

# **Directors' Report**

**2009-2010**



**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 2009-2010**

### **FULL - TIME**

- |    |                           |   |                                |
|----|---------------------------|---|--------------------------------|
| 1. | Shri Ashok Kumar Singh    | : | Chairman-cum-Managing Director |
| 2. | Shri Narinder Khurana     | : | Director                       |
| 3. | Shri Amal Kumar Debnath   | : | Director                       |
| 4. | Shri Shovan Kumar Mitra   | : | Director                       |
| 5. | Shri Animesh Nandan Sahay | : | Director                       |

### **PART - TIME**

- |     |                                   |   |          |
|-----|-----------------------------------|---|----------|
| 6.  | Shri Devulapalli Narasimha Prasad | : | Director |
| 7.  | Prof. Ajoy Kumar Ghose            | : | Director |
| 8.  | Shri Nirmal Chandra Jha           | : | Director |
| 9.  | Dr. Ashok Kumar Kundra            | : | Director |
| 10. | Prof. Vedala Rama Sastry          | : | Director |
| 11. | Dr. Sushil Bhandari               | : | Director |

**COMPANY SECRETARY** : Shri Udayan Chakrabarti

**BANKERS** : State Bank of India,  
United Bank of India,  
Canara Bank  
Bank of Maharashtra  
Union Bank of India,  
Oriental Bank of Commerce  
Indian Overseas Bank  
Central bank of India  
UCO Bank  
Syndicate Bank  
Surguja Kshetriya Gramin Bank

**AUDITORS** : M/s J. N. Agrawal & Co.  
Chartered Accountants  
Ranchi.

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

## **PRESENT MANAGEMENT AS ON 01.05.2010**

### **WHOLE TIME**

- |    |                           |   |                                |
|----|---------------------------|---|--------------------------------|
| 1. | Shri Ashok Kumar Singh    | : | Chairman-cum-Managing Director |
| 2. | Shri Narinder Khurana     | : | Director                       |
| 3. | Shri Amal Kumar Debnath   | : | Director                       |
| 4. | Shri Shovan Kumar Mitra   | : | Director                       |
| 5. | Shri Animesh Nandan Sahay | : | Director                       |

### **PART - TIME**

- |     |                                   |   |          |
|-----|-----------------------------------|---|----------|
| 6.  | Shri Devulapalli Narasimha Prasad | : | Director |
| 7.  | Prof. Ajoy Kumar Ghose            | : | Director |
| 8.  | Shri Nirmal Chandra Jha           | : | Director |
| 9.  | Dr. Ashok Kumar Kundra            | : | Director |
| 10. | Prof. Vedala Rama Sastry          | : | Director |
| 11. | Dr. Sushil Bhandari               | : | Director |

## NOTICE FOR 35<sup>th</sup> ANNUAL GENERAL MEETING

Ref. No. CS/AGM-35/2010/283

Dated: 11.05.2010

Notice is hereby given to all the shareholders of Central Mine Planning & Design Institute Limited that the 35<sup>th</sup> Annual General Meeting of the Company will be held on Thursday, the 14<sup>th</sup> May, 2010 at 4.00 P.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 2010, 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 2009-10.

3. 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 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.
- (ii) To appoint a Director in place of Prof. A. K Ghose non-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.
- (iii) 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.
- (iv) To appoint a Director in place of Dr. A.K. Kundra non-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.
- (v) To appoint a Director in place of Dr. S. Bhandari non-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.
- (vi) To appoint a Director in place of Prof. V.R. Sastry non-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

(Udayan Chakrabarti)  
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 35<sup>th</sup> Annual Report on the working of your Company along with the Accounts for the year ended 31<sup>st</sup> March, 2010 and Auditors' Report thereon.

### **PART : A**

#### **1.0 CORPORATE OVERVIEW**

Central Mine Planning & Design Institute Ltd. was accorded the status of Mini Ratna (Cat-II) by the Govt. of India on 29<sup>th</sup> May, 2009.

Your 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, IIFCO-Chattisgarh Power Ltd., Neyvelli Lignite Corporation, Tata Steel, HINDALCO, Central Electricity Authority, Mahaguj Colliery Ltd., Director General of Hydrocarbons, DSCL, Reliance Coal Resource Ltd. (M/s Sasan Power Ltd.) OMC 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, 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 and 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. 1146.38 Lakhs (after deferred tax). The working results of the company are given below:

**(Rs. in Lakhs )**

Sales		45352.61
Less: Total Net Expenditure		42546.72
Gross Profit		2805.89
Less:		
Depreciation	383.46	
Interest	26.42	
Provision	175.79	585.67
Profit (+) / Loss (-) for the year (Before P.P. Adjustment & Tax)		2220.22
Less: Prior Period Adjustment		259.27
Profit before Taxation		1960.95
Provision for Income Tax:		
Less: For current year	2103.94	
For Fringe Benefit Tax	-	
Add: For Deferred Tax	1093.19	
For earlier years	196.18	
Net Profit after Tax		1146.38

### **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 Mission of CMPDIL:**

The Mission of CMPDIL is to provide total consultancy in coal and mineral exploration, mining, engineering and allied fields as the premier consultants in India and a leading one in the international arena.

#### **1.3.2 Vision of CMPDIL:**

The vision of CMPDIL is to be the market leader in an expanding earth resource sector and allied professional activities.

#### **1.3.3 Set Corporate Objectives to realize the above:**

Major objectives of CMPDIL are as follows.

1. To provide consultancy support in coal and mineral exploration including geological, geophysical, hydrological, remote sensing and environmental data generation.
2. To improve quality of exploration and feasibility reports providing higher level of confidence of geological assessment for optimum mine planning.
3. To optimize generation of internal resources by improving productivity, 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 give thrust on effectiveness of all 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) and Environment Impact Assessment (EIA) for coal mining and related projects.
8. To provide field services to Subsidiary Coal Producing Companies of CIL.
9. To provide consultancy services to outside organizations other than CIL and its subsidiaries

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

The global recession had its impact on the Indian economy too. Indian economy, which registered a growth of 9% during 2007-08, slowed down to about 7% (Central Statistical Organisation) during 2008-09 and it went down further to a level of about 5.7 % (RBI's authorised survey) in 2009-10. However, the worst is over and the economy is bound to look up once again. In the long term perspective, Indian economy is projected to grow at a rate of 7 to 8%. Energy is a vital input into production and this means that if India is to maintain this growth rate, reliable availability of commercial energy has to be ensured. India's primary commercial energy supply is predicted to increase by 3 to 4 times to the level of 1500-1800 Mt by 2030.



India is the world's 3<sup>rd</sup> largest consumer of energy from coal accounting for more than half of the country's total energy consumption and dominance of coal as source of commercial energy is expected to continue in foreseeable future.

Coal production in India during 2009-10 touched a new high of 532 Mt, of which, major share of 81% (431.27 Mt) was produced by CIL. As per the new Coal Distribution policy, CIL has the onus of meeting the coal demand in the country. Coal production from captive block allottee has not been upto the expected level. This situation has also led to increased reliance on Coal India for meeting the coal demand in the country, by expanding its activities further.

CMPDI, being the consulting subsidiary of CIL - the largest coal producer company in the world, has the mandate to provide exploration, planning and design 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 much faster rate than its earlier growth rate of 5 to 5.5 % yearly. 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 over 267 Bt, out of which, over 105 Bt (about 39 %) has been explored in detail to bring them under the Proved Category. The remaining 61%, i.e. around 162 Bt, are still in Indicated / Inferred category and require detailed drilling to be upgraded to Proved Category. About 28.7 Bt of regionally explored resources have been allotted for Captive mining. Such captive operators are also likely to look towards CMPDI for exploration services. 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 non-renewable energy generation like Coal Bed Methane / Coal Mine Methane, Underground Coal Gasification and Coal Liquefaction, etc. apart from the conventional mining methods. Coal Mine Methane project has been successfully demonstrated by CMPDI at Moonidih project of BCCL. Replication of similar projects in other suitable areas is being considered. Additionally, emerging area of Information and Communication Technology (ICT) in coal sector will also present additional opportunity for CMPDI in coming years.

### **1.3.5 Preparedness of CMPDI**

CMPDI is prepared to undertake the responsibilities through its following functions:

- (i) Consultancy and support services to customers, both within and outside coal industry and the country, especially to the mineral, mining and allied sectors.
- (ii) Planning support and guidance to the sister coal-producing companies within CIL.
- (iii) Assistance to and execution for Ministry of Coal on matters/projects relating to national coal-industry, e.g., inventory of coal-deposits, coalmining potentials and operations, S&T schemes, etc.
- (iv) Liaison between MOC, CIL, and coal producing companies on technical and operational matters.

CMPDI has envisaged to carry out 29.35 lakh metres of drilling during five years of XI plan period through in-house drills as well as by outsourcing as against about 10 lakhs metres of drilling carried out during X plan period. During XI plan period, CMPDI will be preparing about 127 project reports resulting in capacity addition for coal production of about 367 Mt and firming up project planning needs for XII plan.

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 laboratory and test support. Land use monitoring of all major opencast mines in Coal India Ltd. has started 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 and 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, etc.

#### **1.3.6 Strategy adopted to realize above:**

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.

#### 1.4.0 Financial Overview of CMPDIL

During the year the company made a net profit of Rs. 11.46 Crores (After deferred Tax).

The summary of the working results for the last three years is as follows:

Eligibility Criteria		Status of CMPDIL		
		2007- 08	2008- 09	2009-10
1.	Profit before Taxes (Rs .in crore)	5.00	6.74	19.61
2.	Profit after Taxes (Rs .in crore)	2.85	4.84	11.46
3.	Net worth (Rs. in crore)	47.48	52.32	63.35
4.	Net profit to net worth (%)	10.53	12.88	30.96
5.	Profit before depreciation, interest and tax to capital employed (%)	21.18	58.86	151.06
6.	Profit before interest and tax to Turnover (%)	2.66	2.19	4.38

#### 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

From 1<sup>st</sup> April 2009 onwards the Board of Directors of CMPDIL comprises of five 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 is as follows:

##### Whole-Time Directors

1. Shri Ashok Kumar Singh
2. Shri Narinder Khurana
3. Shri Amal Kumar Debnath
4. Shri Shovan Kumar Mitra
5. Shri Animesh Nandan Sahay

##### Official Part-Time Directors

6. Dr. Rajiv Sharma (From 01.04.2009 to 31.07.2009)
7. Shri Nirmal Chandra Jha
8. Shri Devulapalli Narasimha Prasad (From 27.01.2010)

## **Non-Official Part-Time Directors**

9. Prof. Ajoy Kumar Ghose
10. Dr. Ashok Kumar Kundra
11. Prof. Vedala Rama Sastry
12. Dr. Sushil Bhandari

### **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 is headed by a non-official part-time Director (Independent Director) and has one non-official part-time director (Independent Director) and a whole time director as follows:

- |  |   |          |
|--|---|----------|
| 1. Prof. Ajoy Kumar Ghose (Non- Official part-time Director) | - | Chairman |
| 2. Dr. Sushil Bhandari (Non- Official part-time Director)    | - | Member   |
| 3. Shri Amal Kumar Debnath (Whole-time Director)             | - | Member   |

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

## **PART : B**

### **ANNUAL PERFORMANCE OVERVIEW**

#### **1.0 Geological Exploration & Drilling**

- 1.0.1** CMPDI continued to carry out coal exploration activities in 2009-10 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** During 2009-10, efforts to enhance exploration capacity through departmental resources and outsourcing were continued. The capacity expansion through increase in departmental drills deployment (from 47 to 55) has been achieved in November 2009. For capacity expansion through modernization of departmental drills, three mechanical and two hydrostatic coring drills have been inducted during the year. Tenders for procurement of 9 mechanical drills have also been floated and was under process of evaluation. To meet the increasing work load, recruitment of geologists was continued and 54 Geologist 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, exploratory drilling in 14 blocks, out of 18 blocks outsourced in 2008-09 through open tendering, picked up during the year whereas work under MoU with MECL commenced during the year. For further expansion of capacity, a Global Tender has been floated inviting bids for exploration of 7 additional blocks, involving 4.37 lakh m of exploratory drilling. Processing of bid document was under progress. To fulfill the enhanced requirement of coal core analysis due to increase in drilling, the capacity expansion of CMPDI & CIMFR labs has been taken up and is under various stages of execution. Besides routine Geophysical logging and surface survey work, one 2-D Seismograph has been acquired to expedite exploration processes. Process for induction of 3-D HRSS technology/ equipment is under progress.

#### **1.1 Drilling Performance in 2009-10:**

- 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 19 CIL/Non-CIL blocks. A total of 122 to 138 drills were deployed in 2009-10 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 GSI for Promotional Exploration in Coal Sector (CIL area) on behalf of MoC.
- 1.1.2** In 2009-10, CMPDI and its contractual agencies took up exploratory drilling in 104 blocks/mines of 25 coalfields situated in 7 States. These coalfields are Raniganj (9 blocks/mines), Rajmahal (1), Jharia (4), W.Bokaro (1), Ramgarh (2), North Karanpura (1), Auranga (1), Tawa Valley/Pathakhera (3), Pench Kanhan (6), Kamptee (3), Nand-Bander (2), Wardha (10), Singrauli (8), Sohagpur (15), Sendurgarh (1), Johilla (1), Mand Raigarh (8), Korba (6), Hasdo-Arand (1), Birsampur (5), Lakhanpur (1), Sonhat (1), Talcher (8), Ib Valley (3) and Makum (3 blocks). Out of 104 blocks/mines, 16 were Non-CIL/Captive blocks, 1 Promotional block and 87 CIL blocks/mines. Departmental drills of CMPDI took up exploratory drilling in 76 blocks/mines, contractual agencies (tendering/MOU) in 19 blocks and State Govts in 9 blocks/mines.

**1.1.3** Under Promotional (regional) Exploration Programme, MECL has undertaken Promotional drilling in 7 blocks (Katol CF = 3 blocks, Mand Raigarh = 2 & Godavari Valley = 2) and GSI has undertaken 9 blocks for Promotional drilling (Talcher CF = 4 blocks, Ib Valley = 1, Sohagpur = 3 & Tatapani Ramakola=1) in Coal Sector.

**1.1.4** The overall performance of exploratory drilling in 2009-10 is given below:

Agency	Target 2009-10 (metre)	Performance of Exploratory Drilling in 2009-10			Achieved Prev. Year: 2008-09 (m)	Growth %
		Achieved (metre)	Achieved (%)	+/- (m)		
A. Detailed Drilling undertaken by CMPDI (including Promotional Drilling)*:						
i.Departmental	2,10,000	2,65,133	126%	+55,133	2,28,178	16%
ii. Outsourcing:						
State Govts.	5,000	9,101	182%	+ 4,101	8,340	9%
MECL (MOU)	50,000	24,145	48%	- 25,855	-	-
Tendering (CIL blocks)	35,600	31,780	89%	- 3,820	21,450	48%
Tendering (non-CILblocks)	59,400	1,40,102	236%	+ 80,702	14,393	873%
Total A:	3,60,000	4,70,261	131%	+1,10,261	2,72,361	73%
B. Promotional (regional) Drilling undertaken by MECL & GSI in Coal Sector:						
MECL	53,400	33,102	62%	- 20,298	43,178	-23%
GSI	15,400	13,192	86%	- 2,208	15,573	-15%
Total B:	68,800	46,294	67%	- 22,506	58,751	-21%
Total A+B:	4,28,800	5,16,555	120%	+ 87,755	3,31,112	56%

\* In 2009-10, departmental drills have carried out 1,992m of drilling in Promotional block, 1,82,553m in CIL blocks and 79,504m in Non-CIL/Captive Mining Blocks.

In 2009-10, CMPDI achieved its departmental and overall drilling targets by 126% and 131%, respectively. The performance of departmental drilling was better than previous year by 55,133m with 16% growth and recording average operational drills productivity of 416m/drill/month which is better than achieved in previous year i.e. 397 m/dr/mth. 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 problem and resource constraints.

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

CMPDI had submitted a scheme to the Govt. 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.893.89 crores was requested for the purpose under this Central Sector Scheme. However, MoC has conveyed the approval of Rs.472.94 cr only for XI plan. The enhancement of outlay has been taken up by MoC with Planning Commission.

In 2009-10, a total of 1,17,000m of drilling was targeted in Non-CIL blocks (departmental=57,600m, outsourcing=59,400m). As against this, the departmental drills of CMPDI have carried out 79,504m of exploratory drilling whereas 1,40,102m of drilling has been achieved through outsourcing. The block-wise achievement of drilling in such blocks in 2009-10 is given below:

Agency/ Command Area	Coalfield	Block	Drilling in 2009-10 (m)
<b>A. CMPDI (Departmental):</b>			
ECL	Raniganj	Tamla	1509
CCL	Auranga	Rajbar ABC	14372
WCL	Kamptee	Bharatwada	5396
	Nand-Bander	Mandwa	5010
SECL	Sohagpur	Malachua	3280
		Panwari	5878
MCL	Talcher	Bankui	19219
		Mahanadi	2568
	Ib Valley	Prajapara	22272
<b>Sub-total A (Departmental):</b>			<b>79,504</b>
<b>B. Outsourcing through open tendering:</b>			
ECL	Rajmahal	Kayda-Chaudhar-Gariapani	19443
SECL	Mand Raigarh	Syang Central 'A'	20517
		Syang East 'B'	16737
		Syang North West	21718
		Syang South	21465
		Chirra North	26673
	Hasdo-Arand	Morga South	13549
<b>Sub-total B (Outsourcing):</b>			<b>1,40,102</b>
<b>Grand Total of Drilling in Non-CIL blocks:</b>			<b>2,19,606</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 GRs to prospective entrepreneurs of Captive Mining to enable them in selection of suitable blocks for their end use. After the process of allotment is over, original Geological Report is provided to allottee on payment of total cost of exploration.

#### 1.1.6 Promotional Drilling by CMPDI:

The achievement of drilling in 2009-10 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.387 crores was requested against which MoC has conveyed the approval of Rs.174.02 cr 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 block of Tawa Valley coalfield. A total of 1992m has been drilled in this block in 2009-10. The work is continuing.

As stated earlier, CMPDI has also carried out technical supervision of Promotional Exploration carried out by MECL in Coal Sector (7 blocks) and monitored Promotional Exploration conducted by GSI in 9 blocks under the scheme. The performance of Promotional drilling is given in para 1.1.4 above.

To enhance the drilling capacity and drill productivity of CMPDI it was decided with the approval of the Board of Directors to induct Hydrostatic Drills against replacement of old drills. 2 nos. Truck Mounted Hydrostatic Drills manufactured by M/s Atlas Copco have been procured and deployed in Regional Institute-I under the command area of Eastern Coalfields Limited. During the performance testing it has been observed that the drill productivity and drilling capacity can be enhanced by induction of Hydrostatic Drills.

The following Plant and Machinery (P&M) were procured for drilling operation against replacement during 2009-10.

Sl.No.	Description	Qty.	Remarks
1.	Truck Mounted Hydrostatic Diamond Core Drill	2 Nos.	
2.	Skid Mounted Mechanical Drill	3 Nos.	2 Drills have been supplied without Mud Pump and Derrick which are yet to be supplied
3.	Mud Pump	13 Nos.	
4.	Truck	15 Nos.	

## **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 CGWA approval and EMP clearance. Hydro-geological studies of 36 projects in ECL, BCCL, NCL, CCL, WCL, SECL and NEC areas were completed during 2009-10.
- 1.2.2** Hydro-geological notes on ground water condition of 9 WCL and 2 SECL projects, as part of PR & GR, have also been completed during this period. CMPDI also took up groundwater monitoring of 63 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** Hydro-geological studies in 13 projects of WCL and SECL area have been carried out for water supply arrangement to mines, colony, washeries and villages.
- 1.2.4** Construction of piezometers at Gevra & Kusmunda OCPs of SECL has been completed under supervision of CMPDI and is under progress in other areas of SECL. Arrangement for piezometre construction is being made in NCL areas also.
- 1.2.5** Hydrogeological investigation of Kasta block (Raniganj Coalfield) for Underground Coal Gasification studies continued during the year.

## **1.3 Geological Reports:**

- 1.3.1** In 2009-10, a total of 19 Geological Reports were prepared on the basis of detailed exploration conducted in previous years. The prepared Geological Reports have brought about 2.6 Billion Tonnes of coal resources under 'Proved' category.



- 1.3.2** Under Promotional Exploration Programme, GSI and MECL have submitted 14 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 2009-10, A total of 244 no. of boreholes were logged with multi-parametric geophysical logging equipments. A total of 1,11,737 depth meter of geophysical logging had been carried out for this purpose in CIL, Non-CIL and UNDP-CBM project areas. Out of this, 64,408 depth meter of logging was done by 5 no. of departmental geophysical logging units and 47,329 m of logging was done by contractual agencies. There is a growth of 48% in departmental logging whereas overall growth of >150% has been achieved.

- 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 groundwater investigation. A total of 126 line km of Resistivity profiling, 100 no. of Vertical Electrical Soundings (VES) and 2818 no. of stations of Magnetic survey have been carried out in 2009-10 for such purpose. One 48-channel signal enhancement Seismograph has been procured and with this equipment, 23 line km of HRSS survey was carried out in Sonapur Bazari block of Raniganj Coalfield (ECL) and in Chintapani block of Mand-Raigarh Coalfield (SECL).

On 4<sup>th</sup> June, 2009 an incident of caving in of an overburden dump occurred in Sasti OCP of Western Coalfields Limited resulting in the trapping of one poclain machine with operator and overman. With the help of a high precision proton magnetometer the likely position of the buried poclain was identified and led to the recovery of the poclain along with the operator's body.

The magnetic survey thus could be skillfully utilised in the use of detection of buried HEMM in such eventuality.

#### **1.5 Geosystem:**

- 1.5.1** The Government funded project 'Integrated Coal Resources Information System' continued in 2009-10 also under the Promotional Exploration Scheme. The basic data capture from old GRs has been completed and is being checked for finalization and processing. During the year, 2227 maps were handed over to vendor for digitization and vectorization. A total of 2402 ACAD maps were corrected & finalized and 2952 plans converted for Arc-GIS application. Data processing (22F files) of 118 blocks was completed and 26 models were created during the year. Integration of survey of about 100 blocks was completed in 2009-10.

- 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" and effective from Sept. 2009. It is CMPDI-RDCIS SAIL joint project and the total outlay of the project is 265 lakh with duration of two years. Under the project the Lab division organized a one day workshop on 21.11.09 and Dr H. S. Valia, President, Coal Science Inc. USA & Consultant of the project has participated in the workshop along with officers from CIL, BCCL, CCL, CMPDI & RDCIS-SAIL.

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

### **1.6.1 Coalbed Methane Recovery and Commercial Utilisation 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.

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.

It was taken up by Govt. of India in collaboration with United Nations Development Programme (UNDP)/ Global Environment Facility (GEF) and now it is presently under implementation as Govt. of India S&T Project to complete the remaining activities. It is jointly implemented by Central Mine Planning & Design Institute Ltd. (CMPDI) and Bharat Coking Coal Ltd (BCCL) on behalf of the Ministry of Coal.

#### **PROJECT COST**

Approved Project Cost (original)	:	Rs 76.85 Crore
Approved RCE – June, 2004	:	Rs. 92.427 Crore
Proposed RCE - October, 2009	:	Rs. 123.18 Crore
Additional Grant sought from S&T	:	Rs. 15.753 Crore

A Management Committee has been constituted vide MoC Office Memorandum No. 34012/7/2007-CRC (Part) dated 5<sup>th</sup> March, 2009 to monitor the CBM Project. Accordingly project is implementing its activities as a S&T Project and it is likely to be completed by December, 2010 by achieving remaining objectives. During the year 2009-10, following key activities were done:

1. Third CBM production well has been drilled at Moonidih and three coal seams were stimulated for recovery of gas. Recovery of gas from two wells has been established and activities are underway to recover gas from third well. Efforts are being made to drill remaining four vertical production wells to supplement additional gas recovery.
2. Recovered gas from two CBM wells is supplying to Gen sets for power generation and generated power is being supplied to Moonidih Project Colonies. Total 5,53,042 kwh has been generated during 2009-10 and cumulative generation is 10, 47,574 kwh. Preliminary estimates carried out on the cost parameters indicate that the cost of generation of electricity, even in the demonstration project, is comparable with the normal electricity generation cost.
3. India CMM/CBM clearinghouse is functioning in collaboration with USEPA since 18<sup>th</sup> November, 2008 at CMPDI (H.Q), Ranchi and a website ([www.cmmclearinghouse.cmpdi.co.in](http://www.cmmclearinghouse.cmpdi.co.in)) has also been created.
4. It has been agreed upon in the management committee meetings that vertical well drilling activities should be concentrated initially at Moonidih & Singra blocks and Western Jharia area will be developed as hub for CBM activities.

## **ACHIEVEMENT OF THE PROJECT**

This unique and 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 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 submitted a Final Development Plan of Parbatpur Sector, (18 Sq. Km area) within Jharia CBM block with a capital out lay of Rs. 1290 Crore to Directorate General of Hydrocarbons (DGH) for approval of the Govt. After approval necessary steps will be taken up to proceed further for taking up envisaged activities of Development and Production Phases. In the meantime Sale of incidentally produced gas from Jharia CBM Block commenced from Jan'10 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 commenced on 23<sup>rd</sup> March, 06 and all the 8 slimholes have been completed in Nov. '07 involving 7853.50m of drilling. A report based on slimhole drilling & other available data has been prepared by CMPDI and submitted to ONGC in March 09. This report will facilitate ONGC to prepare Development Plan.

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

### **1.6.3 PREPARATION OF CBM DATA PACKAGE FOR DIRECTORATE GENERAL OF HYDROCARBONS (DGH):**

CMPDI has submitted data dossiers comprising three volumes of Data Package and one volume of Information Docket for 8 prospective CBM blocks to DGH in January '09.

These data dossiers formed part of the bid document of the recently concluded 4th round of global bidding invited by Directorate General of Hydrocarbons for allotment of CBM blocks. The allotment of the blocks is under consideration of the Govt.

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

CMPDI is pursuing assessment of Coalbed Methane Gas-in-Place Resource through boreholes being drilled under Promotional Exploration during XI Plan Period being funded by Govt. of India with a total plan expenditure of Rs.8.59 crore. A total of 50 boreholes (30 by CMPDI and 20 by GSI) are to be taken up for studies during the XI Plan Period.

During 2009-10, a total of 4 boreholes located in different coal/lignite fields were taken up for studies and samples collected for desorption and other tests. So far such studies have been carried out in 16 boreholes during XI Plan Period. Further, three assessment reports have been completed during 09-10.

### **1.6.5 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 is under progress.

To expedite the commercial development, an EoI was floated on 22/1/10 for identification of a suitable service provider for development of CMM. Ten responses have been received against this EoI. Action has been taken to formulate a suitable tender document for allotment of the prospective blocks through bidding.

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

Project proposals for assessment of CMM potential related to large open cast mines in Moher Sub-basin of NCL, Singrauli Coalfield and Korba Coalfield have been approved by NCL and SECL respectively. The following activities have been taken during 2009-10 for

generation of data for assessment of CBM resource for taking up actions for commercial development:

- Drilling for generation of CBM specific data in the dip side of projectised area in Moher sub-basin commenced on 03.09.2009. All the Five slimholes have been completed in November 2009 with a cumulative meterage of 2061.50m.
- Drilling for generation of CBM specific data in the dip side of projectised area in Korba coalfield commenced on 10.12.2009. Drilling of all the five slimholes has been completed with a cumulative meterage of 2091.50m.
- CBM specific analytical tests are going on for both the blocks to assess the potentiality of the identified area for commercial development of CBM.

#### **1.6.7 DEVELOPMENT OF VAM PROJECTS**

CMPDI has 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 and further action is being taken for development of VAM projects in the identified mines.

In addition, a project titled “Ventilation Air Methane Emissions: Mitigation and utilization under Indian mining scenario” has been endorsed by CMTF and APP under Project No. CML-08-21 in October '08. Help has been sought for short listing experts in this field for formulation of a viable VAM project under Indian Mining Scenario.

#### **1.6.8 ESTABLISHMENT OF CMM/CBM CLEARINGHOUSE 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.

Further, CIL has sponsored a pavilion in the M2M Partnership Expo held at New Delhi from 2-5 March 2010. Accomplishments of CMPDI/CIL in the field of development of coal- based non-conventional resource were showcased in the CIL pavilion. Working models of CBM drilling and extraction technology were also displayed in the EXPO. The CIL booth was highly appreciated by the international/national visitors in the said EXPO which was attended by over 500 participants representing over 35 countries and important players in the field of CBM/CMM development.

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

CMPDI along with GSI, SCCL, and NLC has developed the preliminary criteria for selection of suitable coal reserves for UCG application in line with the decision taken by MoC. CMPDI has also been entrusted with identification of suitable coal / lignite blocks in

consultation with GSI, SCCL and NLC, which can be offered for public/private participation for development of UCG.

- Seven blocks (5 lignite and 2 coal) have been identified for the development of UCG. The details have been communicated to MoC.
- Two coal blocks within CIL command area for development of UCG have also been identified and communicated to CIL.

The following other activities have been taken for UCG development during the period:

#### **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 3199.80m drilling have been completed by November'09. The assessment of data has been undertaken.

#### **1.7.2 EOI for commercial development:**

Eoi for commercial development of UCG in 2 blocks (Kaitha blocks- Ramgarh Coalfield of CCL and Thesgora 'C' block in Pench-Kanhan Coalfield of WCL) within CIL command area has been floated on 30/11/09. Six offers were received till the last date of receipt of offer 15/1/10. The meeting with respondents held on 26/2/10. A Tender document for award of the work for commercial development of UCG is under formulation.

### **2.0 PROJECT PLANNING & DESIGN**

During the year 2009-2010, 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.

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

- Revision of project reports/ cost estimates
- Feasibility reports for coking/non-coking coal washeries
- Conceptual reports and customisation of bid document for washeries
- Operational plans for large OC mines
- Environment Management Plan (EMP)
- 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 and intermediate technology using SDLs and LHDs in UG mines of CIL.
- Preparation of Global bid documents for Mass Production technology in underground mines of CIL as well as for high speed incline drivage and shaft sinking.

During the year 2009-2010, 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 Treatment Plants, etc.

During the year 2009-2010, a total of 410 reports have been prepared for CIL and its subsidiary companies.

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

<b>REPORTS</b>	<b>Nos.</b>
Geological Reports	19
Project Reports/ Revised Cost Estimates	37
Operational Plans	15
Other Studies	154*
EMPs (including 137 Form-I)	185
<b>TOTAL</b>	<b>410</b>

\* This includes Master Plans for North Karanpura Coalfield, Mand-Raigarh Coalfield, Talcher Coalfield and Ib Valley Coalfield.

Details of reports prepared during the period 2009-2010 is furnished in Annexure-I.

## LIST OF COMPLETED REPORTS DURING 2009-10

Regional Institute/HQ	Name of the Reports
<b><i>Geological Reports</i></b>	
<b>HQ</b>	1. Tirap
<b>RI-I</b>	1. Nimcha
	2. Rangamati 'A'
	3. Itapara
<b>RI-II</b>	1. Madhuband Phularitand Reorg.
	2. OCP IV (V/VI/VII seam base)
<b>RI-III</b>	1. Tetariakhar Expn.
	2. Chano-Rikba
<b>RI-IV</b>	1. Niljai Deep
	2. Ukni Extn. (South)
	3. Magrahi
<b>RI-V</b>	1. Amritdhara OC Project (Revised GR)
	2. Rai OC Project (Revised GR)
	3. Batura UG
	4. Chintapani
	5. Madan Nagar
<b>RI-VI</b>	1. Block 'B' Extn.
<b>RI-VII</b>	1. Siarmal West Extn. (Banpatra)
	2. Dipside of Kulda
<b><i>Project Reports</i></b>	
<b>HQ</b>	1. Ratibati (Radhamadhabpur) UG Mine
	2. Tipong OC (XI Plan)
	3. PQ OC (XI Plan)
	4. Nimcha R-VI UG
	5. Balaram Expn. OC (XI Plan)
<b>RI-I</b>	1. Haripur (CM) UG
	2. Kunustoria-Dobrana UG (XI Plan)
	3. Hura 'C' OC Expn.
	4. Chuperbhita OC Expn.
	5. Khas Kajora UG
<b>RI-III</b>	6. Rangamati 'A' UG (XI Plan)
	1. Piparwar Mangardaha UG
	2. Rajrappa OC RPR
	3. KDH Expn. OC
	4. Kedla EPR OC (XI Plan)
	5. Aswa OC (XI Plan)
	6. Gose OC (XI Plan)
	7. Pichri Extn. OC (XI Plan)
	8. Ramgarh II OC (XI Plan)
	9. Amlo-Dhori UG
<b>RI-IV</b>	10. DRD OC (XI Plan)
	1. Gandhigram UG (Shaktigarh Block)
	2. Gondegaon Expn. OC (RCE)
	3. Motaghat OC (XI Plan)
	4. Padmapur Deep OC (XI Plan)



<b>RI-V</b>	5. Tawa-II UG Expansion
	6. Amalgamation PR for Chickalgaon, Chinchala, Rajur & Pisagaon OC (XI Plan)
	7. Niljai Deep OC (XI Plan)
	1. Chirimiri Expn. OC
	2. Amlai Sector-B Extn. OC
<b>RI-VI</b>	3. Rajnagar Expn. OC
	4. Manikpur Expn. OC
	5. Rai Combined OC (XI Plan)
	6. Pelma OC (XI Plan)
	1. Jhingurda Bottom Seam OC
<b>RI-VII</b>	2. Semaria OC
	1. Lingraj Expansion OC (3.0 Mty Incr.) (XI Plan)

### ***Operation Plans***

<b>RI-I</b>	1. Rajmahal OC
	2. Sonepur-Bazari A OC
	3. Kottadih OC
	4. Chitra OC
<b>RI-III</b>	1. Rajrappa OC (Section-I)
<b>RI-IV</b>	1. Umrer OC
	2. Ghugus OC
	3. Sasti OC
<b>RI-V</b>	1. Kusmunda OC
<b>RI-VI</b>	1. Dudhichua OC
	2. Amlohri OC
	3. Nigahi OC
	4. Bina Extn. OC
	5. Jayant OC
	6. Khadia OC

### ***Other Reports***

<b>RI-I</b>	1. Blast vibration study at Bankola Patch OC
	2. Blast vibration study at Chora 7 & 9 Pit
	3. Energy audit scheme for Madhaipur UG Mine
	4. Conceptual Report on OC patch working through outsourcing of Bonjemehari OC
	5. Blast vibration study at Kenda West OC
	6. Blast vibration study at RJ unit of Bahula UG Mine
	7. Energy audit scheme for Chapapur UG Mine
	8. Blast vibration study at Tpsi Patch OC
	9. Blast vibration study at Simlong Patch OC
	10. Conceptual Report on Kalipahari (A) Extn.
	11. Conceptual Report on Bhaluka-II (Hansdiha)
	12. Blast vibration study at Rajpura OC
	13. Energy audit scheme for Chora 10 Pit UG Mine
<b>RI-II</b>	1. Scheme for multi-purpose utilisation system of surplus mine water for Area-I, II & III
	2. Scheme for dealing VII Seam fire at Godhur Colliery
	3. UCE for North Tisra / South Tisra (Expn.) OC
	4. Preparation of Global Tender Document (Technical Part) for outsourcing of all operations of PB Project on total turnkey basis
	5. Preparation of Global Tender Document (Technical Part) on total turnkey basis for production of coal from Madhuband Colliery

<b>RI-III</b>	6. Global Bid document for Moonidih XV seam (Technical Part)
<b>RI-IV</b>	1. Master Plan of North Karanpura Coalfield 2. Conceptual Note for integrated mining of Karo-Kargali-DRD mines 3. Subsidence prediction report for EMP of Sirka Mine 4. Annual Action Plan of Pachra OC
	1. Report on Ukni Deep OC (Revised) 2. Scheme for Navinkunada OC (Dept. Patch) 3. Global bid document for Dhankasa UG for Continuous Cutting Technology 4. Global bid document for Jamunia UG for Continuous Cutting Technology 5. Global bid document for Murpar UG for Continuous Cutting Technology 6. Global bid document for Borda UG for Continuous Cutting Technology 7. Scheme for Barkui OC 8. Scheme for Majri OC Sec. IA 9. Energy Audit Report (Electrical) with benchmarking for Patansaongi UG 10. Global bid document for Nand UG for Continuous Cutting Technology 11. Energy Audit Report (Diesel) with benchmarking for Pimpalgaon OC 12. Energy Audit Report (Electrical) with benchmarking for Murpar UG
<b>RI-V</b>	13. Energy Audit Report (Diesel) with benchmarking for Ghugus UG 1. UCE of Durgapur OC 2. Report on controlled blasting study at Dugga OC, SECL 3. Controlled blasting study at Kanchan OC, SECL 4. Scheme for modification of Bhatgaon CHP for introduction of secondary crushing arrangement 5. Controlled blasting study at West Chirimiri OC, SECL 6. Controlled blasting study at Rajnagar OC, SECL 7. UCE of Dipka OC (25 Mty) 8. UCE of Gevra OC (35 Mty) 9. Controlled blasting study at Mira Incline, SECL 10. Master Plan of Mand-Raigarh Coalfield 11. Controlled blasting study at Kurasia OC 12. Controlled blasting study at Chhal OC 13. UCE of Rajnagar OC RPR 14. Controlled blasting study at Birsinghpur UG 15. UCE of Durgapur OC 16. UCE of Chirimiri Expn. OC 17. Subsidence study on Kalyani-Shivani UG 18. Controlled blasting study at Durgapur OC 19. Scheme/Report for modification for the proposed CHP/Substation at Dhanpuri OC Sector 'D'
<b>RI-VI</b>	20. Controlled blasting study at B-seam UG 1. Scheme for outsourcing of OB at krishnashila OC (4 Mty) 2. Techno-economic study of Block-B OC (3.5 Mty) 3. Scheme for capacity augmentation of 132/33 kV Madhauri sub-station 4. Scheme for outsourcing of OB removal at Amlohri OC (10 Mty) 5. Scheme and NIT for construction of 50 nos. piezometers around NCL mines

**RI-VII**

6. UCE of Amlohri Expn. OC (10 Mty)
7. Mine Plan of Bina Extn. OC (7.5 Mty)
1. Master Plan of Talcher Coalfield
2. Road and Rail networking of Talcher Coalfield
3. Road and Rail networking of Ib Valley Coalfield
4. Master Plan of Ib Valley Coalfield
5. Mining Plan of Lajkura OC Expn. (2.5 Mty)
6. Mining Plan of Samaleswari OC Expn. (7.0 Mty)
7. Land use / land cover mapping of Talcher Coalfield based on satellite data (1:50000 scale)

**HQ**

8. Scheme for procurement of dozers for coal stock measurement
1. Report on survey off norms for SDL's and LHD's
2. Study report for suitable man riding system at Moonidih Project, BCCL
3. Controlled blasting & vibration study at Chhendipada OC
4. Controlled blasting & vibration study at Bharatpur OC
5. Scheme for installation of Apron Feeder and primary and secondary sizers at Kedla washery, CCL
6. Conceptual Report for washery at Wardha Valley, WCL
7. Conceptual Report for installation of NLW coal washery at Dugda, BCCL
8. Report on RMR and rock load of Damoda Colliery (IV/V/VI/VII Combined Seam), Lodna Colliery (VIII A Seam), Burragarh Colliery (X Seam) & AARC (AP Unit) (V Seam Top)
9. Land use/ land cover mapping of buffer zones of Adasa UG, Gauri I & II OC and Gondegaon OC of WCL
10. Preparation of technical specifications for manriding system for 5 mines in SECL
11. Land use/ land cover mapping of core and buffer zone of North & South Tisra OC and Viswakarma OC of BCCL
12. Scheme for installation of a deshaling plant at existing Madhuband washery for washing NLW coal
13. Controlled blasting & vibration study at Ledo OC, NEC
14. Controlled blasting & vibration study at Birsa OC, CCL
15. Study for replacement of locomotive transport system by belt conveyor in Talcher UG Project
16. Subsidence prediction study for Laiyo underground project, CCL
17. Report on RMR and rock load of Amalgamated Keshalpur West Mududih Colliery (0/I Seam), Bera Colliery (0 Seam), East Basuria Colliery (II Seam) & Basantimata Colliery (BP Seam) of BCCL
18. Land use/ land cover mapping of core and buffer zone of Dakra OC, Churi Benti UG, Kathara OC, Kuju UG and Laiyo OC of CCL
19. Controlled blasting & vibration study at Parej (E) OC, CCL
20. Scheme for mine water Effluent Treatment Plant (ETP) at Nigahi Project, NCL
21. Scheme for Effluent Treatment Plant (ETP) at Krishnashila Project, NCL
22. Enhancement of storage capacity of clean coal & washed coal power bunkers at Sawang Washery
23. Evaluation of EOI, Preparation of tender document and evaluation of technical bids for 7 mass production underground projects
24. Percentage availability, utilisation and productivity of SDL/LHD (UG mines)
25. Report on RMR and rock load of Simlabahal Colliery (IX/X

- Comb.Seam), Sendra Bansjora Colliery (VIII Seam), Katras Choitudih Colliery (VIII A Seam) & Kuya Colliery (0 Seam) of BCCL
26. Land use/ land cover mapping of core and buffer zone of Jarangdih OC, Govindpur OC and Argada OC of CCL
  27. Benchmarking of diesel consumption and fixation of equipment-wise diesel consumption norms in Urimari Mine of CCL
  28. Benchmarking of electrical consumption and fixation of electrical consumption norms in Padmapur Opencast Project of WCL
  29. Preparation of Conceptual Report and customisation of bid document for setting up of washery at Jagannath Area, Talcher Coalfield, MCL
  30. Gas survey of VIII & VII seam of Kuju Colliery, CCL
  31. Ventilation system design for Moonidih mine, BCCL
  32. Gas survey of Topa Colliery, CCL
  33. Global Tender for Salvaging, Rehabilitation and Operation of 18 abandoned/ derelict mines of CIL
  34. Report on provision of man winding through the skip shaft as second outlet for Talcher Colliery, Pit No.1, MCL
  35. Underground mine capacity assessment & utilisation of CIL Mines
  36. Report on RMR and rock load of Busserya Colliery (VII Seam), Burragarh Colliery (IX Seam), K.B. Colliery (XV Seam) of BCCL
  37. Mine capacity assessment of opencast mines of CIL during 2008-09
  38. Specific consumption of Diesel/Explosive and Power in opencast mines of CIL (2008-09)
  39. Performance of HEMM for 2008-09
  40. Controlled blasting & vibration study at Jharkhand OC, CCL
  41. Controlled blasting & vibration study at Pindra OC, CCL
  42. Land use/ land cover mapping of buffer zones of Hardole UG and Jamunia UG of WCL
  43. Land use/ land cover mapping of buffer zones of Sharda OC of SECL
  44. Land use/ land cover mapping of buffer zones of Topa Pindra UG, Urimari OC and Dhoru OC of CCL
  45. Technical feasibility of using electrical winder in Pit No.1 of Dhansar Mine, BCCL
  46. Gas survey at Burragarh Colliery, BCCL
  47. Benchmarking of annual minewise diesel consumption for identified 14 opencast mines of CCL
  48. Standard Price List for mining equipment
  49. Report on RMR and rock load of PBP Colliery (XI Seam), Lodna Colliery (IX/X Seam), New Akashkinaree Colliery (II Seam) of BCCL
  50. Subsidence prediction study for Jarangdih underground Colliery, CCL
  51. Land use/ land cover mapping of buffer zones of Chattarpur UG and Bhakhra UG of WCL
  52. Gas survey of seam-V of Damini UG mine, SECL
  53. Scientific study for coal extraction under Chuidhora village at Pawan Incline, SECL
  54. Report on RMR and rock load of Kuju Colliery (VII and VIII Seam) and Argada Colliery (Argada 'K' Seam) of CCL
  55. Benchmarking of annual minewise diesel consumption for identified 14 opencast mines of WCL

56. Benchmarking of annual minewise diesel consumption for identified 5 opencast mines of MCL
57. Benchmarking of annual minewise diesel consumption for identified 3 opencast mines of SECL
58. Benchmarking of electrical consumption and fixation of electrical consumption norms in Banki UG Mine of SECL
59. Study for replacement of existing CHP of KDH, CCL by Rapid Loading System
60. Gas survey of Dhelwadih Colliery, SECL
61. Report on RMR and rock load of Moira Colliery (R-VIII Top Seam), Chora Block Incline (R-VII Top Seam), Central Kajora Colliery (R-VIII Top Seam) and Amritnagar Colliery (R-VI Seam) of ECL
62. Land use/ land cover mapping of buffer zones of Pipla UG, Ghonsa OC, Patansongi UG and Chincholi OC of WCL
63. Benchmarking of annual minewise diesel consumption for identified 8 opencast mines of NCL
64. Benchmarking of annual minewise diesel consumption for identified 14 opencast mines of BCCL
65. Benchmarking of annual minewise diesel consumption for identified 9 opencast mines of ECL
66. Benchmarking of diesel consumption and fixation of diesel consumption norms in Kalyani & Karo-I Mines of CCL
67. Assessment of capacity for OC mines of CIL - Projections as on 1.4.2010
68. Preparation of integrated ETP at Block-B Project, NCL
69. Soil erosion study for Karma OC, CCL
70. Preparation of marginal scheme for opening an underground mine at Ledo Colliery, NEC
71. Gas survey of VI/VII seam of RK-1 & RK-2 incline of Pindra Colliery, CCL
72. Report on RMR and rock load of Moonidih Colliery (XVI B Seam), North Tisra Colliery (IV B Seam), Alkusa Colliery (IV Bott. Seam) and Joyrampur Colliery (VIII Seam) of BCCL
73. Report on RMR and rock load of Mine No.1 & 3, Kedla UG Project (V A Seam) of CCL
74. Preparation of conceptual report for Kusmunda washery (10 Mty), SECL
75. Land use/ land cover mapping of buffer zones of Gidi Religarha OC, Barkasayal OC, Ara Sarubera OC and Ray Bachra UG of CCL
76. Land use/ land cover mapping of buffer zone of Tirap OC of NEC
77. Land use/ land cover mapping of buffer zones of Pelma OC, Bagdeva UG and Kalyani UG of SECL
78. Land use/ land cover mapping of buffer zone of Kumberkhani UG of WCL
79. Land use/ vegetation cover mapping of Talcher and Ib Valley Coalfields of MCL
80. Land use/ vegetation cover mapping of Jharia Coalfield of BCCL
81. Land use/ vegetation cover mapping of Makum Coalfield of NEC
82. Identification of non-coal bearing site for setting up of 5 Mty capacity washery in Raigarh area of SECL
83. Filling up of voids of abandoned mines in CCL command area (61 voids in Hazaribagh Area)

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

1. Rai-Bachra UG, CCL
2. Lekhapani OCP, NEC
3. Laiyo UG, CCL

**RI-I/HQ**

1. Jhanjra UG
2. Bansra UG

**RI-III**

1. Govindpur Ph-II OC
2. Kathara OC
3. Kuju UG
4. Churi-Benti UG
5. Dakra OC
6. Jarangdih OC
7. Jarangdih UG
8. Sirka OC
9. Sirka UG
10. Argada UG
11. Urimari UG
12. Pindra UG
13. Pindra OC
14. Dhor OC
15. NS Dhor UG
16. Dhor Khas UG
17. Ara OC
18. Sarubera OC
19. Sarubera UG
20. Karo OC

**RI-IV**

1. Pipla UG Expn.
2. Patansaongi UG Expn.
3. Saoner UG Expn.
4. Jamunia UG
5. Adasa UG Expn.
6. Gauri I & II OC Expn.
7. Dhorwasa Expn. OC
8. Telwasa Expn. OC
9. Penganga OC
10. Dhuptala OC
11. Dinesh (Makardhokra) OC
12. Chincholi OC
13. RPR Ghonsa Expn. OC
14. Bellora-Naigaon Deep OC

**RI-V**

1. Kalyani Shivani UG
2. Batura OC
3. Sheetaladhara Kurja Kapildhara UG
4. Binkara UG
5. Churha UG
6. Balgi UG
7. Nawapara UG

**RI-VII**

1. Ananta OC Expn.
2. Lajkura OC Expn.

**FORM-I****HQ**Cluster-III Mines, BCCL

1. Jogidih UG
2. Maheshpur UG

**HQ/RI-I**

3. Block-IV Karaidih
4. Govindpur UG
5. New Akashkinaree UG
6. South Govindpur OC (closed mine)
7. Govindpur OC (closed mine)
- Cluster-IV Mines, BCCL
8. Salanpur UG
9. Katras Choitudih UG
10. West Munidih-Keshalpur UG
11. Ramkanali-Angarpathra UG
12. Gastlitand UG (closed mine)
1. Jhanjra UG
2. Bansra UG
3. Rangamati 'B' UG
4. Rangamati 'A' UG
- Cluster I Mines, ECL
5. Hariajam UG
6. Badjna UG
7. Chapapur-II UG
8. Khoodia UG
9. Lakhimata UG
10. Sampur-B UG
11. Mandman UG
12. Nirsa OC
13. Shyampur-A OC
14. Gopinathpur UG & OC (closed mine)
15. Kapasara UG (closed mine)
- Cluster II Mines, ECL
16. Kumardhubi UG
17. Barmuri OC
18. Rajpura OC
- Cluster III Mines, ECL
19. Dabor UG
20. Sangramgarh UG & OC
21. Bonjemehari UG & OC (closed mine)
22. Dalmia UG (closed mine)
- Cluster IV Mines, ECL
23. Gourangdih UG & OC
24. Khoirabad UG
- Cluster V Mines, ECL
25. Parbelia UG
26. Dubeswari UG
- Cluster VI Mines, ECL
27. Dhemomain Pit UG
28. Dhemomain Incline UG
29. Sodepur UG
30. Narsamuda UG
31. Patmohna UG
32. Chinakuri-I UG
33. Chinakuri-III UG
34. Bejdih UG
35. Methani UG
36. Sheetalpur UG (closed mine)
- Cluster VII Mines, ECL

37. Manoharbahal UG
38. Chakballavpur UG
39. West Bhanora UG
40. Barmondia UG (closed mine)
- Cluster VIII Mines, ECL
41. Ratibati UG
42. Chapuikhas UG
43. Sripur Incline UG
44. Tirath UG
45. Kuardih UG
46. Nimcha UG
47. Ghusick UG
48. Kalipahari UG
49. Ningah UG
50. Damra UG
- Cluster IX Mines, ECL
51. Mithapur UG
52. Satgram Incline UG
53. Sitaldasji OC
54. North Searsole UG
55. Jemehari UG
56. Mahabir UG (closed mine)
- Cluster X Mines, ECL
57. Belbaid UG
58. Parascole (E&W) UG
59. Jambad UG
60. Khas Kajora UG
61. Moira OC
62. Shankarpur OC
63. West Kenda OC
64. New Kenda UG
65. Lower Kenda UG
66. CL Jambad UG
67. Bahula UG
68. Madhusudanpur UG
69. Madhabpur UG
70. Lachipur UG
71. Central Kajora UG
72. Chora 10 Pit UG
73. Chora 7&9 Pit UG
74. Parasea 6&7 UG
75. Haripur UG
76. Krishnanagar UG (closed mine)
77. Madhujore UG (closed mine)
78. Ghansyam UG (closed mine)
- Cluster XI Mines, ECL
79. Pandaveswar UG
80. Dalurband UG
81. Manderboni UG
82. South Samla UG
83. Madhaipur UG
84. Nutandanga UG (closed mine)
85. Kendra UG (closed mine)
86. Samla UG (closed mine)



**RI-II**Cluster-XIII Mines, BCCL

1. Murulidih 20/21 Pit UG
2. Bhurungiya UG (closed mine)
3. Muchriadih UG (closed mine)
4. Hantoodih UG (closed mine)
5. Padugora UG (closed mine)
6. Murulidih OC (closed mine)
7. Bhatdih UG (closed mine)

Cluster-XIV Mines, BCCL

8. Lohapatty UG
9. Lohapatty OC

Cluster-XVI Mines, BCCL

10. Basantimata UG
11. Dahibari OC
12. New Laikdih OC (closed mine)
13. Laikdih Deep UG (closed mine)
14. Chanch UG (closed mine)

Cluster-XVII Mines, BCCL

15. Begunia UG
  16. Victoria West UG
  17. Victoria UG
1. Tetariakhar OC
  2. Parej East UG
  3. Kedla EPR OC
  4. Ashok West Expn. OC
  5. Godo OC
  6. DRD OC
  7. Piparwar-Mangardaha UG
  8. Koed/Manatu OC
  9. Parej West OC
  10. Pachra Integrated OC
  11. Central Saunda UG
  12. Saunda UG
  13. Sayal D UG
  14. Karo OC

**RI-III****RI-IV**

1. RPR Ghonsa OC
2. RPR Kolgaon OC
3. Ukni Extn. Deep OC
4. Bellora/Naigaon Deep OC

**RI-VI**

1. Jayant OC
2. Bina OC
3. Dudhichua OC

**RI-VII**

1. Lingraj Expn. OC

## **2.1 COAL & MINERAL PREPARATION**

Coal & Mineral Preparation Division offers a broad spectrum of technology services ranging from concept to commissioning of Coal Washeries, Mineral Beneficiation Plants and Modification / Modernisation of existing plants. The broad technological services encompass exhaustive laboratory studies, project report preparation and project planning, detail design, construction management and wide range of R&D activities.

Coal & Mineral Preparation Division 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 “. Some of the esteemed customers on CMP division’s roster are MPEB, PSEB, BHEL, NTPC, TISCO, ICMPL, UNDP, MOIL, SCCL and many more.

The following major works have been completed during the year 2009-10:

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

- ❑ Conceptual Report for setting up of Kusmunda washery, SECL on BOM basis in non-coking coal sector with enhance capacity from 5.0 Mty to 10.0 Mty.
- ❑ Conceptual Report for setting up of Dugda washery, BCCL on BOM basis in NLW coal sector
- ❑ Conceptual Report for setting up of Dahibari washery, BCCL on BOM basis in NLW coal sector.
- ❑ Conceptual Report for setting up of Jagannath washery, MCL on BOM basis in non-coking coal sector.
- ❑ Conceptual Report for setting up of Wardha washery, CCL on BOM basis in non-coking coal sector.
- ❑ Conceptual Report for setting up of Sonepur Bazari washery, ECL on BOM basis in non-coking coal sector.
- ❑ Conceptual Report for setting up of Lakhanpur washery, MCL on BOM basis in non-coking coal sector.
- ❑ Conceptual Report for setting up of DRD washery, CCL in coking coal sector.
- ❑ Conceptual Report for setting up of Siarmal washery, MCL in non-coking coal sector.
- ❑ Final Report on installation of Deshaling plant at existing Madhuband washery, BCCL for washing NLW coal.

- ❑ Updating of estimated cost with respect to scheme of installation of Spiral Concentrator Plant at Nandan washery.
- ❑ 16 (sixteen) nos. of Reports on Development of data bank for CIL washeries for the year 2008-09.
- ❑ Preparation of process chapter of EIA/ EMP document for Ashok Washery, CCL.
- ❑ Preparation of Scheme for installation of Apron feeder and secondary sizers at Kedla washery, CCL.
- ❑ Preparation of Integrated Report for modification of Sawang washery, CCL including construction of floatation section.

## **B. TENDER DOCUMENT**

- ❑ Customization of Bid Document for Dugda washery, BCCL on BOM concept in NLW coal sector.
- ❑ Customization of Bid Document for Jagannath washery, MCL on BOM concept in non-coking coal sector.
- ❑ Tender Specification Document for modification scheme of Gidi washery, CCL on turn-key basis.
- ❑ Tender Specification Document for operation & maintenance of Bina washery, NCL.
- ❑ Preparation of Tender Specification Document for installation of Apron feeder and secondary sizers at Kedla washery, CCL.
- ❑ Preparation of Tender Specification Document for installation of Spiral Concentrator plant at Nandan washery, WCL.
- ❑ Preparation of Tender Specification Document for replacement of coarse coal & fine coal jigs at Nandan washery, WCL.
- ❑ Preparation of Tender Specification Document for construction of additional bunkers at Sawang washery, CCL.
- ❑ Customization of Bid Document for Dahibari washery, BCCL on BOM concept in NLW coal sector.

## **C. TENDER SCRUTINY**

- ❑ Evaluation of RFQ, RFP and Price Bid of Madhuband washery.
- ❑ Evaluation of RFQ of Ashok washery.
- ❑ Evaluation of RFQ of Patherdih washery
- ❑ Evaluation of RFP and Price Bid of Basundhara washery
- ❑ Evaluation of RFQ of Dugda washery

#### **D. R&D AND S&T PROJECTS**

- ❑ Preparation of Agreement between Sharpe International, USA & CMPDI, India for development of coal washing simulator under Indo-US.
- ❑ Amendment of Agreement for development of coal washing simulator under Indo-US.
- ❑ Preparation of Tender Document for installation of spiral concentrator at Moonidih washery, BCCL.
- ❑ Preparation of draft Agreement between Virginia Tech, USA & CMPDI, India for the project “fine coal beneficiation and recovery”.

#### **E. OUTSIDE CONSULTANCY**

- ❑ Updating of estimated cost with respect to report of installation of washery at Tasra.
- ❑ Conceptual Report for setting up of Baiterini West washery, Non-CIL in non-coking coal sector.
- ❑ Preparation of process chapter of EIA/ EMP document for Baiterini West washery, Non-CIL

### **2.2 PROJECT APPRAISAL**

1. Scrutiny and appraisal of 30 nos. of draft PRs /EPRs prepared by Regional Institutes of CMPDI during the year 2009-10, 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.100 crs., especially with respect to actions under CMPDI's responsibility, for Secretary(Coal) Review meeting held quarterly.
3. Updation of status of X & XI Plan projects with respect to actions under CMPDI's responsibility, for the Secretary (Coal) Review meeting held quarterly.

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

#### **3.1 Underground Mining**

The following jobs were completed and are in progress during the year 2009-10

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

1. Design of vertical shaft for Munsar & Ukwa mines of MOIL
2. Consultancy services for enhancement of production at Jitpur colliery, ISP SAIL (Phase-II).
3. Preparation of EOI, Bid document & vetting of designs for construction equipping & furnishing of new shaft at Hutti Gold mines.
4. Preparation of DPR for Gare-III sub block of Gare Pelma sector, Raigarh coalfields, C.G.

5. Preparation of mining plan for Begunia seam of Mahtadih - Raidih of Ramnagar colliery, IISCO.

**B. CIL JOBS :**

1. Survey off norms for SDL's and LHD's.
2. Scheme for man riding system at Moonidih Project, BCCL.
3. Preparation of tender documents & design drawings of incline mouths & incline supports for Dhansar, Damogoria and Bansdeopur colliery BCCL.
4. Scheme for improvement of face voltage at Hingir Rampur mine.
5. Ventilation system design for Churcha (East) & Churcha (West) colliery, SECL.
6. Project report for Ratibati (Radhamadhavpur), ECL.
7. Technical specifications for man riding system for 5 mines in SECL.
8. Detailed designs, estimate and NIT for construction of proposed inclines and under ground supports for Parej East Inclines, CCL.
9. Scheme for replacement of locomotive transport system by belt conveyor in Talcher under ground project.
10. Percentage availability utilisation & productivity of under ground mines (LHD & SDL).
11. Evaluation of EOI and preparation of Tender document for 7 mass production under ground projects.
12. Ventilation system design for Moonidih mine, BCCL.
13. Gas survey of VIII & VII seam of Kuju colliery, CCL.
14. Gas survey of Topa colliery, CCL.
15. Design of stowing bunker for depillaring of top section detailing the stowing profiles for Talcher colliery, MCL.
16. Global tenders for salvaging, rehabilitation and operation of 18 abandoned / derelict mines of CIL.
17. Report for provision of man winding through the skip shaft as second outlet for Talcher colliery, pit no.1, MCL.
18. Underground mine capacity assessment & utilisation of CIL mines.
19. Technical feasibility of using electrical winder in pit no.1 of Dhansar mine, BCCL.
20. Project report for Nimcha under ground project, ECL.
21. Gas survey of Burragarh colliery, BCCL.

22. Updated Cost estimate of Natraj air shaft.
23. Technical study for installation of 2nd main mechanical ventilator (MMV) in parallel to existing MMV in Kapildhara under ground mine, SECL.
24. Standard Price List for mining equipment.
25. Gas survey of seam-V of Damini under ground mine, SECL.
26. Revised scheme for manriding at Moonidih Project.
27. Detailed design of air shaft of Ketki under ground mine, SECL.
28. Gas survey of Dhelwadih colliery, SECL.
29. Preparation of standardized global bid for deployment of CM, PSLW and high speed incline drivage and shaft sinking.
30. Preparation of marginal scheme for opening an under ground mine at Ledo colliery, NEC.
31. Modification of evasee at Manna Incline, Chandrapur Area, WCL.
32. Report for Technical Feasibility of Man Riding System in R-VI seam of Jhanjra Project, ECL.
33. Gas survey of VI/VII seam of RK-1 & RK-2 incline of Pindra Colliery, CCL.
34. Ventilation survey of Mahakali Colliery, WCL.
35. Stability analysis of permanent headframe, Pit no.1&2 for Kunustoria mine, ECL
36. Monitoring of EMSC Schemes.

### **3.2 OPENCAST MINING**

#### **A. JOBS COMPLETED DURING 2009-10**

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

1. Updating the Cost Estimates for Bithnok OC Lignite Project, M/s NLC
2. Feasibility Report, PQ OCP, NEC
3. Updated Cost Estimates for Hadla OC Lignite Project, M/s NLC
4. Updated Cost Estimates for Integrated Mine & Washery for Tasra OC, M/s SAIL

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

1. Feasibility Report for Tipong OCP, NEC
2. Updated Cost Estimates, Chuperbhita OCP (4.0 Mty), ECL

3. Updated Cost Estimates, Hura 'C' OCP, ECL (3.0 Mty)
4. PR, Balaram Expansion (20 Mty) (12 Mty Incremental), MCL

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

1. Assessment of capacity of all the opencast mines of CIL
2. Performance analysis of HEMM deployed in OC mines of CIL
3. Technical Specifications of Simulator for HEMM, CCL
4. Standard NIT for High Capacity HEMM with MARC, CIL
5. Criteria for Vendor Rating for purchase of Equipment (HEMM)
6. Note on "Infrastructure Development (Rail, Road & Power) for Ib valley & Talcher Coalfield, NK Coalfield and Mand Raigarh Coalfield" for MoC/CIL
7. Technical scrutiny of Project Reports.

## **B. JOBS IN PROGRESS**

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

1. Mining Plan, Palana Lignite OCP, M/s NLC
2. Feasibility Report, Palana Lignite OCP, M/s NLC
3. DPR, Gare – III OCP, M/s GIDC
4. DPR, Mahan OCP, M/s Mahan Coal Co.Ltd.(Essar & Hindalco)
5. Project Cost Estimates, Pakri Barwadih OCP (15 Mty), NTPC

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

1. 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 2009-10 under review:**

- i. Structural design scrutiny of Dudhichua Second Silo and associated structures with a 3000 MT capacity loading silo for RLS system and associated single/ double conveyor gantries and their supporting structures, different drive houses & transfer houses.

- ii. Assessing workability soundness of 8 Major CHPs namely Bina, Khadia, Jayant, Kakri, Nigahi, Amlohri, Dudhichua and Jhingurdah of NCL and Tawa-II CHP of WCL after addressing necessary refurbishing based on visual inspection.
- iii. Design of Bhanegaon, Makardhokra and Hirdaghar CHPs of WCL
- iv. Interior Design and Air-conditioning Scheme for Nehru Sanskritik Kendra of CCL at Jawahar Nagar
- v. Preparation of NIT and evaluation of tender for relocation of Anandwan camp near Durgapur Colony of WCL.
- vi. Preparation of NIT and evaluation of tender for the proposed Office Building at RI-VII Bhubaneswar.
- vii. Design of Office building, environmental laboratory and coal testing laboratory at RI-V.
- viii. Tendering & Award of the work of 'Construction of CHP, Phase-II, Amlohri project
- ix. Turnkey Tender Documents for Nigahi extension Workshop of NCL.
- x. Civil chapter for preparation of Turnkey Tender Documents for Augmentation of existing OB sub-station Tapovan and coal sub-station at Amlorhi OCP by addition of 1 no. 10 MVA 33/6-6 KV Transformer in OB Sub-station (Tapovan) & 1 no. of MVA 33/6.6 KV transformer in coal sub station and shifting central sub-station of Jayant and Duchichua OCPs at NCL
- xi. EPR with provision of non-ferrous casting arrangement for CWS, Jayant, NCL. Draft report submitted to NCL.
- xii. Design of 2000 cum. capacity ground water tank for SECL
- xiii. Design of sports complex at Dipka area
- xiv. Civil Engineering chapter for Feasibility Report of PQ OCP/NEC
- xv. Preparation of Surface Master plan for Moher & Moher-Amlori extension coal mine in Singrauli dist.
- xvi. Vetting of Project Reports (15 numbers) prepared by different Regional Institutes.
- xvii. Civil Engineering chapter for Project Report of Gare - III of Gare Palma sector Raigarh for Goa Industrial Corporation, Balaram Expansion (including Kalinga West & Part of Konark block) 15.0 Mty, 7.00 Mty incremental) of MCL
- xviii. Updating of Integrated Detailed Project Report for mining and Feasibility Report for Coal washery of Tasra OCP
- xix. Renovation work at CMPDI(HQ)



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

### **4.2.1 Outside Consultancy**

CMPDI has been awarded the following jobs of NTPC, GMDC and Manganese Ore India Limited (MOIL) during the last financial year :

- Mine infrastructure facility (CHP, Power supply, Maintenance facility & Pumping) planning for project cost estimate of Pakri-Barwadih coal project of NTPC.
- Mine infrastructure facility (CHP, Power supply, Maintenance facility & Pumping) planning for DPR of Gare-III OCP of GMDC.
- NDT for two (2) nos. of winders and two sets of case suspension gear components in one (1) mine of MOIL has been conducted and the reports were prepared and submitted.

### **4.2.2 Energy Audit and Benchmarking**

- Reports on Benchmarking of diesel consumption and fixation of equipment wise diesel consumption norms for 2 mines of CCL and 2 mines of MCL were prepared.
- Reports on Benchmarking of electrical energy consumption for 1 opencast mine of MCL was prepared.
- Reports on Benchmarking of electrical energy consumption for 3 U/G mines of SECL were prepared.
- Reports on annual benchmarking of diesel consumption of 70 identified OCPs of CIL were prepared.

### **4.2.3 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 97.18 lakhs during 2009-10.

### **4.2.4 NIT for Power supply & distribution and control system**

- NIT for shifting of 2 sub-stations of NCL.
- NIT for modification/ upgradation of existing fire fighting system of 1 CHP of NCL
- NIT for augmentation of 1 OB sub-station of NCL.

### **4.2.5 Other Studies**

- Conceptual report for 3 x 67.5 MW FBC based power plant of SECL.
- Tendering, evaluation, finalisation and recommendation for award for the work of construction of CHP, Ph-II at Amlohri OCP
- Techno economic study on replacement of existing pay loader loading by silo/chute loading system in K.D. Hesalong OCP, CCL
- Feasibility study for installation of a new cross country conveyor (1.3 m long) parallel to the existing C-4 belt conveyor of Bharatpur CHP.
- Techno-economic study of augmentation of 132/33 kV sub-station of UPPCL for NCL.

- Mine infrastructure facility (CHP, Power supply, Maintenance facility & Pumping) planning for EPR of Balaram OCP of MCL and FR of PQ OCP of NEC.
- Scrutiny of drawings for Dudhichua RLS with second silo and associated conveyor and Nigahi CHP (Package-B)
- Model bid document for setting up of FBC based power plant on BOO and BOM basis in CIL.
- NDT of Dragline (9 nos)/ Winders (8 nos) /Cage suspension gear (2 sets) of 10 mines of CIL.

## **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. CMPDI 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 31.03.2010)	-	366
Total no. of S&T projects completed (till 31.03.2010)	-	287

4. Physical and financial performance during 2009 -10

### 5.1.1 Physical performance

During the Xth Plan Period a total of 51 projects have been completed by various agencies

The status of Coal S&T projects during 2009 -10:

Projects on-going as on 1.4.2009	-	28
Projects sanctioned by GoI during 2009-10	-	07
Projects completed during 2009 -10	-	10
Project terminated/Foreclosure during 2009 -10		02
Projects on-going as on 1.4.2010	-	23

\* List of projects completed during 2009-10 is enclosed as Annexure – A.

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

( Rs in Crores)			
2008 - 09		2009 - 10	
RE	Actual	RE	Actual
10.00	10.52	11.00	11.63(un-audited)

### 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. 5.0 Cr and Rs. 25.0 Cr per annum considering all the projects together. CIL R&D Board which earlier had the power to sanction individual project up to 10.0 Cr can now sanction individual project up to 50.0 Cr . Altogether CIL R&D Board can now sanction research projects up to 500.0Cr in a year. So far, 50 projects have been taken up under the funds of CIL R&D Board out of which 29 projects have been completed.

The status of CIL R&D Board Projects during 2009-10:

i)	Projects on-going as on 1.4.2009	-	16
ii)	Projects sanctioned during 2009-10	-	09
iii)	Projects completed during 2009-10	-	04
iv)	Projects terminated during 2009 -10	-	01
v)	Projects on-going as on 1.4.2010	-	20

\* List of projects completed during 2009-10 is enclosed as Annexure – B.

Total disbursement of fund to CIL R&D projects during 2009-10 is Rs. 25.799 Cr, which is over and above the total disbursement of Rs. 13.79 Cr, made during 2008-09.

**ANNEXURE - A****List of Completed Projects During 2009 - 10****(Rs in lakh)**

<b>Sl. No.</b>	<b>Name of the project</b>	<b>Implementing Agency</b>	<b>Financial Outlay</b>
1	Indigenous development of prototype longwall supports (Chock-shield) - MT/143	SCCL & APHMEL, Vijayawada	228.47 S&T Grant - 197.97 Cont. SCCL - 30.50
2	Development of a micro-seismic monitoring system for stability analysis of UG mine workings under "difficult to cave" roof conditions - MT/145	CMRI & ECL	47.849
3	Characterisation of rock and explosive parameters for optimal explosive energy utilisation in opencast blasting - MT/146	CIMFR & CMPDI	270.37 For CMPDI - 206.15 For C - 64.22
4	Coal bed methane recovery and its commercial utilisation - CE/27	CMPDI & BCCL	9242.7 UNDP/GEF - 4143.70 UNDP/India - CCF-545.10 ONGC Co-Sharing - 1215.70 GoI Cash (S&T Grant) - 1805.80 GoI Kind - 699.40 Part of the Revenue - 833.0 Cost met out of the income generated from the project
5	Hydrogeological studies for control of ground water for safe and economic mining of lignite deposits in Nagaur Dist of Rajasthan - CE/28	RSMML, Udaipur	182.12 S&T Grant - 145.696 Cont. RSMML - 36.424
6	Agglomeration formation in reducing condition in pressurised fluidised bed gasification (PFBG) with Low rank high ash coals - CU/48	CIMFR, CET, Osmania Univ. & CMPDI	338.58 For CIMFR - 283.48 For CET(OU) - 42.71 For CMPDI - 12.39
7	Pulse detonation combustion of coal for energy applications - CU/53	IISc, Bangalore	22.60

8	Investigation into low cost liner for disposal of coal ash in abandoned opencast mine - EE/34	CIMFR	44.14
9	Survey and ecological conservation of NLC environment through bio-remediation with tree species - EE/37	NLC & TNAU	77.87166 For NLC - 25.30 For TNAU - 52.57166
10	Low cost input technology for re-vegetation of coal mine spoils in order to protect the environment - EE/38	T M Bhagalpur University, MCL & NCL	26.263

## ANNEXURE - B

### List of Completed R&D Projects during 2009-10

Sl. No	Name of the Project	Implementing Agency	(Rs. in lakh)
			Approved Outlays
1	Technical study for old & active OB dumps of open cast mines in WCL to determine stability characteristics and dimensional parameters Code No: CIL/R&D/1/21/05	IIT Kgp./ WCL	359.65
2	Investigation on augmentation of life of dump truck tyres through the improvement of tyre retreading compound and development of an optimum road maintenance management system. Code No: CIL/R&D/1/22/05	IIT Kgp/ ECL/NCL	148.69
3	Development of methodology for rapid volumetric analysis of excavated insitu overburden integrating high resolution satellite, air borne laser scanner data supported with ETS through digital photogrammetric technique. Code No: CIL/R&D/1/24/06	CMPDIL/ NRSA	388.00
4	Exploration and determination of coal fire hot spots to prepare the strategy to put off the fire in Nimcha & Samdih mines. Code No: CIL/R&D/1/29/08	ECL / Ms DMT- Avantika , Hyderabad	444.23

## 6.0 LABORATORY SERVICES

**6.1 Chemical Laboratory:** During 2009-10, characterization of coal from core samples generated in 19 blocks explored by CMPDI and 10 boreholes selected for CBM studies was carried out. A total of 7403m of coal cores were processed and 16,338 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, RI-V, Bilaspur and RI-VII, Bhubaneswar, actions have been taken to implement the project. Tenders for procurement of equipments for HQ lab are under finalization.

**6.2 Coal Petrography Laboratory:** During 2009-10, the laboratory has undertaken Petrographic study (vitrinite reflectance and maceral analysis), minerals in coal through XRD and shape/size study & cleat analysis through SEM on 589 coal samples from different blocks covering ten coalfields (including CIL, Non-CIL, Promotional, CBM and JV Blocks). Two coal sample were also studied as part of outside consultancy job for M/s J. B. Boda Pvt. Ltd. Systematic characterization of coal of raw and clean coal samples (washery product) from BCCL, CCL and WCL area has also been carried out during the year.

Comprehensive technical reports on petrography, cleat & mineralization data on coal samples from promotional blocks explored in X & XI Plan and for DGH were prepared for CBM assessment.

Two technical papers entitled "Use of LVMC coals in BF coke making to improve availability of Indian coking coals" & "Value addition to LVMC coal - A case study by CMPDI" were prepared and presented in Asian Mining Congress, Kolkata & Coal Preparation Society of India, New-Delhi, respectively. All four officers working in Coal Petrography Lab. of CMPDI cleared SCAP (Single Coal Accreditation Programme) and DOMVR (Dispersed Organic matter, vitrinite reflectance) Exercise organized by ICCP (International Committee on Coal & Organic petrology) during the year.

### **6.3 Mining Laboratory**

Mining Laboratory caters for the jobs related with rock mechanics, strata control and subsidence. Following jobs were carried out during 2009-10.

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

Tests were conducted on 1584.84m length of drill core samples for determination of physico-mechanical properties.

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

- i) Tests were conducted on 45 roof rock samples from various mines of CIL for determination of strength properties, slake durability index and density. RMR studies for 31 mines/districts of CIL have been completed and reports submitted.
- ii) Subsidence prediction report of 1 mine of CIL is under progress. Subsidence prediction reports of 3 mines were prepared for three underground mines of CIL.

### **6.4 Coal Preparation Laboratory**

The coal preparation laboratory has carried out washability tests as detailed below:

- ❑ Washability testing of 5 (five) samples (Kalimati, Bridabanpur, N. Tisra-IV, Gondudih-II, from BCCL mines.
- ❑ Washability testing of 1 (two) sample (Lakhanpur) from MCL mines.
- ❑ Washability testing of 1 (one) sample (Sonepur Bazari) from ECL mines.
- ❑ Washability testing of 1 (one) sample (Rohini) from CCL mines.
- ❑ Washability testing of 1 (one) sample (Kargali seam) from CCL mines.
- ❑ Washability testing of 21 (twenty one) samples from Bore core of RI-III.

- Washability testing of 1 (one) sample (Lingaraj seam) from MCL mines.
- Washability testing of 19 (nineteen) samples from Bore core of RI-III.

## **6.5 ACTIVITIES TAKEN UP BY COALBED METHANE (CBM) LABORATORY**

CBM Lab has carried out the field desorption study at the borehole sites for 14 boreholes and has generated total gas content and gas composition data. In addition, 538 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 prepared Form-1 for 137 projects and formulated 48 nos. of Draft EMPs for subsidiary companies of CIL.

### **7.2 Standard format of EIA/EMP**

In order to bring in uniformity in preparation of EIA/EMP report, a standard format both for opencast and underground coal mines was prepared on the basis of EIA Notification, 2006 issued by Ministry of Environment & Forests, Government of India.

### **7.3 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 up at the project level during their operational phase. During 2009-10, environmental monitoring work of 269 projects/establishments of CIL (ECL-22, CCL-60, WCL-80, SECL-69, NCL-13 and MCL-25) was carried out by CMPDI through six environmental laboratories located at Asansol, Nagpur, Kusmunda, Hasdeo, Jayant, Bhubneshwar and Ranchi.

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

Keeping in view the principle of providing state-of-the-art environmental monitoring facilities to subsidiaries of CIL, implementation of schemes approved by CMPDI Board for environmental laboratories at Regional Institute-IV, Nagpur and Regional Institute-V, Bilaspur was taken up. The laboratory at Regional Institute-VII, Bhubneshwar has started functioning for air quality analysis of mines of MCL.

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

An integrated effluent treatment plant (ETP) scheme for Block-B Opencast Project (4.375 MTY) of NCL was planned and designed to treat the effluent from mine, CHP and workshop. The capacity of the ETP is to treat 1128 m<sup>3</sup>/hr of the effluent. A clear water reservoir was also included in the ETP circuit to facilitate reuse of the treated water to the extent possible.

### **7.6 Development of Mine Closure Guidelines**

CMPDI has provided technical support to Ministry of Coal (MoC) for preparation of mine closure guidelines related to coal & lignite mining sector. On the basis of CMPDI's input,



MoC has finalized and circulated mine closure guidelines. Environment Department has prepared a standard format for mine closure plan to bring in uniformity in formulating mine closure plans for underground and opencast projects.

### **7.7 Celebration of World Environment Day**

The World Environment Day was celebrated on 5<sup>th</sup> June, 2009. 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 Staff Training College (STC) and old office building. The foundation stone of the scheme was laid on 5<sup>th</sup> June, 2009 (World Environment Day). This scheme is now completed.

### **7.8 S&T Projects**

- An 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. The project is in progress.
- An 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 taken up. Planning & design of the treatment system has been completed and project is under implementation.

### **7.9 Best Performance Award**

The HQ Environmental Laboratory was adjudged the best amongst all the laboratories of CMPDI for the year 2008-09. The trophy for the best performance was presented to the Department on CIL Foundation Day *i.e.* on 15.11.2009.

### **7.10 Technical papers**

Following four technical papers have been contributed and presented:

- Clean Development Mechanism (CDM) for Green Mining, Paper presented on 5th June, 2009 at ATI Building on the occasion of World Environment Day by Goel J.K., Singh N.K
- Impact of Mining on Environment & Its Management in Jharkhand State on 11.9.2009 in CII Conference on "Coal & Beyond" Hotel Capital Hill, Ranchi by Goel J.K., Singh N.K., Pandey V.K.
- Clean Coal Production Technologies for Sustainable Development - Paper for National Seminar on Clean Production Technologies at NITTTR, Chandigarh (17-18 Nov, 2009) by Goel J.K., Pandey V.K.
- Mine Closure- Global and Indian Perspective by Debnath A.K. & Shekhar S. – Paper for 3<sup>rd</sup> Asian Mining Congress, 22-25 January, 2010, Kolkata

### **7.11 Use of Hindi in Office**

The Environment Division was declared as the best performer for use of Hindi in office for the year 2008-09 and was presented the “**Rajbhasha Adhyaksha Shield**”.

## **8.0 INFORMATION COMMUNICATION TECHNOLOGY**

### **Activities / Jobs Completed**

1. Integrated Information System for Central Coalfields Ltd.
2. MPLS – VPN Wide Area Network of CMPDI(HQ) with Regional Institutes for video, voice data communication and Internet facilities. IT capacity was augmented by adding 6 HP Blade Servers with a SAN Storage of 5 TB and a backup capacity of tape library.

Unified Threat Management has been installed at all Regional Institutes as well as headquarters for Network Security from external and internal threats.

Network licenses for MINEX, AutoCAD, Galena and Antivirus are served across the MPLS Network for users using these applications at Regional Institutes and headquarters

3. Installation, commissioning and migration of Windows based Servers to HP Blade Servers SUSE Linux OS.
4. Migration of Mail Boxes from Exchange Server to Scalix Mail Server.

### **Work in progress:**

1. Spatial data preparation of CCL Land Information System projects.
2. Design & development of Online Executive Information System for CIL.
3. Creation of Digital Archive for Final GR / PR and Internet FTP sites.
4. Upkeepment and upgradation of website of BCCL.

## **8.1 INFORMATION MANAGEMENT SYSTEM**

Funded as Coal India R&D project, e-Library has been setup at CMPDIL premises, which offers single point search engine to Coal India's employees 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 on coal mining, the e-Information Centre at CMPDIL has been a step towards facilitating ready access to encapsulated information on Coal Mining.

State of the art technology has been used for the creation of digital library and knowledge management.

## **9.0 SPECIALISED SERVICES**

### **9.1 Geomatics**

Geomatics Division provides services in the field of remote sensing and survey for satellite surveillance of OC projects for land reclamation monitoring, geostructural mapping, siting of power stations, washery and environmental baseline data generation for land and vegetation cover, topographical survey, overburden and coal excavation measurement, underground mine correlation survey etc.

### 9.1.1 Remote Sensing

- (i) Satellite surveillance of 49 OC projects producing more than 5 million cu. m. (coal + OB) together have been taken up for land restoration/reclamation monitoring regularly on annual basis. During the year 2009-10 altogether 61 OC projects (49 projects based on satellite data of the year 2009 and balance 12 projects based on the satellite data of the year 2008) have been completed for WCL, SECL, NCL, MCL, CCL, BCCL and ECL.
- (ii) 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.
  - East Bokaro
  - West Bokaro
  - Talcher
  - Ib Valley
  - Makum
  - Jharia
- (iii) For compliance of the MoEF stipulations, digital image processing of satellite data in the leasehold area of 8 underground projects viz. Vishnupuri, Wagoda, Makardhokara-II, Gajandho, Tawa-II U/G, Satpura-II U/G, Sobhapur, Sarni U/G and 2 OC projects of ECL viz. Hurra 'C' & Chuperbhita have been completed during the year 2009-10.
- (iv) Site selection for setting up of Baroud washery in Mand-Raigarh coalfield based on remote sensing and GIS are completed.
- (v) Land use/cover mapping of core and buffer zone for 43 coal mining projects (CCL: 15, SECL: 10, WCL: 16, NEC: 2) based on satellite data have been completed for environmental management planning.
- (vi) Identification of mine voids in Hazaribagh 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.
- (vii) 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 data will be acquired after getting the Ministry of Defence clearance.
- (viii) Siting of thermal power stations in the States of Haryana and M.P. based on remote sensing data and GIS has been carried out for Central Electricity Authority, Ministry of Power, Govt. of India.
- (ix) Land reclamation monitoring of TISCO colliery, West Bokaro coalfields have been carried out for TISCO for compliance of MoEF stipulations.

- (x) CIL R&D project titled "*Development of methodology for rapid photogrammetric analysis for excavated in situ OB integrating satellite on ALTM and TLS using digital photogrammetric techniques*" have been completed in collaboration with NRSC, Hyderabad.
- (xi) An exercise for delineating the 'Go' and 'No Go' areas for coal exploration/mining has been carried out in association with Forest Survey of India, Dehradun.

### **9.1.2 SURVEY WORK**

**Major survey work completed by CMPDI during the year 2009-10 are as follows:**

1. Periodic OBR check measurement :- carried out for 39 OC mines (5 in BCCL, 6 in WCL, 8 in SECL, 8 in NCL, 2 in NEC & 10 in MCL)
2. Outsourcing/ contractual OC patch survey :- conducted 71 measurement in 57 outsourcing OC patches (21 in ECL, 12 in CCL, 21 in SECL & 3 in MCL)
3. Filling of voids of abandoned mines of CCL command area:- carried out survey work of 71 voids & 14 dumps in Hazaribag Area, CCL & its report submitted
4. Correlation survey of UG mines:- carried out in 3 pits of PB Area, BCCL
5. GPS survey for connecting survey stations at Gidi & Chano Rikba Block, North Karanpura Coalfields, CCL
6. GPS survey for connecting stations & detailed surface survey by ETS:- Kartali & Ambika blocks of SECL.
7. Connecting coal blocks with national grid under ICRIS project :- 26 Blocks (24 in ECL, 2 in WCL)
8. Data transfer from local grid to Coal grid for ICRIS project for zone I to VII:- completed in 60 blocks of WCL.
9. Surface features survey of road/ Nalla/ HT line:- 25 line kms. in WCL.
10. Survey for Geophysical work:- 10 line kms. In WCL
11. Resistivity survey:- 2 line Kms in MCL.
12. Surface contouring :- 2 Sq Km in WCL.
13. Dump survey in NCL mines:- carried out 11 measurements.
14. Measurement of rejects:- Bina OCP (near discharge chute), NCL.
15. Campus survey of CMPDI, Ranchi
16. Coal stock measurement for CIL:- Blk. IV/ Kooridih Colliery, BCCL
17. Coal Stock measurement for CBI:- carried out in CCL & BCCL as requisitioned by CBI.
18. Annual Coal Stock measurement in different Coal Cos. :- as per directive of CIL

## Summary of Survey work done during 09-10

	Periodic OBR survey		OC Patch		Exploration	Misc.
	No. of mines	No. of survey	No. of Patches	No. of survey		
<b>HQ - S&amp;D Deptt</b>	14	14	1	1	-	<ol style="list-style-type: none"> <li>1. Filling of voids of abandoned mines of CCL command area- carried out survey work of 71 voids &amp; 14 dumps in Hazaribag Area, CCL &amp; its report submitted</li> <li>2. Correlation survey of UG mines:- carried out in 3 pits of PB Area, BCCL</li> <li>3. GPS survey for connecting survey stations at Kartali &amp; Ambika Block, SECL</li> <li>4. GPS survey for connecting stations at Gidi &amp; Chano Rikba Block, North Karanpura Coalfields, CCL</li> <li>5. Campus survey of CMPDI, Ranchi</li> <li>6. Coal stock measurement – Blk. IV/ Kooridih Colliery, BCCL</li> <li>7. Coal Stock measurement for CBI</li> </ol>
<b>R.I-I</b>	-	-	21	21	BH coordinate survey (90 nos.) Proposed BH location: 151 nos.	1. Connecting coal blocks with national grid under ICRIS project - 24 blocks
<b>R.I-III</b>	-	-	11	16	Borehole survey in 3 camps	-
<b>R.I-IV</b>	6	20	-	-	Co-ordinate survey - 161 nos. BH BH location - 200 nos.	<ol style="list-style-type: none"> <li>1. Surface features survey of road/ Nalla/ HT line, etc. in 25 line kms</li> <li>2. Survey line for Geophysical work- 10 line kms. In WCL.</li> <li>3. Survey for connection with Coal Grid- 2 Blocks in WCL.</li> <li>4. Surface contouring – 2 Sq Km</li> </ol>
<b>R.I-V</b>	5	5	21	29	Borehole survey in 4 camps	1. Surface survey for Kartali & Ambika block
<b>R.I-VI</b>	8	82	-	-	Borehole survey in 1 camp	<ol style="list-style-type: none"> <li>1. Dump Survey of NCL mines-11 meas.</li> <li>2. Measurement of rejects of Bina OCP (near Discharge Chute), NCL.</li> </ol>
<b>R.I-VII</b>	6	6	3	4	Survey work related to exploration in 3 Camps	1. Resistivity survey of 2 km line

## 9.2 Blasting

CMPDI has been rendering specialized technical services to CIL Subsidiaries and other Companies for solution of blasting related problem, testing of explosives and explosive accessories, performance evaluation of new products etc. Following services were

rendered to different subsidiaries of Coal India Limited & outside agencies during 2009-10:

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

A total of 7 nos. of controlled blasting and vibration studies were carried out for different mines of MCL, CCL & NEC.

Powder factor study was carried out in 10 nos. of mines of BCCL & CCL as a Tri-partite member.

Random sampling and testing of explosives & accessories were carried out in the mines/magazines of CCL, BCCL, NEC & Neyveli Lignite Corporation.

Performance evaluation of 2 nos. of new explosives product.

Blasting study for introduction of SMS/SME was carried out successfully in Iron ore mines of M/s Aryan Mines & Trading Corporation Pvt. Ltd.

One S&T Project titled “Characterization of rock and explosive parameters for optimal explosive energy utilization opencast blasting” was completed by CMPDI in association with CIMFR, Dhanbad.

One R&D Project titled “Study of Techno-commercial efficacy of ANFO with low density porous prilled ammonium Nitrate for blasting in overburden of coal mines” is in progress by CMPDIL as main implementing agency and DFPCL as sub implementing agency.

### **9.3 Mining Electronics**

Mining Electronics Division of 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 following jobs were completed during the year.

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

- 1) Draft NIT for Ringmain Telecommunication Network of NCL submitted. Scope of work revised. Revised NIT is under preparation.
- 2) Revised Draft NIT for Environmental Telemonitoring System of Swang Colliery, CCL submitted.
- 3) CIL R&D Project for Indigenous development of PLC-based underground control system is under advanced stage of implementation by CMPDI and RDCIS, Ranchi at Churi Mine, CCL. The system is presently undergoing installation for extensive field trial.
- 4) Trapped Miners Location System Project using MF and Wi-fi technology under CIL R&D Grant formally approved and work started. The system is being implemented jointly by CMPDI and TCS/CMC at Jhanjhra Mine, ECL

- 5) The proposal for Trapped Miners Location System using TTE and RFID under S&T Grant submitted and final approval awaited. The system is to be jointly implemented by CMPDI and M/s. Adcept Solutions, Kolkata at Central Saunda Mine, CCL.
- 6) Integrated Telecommunication Network for MCL commissioned and is undergoing field trial. Final inspection shall be carried out soon.
- 7) Draft report for Environmental Telemonitoring System for Hirakhand-Bundia U/G is under preparation.
- 8) Technical evaluation of tender offers for Communication Network of Area Stores, Computer Centres and HQ of ECL completed and final observation submitted to ECL.
- 9) Job for Electronics & Telecommunication for various Project Reports of Pelma OCP, PQ OCP, IB Master Plan, Balram Exp. OCP, Rai OCP, Semaria OCP, North Urimari, Shivani U/G, Amritdhara, Siarmal OCP, Gare III OCP, Tawa III U/G, Pakri Barwadih OCP, Rangamati A U/G, Amlo Dhoru U/G, Aswa OCP, Padampur Deep, DRD Project II, KDH and many others.

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

- 1) Repairing of 226 HEMM cards has been completed and sent back to various projects.
- 2) Repairing & Calibration of 85 Methanometers has been completed and sent back to the projects.

## **9.4 COAL TECHNOLOGY**

### **A. The following jobs were completed / undertaken by this department during this period.**

- i. Coal S&T job with CIMFR

Agglomeration formation in reducing condition in Pressurized Fluidized Bed Gasification (PFBG) with low rank high ash coals”

- ii. Technical support to S&T Projects under SSRC on proposals relating to Coal Utilization projects
- iii. Technical services to Ministry of Coal / CIL on issues relating to Coal Technology / Utilization.

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

- i. Interface assignment on “Effective utilisation of low rank and low volatile high rank Indian coking coal for blast furnace coke making” under CIL R&D fund.
- ii. 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 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, 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 include;

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 2010, CMPDI has assisted CIL subsidiary companies to achieve a total of 155 ISO 9001 and ISO 14001 certifications through its consultancy in various mines, hospitals, workshops, washery, training institute, etc.

### **9.5.2 Job Completed during 2009-10**

Management System Consultancy worth about Rs. 87.33 lakhs was completed during the year, which was about 2.5 times of the previous year. This resulted into a total 51 management-system certifications – 27 of ISO 9001 [15 OCPs, 2 UGPs, 4 hospitals, 4 HEMM workshops, 1 washery and 1 training institute – including 16 re-certifications and up-gradations], and 24 of ISO 14001 [11 OCPs, 2 UGPs, 1 washery and 1 total company].

First time in the coal mining sector, ISO 9001 and ISO 14001 certifications of 2 UG mines in WCL were completed during the year through an Integrated Management System. Similarly, ISO 14001 certification of NCL as the total company was achieved this year to include all its operations and functions without any exception, including all corporate functions/departments, this being the first mining company in India to have achieved this company-level certification.

### **9.5.3 Work in Progress**

Presently, CMPDI is providing Management System Consultancy worth about Rs. 6 crores. This is for 139 certifications under ISO 9001, ISO 14001, OHSAS 18001, and SA 8000 in various CIL establishments, which includes all major opencast coal-mining projects, some of the major underground projects, certification of total NCL against integrated management system complying to the requirements of ISO 9001, ISO 14001, OHSAS 18001, and SA 8000, and certification of total SECL against SA 8000.

## **10.0 Material Management**

### **10.1 Implementation of e-procurement system**

Central Vigilance Commission and Coal India Ltd have stressed to switch over to e-procurement system to reap the benefits offered by the online procedure. This reduces



the lead time of procurement in addition to lowering the cost of procurement and ensuring higher level of transparency.

During the year under review the following tenders were identified for implementing the e-procurement system as pilot cases:

1. Wireline Drill Rod
2. 1000 M Diamond Core Drill Machine

Both the above tenders have been successfully finalised.

## **10.2 Disposal of Scrap and Obsolete items**

The scrap and obsolete items are disposed off based on the approved survey off reports submitted by the Regional Institutes and the different departments. The Company has a Selling Agency Agreement with M/s MSTC which facilitates online disposal of such items through e-auction. During the year under review scrap and obsolete items worth Rs. 84 lakhs have been disposed off.

## **10.3 Inventory Control**

There are 55 nos. of drills deployed at different sites by the Regional Institutes which are in continuous operation. Besides, 2 nos. of new Hydrostatic Drills have been inducted during October, 2009 and are in operation since then. Accessories & consumables like drill rods, core barrel, drill bits, TC bits etc. are regularly required during the operation of the said drills. Hence, adequate stocks of such items need 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<sup>st</sup> March, 2010 was valued at Rs. 2.45 crore mainly comprising of drill rods, casings, drill bits, core barrel, TC bits etc. which were received during the last quarter of the year under review. The total value items received during the last quarter amounted to Rs. 1.9 crore out of which Rs. 1.10 crore worth of accessories and consumables have already been issued to different Regional Institutes. The balance inventory will be consumed in due course of time before supply of fresh lot of items against current orders.

## **11.0 Human Resource Development**

During the year 2009-10, the exposures were given to CMPDI employees in the following major areas:

<b>Major Area</b>	<b>STC</b>	<b>IICM</b>	<b>External</b>	<b>Foreign</b>	<b>Total</b>
Managerial	146	26	-	2	174
Technical/Functional	229	58	120	18	425
Cross Functional	355	158	68	2	583
Foreign tour	-	-	-	5	5
<b>Total</b>	<b>730</b>	<b>242</b>	<b>188</b>	<b>27</b>	<b>1187</b>

Special exposures given to our executives in the following areas:

### **Foreign training**

In the year 2009-10 total 27 nos of executives from CMPDI including CMD & Directors visited abroad for attending high level meetings, conferences and trainings in several parts of the world.

Two teams of executives were sent to China to study Modern High Capacity Mine Planning & Design as well as operation of High Capacity Underground Mines.

### **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 187 nos. of executives and non executives have attended programmes at different places in India. 51 Management trainees (Geology) were trained on geological mapping at GSI, Kulu. 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.

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

- Simulation of Granular Flows and Bulk Flows
- Energy Audit for Indian Mining Industry
- Rock Mechanics and Ground Control
- Oracle 10G Fundamentals & DBA
- Environmental Clearance of Mining Projects
- Hydro geological Investigation, Development and Management of Ground water Resources
- Coal Preparation Issues and Challenges
- Application of Geophysical Techniques
- Meeting the Challenging Situation arising out of Fast Changes in the Corporate Environment & Economy
- Programme on Advanced Corporate Finance
- Strata Control Techniques and Instrumentation For Coal Mines
- Stress Management Through Blissful living
- Goal Management Through Self Empowerment
- Talent Management -New HR Strategy
- Seminar on IFRS
- State Level Energy Management & Auditor's workshop
- Empowered women of 21st Century
- Workshop on Mine Fires in Indian Coal Industry
- Environment and Energy Conclave 2009
- Workshop on "Management Tools for effective operations in Mining Industry"
- Budgeting for Gender Equity
- Workshop on Valuation & Tax Deduction
- National Conference on Indian Steel Industries
- International Mine Ventilation Congress
- International Workshop on 'Methane drainage from U/G mines Gas control, and longwall ventilation practices
- National Convention of Company Secretaries

- Development Of Mineral Resources & Mineral based industry in North Eastern Region
- Air Quality Monitoring Network Design, Air Sampling, Analysis and Quality Assurance
- Sampling , Analytical Techniques of water samples and Quality Control
- International Conference on "Preventing Emerging Occupational and Environmental Risks in South Asia and Beyond"
- Workshop on "Explosives and Initiation Devices for use in Opencast Mines"
- National Conference on Machines and Mechanism
- Management Development Programme
- Map India 2010
- Asian Mining Congress 2010
- Advances In Mine Surveying Technology
- India Mineral Conclave
- Training On Geological Mapping
- Conference and Exhibition on Storing, Handling,Processing Bulk Solids and Powder
- OHSAS 18001:2007-Lead Auditor Training

### **At IICM**

Every year HRD Division is nominating large number of executives in senior & middle level to IICM 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. After compilation and necessary approval from CMD/Director, HRD Division nominates the executives at various programmes of IICM.

At IICM 242 numbers of executives have been trained in 2009-10.

Some of the topics of different category are listed below:

- Carbon Market
- General Management Programme
- Communication & Presentation Skills
- Functional Skill Programme for E&M Engineers
- E- Procurement
- Out Sourcing & Statutory Obligation
- Functional Skill Programme for Mining & Safety
- Leadership Development Programme
- Right to Information Act, 2005
- Functional Skill Programme for Earth Moving Equipment(Excv)
- IT in Mining
- Programme on Finance for Non Finance Executives
- Samudra Manthan - Discovering Self
- Functional Skill Programme.for System (Java/JSP)
- Functional Skill Programme. for Mining Engineer

- Managerial Awareness Programme for Management Trainee
- Induction Programme for Management Trainee
- Functional Skill Programme for Finance
- Tendering Procedure & Contract Management
- Functional Skill Programme for Land & Revenue
- Advance Management Programme
- Self Management of Excessive Tension
- Preparing for higher performance -Women executives
- Functional Skill Programme for Earth Moving Equipments(Excv)
- Corporate Social Responsibility
- GIS/GPS Application in Coal Mining
- Project Management
- Communication & Presentation Skills
- Tendering Procedure & Contract Management
- Strategic Management Programme
- Linux Software
- Environmental Management - Key Issues
- Functional Skill Programme for Mining Engineer
- Functional Skill Programme for Finance Executives
- Sensitization Program on HIV/AIDS
- Preparatory Programme for Retiring Executives
- Functional Skill Programme for System(AUTOCAD)
- Functional Skill Programme for Mines Safety (Both Opencast & U/G)
- Young Manager's Development Programme
- Functional Skill Programme For System Oracle
- WTO & IPR for Decision Making
- Technology Awareness Programme for Management Trainee
- Self Management of Excessive Tension
- Values & Ethics in Decision Making
- Rajbhasa Awareness
- Integrity Pact
- Managerial & Functional Training Programme of MT

### **At Staff Training College**

Training of all non executives and CMPDI specific training of executives are being imparted at STC. A total of 730 executives and non executives have attended training, workshop etc at STC in 2009-10.

56 Management trainees (MT), (Geology) joined CMPDI during the year under review. Induction training of these MTs was held at IICM. Staff Training College provided accommodation, transportation etc. Technical programme for 12 MT (Drilling) and 10 MT (Geology) who joined later and all MTs (System) and MTs (CP) was provided by STC.

21 Opencast mine planners and geologists were trained on MINEX software and 21 Draughtsman were trained on AutoCAD 2010 during the year under review.

Major areas of training/ Workshop were the following:

- Computer Application in Office Work
- Technology Awareness Programme for Management Trainee (Geology)
- QMS Awareness Programme
- Maccaferri Solutions to Mining Problems
- Arc - GIS Under ICRIS Project
- Terrestrial Laser Scanner
- Rajbhasha Karyashala
- Differential Global Positioning System
- Induction Training For Trainee CAT -I
- Modern Methodology Of Collection Of Coal Samples from Large O/C Mines
- Technology Awareness Programme (Mechanical /Drilling)
- Programme on Geosystem (ICRIS Project)
- Analysis Of Financial Statement
- Training On UTM
- AUTOCAD 2010
- Program on Minex 6.0
- Effective Utilisation of Low and High Rank Indian Coking Coal for BF Coke Making
- Training on HP Server
- Technical Training for Management Trainee (Chemical/CP)
- Technical Training for Management Trainee (System/EDP)
- Galena Software for Slope Stability
- AMC for Arc IMS/SDE
- Productivity for Inclusive Growth
- Management of Environment Impact of Blasting

### **Training at CMPDI for students of different Institutions (VT)**

As a social responsibility, HRD Division is organizing training of the students of various institutions at different divisions of CMPDI.

Total students trained at CMPDI in 2009-10 are 122 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:

- Birla Institute of Technology, Ranchi
- Women's College, Ranchi
- XISS, Ranchi
- Mining Institute, Koderma
- SRM University, Chennai
- Regional College of Management, Bhuvaneshwar.
- PIET, Nagpur
- Jadavpur University, Kolkata
- University Of Calcutta, Kolkata
- Vellore Institute Of Technology, Vellore.
- National Institute Of Technology, Kurukshetra.
- Amity Global Buisness School, NOIDA
- Allard Institute of Management, Pune.
- BIT, Sindri

- National Law University, Orissa.
- Techno India College, Kolkata.
- Annamalai University. Annamalai
- Durgapur Institute Of Technology, Durgapur.

## 12.0 OUTSIDE CIL CONSULTANCY

During the period April, 2009 to March, 2010, Consultancy services were provided to 14 organisations for 24 jobs. Some of the important clients/organizations to whom services were provided are SAIL-ISP, MOIL, NALCO, DVC, Chhattisgarh State Electricity Board., Neyvelli Lignite Corporation Ltd., Tata Steel, Reliance Coal Resource Ltd. (M/s Sasan Power Ltd.), Directorate of Naval Design / Mazgaon Dock Ltd , UCM Coal Company Limited, JSPL etc.

Presently, 17 outside consultancy jobs are in hand for 14 organisations like SAIL-ISP, NTPC, Neyveli Lignite Corporation Ltd., Baitarni West Coal Co. Limited, M/s Goa Industrial Development Corporation, M/s Essar Mineral Resources Ltd (Mahan Coal Company), Mandakini – B Coal Corporation Ltd, M/s Field Mining and Ispat Limited, CEA etc.

During the year 2009-10, 28 jobs worth Rs. 30 crores and 14 lakhs from 19 organisations were procured by CMPDI.

## 13.0 Manpower and Welfare Activities

### Manpower :

Particulars		As on March 31, 2009	As on March 31, 2010
Executive		772	824
Non-Executives	Monthly Rated	1383	1333
	Daily Rated	910	999
<b>Grand Total</b>		<b>3065</b>	<b>3156</b>

During the year under review 82 Management Trainees and 103 Daily Rated non-executives were recruited.

### Welfare Activities:

- CMPDI has 2518 nos. of quarters at its Headquarters and Regional Institutes with housing satisfaction of 100%.
- Adequate supply of drinking water has been made available to employees of CMPDI.
- All the employees and their dependents are provided medical facilities through its dispensaries and the hospitals owned by subsidiary companies of CIL. Patients are also referred to renowned institutions as per requirement.
- CMPDI provides financial assistance/grant of Rs.1.00 lac to DAV Public School, Gandhi Nagar, Ranchi.
- Scholarships were awarded to 137 nos. of children for 2008-09 session for which Rs. 1,49,160/- (Rupees one lakh forty nine thousand one hundred and sixty) has been incurred during the year under review.

- vi) 3(Three) nos. of computers and UPS have been provided to Gondwana Primary School, CMPDI Campus, Kanke Road, Ranchi.
- vii) A sum of Rs.10000/- (Rupees ten thousand) only was given as financial assistance for celebration of Independence Day & Republic Day to Gondwana Primary School, CMPDI Campus, Kanke Road, Ranchi.
- viii) A sum of Rs.20000/- (Rupees twenty thousand) only was given as financial assistance for celebration of Independence Day & Republic Day to Birsa High School, Hathiagonda, Kanke Road, Ranchi..
- ix) 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).
- x) Cash Award amounting to Rs. 35,480/- (Rupees thirty five thousand four hundred eighty) 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.
- xi) Gratuity & Pension papers are being given to the employees on the day of their superannuation.
- xii) All the employees of CMPDIL are getting their salary through Bank.

#### **CSR ACTIVITIES:**

- i) Two Medical Camps were organised at Birsa High School, Hathiagonda, Kanke Road, Ranchi in which one was for the student of Birsa High School and other was for the villagers of Hathiagonda. During the Camps free medicines were made available to the needy.
- ii) A Medical Camp specially for grown up girls was organised for the girls students of Birsa High School, Hathiagonda, Kanke Road, Ranchi. In this Camp necessary advice and free medicines were made available to the girls student.
- iii) As per MOU infrastructural development – repairing of school premises, rooms, toilets have been done and equipments in science laboratory, 6 Nos. of computers alongwith UPS for the use of school children have been provided.
- iv) Distribution of old clothes in good condition collected from the employees of CMPDI were distributed among the villagers of Patragonda & Hathiagonda, Kanke Road, Ranchi.
- v) 200 new blankets were also distributed to the people of Patragonda & Hathiagonda, Kanke Road, Ranchi.
- vi) Blankets, nets, pillow cover, pillow, powder milk, clothes, rexin, shoes, school dress materials, socks, bed-sheets, shawls, cardigan were provided to Cheshire Home, Nirmal Hriday, Braj Kishore Netrahin Balika Vidyalaya etc.
- vii) Desk-bench, table & bed lockers were provided to Maheshwari Balika Uchcha Vidyalaya, Vanprashtha Ashram & Cheshire Home etc.
- viii) Construction of bore well with submersible pump and provision of two PVC water tank for public water distribution were provided at two locations under RI- V, Bilaspur.
- ix) One passenger's shade has been constructed by RI- VI, Singrauli.

#### **SPORTS ACTIVITIES:**

- i) Smt. Pushpa Hassa, Sports Supervisor obtained 1st position in Javeline Throw in 30th National Master Athletic Championship 2009 held at Hissar.
- ii) Smt. Pushpa Hassa, Sports Supervisor, Sri S.K. Tiwary, Sports Supervisor and Sri Kameshwar Ravidas, Sports Supervisor were selected to participate in the 31st Master Athletic Championship 2010 held at Chennai in which Smt. Hassa obtained 1st position in Javelin Throw and 3rd position in Disc Throw.
- iii) Smt. Pushpa Hassa, Sports Supervisor has been declared Sports Personnel of Coal India for the year 2008-09.

- iv) Sri P.K. Bisoi, Dy. Manager (System) obtained the Open (Singles) Runners Trophy in the Inter Coal Company Badminton Tournament.
- v) Sri P.K. Bisoi, Dy. Manager (System) and Sri Ramesh Prahasan, Sr. ES were selected to participate in the Sr. National Carrom Championship as player and veteran player to represent Jharkhand State held at Guwahati.
- vi) In the B.K. Srivastava Memorial Golf Tournament 2009 held at Army Golf Club, Ranchi Sri D.K. Gupta Sr. EE, ICT Division became Champion.
- vii) In the Medal round Golf Tournament 2010 held at Army Golf Club, Ranchi, Sri D.N. Mahto, Daftary, Dir. (P&D) Secretariat became Runner.
- viii) In the Medal round Tollaling Golf Tournament 2009 held at Cockeral Army Club, Deepatoli Sri S.P. Sahu, Asstt. Supervisor became Runner.
- x) CMPDI conducted Inter-Regional Institutes Tournament for Badminton, TT, Carrom, Chess, Athletic Meet, Volley Ball and Bridge etc.
- xi) On the occasion of Bal Divas i.e. on 14th Nov., CMPDI conducted sports for the children of CMPDI family.
- xii) Financial assistance of Rs. 15,000/- was given to Ranchi District Sweeming Association.

CMPDI also hosted Inter Coal Company Lawn Tennis Tournament for the period from 15th to 20th Feb. 2010.

### **13.0 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 and Coal India Limited 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 in the month of November, 2009 to propagate Hindi and was praised by every spectator. The month of September, 2009 was organized as "Raj Bhasha Mah" as per the directives of Ministry of Coal. In order to propagate and make Hindi popular among the employees of the company, several Hindi competitions were organized. A large number of employees participated in all the competitions held during the month and the winners were awarded suitably. In addition, two departments viz. Environment and Opencast who have done most of their official work in Hindi, were awarded Chairman's winner and runner shield respectively.

A Hindi Essay Writing competition was also organised by your company in the month of January 2010 under the aegis of Town Official Implementation Committee in which three participants of your company obtained three prizes.



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, New Delhi. In addition, to improve the use of Hindi in day-to-day Official Work of all Regional Institutes is also included as permanent Agenda in Regional Directors' Co-ordination Meeting and reviewed regularly. Besides 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 work and put their reports in the meeting of Head Quarter Official Language Implementation Committee.

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

- 14.1** In the preparation of the annual accounts, the applicable accounting standards had been followed along with proper explanation relating to material departures.
- 14.2** 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.
- 14.3** 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.
- 14.4** 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 J. N. Agrawal & Co., Chartered Accountants, Ranchi were appointed as Auditors of the Company for the financial year 2009-10. 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 : 14.05.2010

(A. K. Singh)

Chairman-cum-Managing Director

## AUDITORS' REPORT

## MANAGEMENT'S 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 2010 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>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.</i> | Reconciliation of Sundry Debtors is under progress.<br>TDS is accounted for on receipt of TDS Certificate from the Clients. |
| <i>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).</i>  | No Comments.  |
| <i>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.</i>   | Letters have already been issued for confirmation of balance in Debtors ( other than CIL Subsidiaries)                      |

## AUDITORS' REPORT

## MANAGEMENT'S REPLY

- |     |   |              |
|-----|---|--------------|
| iv. | <i>As indicated in Note no.10.4.1 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.</i> | No Comments. |
| v.  | <i>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.</i>  | No Comments. |
| vi. | The management has done testing for impairment of assets in compliance of AS-28 and has reported no impairment losses as per Note No.1.1.4 in Schedule-15.  | No Comments. |

### **(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, 2010.

## AUDITORS' REPORT

## MANAGEMENT'S REPLY

- 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 J. N. AGRAWAL & CO.**  
**(CHARTERED ACCOUNTANTS)**

Sd/-  
**(CA. SUMIT AGRAWAL)**  
**Partner**  
**(Membership No. 77531)**  
**(FRN – 000818C)**

Place : Ranchi  
Dated: 11<sup>th</sup> May 2010.

## ANNEXURE TO THE AUDITORS REPORT

(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, 2010)

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. <i>However in case of Assets belonging to S&amp;T Fund and Furniture &amp; Fittings of CMPDI Head Quarter, Fixed Asset Register is maintained year wise instead of Asset wise.</i> | No Comments. |
| (b) A major portion of the high value assets have been physically verified by the management in accordance with a phased program of verification adopted by the Company. As explained to us, no material discrepancies were noticed on such verification. <i>Physical Verification of S&amp;T Assets has not been done during the year.</i>        | No Comments. |
| © 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.     | No Comments. |

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. |
|---|--------------|

**ANNEXURE TO THE AUDITORS REPORT****MANAGEMENT'S REPLY**

- |  |   |
|--|---|
| (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.  | No Comments.  |
| (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 except interest accrued and due. Maximum amount outstanding during the year was Rs.160.57 lacs.           | 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:-   |   |
| (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-VI, Singrauli during the financial year 2009-10. |

**ANNEXURE TO THE AUDITORS REPORT****MANAGEMENTYTS' REPLY**

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:

(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, 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, 2010 for a period of more than six months from the date they became payable *except the following:-*

No Comments.

<b>SL</b>	<b>Name of Statute</b>	<b>Nature of dues</b>	<b>Amount(Rs.)</b>
(1)	Income tax Act:	TDS on perks	Rs.19.23 lakhs
(2)	VAT Act	sales tax	Rs.0.64 lakhs

(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:*

No Comments.

<b>SL</b>	<b>Name of Statute</b>	<b>Nature of Dues</b>	<b>Amount (Rs. in Lakh)</b>	<b>Forum Where Dispute is Pending</b>
1	Service Tax Act	Service Tax	40.24	Service Tax Tribunal Kolkata
2	Sales Tax Act	Entry Tax	16.78	Sales Tax Authority
3	Income Tax Act	Assessed Tax (A.Y.-07-08)	219.45	C.I.T(A)

10. The Company has no accumulated losses as at 31<sup>st</sup> March 2010 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.

No Comments.

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.

No Comments.

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.

No Comments.



**ANNEXURE TO THE AUDITORS REPORT****MANAGEMENT'S REPLY**

- |  |              |
|--|--------------|
| 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.   | No Comments. |
| 14. In our opinion the Company is not dealing or trading in shares, securities, debentures and other investments,  | No Comments. |
| 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.                       | No Comments. |
| 16. The Company has not raised any term loans during the year.   | No Comments. |
| 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.                          | No Comments. |
| 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. |
| 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. <i>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 .</i> | No Comments. |

**FOR J. N. AGRAWAL & CO.  
(CHARTERED ACCOUNTANTS)**

Place : Ranchi  
Dated: 11<sup>th</sup> May 2010

Sd/-  
**(CA. SUMIT AGRAWAL)**  
**Partner**  
**(Membership No. 77531)**  
**(FRN-000818C)**

**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 2010.**

The preparation of financial statements of Central Mine Planning & Design Institute Limited for the year ended 31<sup>st</sup> March 2010 in accordance with the financial reporting framework prescribed under the Companies Act, 1956 is the responsibility of the management of the company. The statutory auditor 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 11.05.2010.

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 2010. 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 auditor and company personnel and a selective examination of some of the accounting records. On the basis of my audit nothing significant has come to my knowledge which would give rise to any comments upon or supplement to Statutory Auditor's 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/

**(Nandana Munshi)**

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

Place: Kolkata  
Date: 12<sup>th</sup> May 2010

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**  
**BALANCE SHEET AS AT 31ST MARCH, 2010**

		As at 31st March 2010 (Rs in Lakh)	As at 31st March 2009 (Rs in Lakh)
	<u>Schedule</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	5474.82	4844.94
<b>Loan Funds</b>			
Secured	D	0.00	0.00
Unsecured	E	3.66	181.11
Total Funds Employed		<u>7382.48</u>	<u>6930.05</u>
<b><u>APPLICATION OF FUNDS</u></b>			
<b>Fixed Assets</b>			
(including assets held on behalf of Govt. / CIL)			
Gross Block	F	15530.68	14180.64
Less : Depreciation		8774.91	8311.41
Net Block		<u>6755.77</u>	<u>5869.23</u>
<b>Surveyed off Assets</b>		52.27	47.56
<b>Capital Work in Progress</b>	G	138.66	804.36
<b>Investment</b>	H	0.00	0.00
<b>Deferred Tax (net)</b>		5450.62	4357.43
<b>Current Assets, Loans &amp; Advances</b>			
Inventories	I	629.16	398.82
Sundry Debtors	J	27586.66	24968.22
Cash & Bank Balances	K	6924.33	4714.19
Loans & Advances	L	6913.07	5367.51
Other Current Asset	M	5409.72	879.89
Total Current Assets, Loans & Advances		<u>47462.94</u>	<u>36328.63</u>
Less: Current Liabilities & Provisions	N	52477.78	40477.16
Net Current Assets		<u>-5014.84</u>	<u>-4148.53</u>
Intangible Assets	O	0.00	0.00
		<u>7382.48</u>	<u>6930.05</u>
<b>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

(Udayan Chakrabarti)  
Company Secretary

( K. Chandra Mouli )  
Chief General Manager ( Finance )

( A. K. Debnath )  
Director

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

In terms of our report of even date attached  
**For J. N. Agrawal & Co.**  
( Chartered Accountants )

Place :  
Date :

( CA Sumit Agrawal )  
Partner

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2010**

		Current year	Previous Year
	Schedule	Year ending 31st March 2010 (Rs in Lakh)	Year ending 31st March 2009 (Rs in Lakh)
<b><u>INCOME</u></b>			
Sale of services	1	45352.61	32981.63
Coal issued for other purpose	2	0.00	0.00
Other income	3	376.55	295.25
Total Income		<u>45729.16</u>	<u>33276.88</u>
<b><u>EXPENDITURE</u></b>			
Consumption of Stores & Spares	4	1236.61	1118.24
Employees Remuneration & Benefits	5	27495.18	25292.54
Social Overhead	6	3074.75	1545.18
Power & Fuel	7	230.19	190.92
Repairs	8	727.23	329.47
Contractual Expenses	9	7699.88	1806.76
Miscellaneous Expenses	10	2459.43	1915.42
Total Expenditure		<u>42923.27</u>	<u>32198.53</u>
<b>GROSS OPERATING PROFIT(+)/LOSS(-)</b>		<b>2805.89</b>	<b>1078.35</b>
Interest	11	26.42	48.94
Depreciation		383.46	284.91
Provisions	12	175.79	65.08
<b>PROFIT(+)/LOSS(-) FOR THE YEAR</b>		<b>2220.22</b>	<b>679.42</b>
Prior Period Adjustment	13	259.27	5.83
<b>NET PROFIT(+)/LOSS(-) BEFORE TAXATION</b>		<b>1960.95</b>	<b>673.59</b>
Provision for Income Tax			
For current year		2103.94	2501.00
For earlier years		-196.18	-110.10
For Fringe Benefit Tax		0.00	107.35
For Deferred Tax		-1093.19	-2308.37
<b>PROFIT(+)/LOSS (-) AFTER TAX</b>		<b>1146.38</b>	<b>483.71</b>
Transferred to General Reserve		0.00	0.00
<b>PROFIT(+)/LOSS(-) AFTER TRANS. TO GENERAL RESERVE</b>		<b>1146.38</b>	<b>483.71</b>
Add : Profit upto the previous year		3110.21	2626.50
Less : Provision for retirement Medical Benefit		42.67	0.00
<b>BALANCE CARRIED TO BALANCE SHEET</b>		<b>4213.92</b>	<b>3110.21</b>
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

(Udayan Chakrabarti)  
Company Secretary

( K. Chandra Mouli)  
Chief General Manager (Finance )

( A. K. Debnath )  
Director

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

In terms of our report of even date attached  
**For J. N. Agrawal & Co.**  
( Chartered Accountants )

Place :  
Date :

( CA Sumit Agrawal)  
Partner

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010**

**SCHEDULE - A**

**SHARE CAPITAL**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Authorized capital		
500000 Equity Shares of Rs 1000/- each .	<u>5000.00</u>	<u>5000.00</u>
	5000.00	5000.00
Issued Subscribed & paid up		
(Held by Coal India Ltd. , the Holding Co. & its nominees)		
8 Equity Shares of Rs 1,000/- each fully paid in Cash (Previous Year 8 Equity shares of Rs 1,000/- each)	0.08	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)	853.92	853.92
105000 Equity Shares of Rs 1000/- each allotted as fully paid for Cash to Holding Company by converting loan in equity	1050.00	1050.00
	<u>1904.00</u>	<u>1904.00</u>

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010**

**SCHEDULE - B**

**SHARE MONEY PENDING ALLOTMENT**

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

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010**  
**RESERVE & SURPLUS**

**SCHEDULE - C**

		<b>Current Year</b> <b>(Rs. in Lakh)</b>	<b>Previous Year</b> <b>(Rs. in Lakh)</b>
<b>CAPITAL RESERVE : -</b>			
<b>Grants for purchase of capital equipment</b>			
<b>Energy Coal S&amp;T Grants</b>			
As per last Account	994.71	1022.24	
Additions during the year	<u>61.53</u>	<u>95.54</u>	
	1056.24	1117.78	
Less : Depreciation written-off during the year	<u>100.42</u>	123.07	
Less : Adjustment	<u>251.33</u>	<u>0.00</u>	994.71
<b>UNDP Grants</b>			
As per last Account	5.93	6.23	
Addition during the Year	<u>0.00</u>	<u>0.00</u>	
	5.93	6.23	
Less : Depreciation written off	<u>0.16</u>	<u>0.30</u>	5.93
<b>CCDA Grants</b>			
As per last Account	15.61	9.34	
Addition during the Year	<u>0.51</u>	<u>9.25</u>	
	16.12	18.59	
Less : Depreciation written off	<u>2.05</u>	<u>2.98</u>	15.61
<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>	<u>0.00</u>	0.47
<b>CIL R&amp;D GRANTS</b>			
As per last Account	386.83	431.46	
Addition during the Year	<u>2.40</u>	<u>48.53</u>	
	389.23	479.99	
Less : Depreciation written off	<u>58.09</u>	93.16	
Less : Adjustment / Transfer	<u>111.67</u>	<u>0.00</u>	386.83
<b>P.R.E. Grants</b>			
As per last Account	101.05	169.35	
Addition during the Year	<u>10.33</u>	<u>9.14</u>	
	111.38	178.49	
Less : Depreciation written off	<u>23.12</u>	<u>77.44</u>	101.05
<b>CMM/CBM CLEARING HOUSE :</b>			
As per last Account	12.59	0.00	
Addition during the Year	<u>0.00</u>	<u>12.90</u>	
	12.59	12.90	
Less : Depreciation written off	<u>1.76</u>	<u>0.31</u>	12.59
	1043.36		1517.19
<b>GENERAL RESERVE :</b>			
	217.54		217.54
Balance of Profit transferred from Profit & Loss Account	<u>4213.92</u>		<u>3110.21</u>
Total	<u>5474.82</u>		<u>4844.94</u>

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010**

**SCHEDULE - D**

**SECURED LOAN**

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

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010**

**SCHEDULE - E**

**UNSECURED LOAN**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Due to Coal India Ltd., the Holding Company	<b>0.00</b>	160.57
Interest accrued & due	<b>3.66</b>	20.54
<b>Total</b>	<b>3.66</b>	<b>181.11</b>

## SCHEDULE-F

## Schedule to Balance Sheet as at 31st March 2010

## FIXED ASSETS

( RS IN LAKH)									
	PARTICULARS			DEPRECIATION				Net Block	
	COST	ADDITION	ADJUSTMENT	TOTAL COST	DEPRECIATION	DEPRECIATION	ADJUSTMENT	TOTAL	NET BLOCK
	As AT	DURING	FOR DISPOSAL/	AS AT	AS AT	FOR THE	FOR DISPOSAL/	DEPRECIATION	AS AT
	1.4.2009	THE YEAR	DISCARDED OF	31.03.2010	1.4.2009	YEAR	DISCARDED ETC.	UPTO	31.03.2010
			FIXED ASSETS					31.03.2010	31.03.2009
<b>A. Fixed Assets :</b>									
<b>(Excluding S&amp;T, CCDA, EMSC, UNDP,PRE &amp; CIL R&amp;D Assets)</b>									
Land :									
Freehold	114.71			114.71	0.00			0.00	114.71
Leasehold	117.98			117.98	64.53	3.10		67.63	50.35
Building :									
Freehold	3923.90	85.89	-14.69	3995.10	1213.65	70.41		1284.06	2711.04
Leasehold	-			-	-			-	-
Plant & Machinery	4627.76	1010.49	-92.13	5546.12	3178.41	281.51	-101.56	3358.36	2187.76
Furniture,Fittings & Office Equipment	1200.78	48.13	-1.86	1247.05	979.62	33.18	-1.78	1011.02	236.03
Vehicle	742.39	278.56	-51.17	969.78	563.86	41.65	-48.61	556.90	412.88
<b>TOTAL (A)</b>	<b>10727.52</b>	<b>1423.07</b>	<b>-159.85</b>	<b>11990.74</b>	<b>6000.07</b>	<b>429.85</b>	<b>-151.95</b>	<b>6277.97</b>	<b>5712.77</b>
<b>B. S&amp;T,CCDA,EMSC , UNDP,PRE &amp; CIL R&amp;D,CMM/CBM CL.HOUSE Assets :</b>									
Building	31.07			31.07	3.46	0.74		4.20	26.87
Plant & Machinery	3373.03	86.31		3459.34	2290.87	182.99		2473.86	985.48
Furniture,Fittings & Office Equipment	45.09	0.51		45.60	13.29	1.87		15.16	30.44
Vehicle	3.93			3.93	3.72			3.72	0.21
<b>TOTAL (B)</b>	<b>3453.12</b>	<b>86.82</b>	<b>0.00</b>	<b>3539.94</b>	<b>2311.34</b>	<b>185.60</b>	<b>0.00</b>	<b>2496.94</b>	<b>1043.00</b>
<b>TOTAL (A+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>C. Assets Surveyed Off</b>									
								<b>52.27</b>	<b>47.56</b>
<b>Previous Year :</b>									
(i) Fixed Assets-(Excl. S&T,CCDA,EMSC, UNDP,PRE & CIL R&D Assets)	10047.98	748.70	-69.16	10727.52	5715.04	347.66	-62.63	6000.07	4727.45
(ii) S&T, CCDA, EMSC , UNDP ,PRE & CIL R&D Assets	3351.99	144.40	-43.27	3453.12	2130.75	223.86	-43.27	2311.34	1141.78
<b>TOTAL</b>	<b>13399.97</b>	<b>893.10</b>	<b>-112.43</b>	<b>14180.64</b>	<b>7845.79</b>	<b>571.52</b>	<b>-105.90</b>	<b>8311.41</b>	<b>5869.23</b>
(iii) Assets Surveyed Off								<b>47.56</b>	<b>44.47</b>



**Schedule to Balance Sheet as at 31st March 2010**  
**FIXED ASSETS**

SCHEDULE - F  
Annexure - F1

**NOTE 1 :**

**( RS IN LAKH )**

**ALLOCATION OF DEPRECIATION :**

	<b>CURRENT YEAR (2009-10)</b>	<b>PREVIOUS YEAR (2008-09)</b>	<b>* Depreciation on Assets purchased against Grants :</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
1. Profit & Loss Account			Energy Coal S&T	100.42	123.07
(a) 100% Depn. on Assets costing below Rs. 5000/-	6.45	11.25	UNDP	0.16	0.30
(b) Others	377.01	273.66	CCDA	2.05	2.98
2. Social Overhead	58.72	63.83	EMSC		
3. Prior Period Adjustment	44.04		CIL R&D	58.09	93.16
4. Capital Assets against Grants *	185.60	243.27	PRE(Fixed Assets)	23.12	23.45
			CMM/CBM CL.HOUSE ASSET	1.76	0.31
			<b>SUB TOTAL</b>	<b>185.60</b>	<b>243.27</b>
			PRE/S&T etc(Intangible assets)		<b>82.70</b>
			<b>GRAND TOTAL</b>	<b>185.60</b>	<b>325.97</b>
<b>TOTAL</b>	<b>671.82</b>	<b>592.01</b>			

**NOTE 2**

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

	<b>COST As at 31st- March 10</b>	<b>COST As at 31st- March 09</b>
(i) Building	2619.71	2830.78
(ii) Vehicles	89.72	49.69
<b>TOTAL</b>	<b>2709.43</b>	<b>2880.47</b>

**NOTE 3 :**

<b>RECONCILIATION OF DISPOSAL OF FIXED ASSETS :</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
1. Provision for Depreciation	60.46	0.02
2. Bank	14.50	0.02
3. Loss (+) / Profit (-) of Fixed assets	-11.29	-0.02
Disposal of Fixed Assets (Gross Cost)	<b>63.67</b>	<b>0.02</b>

**NOTE 4 :**

<b>RECONCILIATION OF DISCARDED FIXED ASSETS</b>	<b>As at 31st- March 10</b>	<b>As at 31st- March 09</b>
Gross Cost	1045.86	949.67
Provn. for Depn.	993.59	902.11
	<b>52.27</b>	<b>47.56</b>

**NOTE 5 :**

<b>RECONCILIATION OF DEPRECIATION FUND :</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
Opening Balance :	8311.41	7845.79
Add : Depreciation provided during the year	<b>615.45</b>	<b>571.52</b>
	<b>8926.86</b>	<b>8417.31</b>
Less : Net Outflow of Fund : for Surveyed/Written off and disposed off Assets	<b>151.95</b>	<b>58.93</b>
Less : Outflow Fund - Inter Company		3.65
Others		43.32
Closing balance	<b>8774.91</b>	<b>8311.41</b>

## Schedule to Balance Sheet as at 31st Mar 10

## CAPITAL WORK IN PROGRESS

PARTICULARS	COST				PROVISION				NET ASSETS	
	Cost as on 1.04.09	Addition during the year	Adjustment for capitalisation/disposal/discard	Cost as on 31.03.10	As on 1.4.2009	During the year	Withdrawal/Adjustment/ during the year	Total as on 31.03.10	Net Assets as on 31.12.10	Net Assets as on 31.12.09
<b>(A) Capital Work -in- Progress (Excluding S&amp;T/R&amp;D Assets)</b>										
Buildings	89.60	0.11	-23.84	65.87	10.34	1.08		11.42	54.45	79.26
Plant And Machinery And Capital Items in Stores	398.37	639.51	-898.07	139.81	0.44	55.29		55.73	84.08	397.93
<b>TOTAL (A)</b>	<b>487.97</b>	<b>639.62</b>	<b>-921.91</b>	<b>205.68</b>	<b>10.78</b>	<b>56.37</b>	<b>0.00</b>	<b>67.15</b>	<b>138.53</b>	<b>477.19</b>
<b>(B) Capital Work-in-Progress- ( For S&amp;T )</b>										
Plant and Machinery and Capital Items in Stores	266.73	35.96	-299.97	2.72	51.23	0.00	-48.64	2.59	0.13	215.50
<b>( For R&amp;D )</b>										
Coal Tailing Treatment Plant	144.59		-144.59	0.00	32.92		-32.92	0.00	0.00	111.67
<b>( For P R E )</b>										
Plant and Machinery and Capital Items in Stores	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00
<b>TOTAL (B)</b>	<b>411.32</b>	<b>35.96</b>	<b>-444.56</b>	<b>2.72</b>	<b>84.15</b>	<b>0.00</b>	<b>-81.56</b>	<b>2.59</b>	<b>0.13</b>	<b>327.17</b>
<b>TOTAL (A+B)</b>	<b>899.29</b>	<b>675.58</b>	<b>-1366.47</b>	<b>208.40</b>	<b>94.93</b>	<b>56.37</b>	<b>-81.56</b>	<b>69.74</b>	<b>138.66</b>	<b>804.36</b>

Previous year:

<b>(A) Capital Work -in- Progress (Excluding S&amp;T/R&amp;D Assets)</b>										
	234.39	322.31	-68.73	487.97	9.70	1.08	0.00	10.78	477.19	224.69
<b>TOTAL (A)</b>	<b>234.39</b>	<b>322.31</b>	<b>-68.73</b>	<b>487.97</b>	<b>9.70</b>	<b>1.08</b>	<b>0.00</b>	<b>10.78</b>	<b>477.19</b>	<b>224.69</b>
<b>(B) Capital Work-in-Progress-</b>										
	428.37	0.00	-17.05	411.32	64.74	19.41	0.00	84.15	327.17	363.63
<b>TOTAL (B)</b>	<b>428.37</b>	<b>0.00</b>	<b>-17.05</b>	<b>411.32</b>	<b>64.74</b>	<b>19.41</b>	<b>0.00</b>	<b>84.15</b>	<b>327.17</b>	<b>363.63</b>
<b>TOTAL (A+B)</b>	<b>662.76</b>	<b>322.31</b>	<b>-85.78</b>	<b>899.29</b>	<b>74.44</b>	<b>20.49</b>	<b>0.00</b>	<b>94.93</b>	<b>804.36</b>	<b>588.32</b>

Note : Social Overhead assets included in the Schedule are as follows :

	AS AT 31st. March 2010	AS AT 31st MARCH 2009
i) Buildings	65.87	89.60
ii) Roads & Culverts	-	-
iii) Others (Water Supply)	-	-
<b>TOTAL</b>	<b>65.87</b>	<b>89.60</b>

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010**  
**INVESTMENT ( AT COST)**

**SCHEDULE - H**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Trade investment at Cost (Unquoted)	<b>Nil</b>	Nil

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010**  
**INVENTORIES**
**SCHEDULE - I**

		<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
(As valued and certified by the Management)			
Stock of Stores & Spare Parts at weighted average cost	<b>593.10</b>		402.85
Less : Provision for slow moving/non-moving/ obsolescence	<u><b>70.79</b></u>		<u><b>86.49</b></u>
	<b>522.31</b>		316.36
Other stores at purchase price	<u><b>52.05</b></u>	<b>574.36</b>	<u><b>56.88</b></u>
Add : In Transit/Under Inspection		<b>54.80</b>	25.58
Total		<u><b>629.16</b></u>	<u><b>398.82</b></u>

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010**  
**SUNDRY DEBTORS**
**SCHEDULE - J**

		<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Debts outstanding for a period			
Exceeding Six months	<b>4249.50</b>		2834.16
Others	<u><b>23886.19</b></u>		<u><b>22511.09</b></u>
Total	<b>28135.69</b>		25345.25
Less : Provisions for doubtful debts	<u><b>549.03</b></u>		<u><b>377.03</b></u>
Balance	<b>27586.66</b>		24968.22
Classification :			
Unsecured & Considered good	<b>27586.66</b>		24968.22
Unsecured & Considered doubtful	<b>549.03</b>		377.03
	<u><b>28135.69</b></u>		<u><b>25345.25</b></u>
<b>Due from the Companies under the same management :</b> ( unsecured and considered good)			
Eastern Coalfields Limited	<b>2344.77</b>		2155.12
Bharat Coking coal Limited	<b>2688.65</b>		1869.52
Central Coalfields Limited	<b>2864.52</b>		2899.86
Western Coalfields Limited	<b>2562.28</b>		3631.89
South Eastern Coalfields Limited	<b>4621.41</b>		4204.37
Northern Coalfields Limited	<b>2594.40</b>		2688.14
Mahanadi Coalfields Ltd.	<b>3333.96</b>		2674.85
North East Coalfields	<b>734.45</b>		284.79
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
Total	<u><b>21761.12</b></u>		<u><b>20425.22</b></u>

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010**

**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>41.65</b>	106.14
Remittance in-transit	<b>52.30</b>	0.07
Balance with Scheduled Bank :		
In Current Account *	<b>6660.63</b>	4477.52
In Deposit Accounts **	<b>169.75</b>	130.46
 Total	 <b>6924.33</b>	 4714.19

\* Includes Rs 388.64 lakh being Govt. Grants pending disbursement

\*\* Rs 10.57 lakh encumbered for issue of Bank Guarantee  
( Previous year Rs. 2.42 lakh )

## SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010

## SCHEDULE - L

## LOANS &amp; ADVANCES

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Advance recoverable in Cash or for value to be received :		
Advances to Suppliers		
for Capital Works	229.53	8.06
for Other Stores	52.58	73.35
Advances to Contractors for other Stores		0.00
Advances to Employees:		
for House Building	55.01	76.52
for Motor Car & Other Conveyances	0.25	0.37
for Others	132.03	136.51
Deposits for P&T, Electricity, Gas etc.	49.14	48.28
Advance payment of statutory Dues		
Income-tax	1802.14	240.76
Fringe Benefit Tax	0.00	262.49
Sales Tax	9.42	9.42
Wealth tax	0.00	0.00
Pre paid Expenditure	13.99	16.78
Income Tax deducted at source	4579.49	3499.58
Subsidiaries Suspense Account	0.00	972.63
Advances to Other Government Agencies	4.87	34.50
Total	6928.45	5379.25
Less : Provisions	15.38	11.74
Balance	6913.07	5367.51
Notes :		
i) Secured & Considered good	55.26	76.89
Unsecured & Considered good	6857.81	5290.62
Unsecured & Considered doubtful	15.38	11.74
	6928.45	5379.25
ii) Amount due from an Officer of the Company Rs. Nil ( Prev. year 0.56 lakh ). Maximum balance due at any time during the year Rs 0.77 lakh (Prev. year 0.56 Lakh)		
iii) Amount due from directors of the Company Rs.4.65 lakh ( Prev. year Rs 6.30 lakh ). Maximum amount due at any time during the year Rs 9.35 Lakh ( Prev. Year Rs 11.50 Lakh )		
Company Secretary has been considered to be an officer of the company for the above disclosure.		

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010**

**SCHEDULE - M**

**OTHER CURRENT ASSETS**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Claims Receivables :		
i) Railway		-
ii) Insurance		-
iii) Others	<b>50.15</b>	<b>37.19</b>
Other Receivables		
i) Employees	<b>316.06</b>	<b>428.19</b>
ii) Others	<b>5043.51</b>	<b>414.51</b>
Total	<b>5409.72</b>	<b>879.89</b>

## SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010

## SCHEDULE - N

## CURRENT LIABILITIES &amp; PROVISIONS

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Creditors for goods :		
Capital	131.05	116.63
Revenue	103.54	148.41
Sundry Creditors for contractual expenses		
Capital	369.17	121.91
Revenue	2417.75	1126.88
Liability against Coal Block	1465.80	1566.63
Sundry Creditors for other expenses		
Power & Fuels	77.77	67.20
Others	1059.22	754.04
Employee Remuneration & Benefits :-		
Salaries, Wages & Allowances (gross)	7782.49	7467.85
Gratuity	10154.27	9286.00
Attendance Bonus	66.01	50.35
Exgratia	5747.59	259.61
Unpaid Salaries/Wages	141.25	90.90
Leave encashment	5328.83	4445.22
Statutory Dues :		
Income Tax deducted at source :		
from Employees	49.86	20.32
from Contractors	2.12	2.18
Service Tax	3034.66	2738.86
less : Service tax paid on bills	499.26	16.85
Advances & Deposits :		
from Customers	722.87	328.01
from Ministry of Coal (Annex. N - 4)	0.00	887.53
from Contractors & others *	729.98	272.75
Government Grants pending disbursement		
Energy Coal (S&T) Grants (Annex N - 1)	20.55	59.77
Other grants (Annex N - 2)	68.23	253.79
CIL R&D Fund (Annex N-3)	299.86	325.73
Current Account Balances with Holding co. & its subsidiaries		
Coal India Ltd. , Holding Co.	5025.33	5980.38
Subsidiaries Suspense Account	758.48	0.00
Current Account with N.E.C.	52.96	0.00
Other Liabilities :		
Retirement Pension Fund dues	39.59	52.72
Provident Fund dues	62.56	38.96
Cooperatives/Benevolent Fund/Recreation Club	26.01	19.63
Provisions :		
Provision for Taxation - Income Tax	5179.96	3691.11
Provision for Fringe Benefit Tax	193.77	263.71
Provision for Taxation - Wealth Tax	0.18	0.00
Non-refundable fees against Medical Scheme -		
for retired Executives	113.72	17.00
CMPF Pension Funds	527.60	0.00
Superannuation Funds	1202.86	0.00
Provision for loss of Asset	21.15	39.93
Total	52477.78	40477.16

\* Deposit includes Rs Nil Lakh ( Previous year Rs Nil Lakh ) towards Earnest Money & Security Deposit of Energy Coal S&T Grant.



## SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010

## SCHEDULE - N

## ENERGY COAL S&amp;T GRANTS

## Annex ure N-1

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Opening Balance as on 01/04/2008	59.77	104.82
Amount received from Ministry of Energy-Coal (S&T) Grant	1100.00	1000.00
Refund from Implementing Agencies	22.87	6.98
Interest on Deposits	1.13	0.00
	<b>1183.77</b>	<b>1111.80</b>
Disbursement to various Implementing Agencies :		
Andhra University	0.00	2.75
Anna University, Chennai	5.00	0.00
Annamalai University Madras	25.00	0.00
Benaras Hindu University	16.00	5.00
Central Fuel Research Institute	0.00	45.00
Central Mining Research Institute	0.00	70.00
CMERI	0.00	4.00
CIMFR, Dhanbad	430.00	330.00
CMRI	0.00	3.00
Coal Bed Methane	150.00	100.00
Humboldt Bedag	18.53	0.00
IICT	0.00	0.88
IISC, Banagalore	5.00	4.26
IIT, Delhi	0.00	0.00
IIT, Kharagpur	70.00	20.00
Indian School of Mines	0.00	0.00
ISMU, Dhanbad	25.00	28.00
Jadavpur University	15.00	0.23
Mepco College of Engg	4.00	5.00
National Institute of Rock Mechanics	18.78	10.00
Nayveli Lignite Corporation	4.50	15.94
NEIST Jorhat	20.00	0.00
Rajasthan State Mines & Minerals Ltd	0.00	0.00
Regional Research Laboratory, Jorhat	0.00	3.07
Regional Research Laboratory, Bhopal	0.00	8.00
RV College of Engg.	0.00	55.00
SAIL R&D Organisation	70.00	0.00
SCCL	0.00	80.00
T.M., Bhagalpur University	5.00	9.00
Tamil Nadu Agriculture University	15.00	0.00
Vector Control Research Centre, Pondichery	0.00	15.00
CMPDI Limited	266.41	237.90
Total Disbursement	<b>1163.22</b>	<b>1052.03</b>
Closing Balance	<b>20.55</b>	<b>59.77</b>

## SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2010

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 31/03/10
		A	B			C (A+B)	D	E (C-D)
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>178.76</b>	<b>3039.00</b>	<b>5.20</b>	<b>1488.68</b>	<b>4711.64</b>	<b>4711.64</b>	<b>0.00</b>
	Prev. Year	1431.20	3000.00	0.00	0.00	4431.20	4252.44	178.76
Environmental Measures Subsidence Control and Rehabilitation Control of Fire & Subsidence ( RCFS ) ( Annex. N.2.2)	<b>Curr. Year</b>	<b>6.61</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>6.61</b>	<b>6.37</b>	<b>0.24</b>
	Prev. Year	3.46	990.00	0.00	0.00	993.46	986.85	6.61
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>13.08</b>	<b>1080.00</b>	<b>0.08</b>	<b>0.00</b>	<b>1093.16</b>	<b>1080.51</b>	<b>12.65</b>
	Prev. Year	22.33	0.00	0.00	0.00	22.33	9.25	13.08
<b>Total</b>	<b>Curr. Year</b>	<b>253.79</b>	<b>4119.00</b>	<b>0.00</b>	<b>0.00</b>	<b>5866.75</b>	<b>5798.52</b>	<b>68.23</b>
	Prev. Year	1512.33	3990.00	0.00	0.00	5502.33	5248.54	253.79

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010**  
**Promotional Regional Exploration Grants**

**SCHEDULE - N**  
**Annex ure N-2.1**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Opening Balance	178.76	1431.20
Amount received from Ministry of Coal	3039.00	3000.00
Interest received from Bank	5.20	
Funds Receivable from M. O. C.	1488.68	
	<b>4711.64</b>	<b>4431.20</b>
Disbursement to various Implementing Agencies :		
Central Mine Planning & Design Institute Limited	573.64	293.96
CMFRI	24.38	23.71
Geological Survey of India	915.24	473.53
Mineral Exploration Corporation Limited	2447.38	3324.28
Neyveli Lignite Corporation Limited	17.49	25.63
NGRI	639.08	
SCCL	94.43	111.33
Total disbursement	<b>4711.64</b>	<b>4252.44</b>
Closing Balance	<b>0.00</b>	<b>178.76</b>

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010**  
**Environmental Measures Subsidence Control &  
Rehabilitation Control of Fire & Subsidence ( RCFS) Grants**

**SCHEDULE - N**  
**Annex ure N-2.2**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Opening Balance	6.61	3.46
Receipts from Ministry	0.00	990.00
	<b>6.61</b>	<b>993.46</b>
Disbursement to various Implementing Agencies :		
Bharat Coking Coal Limited	0.00	950.00
Eastern Coalfields Limited	0.00	0.00
EMSC Co-ord	0.00	36.85
Central Mine Planning & Design Institute Limited	6.37	0.00
Total disbursement	<b>6.37</b>	<b>986.85</b>
Closing Balance	<b>0.24</b>	<b>6.61</b>

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010**  
**C I L R & D FUND**
**SCHEDULE - N**  
**Annex ure N-3**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Opening Balance ( including disbursement to CMPDIL upto previous Financial Year)	<b>2896.12</b>	2290.08
Amount received during the year from Coal India	<b>2552.00</b>	1494.46
Interest on Deposits	<b>2.28</b>	0.00
<b>Total Receipt</b>	<b>5450.40</b>	<b>3784.54</b>
<b>Disbursement to Implementing Agencies other than CMPDIL during the year :</b>		
B. I. T. ,Mesra	<b>40.00</b>	0.00
Central Coalfields Ltd.		0.00
CIMFR, Dhanbad	<b>2100.00</b>	13.42
ECL		451.00
IIT, Kharagpur		295.00
Indian School of Mines		24.00
National Remote Sensing Agency	<b>235.00</b>	0.00
Presidency College, Kolkata	<b>5.00</b>	25.00
Systems Deptt, CIL	<b>0.41</b>	
SAIL R&D Organisation		80.00
SECL		<u>0.00</u>
Total disbursement to outside agencies (a)	<b>2380.41</b>	888.42
Balance including disbursement to CMPDIL		2896.12
Disbursement to CMPDIL (b)		
Upto previous Financial Year	<b>2570.39</b>	2289.63
During the year	<b><u>199.74</u></b>	<b><u>280.76</u></b>
Total disbursements ( a+b )	<b>5150.54</b>	<b>3458.81</b>
Closing Balance	<b>299.86</b>	325.73

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2010**  
**Grants for Detailed Drilling Work in Non-CIL Blocks**
**SCHEDULE - N**  
**Annex ure N- 4**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Opening Balance	<b>887.53</b>	2511.75
Amount received from Ministry of Coal	<b>6000.00</b>	1500.00
Interest received from Bank	<b>2.49</b>	
Funds receivable from M. O. C.	<b><u>3550.57</u></b>	
<b>Total Receipt</b>	<b>10440.59</b>	<b>4011.75</b>
<b>Disbursement to various Implementing Agencies :</b>		
CMPDI Limited	<b>10440.59</b>	3124.22
Mineral Exploration Corporation Limited	<b>0.00</b>	0.00
	<b>10440.59</b>	<b>3124.22</b>
Closing Balance	<b>0.00</b>	887.53

## CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

SCHEDULE TO BALANCE SHEET AS AT 31ST.MARCH , 2010 INTANGIBLE ASSETS(SOFTWARE)										SCHEDULE-O	
Amortisation period - 1year										RS.IN LAKH	
	COST				AMORTISATION				Net Block		
	OPG.BAL As AT 1.4.2009	ADDITION DURING THE YEAR	ADJUSTMENT FOR DISPOSAL/ DISCARDED OF INTANGIBLE ASSET	TOTAL COST AS AT 31.3.2010	OPG.BAL AS AT 1.4.2009	ADDITION FOR THE YEAR	ADJUSTMENT FOR DISPOSAL/ DISCARDED ETC.	TOTAL AMORTISATION UPTO 31.3.2010	AS AT 31.3.2010	AS AT 31.3.2009	
CMPDIL SOFTWARE (A)	181.26	41.53		222.79	181.26	41.53		222.79	0.00	0.00	
PRE SOFTWARE (B)	134.15			134.15	134.15			134.15	0.00	0.00	
S&T/CCDA/CIL-R&D SOFTWARE( C )	43.27			43.27	43.27			43.27	0.00	0.00	
TOTAL-SOFTWARE (A+B+C)	358.68	41.53	0.00	400.21	358.68	41.53	0.00	400.21	0.00	0.00	

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2010**

**SCHEDULE -1**

**SALE OF SERVICE**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Exploration	<b>24865.14</b>	17386.27
Planning & Design	<b>18638.34</b>	14315.33
Natural Resource Management	<b>1849.13</b>	1280.03
Total Sales	<b>45352.61</b>	32981.63

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2010**

**SCHEDULE -2**

**COAL ISSUED FOR OTHER PURPOSE**

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

APPLICABLE TO CIL's OTHER SUBSIDIARIES

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2010**

**SCHEDULE -3**

**OTHER INCOME**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Interest received		
on Loan to Employees	<b>7.61</b>	8.81
on Bank Deposit	<b>8.64</b>	9.00
others	<b>6.49</b>	13.78
Rent received from outsiders	<b>14.64</b>	7.04
Tender fees	<b>13.08</b>	7.27
Liquidated Damage	<b>119.42</b>	35.29
Rent Vehicles	<b>0.14</b>	0.41
Excess Provision Written Back	<b>143.03</b>	113.82
Others	<b>33.39</b>	87.54
Sale of Scrap	<b>18.81</b>	12.27
Profit on sale of asset	<b>11.30</b>	0.02
Total	<b>376.55</b>	295.25

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2010**

**SCHEDULE -4**

**CONSUMPTION OF STORES**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
POL	<b>411.63</b>	371.24
Stores & spares	<b>769.31</b>	708.60
Other stores & consumable	<b>55.67</b>	38.40
Total	<b>1236.61</b>	1118.24

## SCHEDULE TO PROFIT &amp; LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2010

## SCHEDULE - 5

## EMPLOYEES REMUNERATION AND BENEFITS

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Salaries & Wages	12916.35	14905.07
Overtime	126.54	133.17
Incentives	372.46	375.99
Leave encashments	1522.54	2468.83
Other allowances	2368.66	415.59
Contribution to PF( Annex. 1)	1575.69	1369.87
Attendance Bonus	388.95	253.65
Exgratia / P. R. P.		
a) Non - Executives	231.61	224.60
b) Executives	5515.00	91.64
LTC/LLTC	243.01	412.79
Pension		
a) Ex NCDC Employees	0.00	0.00
b) Others	538.00	45.97
Gratuity	2050.78	4880.59
Workmen Compensation	0.41	1.24
D.L.I.	13.38	29.85
Life Cover Scheme	12.18	19.51
V R S	1.53	0.00
	-----	-----
Total	27877.09	25628.36
Less : Transferred to Social Overhead (Sch - 6 )	381.91	335.82
	-----	-----
Balance	27495.18	25292.54
	-----	-----

## SCHEDULE TO PROFIT &amp; LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2010

## SCHEDULE - 5

## CONTRIBUTION TO PROVIDENT FUNDS

## ANNEX URE - 1

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Coal Mines Provident Fund	1449.44	1295.75
Coal Mines Family Pension Fund	126.21	74.12
Other Provident Funds	0.04	0.00
	-----	-----
Total	1575.69	1369.87
	-----	-----

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2010**

**SCHEDULE - 6**

**SOCIAL OVERHEAD**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Salary Wages Allowances (From Schedule - 5)	<b>381.91</b>	335.82
Free issue of Coal to Employees	<b>57.10</b>	42.17
Medical Facilities		
Medical Reimbursement	<b>325.10</b>	279.95
Medicines & Hospital Expenses	<b>153.10</b>	139.54
Grant to :		
a) Schools	<b>0.06</b>	0.02
b) Sports & Recreations	<b>22.57</b>	14.87
Canteen upkeep	<b>10.48</b>	8.25
Power (from Schedule - 7)	<b>167.27</b>	162.55
Repairs & Maintenance (Transferred from Sch. 8)		
a) Township	<b>389.50</b>	284.25
b) Other Welfare Buildings	<b>115.31</b>	76.62
c) Others (Maintenance of School Bus/Ambulance)	<b>12.90</b>	21.47
Training Expenses		
a) Within Co.	<b>39.43</b>	32.58
b) Outside Co.	<b>51.16</b>	0.00
Depreciation on Social Overhead Assets (Ref : Sch-F/F1)	<b>58.72</b>	63.83
Family Planning Expenses	<b>0.00</b>	0.01
Uniforms / Stitching Charges	<b>11.33</b>	19.73
Provision for Medical expenses to retired employees	<b>58.17</b>	3.01
Superannuation Benefits	<b>1202.86</b>	0.00
Other Benefits	<b>72.29</b>	100.34
	<b>-----</b>	<b>-----</b>
Sub Total	<b>3129.26</b>	1585.01
	<b>-----</b>	<b>-----</b>
Less ; Recoveries		
House Rent	<b>10.33</b>	7.43
Electricity	<b>43.08</b>	31.09
School bus Charges	<b>1.10</b>	1.31
	<b>-----</b>	<b>-----</b>
	<b>54.51</b>	39.83
	<b>-----</b>	<b>-----</b>
Balance :	<b>3074.75</b>	1545.18
	<b>-----</b>	<b>-----</b>

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2010**

**SCHEDULE - 7**

**POWER AND FUEL**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Purchased	<b>397.46</b>	353.47
	<b>-----</b>	<b>-----</b>
Sub Total	<b>397.46</b>	353.47
Less : Transferred to		
Social Overhead Sch-6	<b>167.27</b>	162.55
	<b>-----</b>	<b>-----</b>
Total	<b>230.19</b>	190.92
	<b>-----</b>	<b>-----</b>



**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2010****SCHEDULE - 8****REPAIRS**

	<b>Current Year (Rs. in Lakh)</b>		<b>Previous Year (Rs. in Lakh)</b>
Office Building	554.34		236.88
Repair & Maintenance Township/Residential Building	504.81		284.25
Plant & Machinery	90.58		97.10
Office Equipment & Furniture	62.80		46.89
Vehicles ( Other than School Bus / Ambulance)	51.47		56.44
Repair & Maintenance School Bus/Ambulance	12.90		21.47
Others	2.27		3.92
Sub Total	1279.17		746.95
Less : Transferred to Social Overhead Sch-6	517.71	382.34	
Less : Transferred to Misc. Expenses Sch-10	<u>34.23</u>	<u>35.14</u>	
Total	<u>727.23</u>		<u>329.47</u>

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2010****SCHEDULE - 9****CONTRACTUAL EXPENSES**

	<b>Current Year (Rs. in Lakh)</b>		<b>Previous Year (Rs. in Lakh)</b>
Contractual Works			
Drilling - MECL	3444.65		847.84
Drilling - Others	3949.74		769.99
Coal testing	162.41		163.08
Remote Sensing etc.	143.08		25.85
Total	<u>7699.88</u>		<u>1806.76</u>

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2010**

**SCHEDULE -10**

**MISCELLANEOUS EXPENSES**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Traveling		
In country	<b>808.18</b>	660.85
Outside country	<b>64.32</b>	130.32
Printing & Stationery	<b>115.45</b>	103.13
Postage	<b>5.05</b>	4.70
Telephone	<b>66.37</b>	43.35
Advertisement & Publicity		
Advertisement for :		
i) Tender	<b>57.84</b>	62.66
ii) Recruitment / Others	<b>0.15</b>	0.00
iii) Publicity	<b>0.54</b>	0.78
Freight Charges	<b>0.01</b>	2.60
Subscriptions	<b>7.44</b>	7.34
Security Expenses	<b>345.49</b>	271.03
Hire Charges		
a) Computer	<b>0.68</b>	4.32
b) Others	<b>164.36</b>	159.49
Maintenance of Cars & Jeeps :		
i) Petrol & Diesels	<b>44.24</b>	49.06
ii) Repairs (From Schedule 8)	<b>34.23</b>	35.14
iv) Road Tax	<b>20.00</b>	22.63
v) Insurance	<b>9.47</b>	9.57
Legal Expenses	<b>23.56</b>	13.61
Bank Charges	<b>11.14</b>	13.70
Consultancy Charges (CIL subsidiaries & Other jobs)	<b>226.20</b>	19.63
Auditor's Remuneration		
As Auditor	<b>2.26</b>	1.80
Traveling & Out of Pocket Expenses	<b>4.90</b>	2.22
In other capacity - Tax Audit & others	<b>0.62</b>	0.48
Internal Audit Expenses	<b>11.39</b>	10.00
Rates & Taxes	<b>30.71</b>	20.35
Rent	<b>39.76</b>	42.03
Insurance	<b>0.80</b>	1.26
Lands/crops compensation	<b>0.07</b>	0.02
Others :		
Amortisation of Software Licensing fees	<b>62.61</b>	63.53
Conference & Seminar etc.	<b>27.74</b>	28.03
Tents & Hutments	<b>195.89</b>	70.24
Shifting & Settling Exp.	<b>34.31</b>	27.73
Entertainment	<b>0.14</b>	0.10
Horticulture	<b>7.29</b>	6.87
Bad Debt Written Off	<b>0.09</b>	0.00
Wealth Tax	<b>0.18</b>	0.00
Other Expenses	<b>35.05</b>	26.51
Exchange Fluctuation	<b>0.90</b>	0.34
	<hr/>	<hr/>
Total	<b>2459.43</b>	1915.42

## SCHEDULE TO PROFIT &amp; LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2010

## SCHEDULE -11

## INTEREST

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Coal India Limited Holding Co.	3.66	20.54
Interest on Retirement Pension Fund	0.57	0.75
Interest others	22.19	27.65
Total	<u>26.42</u>	<u>48.94</u>

## SCHEDULE TO PROFIT &amp; LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2010

## SCHEDULE -12

## PROVISIONS / WRITE - OFF

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Provision :		
Doubtful debts	171.99	65.08
Doubtful Advances	3.64	0.00
Obsolescence	0.16	0.00
Reduction in value of assets	0.00	0.00
Total	<u>175.79</u>	<u>65.08</u>

**CENTRAL MINE PLANNING AND DESIGN INSTITTUE LTD.****SCHEDULE-13**

Schedule to Profit &amp; Loss Account for the year ended 31 st March 2010

**PRIOR PERIOD ADJUSTMENTS**

Particulars	Current Year ( Rs in Lakh)	Previous Year ( Rs in Lakh)
<b><u>DEBIT :</u></b>		
<u>Employees Remuneration &amp; Benefits :</u>		
Salary, Wages & Allowances	29.16	
Consultancy Fees	39.70	15.71
Consumption of Stores	45.21	5.69
Power Bill - CCL	9.24	
Depreciation	44.04	
Misc. Exp (Excess Provision)	17.09	
Interest charged for Income Tax	103.76	
sale of service	20.04	
<b>TOTAL DEBIT</b>	<b>308.24</b>	21.40
<b><u>CREDIT :</u></b>		
<u>Employees Remuneration &amp; Benefits :</u>		
a) Salary, Wages & Allowances	18.98	
Others		
Sale of Services	29.99	15.57
<b>TOTAL CREDIT</b>	<b>48.97</b>	15.57
<b>NET CREDIT (-)/DEBIT (+)</b>	<b>259.27</b>	5.83

**Segment-wise Profit Annexed to Profit & Loss Account**  
**for the Year ended 31st March 2010**

**RS. IN LAKH**

Sl.No.	Particulars	P& D	EXPLORATION	ENVIRONMENT	COMMON	TOTAL
	<u>Segment- wise Income :-</u>					
1	Segment- wise sale of sevice	18638.34	24865.14	1849.13		45352.61
						0.00
2	Segment- wise Misc. Income	212.83	159.43	4.29		376.55
						0.00
3	Segmentwise total Income ( 1 + 2 )	18851.17	25024.57	1853.42	0.00	45729.16
	<u>Segment- wise Expenditures :-</u>					
4	Salaries & Wages	11539.60	9723.79	1124.33	5107.46	27495.18
5	Other Expenses	2288.74	10522.61	210.55	2789.40	15811.30
6	Total Expenditure ( incl Dep. but excl. Interest , PP adj. and Provisions ) ( 4+5)	13828.34	20246.40	1334.88	7896.86	43306.48
						0.00
7	Share of Common cost	4068.49	3431.59	396.78	-7896.86	0.00
						0.00
8	Total Expenses with share of Common Cost ( 6 + 7 )	17896.83	23677.99	1731.66	0.00	43306.48
						0.00
9	Segment-wise Profit (+) / Loss ( - ) before Interest , PP Adj.& Tax ( 3 - 8 )	954.34	1346.58	121.76	0.00	2422.68
						0.00
10	Interest	24.21	2.09	0.13	0.00	26.43
						0.00
11	PP Adjustments Credit (-)/ Debit (+)	201.91	73.31	-15.95	0.00	259.27
						0.00
12	Segment-wise Profit (+) / Loss ( - ) before Tax & Provisions ( 9-10-11 )	728.22	1271.18	137.58	0.00	2136.98
13	Provisions					175.79
	Bad Debts					0.06
	Wealth Tax					0.18
14	Net Profit ( +) / Loss ( - ) Before Tax (12-13)					1960.95
15	Provision For Taxation- Current Year					2103.94
	Provision For Taxation-Previous Year					-196.18
16	Provision For Taxation - Frindge Benefit					0.00
17	Provision For Deferred Tax					-1093.19
18	Net Profit after Tax ( +) / Loss ( - ) ( 14 -15 -16 -17)					1146.38

**CENTRAL MINE PLANNING AND DESIGN INSTITUTE**

**CASH FLOW STATEMENT FOR THE YEAR ENDING 31ST MARCH 2010**

Amount in Rs. Lakh

PARTICULARS		2009-10	2008-09
<b>CASH FLOW FROM OPERATING ACTIVITIES :</b>			
Net Profit before taxation and extraordinary Items		<b>2220.22</b>	679.42
PP Adj ( Dr)	-	<b>259.27</b>	5.83
PP Adj (CR)	+	<b>0.00</b>	0.00
Adj. from Reserves ( Dr)	-	<b>42.67</b>	0.00
Wealth Tax Prov	+	<b>0.18</b>	0.00
Increase in Misc Exp not Written off	-	<b>0.00</b>	0.00
Decrease in Misc Exp not Written off	+	<b>0.00</b>	0.00
<b>Adjusted Net Profit</b>		<b>1918.46</b>	673.59
Adjustments for :-			
Depreciation	+	<b>590.26</b>	592.01
Profit on Sale of Assets	-	<b>11.29</b>	0.02
Loss on Sale of Assets	+	<b>0.00</b>	0.00
Amortisation of Intangible Assets	+	<b>41.53</b>	150.52
Foreign Exchange Fluction Gain	-	<b>0.00</b>	0.00
Foreign Exchange Fluction Loss	+	<b>0.90</b>	0.34
Interest Income	-	<b>22.74</b>	31.59
Interest Expenses	+	<b>26.42</b>	48.94
Operating Profit before Working Capital Changes		<b>2543.54</b>	<b>1433.79</b>
Increase in Sundry Debtors	-	<b>2618.44</b>	4905.22
Decrease in Sundry Debtors	+	<b>0.00</b>	0.00
Increase in Loans & Advances	-	<b>0.00</b>	0.00
( Excl Incone Tax & Wealth Tax)			
Decrease in Loans & Advances	+	<b>833.24</b>	764.97
( Excl Incone Tax & Wealth Tax)			
Increase in Other Current Assets	-	<b>4529.83</b>	386.28
Decrease in Other Current Assets	+	<b>0.00</b>	0.00
Increase In Inventories	-	<b>230.34</b>	0.00
Decrease In Inventories	+	<b>0.00</b>	70.90
Increase in Sundry Creditors	+	<b>10581.53</b>	3561.54
(Current Liab & Prov excl. Income Tax & Wealth Tax)			
Dcrease in Sundry Creditors	-	<b>0.00</b>	0.00
(Current Liab & Prov excl. Income Tax & Wealth Tax)			
Cash Generated From Operation		<b>6579.70</b>	<b>539.70</b>

## CASH FLOW STATEMENT FOR THE YEAR ENDING 31ST MARCH 2010 (continued....)

Amount in Rs. Lakh

		2009-10	2008-09
Cash Generated From Operation		6579.70	539.70
Income Tax Paid	-	2867.65	1045.08
Wealth Tax Paid	-	0.00	0.10
Cash Flow before Extraordinary Items		3712.05	-505.48
Proceeds from Earthquake disaster settlement			
<b>Net cash from Operating Activities</b>		<b>3712.05</b>	<b>-505.48</b>
<b>CASH FLOW FROM INVESTING ACTIVITIES :</b>			
Purchase of Fixed Assets ( incl.WIP)	-	860.55	1193.49
Proceeds from Sale of Equipment	+	14.50	0.02
Interest Received	+	22.74	31.59
<b>Net cash from Investing Activities</b>		<b>-823.31</b>	<b>-1161.88</b>
<b>CASH FLOW FROM FINANCING ACTIVITIES</b>			
Proceeds from Long-term borrowings	+	0.00	0.17
Dedrease in Long-term borrowings	-	177.45	0.00
Govt Grants	+	-473.83	-121.90
Foreign Exchange Fluction Gain	+	0.00	0.00
Foreign Exchange Fluctuation Loss	-	0.90	0.34
Interest Paid	-	26.42	48.94
Dividend Paid	-	0.00	
<b>Net cash from Financing Activities</b>		<b>-678.60</b>	<b>-171.01</b>
<b>NET INCREASE / DECREASE IN CASH &amp; CASH EQUIVALENTS</b>		<b>2210.14</b>	<b>-1838.37</b>
<b>ADD : CASH &amp; CASH EQUIVALENTS AT THE BEGINING OF THE PERIOD</b>		<b>4714.19</b>	<b>6552.56</b>
<b>CASH &amp; CASH EQUIVALENTS AT THE END OF THE PERIOD</b>		<b>6924.33</b>	<b>4714.19</b>

**SCHEDULE – 14**  
**ACCOUNTING POLICY FOR 2009-10**

**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 500000/- 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).

**SCHEDULE - 15**  
**NOTES ON ACCOUNTS FOR 2009-10**

**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 There are certain assets taken over from erstwhile NCDC/Coal Board, the value of which could not be linked up. An amount of Rs. 4.80 lakhs realised on disposal of old assets received from erstwhile NCDC and Coal Board could also not be linked up with the acquisition value. Pending adjustment the amount is lying credited to Sale of Assets Suspense Account.
- 1.1.3 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.
- 1.1.4 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 increased by Rs. 0.15 Lakh from Rs 37.17 Lakhs to Rs 37.32 Lakhs on account of issues from non moving stores.

### **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 28/02/2010. The agreed Current Account balances with the CIL Subsidiaries as on 28/02/2010 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 31/3/2010 is considered under Subsidiary Suspense Account.

4.1.2 Sundry Debtors include Rs.21761.12 lakhs due from CIL Subsidiaries. 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 31/03/2010 has not been obtained.

#### **4.2. Others**

Income tax advance of Rs. 6381.63 lakhs includes TDS of Rs.4579.49 lakhs and payments under protest against assessments for the years upto Assessment Year 2006-07. Income tax provision of Rs 5179.96 includes provision relating to assessment for the years upto Assessment Year 2010-11. Fringe Benefit Tax provision of Rs.193.77 Lakhs includes provision upto assessment year 2009-10.

### **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 28.02.2010 have been reconciled.

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

5.2.1 Current Liabilities include 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 and for deductions in March, 2010 but remitted in April, 2010.

- 5.2.2 There is also a liability for 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.
- 5.2.4 As against these liabilities 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. 527.60 lakh ( ie, 3% of Basic pay and DA) and Rs 1202.86 lakh ( ie, 6.84% of Basic pay & DA) 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 0.93 lakhs (Previous Year 4.23 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

		Rs in lakh	
		Current Year <u>2009-10</u>	Previous Year <u>2008-09</u>
(i)	Salary & Allowances including LTC/Leave Encashment	78.08	42.37
(ii)	Provident Fund	8.04	4.06
(iii)	Medical Expenses	0.65	0.86
(iv)	Value of Perquisites	15.83	0.00
(v)	Gratuity Paid	19.50	0.00

## 8.0 EARNINGS, EXPENDITURE ETC. IN FOREIGN CURRENCY

### 8.1 Expenditure in Foreign Currency

		Rs in lakh	
		Current Year <u>2009-10</u>	Previous Year <u>2008-09</u>
(i)	Foreign training /tour, books & others	35.62	53.64
(ii)	Consultancy fee	17.14	0.00
	TOTAL	52.76	53.64

## 8.2 Value of Imports Calculated on CIF Basis.

Rs in lakh

	Current Year <u>2009-10</u>	Previous Year <u>2008-09</u>
(i) Capital Goods	77.94	87.43
(ii) Spares & Components	<u>2.85</u>	<u>0.00</u>
TOTAL	<u>80.79</u>	87.43

## 8.3 Earnings in Foreign Exchange.

Rs. in Lakh

	Current Year <u>2009-10</u>	Previous year <u>2008-09</u>
Professional Fees	0.00	0.00

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

(Rs. in Lakh)

	Current Year <u>2009-10</u>		Previous year <u>2008-09</u>	
	Value	Percentage	Value	Per centage
Imported	0.00	0.00	0.00	0.00
Indigenous	1236.61	100.00	1118.24	100.00
Total	1236.61	100.00	1118.24	100.00

## 9.0 OFFICE BUILDING (PART) HANDED OVER TO GOVERNMENT :

Part of an Office Building at Ranchi has been occupied by the Government of Jharkhand with effect from 04/12/2000. The claim towards rent receivable as on 31/03/2010 is Rs. 15.42 lakhs. (Previous year Rs. 28.32 lakhs)

## 10.0 CONTINGENT LIABILITY

### 10.1 Claims against the Company not acknowledged as debt

10.1.1 Income tax matters : In respect of completed assessment pending in appeal Rs 509.17 Lakhs (Previous Year Rs .289.72 lakhs).

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

10.1.3 Service tax matters : In respect of completed assessment pending in appeal Rs. 40.24 lakhs (Previous Year Rs. 40.24 lakh) .

10.1.4 Other disputed claims pending in the courts and not provided for amount to Rs.863.82 lakhs (Previous Year Rs. 908.87 lakhs).

- 10.2 LC opened pending maturity during the year Rs 87.32 lakhs ( Previous year Rs 49.99 lakhs).
- 10.3 Estimated value of contracts remaining to be executed on capital account and not provided for amounts to Rs. 280.31 lakhs (previous year Rs 271.26 lakhs).
- 10.4 **Other matters :**
- 10.4.1 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.
- 10.4.2 There is a counter guarantee of Rs.10.57 Lakhs (Previous Year Rs. 2.42 Lakhs) issued by the Company in favour of Bank for issuing Bank Guarantee on behalf of the Company.
- 10.4.3 There are certain employees deputed by MCL in RI-VII for which no claim has been made by MCL as yet. Estimated amount of remuneration to those employees comes to Rs.80.15 lakhs.

## 11.0 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 31.03.2010 has been computed at Rs. 6260.72 Lakhs and Rs. 810.10 lakhs respectively. Net Deferred tax as at 31/03/2010 comprises of the following :

	2009-10	(Rs in lakhs) 2008-09
	-----	-----
<b>A. Deferred tax Asset</b>		
VRS	<b>6.70</b>	12.53
Software	<b>12.73</b>	11.10
Provision for obsolescence /		
Non - moving	<b>24.02</b>	29.40
Provision for doubtful debts	<b>186.62</b>	128.15
Provision for Leave Encashment		
Gatuity, VRS	<b><u>6030.65</u></b>	<u>4799.41</u>
<b>Total (A)</b>	<b>6260.72</b>	<b>4980.59</b>
<b>B Deferred Tax Liability</b>		
Difference in WDV of assets	<b>810.10</b>	623.16
Difference in WDV of the		
Software	<b><u>0.00</u></b>	<u>0.00</u>
<b>Total (B)</b>	<b>810.10</b>	623.16
<b>C Deferred Tax Asset ( Net )</b>	<b>5450.62</b>	4357.43



## **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 except in certain cases
- 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 certain cases involving Court cases etc.
- 12.3 Unclaimed liability other than that related to employees, lying for more than five years are written back to the extent not considered payable.

## **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.

**(Udayan Chakrabarti)**  
Company Secretary

**(K. Chandra Mouli)**  
Chief General Manager ( Finance )

**( A. K. Debnath )**  
Director

**( A. K. Singh )**  
Chairman-Cum-  
Managing Director

In terms of our report of even date attached.

**FOR J. N. AGRAWAL & CO.**  
(CHARTERED ACCOUNTANTS)

**(CA. Sumit Agrawal)**  
Partner

Place :

Date :

**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	0
---	---	---	---

  
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 

	7	3	8	2	4	8
--	---	---	---	---	---	---

 Total Assets 

	7	3	8	2	4	8
--	---	---	---	---	---	---

Sources of Funds : Paid-up Capital 

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

 Reserve & Surplus 

	5	4	7	4	8	2
--	---	---	---	---	---	---

Secured Loans 

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

 Unsecured Loans 

				3	6	6
--	--	--	--	---	---	---

Application of Funds: Net Fixed Assets 

	6	9	4	6	7	0
--	---	---	---	---	---	---

 Investments 

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

Net Current Assets 

(-)	5	0	1	4	8	4
-----	---	---	---	---	---	---

 Misc. Expenditure 

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

Accumulated losses 

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

 Deferred Tax 

	5	4	5	0	6	2
--	---	---	---	---	---	---

Intangible Assets 

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

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

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

( Udayan Chakrabarti )  
Company Secretary

( K. Chandra Mouli )  
Chief General Manager (Finance)

(A. K. Debnath )  
Director

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

ANNEXURE FORMING PART OF DIRECTORS' REPORT FOR THE YEAR ENDED 31.03.2010 INFORMATION AS PER SECTION 217(2A) OF THE COMPANIES ACT, 1956 READ WITH COMPANIES (PARTICULARS OF EMPLOYEES) RULES 1988.

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 2009 (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. 24,00,000/-.

-----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. 2,00,000/- per month.

----- Nil -----