in Schedule-XIV to the Companies Act, 1956 (as amended) except in some special cases. Depreciation on the assets added / disposed of during the year is provided on pro-rata basis with reference to the month of addition / disposal.

7.2 Value of lease-hold land is amortized over the lease period.

7.3 Assets whose actual cost does not exceed Rs. 5000/- are depreciated at 100% leaving a token value of Rs. 1/- for each of such assets.

## 8.0 BALANCE WITH COAL INDIA LTD. (HOLDING COMPANY)

Amount due to Coal India Limited on account of Loan after adjustment for conversion to equity or vice-versa from time to time is shown as Unsecured Loan. Amount due / receivable for revenue nature transaction in Current Account is shown under Current Liability / Current Asset.

## 9.0 INTEREST TO HOLDING COMPANY

Interest on Loan from Coal India Limited ( Holding Company ) is accounted for as per advice from them.

## 10.0 RETIREMENT BENEFITS TO EMPLOYEES

10.1 The liabilities on account of terminal benefits payable on retirement to employees is determined and provided for on the basis of actuarial valuation except as stated in item 10.2 below.

10.2 Provident Fund and Retirement Pension Scheme liabilities are accounted for on accrual basis and transferred to authorities in appropriate cases.

## 11.0 REVENUE RECOGNITION

11.1 Services rendered to CIL Subsidiaries for P&D and Exploration are billed on Cost Plus Basis except in cases covered in item 11.4 below. Unit of cost for the purpose is taken as :

- |      |                                |   |                   |
|------|--------------------------------|---|-------------------|
| (i)  | For Exploration Services       | - | Drilling Meterage |
| (ii) | For Planning & Design Services | - | Engineering Days  |

- 11.2 Effects for errors and omissions up to 0.2% of the expenditure / income for the year detected after the accounts are submitted to the Audit Committee/Board of Directors will be accounted for during the year without revising the selling rate.
- 11.3 Billing on CIL Subsidiaries is done during the year at budgeted rates. Final Bills of differential amounts are raised for that particular year on finalization of accounts.
- 11.4 Other miscellaneous jobs are billed on cost / cost plus basis or on mutually agreed rates as the case may be.
- 11.5 Sales shown in accounts are exclusive of service tax.
- 11.6 In the case of consultancy contracts with parties other than CIL Subsidiaries, revenue is recognized at proportionate contract value based on the percentage of work done or amount realizable, whichever is lower.
- 11.7 Inspection Charges are accounted for on receipt basis.
- 12.0 TRANSACTIONS IN FOREIGN EXCHANGE
  - 12.1 Expenses during the year in foreign currencies are converted/ translated at the prevailing rate and sales are booked at the rate prevailing at the time of billing. Outstanding items at the end of the year are converted at the year end rate.
  - 12.2 Current Assets & Liabilities in Foreign Currencies are converted/ translated at year end exchange rates and the loss / gain on conversion/translation, if any, is recognized in the year.
- 13.0 PRIOR PERIOD ADJUSTMENT

The charges or credits, in excess of Rs.5,00,000/- in each case, arising in current year as a result of errors and omissions in preparation of the financial statement (s) of earlier year (s) are accounted for under this head.
- 14.0 CHANGE IN ACCOUNTING POLICIES

Any change in Accounting Policy which has a material effect on financial statements for the current year is disclosed in Notes on Accounts (Schedule - 15).

**NOTES ON ACCOUNTS FOR 2010-11****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 (Rs.444.66 lakhs), NCL Township in Singrauli (Rs.415.63 lakhs) and CCL Township in Rajrappa (Rs.214.44 lakhs) on the land belonging to other subsidiaries of the Holding Company.
- 1.1.3 Testing for impairment of Assets in compliance of Accounting Standard 28 has been done estimating value in use on the basis of estimated future cash flows (budgetary estimates) and taking 7 % discounting rate as per CIL Guidelines and found that there has been no impairment losses.

**1.2 Depreciation**

- 1.2.1 Special Rates
- 1.2.2 The Earth Science Museum: 5.15 %.
- 1.2.3 All Plants & Equipment at Drilling sites; Scanner, Equipment and instruments used in the Laboratories for analysis work and all models of photocopiers : 11.31 %
- 1.2.4. High Volume Samplers and Respiratory Dust
 

Samplers :	33.33 %
Telecom :	15.83 %
- 1.2.5 Buildings constructed on leasehold land and land belonging to other subsidiaries of CIL : at the rate applicable to buildings on freehold land.

**2.0 CAPITAL WORK-IN-PROGRESS**

Provision has been made on Plant & Machinery which have not been put to use for more than three years and on incomplete civil jobs lying for more than four years at the rates of depreciation which would have been otherwise applicable to such items.

**3.0 STOCK OF STORES & SPARE PARTS**

- 3.1 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.
- 3.2 The provision for non-moving items have been decreased by Rs. 21.89 Lakh from Rs 37.32 Lakhs to Rs 15.43 Lakhs on account of inclusion of certain material under Obsolete Stores as approved by the Board.

#### **4.0 LOANS & ADVANCES / DEBTORS**

##### **4.1 Current Accounts and Sundry Debtors Accounts with CIL Subsidiaries**

4.1.1 Reconciliation of inter-company transactions in Current Accounts with other Subsidiaries of CIL has been carried out upto 31/03/2011. The agreed Current Account balances with the CIL Subsidiaries as on 31/03/2011 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 31/3/2011 is considered under Subsidiary Suspense Account.

4.1.2 Sundry Debtors of Rs.19345.20 lakhs includes Rs.14473.47 lakhs due from companies under same management. 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.

4.1.3 Letters have been issued to Debtors including CIL subsidiaries to obtain confirmation of balances reply to which is awaited. Confirmation of balances of Sundry Creditors, various Loan and Advances, Deposit, etc. as on 31/03/2011 has not been obtained.

##### **4.2. Income Tax:**

Income Tax advance of Rs. 8756.34 lakhs includes Rs.664.25 lakhs payments under protest against assessments for the years upto Assessment Year 2008-09. Income Tax provision of Rs 5909.06 includes provision relating to assessment for the years upto Assessment Year 2011-12. Fringe Benefit Tax provision of Rs.108.28 Lakhs includes provision upto assessment year 2009-10.

##### **4.3. Others**

A portion of office building at Ranchi is being used by Government of Jharkhand with effect from 04/12/2000. The claim towards rent receivable as on 31/03/2011 is Rs.4.33 lakhs (Previous year Rs.15.42 lakhs).

#### **5.0 CURRENT LIABILITIES & PROVISIONS**

##### **5.1. Current Accounts with CIL and its Offices**

Reconciliation of Current Accounts with CIL and its offices is done regularly, but it is not known if all the items appearing in Reconciliation Statement are accounted for by CIL within the year. Current Account balances as on 31/03/2011 have been reconciled.

##### **5.2. Liabilities under Coal Mines Pension Scheme**

5.2.1.1 Current Liabilities include Rs.33.04 lakhs (Pr. Yr. Rs. 37.08 lakhs) deductions which could not be remitted due to certain employees being non-CMPF members and deceased CMPF members not yet opted for pension.

- 5.2.2 There is also a liability for Rs. 2.10 lakhs (Pr. Yr. Rs. 2.51 lakhs) payable to the Pension Scheme being the additional increments granted by the Company w.e.f. 01/7/1995.
- 5.2.3 The above amounts of liabilities are inclusive of interest at the rate applicable to CMPF.
- 5.2.3.1 As against these liabilities Rs 54.92 lakhs (Pr. Yr. Rs. 54.75 lakhs) is held in Fixed Deposits with Bank.

### 5.3. Others

- 5.3.1 The liability for contractual drilling is provided on the basis of 100% value of meterage drilled during the year less payments made against such drilling.
- 5.3.2 Provision of Rs.800.37 lakhs ( Prev Year Rs. 527.60 Lakh) and Rs.1824.79 lakhs ( Prev Year Rs 1202.86 Lakh) have been made in respect of Pension and Superannuation Benefit respectively w.e.f. 01.01.2007 (for executives only)
- 5.3.3 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 readily available, no disclosures have been made in the Accounts.

## 6.0. THEFT & SNATCHING CASES

Theft cases involving an amount of Rs 1.44 lakhs (Previous Year Rs 0.93 lakhs) have been reported during the year. Most of the items covered under the reported thefts are charged off items and as such provision against such losses in the accounts has not been made.

## 7.0 DIRECTORS' REMUNERATION

		Amount (Rs. In lakhs)	
		Current Year 2010-11	Previous Year 2009-10
(i)	Salary & Allowances including LTC/Leave Encashment	79.07	78.08
(ii)	Provident Fund	8.50	8.04
(iii)	Medical Expenses	1.01	0.65
(iv)	Value of Perquisites	19.69	15.83
(v)	Gratuity Paid	0.00	19.50

## 8.0 EARNINGS, EXPENDITURE ETC. IN FOREIGN CURRENCY

### 8.1 Expenditure in Foreign Currency

		Amount (Rs. In lakhs)	
		Current Year 2010-11	Previous Year 2009-10
(i)	Foreign training /tour, books & others	45.92	35.62
(ii)	Consultancy fee	17.79	17.14
	<b>TOTAL</b>	<b>63.71</b>	<b>52.76</b>

8.2 Value of Imports Calculated on CIF Basis.

		Amount (Rs. In lakhs)	
		Current Year 2010-11	Previous Year 2009-10
(i)	Capital Goods	351.05	77.94
(ii)	Spares & Components	0.00	2.85
	<b>TOTAL</b>	<b>351.05</b>	<b>80.79</b>

8.3 Earnings in Foreign Exchange

Nil

Nil

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

		Current Year 2010-11		Previous Year 2009-10	
		Value	Percentage	Value	Percentage
(i)	Imported	0.00	0.00	0.00	0.00
(ii)	Indigenous	1612.14	100.00	1236.61	100.00
	<b>TOTAL</b>	<b>1612.14</b>	<b>100.00</b>	<b>1236.61</b>	<b>100.00</b>

9.0 **CONTINGENT LIABILITY**

9.1 **Claims against the Company not acknowledged as debt**

9.1.1 Income Tax: In respect of completed assessment pending in appeal Rs.664.25 Lakhs (Previous Year Rs.509.17 lakhs).

9.1.2 Entry Tax: In respect of F/Y 2002-03 pending before Commissioner of Commercial Tax Rs.20.97 lakhs (Previous Year Rs.20.97).

9.1.3 Service Tax: In respect of completed assessment pending in appeal Rs.40.24 lakhs (Previous Year Rs.40.24 lakh).

9.1.4 Other disputed claims pending in the courts and not provided for amount to Rs. 1259.44 lakhs (Previous Year Rs.863.82 lakhs).

9.2 LC opened pending maturity during the year Rs.45.21 lakhs (Previous year Rs.87.32 lakhs).

9.3 Estimated value of contracts remaining to be executed on capital account and not provided for amounts to Rs. 735.48 lakhs (previous year Rs.280.31 lakhs).

9.4 **Other matters :**

9.4.1 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.

9.4.2 There is a counter guarantee of Rs.10.57 Lakhs (Previous Year Rs. 10.57 Lakhs) issued by the Company in favour of Bank for issuing Bank Guarantee on behalf of the Company.

## 10.0 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 31.03.2011 has been computed at Rs.6719.76 Lakhs and Rs.729.15 lakhs respectively. Net Deferred tax as at 31/03/2011 comprises of the following:

		Amount (Rs. In lakhs)	
		Current Year 2010-11	Previous Year 2009-10
A)	Deferred Tax Asset		
	VRS	2.29	6.70
	Software	5.20	12.73
	Provision for obsolescence/ Non - moving	18.52	24.02
	Provision for doubtful debts	99.18	186.62
	Provision for Leave Encashment, Gratuity & other terminal benefits	6,594.57	6,030.65
	Total (A)	6,719.76	6,260.72
B)	Deferred Tax Liability		
	Difference in WDV of assets	729.15	810.10
	Total (B)	729.15	810.10
C)	Deferred Tax Asset (Net)	5990.61	5,450.62

## 11.0 CORPORATE SOCIAL RESPONSIBILITY ( C. S. R. ) :

A provision of Rs 57.32 lakh ( being 5% of retained profit of previous year) has been made towards Corporate Social Responsibility (C. S. R. ) funds for the year ended 31<sup>st</sup> March, 2011. An amount of Rs 19.61 lakh has been incurred during the year on this account.

## 12.0 WRITE BACK :

- 12.1. Stale cheques, which are more than three years old at the end of the financial year are written back.
- 12.2 Earnest Money and Security Deposit which are more than five years old at the end of the financial year are written back except disputed cases pending with court/arbitration.
- 12.3 Unclaimed liability other than that related to employees, lying for more than five years are written back except disputed cases pending with court/arbitration..

## 13.0 PRIVATE COMPANY

The Company was incorporated as a Private Limited Company and the word Private was omitted Vide Notification no. GSR 1234, dated December 30,1958



#### 14.0 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 Schedules A to O for Balance Sheet, Schedules 1 to 13 for Profit & Loss Account and Schedules 14 & 15 for Accounting Policy and Notes on Accounts.

Sd/-  
**(P. Lazar)**  
Company Secretary

Sd/-  
**(K. Chandra Mouli)**  
Chief General Manager  
(Finance)

Sd/-  
**( N. Khurana)**  
Director

Sd/-  
**(A. K. Singh)**  
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

Place : Ranchi  
Date : 18-05-2011

**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 ;

Registration No. : - 

0	0	1	2	2	3
---	---	---	---	---	---

 State Code : - 

0	3
---	---

Balance Sheet  
Date 

3	1
---	---

0	3
---	---

2	0	1	1
---	---	---	---

  
Date Month Year

II. Capital Raised during the year ( Amount in Rs '000)

Public Issue 

				N	I	L
--	--	--	--	---	---	---

 Rights Issue 

				N	I	L
--	--	--	--	---	---	---

Bonus Issue 

				N	I	L
--	--	--	--	---	---	---

 Private Placement 

				N	I	L
--	--	--	--	---	---	---

III. Position of Mobilisation and Deployment of Funds (Amount in Rs. '000)

Total Liabilities 

	8	7	5	4	7	0
--	---	---	---	---	---	---

 Total Assets 

	8	7	5	4	7	0
--	---	---	---	---	---	---

Sources of Funds : Paid-up Capital 

	1	9	0	4	0	0
--	---	---	---	---	---	---

 Reserve & Surplus 

	6	8	5	0	7	0
--	---	---	---	---	---	---

Secured Loans 

				N	I	L
--	--	--	--	---	---	---

 Unsecured Loans 

--	--	--	--	--	--	--

Application of Funds: Net Fixed Assets 

	7	7	5	8	5	8
--	---	---	---	---	---	---

 Investments 

				N	I	L
--	--	--	--	---	---	---

Net Current Assets 

(-)	4	9	9	4	4	9
-----	---	---	---	---	---	---

 Misc. Expenditure 

				N	I	L
--	--	--	--	---	---	---

Accumulated losses 

				N	I	L
--	--	--	--	---	---	---

 Deferred Tax 

	5	9	9	0	6	1
--	---	---	---	---	---	---

Intangible Assets 

				N	I	L
--	--	--	--	---	---	---

IV. Performance of Company (Amount in Rs '000)

Turnover							Total Expenditure						
4	2	9	0	9	1	9	4	0	5	4	0	2	9
+ / -							+ / -						
+							+						
Profit/Loss before Tax							Profit/Loss after Tax						
2	3	6	8	9	0		1	5	3	1	9	3	
( + for Profit , - for Loss )													
Earning per share in Rs.							Dividend						
			8	0	5		N	I	L				

V. Generic Names of three Principal Products/Services of Company  
(As per monetary terms)

Item Code No. (ITC Code)	N	O	T		A	V	A	I	L	A	B	L	E				
Product Description	M	I	N	E		P	L	A	N	N	I	N	G		&		
											D	E	S	I	G	N	
Item Code No. (ITC Code)	N	O	T		A	V	A	I	L	A	B	L	E				
Product Description	G	E	O	L	O	G	Y			&		D	R	I	L	L	-
														I	N	G	
Item Code No. (ITC Code)	N	O	T		A	V	A	I	L	A	B	L	E				
Product Description	N	A	T	U	R	A	L		R	E	S	O	U	R	C	E	
	M	A	N	A	G	E	M	E	N	T		A	N	D			
	F	I	E	L	D		S	E	R	V	I	C	E	S			

Signed for Schedules A to O and 1 to 15

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

Sd/-  
( **P. Lazar** )  
Company Secretary

Sd/-  
( **K. Chandra Mouli** )  
Chief General Manager (Finance)

Sd/-  
( **N. Khurana** )  
Director

Sd/-  
( **A. K. Singh** )  
Chairman - cum -  
Managing Director

ANNEXURE FORMING PART OF DIRECTORS' REPORT FOR THE YEAR ENDED 31.03.2011  
INFORMATION AS PER SECTION 217(2A) OF THE COMPANIES ACT, 1956 READ WITH  
COMPANIES (PARTICULARS OF EMPLOYEES) RULES 1975.

Sl. No.	Name	Designation / Nature of work	Remuneration During the year (Rs.)	Nature of employment Permanent / temporary	Qualification	Experience (yrs.)	Date of commencement	As on 31 <sup>st</sup> Mar 2011 (Yrs)	Last employment held
1	2	3	4	5	6	7	8	9	10
(a)	Employed through out the financial year under review and were in receipt of remuneration for that financial year in the aggregate of not less than Rs.60, 00,000/-.  -----Nil-----								
(b)	Employed for the part of the financial year under review and were in receipt of remuneration for any part of that financial year at a rate which in the aggregate was not less than Rs. 5, 00,000/- per month.  ----- Nil -----								