



## Annual report & accounts



2008 - 2009

Central Mine Planning &  
Design Institute Limited



# **Annual Report & Accounts**

**2008-2009**



**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 2008-2009

### FULL - TIME

- |    |                    |   |          |
|----|--------------------|---|----------|
| 1. | Shri A. K. Singh   | : | CMD      |
| 2. | Shri N. Khurana    | : | Director |
| 3. | Shri A. K. Debnath | : | Director |
| 4. | Shri S. K. Mitra   | : | Director |
| 5. | Shri A. N. Sahay   | : | Director |

### PART - TIME

- |     |                    |   |                             |
|-----|--------------------|---|-----------------------------|
| 6.  | Dr. S. P. Seth     | : | Director (Upto 23.12.2008)  |
| 7.  | Dr. Rajiv Sharma   | : | Director (From 23 .12.2008) |
| 8.  | Prof. A. K. Ghose  | : | Director                    |
| 9.  | Shri N. C. Jha     | : | Director                    |
| 10. | Dr. A. K. Kundra   | : | Director                    |
| 11. | Prof. V. R. Sastry | : | Director                    |
| 12. | Dr. S. Bhandari    | : | Director                    |
| 13. | Shri S. K. Ghodke  | : | Director (Upto 05.06.2008)  |

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 02.07.2009**

### **FULL - TIME**

- |    |                    |   |          |
|----|--------------------|---|----------|
| 1. | Shri A. K. Singh   | : | CMD      |
| 2. | Shri N. Khurana    | : | Director |
| 3. | Shri A. K. Debnath | : | Director |
| 4. | Shri S. K. Mitra   | : | Director |
| 5. | Shri A. N. Sahay   | : | Director |

### **PART - TIME**

- |     |                    |   |          |
|-----|--------------------|---|----------|
| 6.  | Dr. Rajiv Sharma   | : | Director |
| 7.  | Prof. A. K. Ghose  | : | Director |
| 8.  | Shri N. C. Jha     | : | Director |
| 9.  | Dr. A. K. Kundra   | : | Director |
| 10. | Prof. V. R. Sastry | : | Director |
| 11. | Dr. S. Bhandari    | : | Director |

## NOTICE FOR 34<sup>th</sup> ANNUAL GENERAL MEETING

Ref. No. CS/AGM-34/2009/7632

Dated: 29.06.2009

Notice is hereby given to all the shareholders of Central Mine Planning & Design Institute Limited that the 34<sup>th</sup> Annual General Meeting of the Company will be held on Thursday, the 2<sup>nd</sup> July, 2009 at 11.30 A.M. at the Registered Office of the Company, Gondwana Place, Kanke Road, Ranchi to transact the following business:-

1. Adoption of the Annual Accounts:

To receive and adopt the Balance Sheet as on 31st March 2009, 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 2008-09.

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 Dr. Rajiv Sharma 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 34<sup>th</sup> Annual Report on the working of your Company along with the Accounts for the year ended 31st March, 2009 and Auditors' Report thereon.

### **PART : A**

#### **1.0 CORPORATE OVERVIEW**

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, 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. 483.71 Lakhs (after deferred tax). The working results of the company are given below:

(Rs. In lakhs)

Sales		32981.63
Less: Total Net Expenditure		31903.28
Gross Profit		1078.35
Less:		
Depreciation	284.91	
Interest	48.94	
Provision	<u>65.08</u>	
		398.93
Profit (+) / Loss (-) for the year (Before P.P. Adjustment & Tax)		679.42
Less: Prior Period Adjustment		5.83
Profit before Taxation		673.59
Provision for Income Tax:		
Less: For current year	2501.00	
For Fringe Benefit Tax	107.35	
Add: For Deferred Tax	2308.37	
For earlier years	<u>110.10</u>	
		189.88
Net Profit after Tax		483.71

## 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 is estimated to go down further to a level of about 5.7 % (RBI's authorised survey) in 2009-10. However, it is anticipated that the worst will be over in 2009-10 and the economy is bound to look up once again. In 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 Mtoe 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 2008-09 touched a new high of 493 mt, of which, major share of 81.88 % (403.7 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.
- 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. 4.84 Crores (After deferred Tax). The summary of the working results for the last three years is as follows:

Eligibility Criteria		Status of CMPDIL		
		2006-07	2007-08	2008-09
1.	Profit before Taxes (Rs .in crore)	4.47	5.00	6.74
2.	Profit after Taxes (Rs .in crore)	2.59	2.85	4.84
3.	Net worth (Rs. in crore)	46.32	47.48	52.32
4.	Net profit to net worth (%)	9.65	10.53	12.88
5.	Profit before depreciation, interest and tax to capital employed (%)	8.45	8.81	9.17
6.	Profit before interest and tax to Turnover (%)	2.97	2.66	2.19

## 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 2008 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 A. K. Singh
2. Shri N. Khurana
3. Shri A. K. Debnath
4. Shri S. K. Mitra
5. Shri A. N. Sahay

#### Official Part–Time Directors

6. Dr. S. P. Seth (Upto 23.12.2008)
7. Dr. Rajiv Sharma (From 23.12.2008)
8. Shri N. C. Jha
9. Shri S. K. Ghodke (Upto 06.06.2008)

#### Non-Official Part–Time Directors

10. Prof. A. K. Ghose
11. Dr. A. K. Kundra
12. Prof. V. R. Sastry
13. Dr. S. 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. A.K. Ghose (Non- Official part-time director) | - | Chairman |
| 2. Dr. S. Bhandari (Non- Official part-time director)  | - | Member   |
| 3. Shri A.K. 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**

CMPDIL continued its coal exploration activities in 2008-09 also, mainly in CIL and Non-CIL/Captive Mining blocks. Exploration in CIL blocks was taken up to cater to the project planning/production support needs 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.

During the year, efforts were made to enhance exploration capacity. Five additional drills were deployed for exploration increasing total deployment of departmental drills to 52. It is proposed to deploy three additional drills as soon as the required manpower is provided by the coal companies. Further action has also been taken for replacement of old drills as well as introduction of high-capacity hydrostatic and non-coring drills. Procurement actions for high-capacity hydrostatic drills have been finalized and 2 drills are expected in 2009-10. Similarly, actions have also been initiated for procurement of non-coring drills. To meet the increasing workload, recruitment of geologists & engineers (drilling) has been started by CIL by direct recruitment through campus interviews and open examination. Shortage of non-executives is being met through transfers from other subsidiaries of CIL. To meet the capacity expansion through outsourcing, two phases of National Tendering and one phase of Global Tendering were taken up and work involving 7.28 lakh m of drilling in 18 blocks was awarded.



For further expansion, CMPDIL has entered into an MoU with MECL to take up long term exploration programme of one lakh meter of exploratory drilling per annum.

## 1.1 Drilling Performance :

- 1.1.1 CMPDIL deployed its departmental resources for exploration of CIL/Non-CIL/Promotional blocks. Besides, four contractual agencies have deployed its own resources for detailed drilling/exploration in 14 blocks. Resources of Directorate of Geology & Mining of State Govts. of MP & Orissa were utilized for nominal amount of production support drilling. With these efforts, CMPDIL was able to nearly double the deployment of drilling rigs by the end of 2008-09. Drilling under MoU with MECL will commence from 2009-10 onwards. CMPDI has also carried out technical supervision of Promotional Exploration work undertaken by MECL in Coal Sector (CIL & SCCL areas) and monitored work of GSI Promotional Exploration in Coal Sector (CIL area) on behalf of MoC.
- 1.1.2 In 2008-09, CMPDIL and its contractual agencies took up exploratory drilling in 79 blocks/mines spread over 23 coalfields. These coalfields are Raniganj (8 blocks/mines), Jharia (2), W.Bokaro (2), North Karanpura (2), South Karanpura (1), Ramgarh (1), Auranga (1), Tawa Valley/Pathakhera (2), Pench Kanhan (6), Kamptee (2), Nand-Bander (2), Wardha (7), Singrauli (3), Sohagpur (10), Mand Raigarh (7), Korba (6), Hasdo-Arand (1), Bistrampur (2), Lakhanpur (1), Talcher (6), Ib Valley (3), Dilli-Joypore (1) and Makum (3 blocks). Out of 79 blocks/mines, 13 were Non-CIL/Captive blocks, 2 Promotional blocks and 64 CIL blocks/mines. Departmental drills of CMPDI took up exploration in 56 blocks/mines, contractual agencies selected through tendering started drilling in 14 blocks and State Govts carried out production support drilling in 9 mine areas.
- 1.1.3 Under Promotional (regional) Exploration Programme, MECL has undertaken Promotional drilling in 13 blocks (Katol CF = 2 blocks, Sohagpur = 4, Mand Raigarh = 2, Makum = 1 & Godavari Valley = 4) and GSI has undertaken 7 blocks (Talcher CF = 2 blocks, Ib Valley = 2, Sohagpur = 2 & Tatapani Ramakola=1) in Coal Sector.
- 1.1.4 The overall performance of exploratory drilling in 2008-09 is given below:

Agency	Target 2008-09 (metre)	Performance of Exploratory Drilling in 2008-09			Achieved Prev. Year: 2007-08 (m)	Growth %
		Achieved (metre)	Achieved (%)	+/- (m)		
A. Detailed Drilling undertaken by CMPDI (including Promotional Drilling)*:						
i.Departmental	2,09,400	2,28,178	109%	+18,778	2,01,850	13%
ii. Outsourcing:						
State Govts.	5,000	8,340	167%	+ 3,340	6,280	33%
Outsourcing in CIL Blocks	28,400	21,450	76%	- 6,950	1,071	1903%
Outsourcing in Non-CIL Blocks	17,200	14,393	84%	- 2,807	0	-
Total A:	2,60,000	2,72,361	105%	+12,361	2,09,201	30%
B. Promotional (regional) Drilling undertaken by MECL & GSI in Coal Sector:						
MECL	34,600	43,178	125%	+ 8,578	55,717	-23%
GSI	9,000	15,573	173%	+ 6,573	11,473	36%

<b>Total B:</b>	<b>43,600</b>	<b>58,751</b>	<b>135%</b>	<b>+ 15,151</b>	<b>67,190</b>	<b>-13%</b>
<b>Total A+B:</b>	<b>3,03,600</b>	<b>3,31,112</b>	<b>109%</b>	<b>+ 27,512</b>	<b>2,76,391</b>	<b>20%</b>

\* In 2008-09, departmental drills have carried out 5646m of drilling in Promotional block (2992m in 2007-08), 1,62,595m in CIL blocks and 59,936m in Non-CIL/Captive Mining Blocks. The DGM of St. Govts. has taken up drilling in CIL blocks only.

In 2008-09, CMPDI achieved its departmental and overall drilling targets by 109% and 105%, respectively. The performance of departmental drilling was better than previous year by 18,778m with 13% growth, recording average operational drills productivity of 397m/drill/month which is better than achieved in previous year i.e. 374 m/dr/mth. Achievement of outsourced drilling was less as local problems in a CIL block resulted in late starting of work whereas drilling in 3 non-CIL blocks could not start in 08-09 due to non-availability of permission to explore in forest areas. MECL and GSI have also achieved 2008-09 BE targets of Promotional drilling.

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

CMPDIL has 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 drills and outsourcing. An allocation of Rs.893.89 crores has been requested for such purpose. In 2008-09, a target of 1,07,500m was envisaged (departmental=49,000m, outsourcing=58,500m) which was lowered to 66,200m (departmental=49,000m, outsourcing=17,200m) due to time consumed in tender processes, non-availability of suitable agencies in tendering and non availability of permission to explore in forest areas. As against this, the departmental drills of CMPDIL have carried out 59,936m of exploratory drilling whereas contractual parties have carried out 14,393 m of drilling. The block-wise achievement of drilling in 2008-09 is given below:

Agency/ Command Area	Coalfield	Block	Drilling in 2008-09 (m)
<b>A. CMPDI (Departmental):</b>			
CCL	Auranga	Rajbar ABC	9485
WCL	Kamptee	Bharatwada	5085
	Nand-Bander	Mandwa	5620
SECL	Sohagpur	Malachua	7570
MCL	Talcher	Bankui	6159
		Mahanadi	12995
	Ib Valley	Prajapara	13022
<b>Sub-total A (Departmental):</b>			<b>59,936</b>
<b>B. Outsourcing through open tendering:</b>			
SECL	Mand Raigarh	Syang Central 'A'	9119
		Syang East 'B'	1517
		Syang North West	1629
		Syang South	395
		Chirra North	1148
	Hasdo-Arand	Morga South	585
<b>Sub-total B (Outsourcing):</b>			<b>14,393</b>
<b>Grand Total of Drilling in Non-CIL blocks:</b>			<b>74,329</b>

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

Apart from the above exploration work, CMPDIL has provided preliminary geological information of existing Captive Mining Blocks to MoC for allotment purpose.

CMPDIL 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 2008-09 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. For this purpose, CMPDI continued the Promotional drilling in Chimri block of Tawa Valley CF and South of Marwatola block in Sohagpur Coalfield. A total of 5,646m (1,916m and 3,730m, respectively) has been drilled in these blocks in 2008-09. The work is continuing.

As stated earlier, CMPDIL has also carried out technical supervision of Promotional Exploration carried out by MECL in Coal Sector (13 blocks) and monitored Promotional Exploration conducted by GSI in 7 blocks. The performance of Promotional drilling is given in para 1.1.4 above.

### **1.2 Hydrogeology:**

- 1.2.1 Hydrogeological studies of a number of mining projects were taken up for preparation of 'Groundwater Clearance Application' for CGWA approval and EMP clearance. Studies of 29 projects in ECL, NCL, WCL, SECL and NEC areas were completed during 2008-09 and many other projects of BCCL, CCL, SECL and NEC area are under progress.
- 1.2.2 Hydro geological notes on ground water condition of 6 WCL projects, as part of PR & GR, have also been completed during this period. CMPDIL also took up groundwater monitoring of 63 MOEF cleared projects in WCL area.
- 1.2.3 Hydrogeological studies for mine seepage problem in 4 projects of ECL and SECL were completed. Hydrogeological studies in 3 projects of ECL and SECL have also been carried out for water supply arrangement.
- 1.2.4 Construction of piezometers at Dipka OCP, SECL has been completed under supervision of CMPDIL. The same is under progress in other opencast mines of SECL. CMPDIL has also provided design of piezometers for underground mines of SECL.
- 1.2.5 Hydrogeological investigation of Kasta block (Raniganj Coalfield) for Underground Coal Gasification studies has been taken up during the year and work is under progress.

### **1.3 Geological Reports:**

- 1.3.1 In 2008-09, a total of 20 Geological Reports were prepared on the basis of detailed exploration conducted in previous years. Out of it, 2 GRs were on Captive Mining blocks and rest were for CIL blocks. The Geological Reports prepared have brought 2.74 Billion Tonnes of coal resources under 'Proved' category besides estimating 0.25 Bt of resources in 'Indicated' category

- 1.3.2 Under Promotional Exploration Programme, GSI and MECL have submitted nine Geological Reports on coal blocks, estimating 4.2 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 by five geophysical logging instrument to get the insitu information of different strata encountered in the boreholes. During the year 2008-09, CMPDIL studied 188 boreholes with multi-parametric Geophysical Logging. A total of 43,386 depth metre of geophysical logging had been carried out for this purpose in CIL, Non-CIL and UNDP CBM Project area.

- 1.4.2 **Surface Geophysical Surveys:** CMPDIL has also undertaken Electrical Resistivity and Magnetic surveys in CIL and Non-CIL blocks for delineation of incrop of coal seams, assessment of geometry of block and for other purpose like groundwater investigations and delineation of dykes. A total of 134 line km. of Resistivity profiling, 98 no. of Vertical Electrical Soundings and 3605 no. stations of Magnetic Survey have been carried out in 2008-09 for such purpose. Procurement of one 48 channel signal enhancement Seismograph has also been made in the year to enhance the capability of CMPDIL.

#### **1.5 Geosystem:**

- 1.5.1 A total of 13 Geological Reports were processed using in-house CEMPGEODOC software and imported Minex (Gemcom) software in 2008-09.

- 1.5.2 The Government funded project 'Integrated Coal Resources Information System' continued in 2008-09 also under the Promotional Exploration Scheme. The project is being implemented from nine data centers located at seven Regional Institutes of CMPDIL and one each at CMPDIL (HQ) and SCCL, Kothagudem. Different types of Hardware and Software worth Rs.6.8 Lakh (Cumulative Rs.3.8 crore since start of project) were procured during 2008-09 and installed at the data centers for carrying out the project activities. Borehole data capture from Geological Reports of explored coal blocks/mines, prepared by different agencies (GSI, IBM, NCDC, CIL, MECL, St.Govts. etc.) has been completed for about 1000 GRs before 2008-09 and checking for finalization was under process during the year. Collection of colliery plans and the key maps of GRs have also been taken up for Map Data Capture and 2029 plans (cumulative 4433 plans till March '09) have been handed over to an outside agency during 2008-09 to carry out the digitization / vectorisation work and for GIS conversion. Out of it, 623 plans have been finalized during 2008-09 (cumulative 767 plans till March 2009). The integration of survey reference pointing to a single origin is being carried out in all data centers and data pertaining to 173 blocks (cumulative 631 blocks till March 2009) completed during 2008-09. Updation of coalfield maps and identification of zones for 16 coalfields (cumulative 57 till March 2009) has also been completed. Processing of data of 461 blocks (cumulative 690 blocks till March 2009) for creation of geological model have been completed during 2008-09. An Expression of Interest has been invited through advertisement for Design & integration of RDBMS and GIS. Various offers have been received and currently demonstration by the vendor is in progress for selection of suitable vendor.

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

### **1.6.1 UNDP/Global Environment Facility (GEF) -GoI Project: Coalbed Methane Recovery and Commercial Utilisation**

A demonstration project named Coalbed Methane Recovery & Commercial Utilization has been taken up by Govt. of India in collaboration with United Nations Development Programme (UNDP) / Global Environment Facility (GEF) at Moonidih and Sudamdih Mines of Bharat Coking Coal Ltd. in Jharia coalfield under the S&T project of MoC. The project has been successfully implemented by Central Mine Planning & Design Institute Ltd. (CMPDIL) in association with BCCL on behalf of Ministry of coal, Govt. of India in December 2008 through demonstration of power generation.

The project was sanctioned at an estimated cost of Rs. 76.85Crores (USD18.082 million) by Govt. of India vide letter No.34012/15/96-CRC dated 15<sup>th</sup> September, 1999 with a project duration of 5 years. Ministry of Coal approved the Revised Cost Estimate (RCE)-June'2004 vide F. No. 34012/15/98-CRC (vol II) dated 17th August'2006 for Rs 92.427Crores with the completion schedule December'2007. Completion schedule was revised to December, 2008 vide DEA office memorandum no. F.No. 7/2/2003-FB-VIII dated 18<sup>th</sup> Feb'08 in existing form. Project will be completing remaining objectives as S&T Project by December, 2009 to essentially achieve the following:

- (a) Demonstration of Power generation based on CBM gas recovered from two vertical wells at Moonidih.
- (b) Demonstration of utilization of CMM gas from underground drilling used as compressed fuel in gas based engine trucks at Sudamdih.

During the year 2008-09, following key activities were undertaken:

#### **(i) CBM Activities at Moonidih**

- (a) Two vertical wells have been drilled by CMPDIL drilling team with BCCL support team, Thereafter, three potential coal seams in each well have been stimulated in association with ONGC. CBM gas is under recovery from two vertical wells (CBM04 & CBM10).
- (b) Gas recovery commenced in April, 2008 with dewatering by PC Pump at the second drilled well (CBM10). Power generation through recovered gas was demonstrated on 27<sup>th</sup> June, 2008 at Moonidih by installation of indigenous make gas based generators. At present recovery of gas is in progress through SRP pump and gas is being regularly fed to 2x250 KW generators.
- (c) At the first drilled well (CBM04) dewatering started on 11<sup>th</sup> November, 2008 by PC pump. Gas recovery was established and pressure built up to 300psi achieved. The recovered gas is being supplied to Gen sets for power generation from 11<sup>th</sup> Feb'09.
- (d) Regular drilling of 12 ¼" size in 3<sup>rd</sup> CBM well commenced on 7<sup>th</sup> Jan'09 by CBM Rig and completed on 30<sup>th</sup> Jan'09 to a depth of 205m. 9 5/8" casing

lowered down to the drilled depth after Geophysical logging, Thereafter, ONGC completed cementation job by Cementation Unit of the Project on 5<sup>th</sup> February'09. The regular drilling of 8½" is likely to commence in April'09 on receipt of PTO which is being imported from Canada through Indian agent of OEM.

- (e) Power generation has been demonstrated successfully on 27<sup>th</sup> June'08 at Moonidih by 250 KW generator. Another 250 KW Generator has also been installed and generated power is being supplied to DM (Bardubhi) and CPP Colony of Moonidih Project. Total 3, 95,010kWh has been generated during the year 2008-09. The cost of power generation from this project compares favourably with the cost of power being generated from fossil fuel presently in India.

## **(ii) CBM Activities at Sudamdih**

- (a) Long hole drilling Rig and Down Hole Motor have been commissioned in Seam XV at 300mH to drill 2 7/8" horizontal directional wells to drain the methane gas (CMM) through main well from various directional side wells in up dip side.
- (b) A tailor made Steering tool (Package-04B) was designed for directional drilling in pre-defined drill paths in underground coal seams which was manufactured and supplied by M/s Russel Sub-Surface Systems Ltd (RSS)/UK in June'08. Commissioning was attempted by the supplier at site in July'08 and Sept/Oct'08 but was not successful. Due to non-commissioning of the Steering tool, underground directional drilling could not be commenced. Steering tool & accessories has been returned to M/s RSS-UK through UNIDO/Delhi for repairing at their works in UK which reached UK on 4<sup>th</sup> December'08. Testing of repaired Steering tool (Package-04B) designed for directional drilling in pre-defined drill paths in underground coal seams has been done at M/s Russel Sub-Surface Systems Ltd's (RSS) Works at Abadeen/UK and system testing is in progress. Due to non-commissioning of the Steering tool, underground directional drilling could not be commenced. Supplier informed that the Steering tool & accessories is likely to be sent back to Project site after satisfactory testing at their works. UNIDO is pursuing for successful commissioning and commencement of drilling at an early date to complete their last obligation.
- (c) Gas Control and Compression unit has been procured and delivered at site.
- (d) The recovered gas (CMM/CBM) will be utilized for demonstration of the running of gas based (engine) mini trucks at Sudamdih.

## **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 CMPDIL 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 2003 for Jharia CBM block after which the work as detailed in the Minimum Work Programme was taken up.

CMPDIL 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 CMPDIL and submitted to ONGC in Feb'08. This report has facilitated formulation of Development Plan by ONGC.

ONGC is carrying out exploratory/pilot well as per Minimum Work Programme in this block, which is scheduled to be completed by 27.04.09. The production of methane is envisaged to start from 2010.

ONGC has submitted a draft Development Plan of Parbatpur Sector, (18 Sq. Km area) within Jharia CBM block with a capital outlay of Rs. 1679.55 Crore to Directorate General of Hydrocarbons (DGH) for approval of the Govt., which is necessary to proceed further for taking up envisaged Development and Production Phases.

The Participating Interest (PI) of CIL in Jharia CBM block is 10% with an option to increase it to 26% from Development Phase. An exercise on techno-economic feasibility analysis and risk assessment for evolving a strategic business perception in regard to enhancement of CIL stake from 10% to 26% is being carried out at CMPDIL as well as CIL level on the Development Plan submitted by ONGC.

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

The Govt. of West Bengal granted Petroleum Exploration License (PEL) for Raniganj CBM block on 09.06.2004.

The drilling of slimholes commenced on 23<sup>rd</sup> March, 06 and all the 8 slimholes has been completed in Nov. '07 involving 7853.50m of drilling.. The samples generated in the slimholes have been sent to labs of CIMFR for generation of CBM specific data and CMPDIL labs for chemical and geo-engineering data. A report based on slimhole drilling & other available data is under preparation.

ONGC has taken up drilling of exploratory well in the block wherein CMPDIL officials are also associated.

### **1.6.3 ESTABLISHMENT OF CMM / CBM CLEARINGHOUSE IN INDIA:**

As a sequel to MOU signed between Ministry of coal, Govt. of India and United States Environmental Protection Agency (USEPA) on 16<sup>th</sup> November '06, India CMM/CBM Clearinghouse was opened at CMPDIL, Ranchi on 17<sup>th</sup> Nov. '08 under the aegis of US EPA and Ministry of Coal.

The objectives of the clearinghouse are:

- To promote CBM/CMM industry in India.
- To be the public face of CBM/CMM industry in India
- To be the initial point of contact for foreign and domestic investors

The kick-off event was inaugurated by Secretary, Coal, Govt. of India and attended by officials of Ministry of Coal, Chairman, Coal India Ltd., chief executives of the coal industry, CBM players in India and abroad, Consul General, US Consulate, Kolkata and USEPA officials.

The clearinghouse has been established with financial support from Coal India Ltd on behalf of Ministry of Coal and US EPA.

- a. CIL: Rs 2.77 crore
- b. USEPA: Rs 0.92 crore

#### **1.6.3.1 Launching of Website of Clearinghouse:**

The website of the Clearinghouse, <http://www.cmmclearinghouse.cmpdi.co.in> was also launched on 17<sup>th</sup> Nov. 2008.

#### **1.6.3.2 Organization of an International Workshop:**

The opening ceremony of the Clearinghouse was followed by a two day international workshop on “*Development of CBM/CMM in India: An opportunity area*”. Officials of MoC, CMPDI, DGH & USEPA, academicians and CBM players in India and abroad etc made very informative and technical presentations on the development of CBM, CMM and VAM.

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

CMPDI has received a work order in March’08 from Directorate General of Hydrocarbons (DGH) for preparation of data dossiers on 8 prospective CBM blocks located in 8 different coalfields for 4<sup>th</sup> round of Global bidding. The total value of the work is Rs 3.91 crore.

CMPDI has submitted the data dossiers comprising three volumes of Data Package and one volume of Information Docket for each of the 8 prospective CBM blocks to DGH in January 2009. The data dossiers have been submitted in hardbound volumes as well as in soft discs as web-enabled HTML documents.

These data dossiers form part of the bid document of CBM –IV global bidding invited by Directorate General of Hydrocarbons on behalf of Ministry of Petroleum and Natural Gas.

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

CMPDIL 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 Plan Period.

During 2008-09, a total of 6 boreholes located in different coal/lignite fields were taken up for studies and samples collected for desorption and other tests.

Three reports based on CBM related studies carried out during X Plan period were submitted.

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

A CIL R&D project titled “Development of CMPDIL 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.

The prospective CMM areas in coalfields of ECL, BCCL and CCL have been identified. Collection and collation of available data/ plans are in progress for the identified area.

The bids invited for engagement of national and international consultants, as envisaged in the approved project are under evaluation.

#### **1.6.7 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 has been approved by NCL and SECL respectively.

Bidding process for generation of CBM specific data through slimhole drilling in both the coalfields is under finalization. Drilling work is likely to commence in May 2009.

#### **1.6.8 CMTF PROJECT ON VAM:**

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. A detailed project proposal is under formulation.

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

##### **1.6.9.1 Generation of UCG Specific additional data in Kasta Block, Raniganj Coalfield**

CIL has entered into an MOU with ONGC to jointly pursue UCG Projects. For selection of suitable block for pilot scale studies, data package for five prospective blocks were prepared by CMPDI and submitted to ONGC. Russian consultants appointed by ONGC evaluated the data packages and suggested for generation of additional data in Kasta Block for further studies.

- As per requirement of Russian consultant, generation of hydro-geological data has started in Kasta block in December 2007.
- Exploratory drilling in Kasta UCG block for generation of other additional data has been taken up.

### **1.6.9.2 Identification of Coal/Lignite Blocks for UCG.**

CMPDIL along with GSI, SCCL, 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.

- 7 blocks (5 lignite and 2 coal) have been identified for the development of UCG and communicated to MoC.
- Two coal blocks within CIL command area for development of UCG has also been identified and communicated to CIL in October 2008

### **1.6.9.3 Initiatives for UCG development in CIL**

In line with the decisions taken in 19th meeting of Functional Directors of CIL, CMPDIL has prepared a detailed presentation on “Underground Coal Gasification: An opportunity area for CIL / CMPDIL. This will be presented before CIL’s FDs meeting for deciding modalities for commercial development of UCG through some collaborative arrangement.

## **2.0 PROJECT PLANNING & DESIGN**

During the year 2008-09, 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.

In addition to the 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 deployment of Longwall and Continuous Miner technology in underground mines of CIL as well as for high speed incline drivage and shaft sinking.

During the year 2008-2009, 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, etc.

During the year 2008-2009, a total of 441 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	20
Project Reports/ Revised Cost Estimates	36
Operational Plans	11
Other Studies	168
EMPs (including 180 Form-I)	206
<b>TOTAL</b>	<b>441</b>

Detail of reports prepared during the period 2008-2009 is furnished in Annexure-I.

## LIST OF COMPLETED REPORTS DURING 2008-09

Regional Institute/HQ	Name of the Reports
<b>Geological Reports</b>	
<b>HQ</b>	1. Tipong OC 2. PQ OC
<b>RI-I</b>	1. Bhanora West 2. Bansra Deep 3. Adjoy-II 4. Dabor
<b>RI-II</b>	1. Block IV
<b>RI-III</b>	1. Kerendari 'B' & 'C' (Non-CIL) 2. Kedla Integrated
<b>RI-IV</b>	1. Yekona-II Extn. 2. Bhansuli 3. Pisgaon
<b>RI-V</b>	1. Rai East and Bijari (Recasting for PR) 2. Rajnagar OC (Recasting for PR) 3. Porda 4. Batura Western Extn.
<b>RI-VI</b>	1. Chhatrasal (Non-CIL) 2. Kakri North
<b>RI-VII</b>	1. Kalinga East (Including part of Konark) 2. Kalinga West (With extended area)
<b>Project Reports</b>	
<b>HQ</b>	1. Natraj UG 2. Talcher West UG 3. PR for FBC based Thermal Power Plant based on washery rejects at Piparwar 4. Argada OCP
<b>RI-I</b>	1. Nakrakonda UG (Reorg.) 2. Bansra (CM) UG 3. Rangamati 'B'
<b>RI-II</b>	1. PR for dealing with fire by excavation method below Dhanbad-Patherdih Railway Line at Bararee & Bagdigi Collieries, Lodna Area 2. Block-III (Coking & Non-Coking) OCP (with I Seam as base)
<b>RI-III</b>	1. Karma OCP 2. Tarmi OCP 3. Govindpur Ph-II OC 4. Tetariakhar Expn. OC 5. Godo OC (XI Plan) 6. Pachra Integrated OC (XI Plan) 7. Parej West OC (XI Plan) 8. Koed/Manatu OC (XI Plan)
<b>RI-IV</b>	1. Makardhokra-III OC (XI Plan) 2. Kolgaon OC RPR (XI Plan) 3. Ghonsa OC RPR (Central & South) (XI Plan) 4. Nand-I UG (XI Plan) 5. Jamunia UG (XI Plan) 6. Pauni-III OC (XI Plan) 7. Yekona-I Extn. (XI Plan) 8. Kamptee Deep (XI Plan)



- |               |  |
|---------------|--|
| <b>RI-V</b>   | 1. Bodri/Bodri North UG (XI Plan)      |
|               | 2. Durgapur OC(XI Plan)                |
|               | 3. Pathakpur UG (XI Plan)              |
| <b>RI-VII</b> | 1. Basundhara West Expn. OCP (XI Plan) |
|               | 2. Lajkura Expn. OCP                   |

***Revised Cost Estimates***

- |               |                                      |
|---------------|--------------------------------------|
| <b>RI-I</b>   | 1. Sarpi UG (CM)                     |
|               | 2. Dhangajore UG Mine                |
|               | 3. JK Nagar UG Mine                  |
|               | 4. Introduction of CM at Kottadih UG |
| <b>RI-IV</b>  | 1. Urdhan OC                         |
| <b>RI-VII</b> | 1. Basundhara (W) OCP                |

***Operation Plans***

- |              |                        |
|--------------|------------------------|
| <b>RI-I</b>  | 1. Sonepur Bazari A OC |
| <b>RI-IV</b> | 1. Umrer OC            |
|              | 2. Ghughus OC          |
|              | 3. Sasti OC            |
| <b>RI-VI</b> | 1. Jayant OC           |
|              | 2. Bina Expn. OC       |
|              | 3. Amlohri OC          |
|              | 4. Dudhichua OC        |
|              | 5. Nigahi OC           |
|              | 6. Khadia OC           |
|              | 7. Kakri OC            |

***Other Reports***

- |              |   |
|--------------|---|
| <b>RI-I</b>  | 1. Scheme for additional 3 Mty CHP at Rajmahal OCP  |
|              | 2. Blast efficiency improvement study at Rajmahal OCP   |
|              | 3. Conceptual Report on OC Patch working through outsourcing of Madhaipur OC Patch  |
|              | 4. Conceptual Report on OC Patch working through outsourcing of Bonbahal OC Patch   |
|              | 5. Gas Ssurvey at Narsamuda UG  |
|              | 6. Conceptual Report on OC Patch working through outsourcing of Samla OC Patch  |
|              | 7. Conceptual Report on OC Patch working through outsourcing of Chuperbhita Patch OCP   |
|              | 8. Ventilation Study at Lower Kenda Colliery  |
|              | 9. Ventilation Study at Chora 10 Pit  |
|              | 10. Blast Vibration Study at Nakrakonda Patch OCP   |
|              | 11. Conceptual Report on OC Patch working through outsourcing of OC Patch at deep mining zone of Rajmahal OCP                 |
|              | 12. Conceptual Report on OC Patch working through outsourcing of Naraikuri OCP  |
|              | 13. Blast Vibration Study at Kottadih Patch OCP   |
|              | 14. Global Bid Document for introduction of second Continuous Miner at Jhanjra UG   |
| <b>RI-II</b> | 1. Recast PR for introduction of Continuous Miner for exploitation of IVB seam at Dhansar Colliery                            |
|              | 2. Master Plan for dealing with fire, subsidence & rehabilitation in the leasehold of BCCL (Updated March, 2008)              |
|              | 3. Report on Foreclosure of Revised Project Report on Pootkee-Bulluary  |
|              | 4. Preparation of Global Tender Document for PSLW Set for Moonidih XVI Top seam including technical and commercial evaluation |
|              | 5. Report on site selection for setting up of 6 new washeries in BCCL on BOM  |

	concept
	6. Energy Audit Report for Pootkee Bulliary Mine (PB Project)
	7. Energy Audit Report for Block-II OCP, Block-II Area
<b>RI-III</b>	8. Energy Audit for Jamunia OCP
	1. Report on abandoned/closed mines of CCL
<b>RI-IV</b>	2. UCE for Amrapali OCP (12 Mty)
	1. Report on dispensing of truck transport system by replacing with conveyors for Saoner Sub-Area, Nagpur Area
	2. Report on dispensing of truck transport system by replacing with conveyors for Wani Area
	3. Scheme for augmentation of production at Mahadeopuri UG
	4. Scheme for augmentation of production at Vishnupuri-I UG
	5. Scheme for augmentation of production at Neharia UG
	6. Scheme for augmentation of production at Mathani UG
	7. Scheme for augmentation of production at Ballarpur 3 & 4 Pits UG
	8. Scheme for drivage of drifts and estimation of extractable reserves for production augmentation of Damua Colliery
	9. Report on dispensing of truck transport system by replacing with conveyors for Umrer Area
	10. Energy Audit Report (Electrical) with benchmarking of Sasti UG
	11. Diversion of AMB River Phase-IV & assessment of blocked reserves
	12. Recast PR for Chincholi OC (XI Plan)
	13. Report on dispensing of truck transport system by replacing with conveyors for Ballarpur Area
	14. Scheme for New Majri OC for Sec. IA & IIB
	15. Mining Plans for Ghorawari, Damua UG/OC and Nandan UG
	16. Energy Audit Report (Electrical) with benchmarking of Pimpalgaon OC
	17. Scheme for departmental surface transport in five areas (Wani, Wani North, Umrer, Chandrapur & Ballarpur) of WCL
	18. Mining Plans for Sasti UG to OC, Dhuptala OC, Rajur/Bhandewada OC & Umrer OC
	19. Energy Audit Report (Diesel) with benchmarking of Gauri-I OC
	20. Scheme for Niljai Deep OC
	21. Scheme for acquisition of land for the purpose of depillaring with caving operation at Saoner UG No.2, WCL
	22. Revised scheme for introduction of Continuous Cutting Technology at Maori UG
	23. Scheme for New Majri Sec. A Extn. OC (Phase-I)
	24. Updation of PR of Saoner Mine-I Ext. UG
	25. Energy Audit Report (Diesel) with benchmarking of Gauri-II OC
	26. Scheme for augmentation of production at Thesgora UG
	27. Scheme for augmentation of production at Rawanwara Khas UG
	28. Scheme for Motaghat OC for Departmental option
	29. Mining Plans for Gauri I & II OC, Pauni OC, Bellora and Naigaon OC
	30. Recast Report of Naigaon - Bellora OC
	31. Energy Audit Report (Electrical) with benchmarking of Sarni OC
	32. Scheme for Pipalgaon OC
	33. Energy Audit Report (Electrical) with benchmarking of Rajur/Bhandewada UG
	34. Energy Audit Report (Diesel) with benchmarking of Kamptee OC
	35. Scheme for Telwasa OC
	36. Gas Survey of Seam III B at Thesgora Mine
	37. Scheme for Dhau North UG (Nandan-2)
	38. Mining Plans for Durgapur & Chanda Rayatwari Colliery, Kamptee OC, Gondegaon OC, Inder UG to OC, Ghughus OC & Nakoda OC
<b>RI-V</b>	1. Report on controlled blasting study and blast pattern for Dragline bench at Amlai OCM

	2. UCE of Jhiria UG
	3. UCE of Baroud OC Expn. (3 Mty)
	4. UCE OF Kartali OC (2.5 Mty)
	5. Report on fragmentation study by using JK SIM BLAST at Kusmunda OC
	6. Scheme for drift drivage at Palkinora UG Mine
	7. Report on controlled blasting study at Kanchan OC, Johilla Area
	8. UCE of Dipka OC (20-25 Mty)
	9. Report on controlled blasting study at Jamuna OC
	10. Report on subsidence prediction & management for Bagdewa Mine
	11. Report on controlled blasting study at Mahan OC
	12. Report on controlled blasting study at Dhelwadhi UG
	13. Report on controlled blasting study at Rajnagar OC
	14. UCE of Gevra OC (25-35 Mty)
<b>RI-VI</b>	15. Controlled blasting study at Birsingpur Pali UG & Jamuna OC
	1. Mining Plans for Dudhichua OCP (15 Mty) & Jayant OCP (15 Mty)
	2. Scheme for inpit crushing & conveying for Jayant East Section (5 Mtpa) & West Section (5 Mtpa)
	3. Outsourcing Scheme for development of Western Sector of Khadia OCP
	4. Mining Plan for Block-B OCP
<b>RI-VII</b>	5. Scheme for Kakri EPR
	1. Mining Plans for Gopalprasad OCP (15 Mty) and Orient Mine No.4
	2. UCE for Garjanbahal OCP (10 Mty)
	3. Recast PR of Lakhanpur OCP Expn. (Ph-II) (15 Mty) (5 Mty Incr.)
	4. Recast PR of Ananta OCP Expn. (Ph-III) (15 Mty) (3 Mty Incr.)
	5. Mining Plan for Orient Mine No.1&2
	6. Recast PR of Hingula-II OCP Expn. (Ph-III) (15 Mty) (7 Mty Incr.)
	7. Mining Plans for Hingir Rampur Colliery and Hingula Expn. OCP (15 Mty)
	8. Mining Plans for Orient Mine No.3, Balaram Extn. OCP (8 Mty) & Hirakhand Bundia Incline
	9. Scheme of transport reorganization and surface CHP of Orient Mine No.1 & 2
<b>HQ</b>	1. Assessment of capacity in opencast mines of CIL - Projections as on 1.4.2008
	2. Report on RMR and Rock Load of Haripur Colliery (Dobrana Seam), ECL
	3. Report on RMR and Rock Load of Shyamsunderpur Colliery (R-VII & R-VIIIB Seam) and Kalidaspur Colliery (R-IXA Seam), ECL; Sirka UG Mine (Upper & Lower Semana Seam), CCL & Tipong Colliery, NEC
	4. UCE of Lekhapani OC (0.25 Mty), NEC
	5. Report on RMR & Support Layout of Karo Special Project, III Seam, CCL
	6. Controlled blasting and vibration study at KDH-B OCP
	7. Report on RMR and Rock Load of Moonidih Project (XV Seam Top), Ramkanali Colliery (IV Seam Top) & Loyabad Colliery (VIIIA/VIII Seam) of BCCL
	8. Subsidence prediction study for Parej East UG Mine, CCL
	9. Energy Audit of CMPDI Complex
	10. Benchmarking of diesel consumption and fixation of diesel consumption norms in Mugoli Mine of WCL
	11. Illumination survey of Dudhichua, Amlohri, Jayant & Nigahi Opencast Projects of NCL
	12. Report for installation of energy meter in Piparwar & KDH Opencast Projects of CCL
	13. Controlled blasting and vibration study at Bhubaneswari OCP, MCL
	14. Ventilation analysis for Sarpi Mine, ECL
	15. Ventilation analysis for J.K. Nagar Mine, ECL
	16. Report on RMR & Rock Load of Tilaboni Colliery (R-VIIIB), Hariajam Colliery (Singpur Top Seam) & Lakhimata Colliery (Mugma Spl Seam) of ECL

17. Land Use / Land Cover Mapping of Buffer Zone of Mugoli OCP Expn., WCL
18. Land Use / Land Cover Mapping of Buffer Zone of New Majri OCP Expn., WCL
19. Controlled blasting and vibration study at Kabribad OCP, CCL
20. Land Use / Land Cover Mapping of Buffer Zone of Padmapur OCP Expn., Durgapur OCP Expn. & Kolarpimpri OCP Expn. of WCL
21. Land Use / Vegetation Mapping of Karanpura & West Bokaro Coalfield
22. Gas Survey of Damini UG Mine, SECL
23. Capacity assessment and capacity utilisation for underground mines of CIL (2008-09)
24. Report on RMR & Rock Load of Bhowra South Colliery (IV Top Seam), Mudidih Colliery (IV Top Seam) & Phularitand Colliery (VIIIA Seam) of BCCL
25. Bid Document for Ashoka Washery (10 Mty capacity), CCL on BOM concept
26. Schemes / Techno-Economic Study for introduction of suitable man riding system for 9 Mines of SECL
27. Gas Survey for Basantimata Colliery, BCCL
28. Scheme & Tender Document for installation of man riding chair lift system at Churi Colliery, CCL
29. Mine capacity assessment and capacity utilisation during 07-08
30. Feasibility Report for Ledo Opencast Project (0.25 Mty), NEC for outsourcing option
31. Controlled blasting and vibration study at Kusunda OCP, BCCL
32. Land Use/Land Cover Mapping of Buffer Zone of Naigaon OCP Expn., WCL
33. Land Use/Land Cover Mapping of Buffer Zone of Dhankasa UG of WCL
34. Specific consumption of diesel, explosives and power in opencast mines of CIL
35. Analysis of performance of HEMM operating in opencast mines, 2007-08
36. Land Use/Land Cover Mapping of Buffer Zone of Makardhokra OCP, WCL
37. Land Use/Land Cover Mapping of Buffer Zone of Lekhapani OCP, NEC
38. Standard Bid Document for setting up of 3 Product Washery on 'BOM' basis in BCCL
39. Ventilation analysis for Nandira Mine, MCL
40. Subsidence prediction study (Revised) for Moonidih UG Mine, BCCL
41. Report on RMR & Rock Support Plan of Silewara Colliery (Seam V), WCL
42. Land Use/Land Cover Mapping of Buffer Zone of Gokul OCP of WCL
43. Land Use / Vegetation Mapping of Singrauli Coalfield
44. Controlled blasting and vibration study at Hingula OCP, MCL
45. Gas Survey for Mahamaya Project, SECL
46. Standard Price List for Mining Equipment
47. Report on RMR and Support Layout of Methani Colliery (R-VI Seam), ECL
48. Report on RMR & Rock Load of Pandaveshwar Colliery (R-V & R-IV Seams) and Dalurband Colliery, ECL
49. TEFR for setting up of washery at Basundhara OCP, IB Valley Coalfields
50. Illumination Survey of Khadia Opencast Project of NCL
51. Land Use/Land Cover Mapping of Buffer Zone of Dinesh OCP of WCL
52. Land Use/Land Cover Mapping of Buffer Zone of Chhal & Baroud OCP of SECL
53. Controlled blasting and vibration study at KDH OCP, CCL
54. Controlled blasting and vibration study at Dakra OCP, CCL
55. Report on RMR & Support Layout of Nandira Colliery (Talcher Seam No.1 Top Sec.), MCL
56. Report on RMR & Rock Load of Talcher Colliery (Talcher Seam No.1 Bott. Sec.), MCL
57. Feasibility Report for Modification of Gidi Washery
58. Feasibility Study of depillaring with stowing of balance mineral reserve for

- Hingir Rampur Colliery, MCL
59. Report on RMR and Rock Load of Salanpur Colliery (III Seam), Bararee Colliery (X Top Seam), Dhansar Colliery (II Seam) & Bera Colliery (I Seam), BCCL
  60. Subsidence prediction study for Narainkuri UG Mine, ECL
  61. Ventilation System Design of Ballarpur 3 & 4 Pit, ECL
  62. Study Report for modification of Kedla Washery
  63. Study Report for modification /upgradation of Rajrappa Washery
  64. Preparation of TEFR for 5 Mty coal washery at Baroud OCP, SECL
  65. Preparation of TEFR for 5 Mty coal washery at Kusmunda OCP, SECL
  66. Preparation of TEFR for 2.5 Mty coal washery at Chitra OCP, ECL
  67. Subsidence prediction study for Churi-Benti UG Mine, CCL
  68. Report on RMR and Rock Load of Madhuband Colliery (XIII Spl.Seam), New Akashkinaree Colliery (I Seam) & Hurriladih Colliery (XII Seam), BCCL
  69. Controlled blasting and vibration study at Urimari OCP, CCL
  70. Benchmarking of diesel consumption and fixation of diesel consumption norms in Sasti Mine of WCL
  71. Energy Audit of water drainage system (Pumping) for Pootkee Balihari underground mine, BCCL
  72. Illumination Survey of Kakri & Jhingurdah opencast projects of NCL
  73. Land Use/Land Cover Mapping of Buffer Zone of Nand-I UG of WCL
  74. Land Use/Land Cover Mapping of Buffer Zone of NCPH UG and Khurasia OC of SECL
  75. Land Use /Vegetation Cover Mapping of Bander Coalfield, WCL
  76. Land Use /Vegetation Cover Mapping of Korba Coalfield, SECL
  77. EPR for Jayant Central Workshop with Non-Ferrous Casting Arrangement

***Environment Management Plan (EMP)***

**RI-I/HQ**

1. Mohanpur Expn. OC (1.0 Mty)
2. Narainkuri UG (0.54 Mty)
3. Belbaid (Dhasal) UG (0.36 Mty)

**RI-III**

1. Karma OC

**RI-IV**

1. New Majri UG to OC
2. Gokul OC
3. Kolarpimpri Extn.
4. Kumberkhani Expn.
5. Chattarpur I & II
6. Junad Deep OC
7. Sharda UG
8. Durgapur Deep OC
9. Dhankasa UG
10. Harradol OC
11. Bhakra UG

**RI-V**

1. Rani Atari UG
2. Bagdeva UG
3. Baroud OC
4. Mahamaya UG (by HQ)
5. Dugga OC (by HQ)

**RI-VII**

1. Basundhara (W) OCP Expn. (8 Mty)
2. Samleshwari OCP (11.0 Mty)
3. Hingula-II OCP Expn. (15 Mty)
4. Bhubaneswari OC
5. Orient-3 UG Mine (0.69 Mty)
6. Orient-1 & 2 UG (0.87 Mty)

**FORM-I****RI-I/HQ**

1. Belbaid (Dhasal) UG (0.36 Mty)  
Kunustoria Area (Group 4 Mine), ECL
2. North Searsole UG
3. Kunustoria UG
4. Belbaid UG
5. Parasea 6&7 UG
6. POCP (Belbaid)  
Sripur Area (Group 5 Mine), ECL
7. S.S.Incline UG
8. Bhanora West UG
9. Kalipahari UG  
Satgram Area (Group 6 Mine), ECL
10. Sitaldasji OC
11. Nimcha OC
12. Ratibati UG
13. Chapuikhas UG
14. Mithapur UG
15. Tirat UG
16. Kuardih UG
17. Satgram UG  
Salanpur Area (Group 8 Mine), ECL
18. Dabor UG
19. Chakballavpur UG
20. Gourangdih OC
21. Bonjemehari OC  
Mugma Area (Group 9 Mine), ECL
22. Hariajam UG
23. Badjana UG
24. Chapapur-II UG
25. Khoodia UG
26. Lakhimata UG
27. Kumardhubi UG
28. Sampur-B UG
29. Mandman UG
30. Barmuri OC
31. Nirsa OC
32. Sampur-A OC  
Pandaveswar Area (Group 1 Mine), ECL
33. Madhaipur UG
34. Manderboni UG
35. Pandaveswar UG
36. Dalurband UG
37. South Samla UG  
Kajora Area (Group 2 Mine), ECL
38. Madhusudanpur 7 Pit UG
39. Madhabpur UG
40. Parascole (East & West) UG
41. Jambad UG
42. Khas Kajora UG
43. Lachipur UG
44. Central Kajora UG  
Kenda Area (Group 3 Mine), ECL
45. Chora OC
46. West Kenda OC



**RI-II/HQ**

47. Shankarpur Extn. OC
48. Moira OC
49. New Kenda UG
50. Bahula UG
51. Lower Kenda UG
52. Haripur UG
53. Chora 10 Pit UG
54. Chora 7&9 Pit UG
55. CL Jambad UG  
Sodepur Area (Group 7 Mine), ECL
56. Dhemomain Pit UG
57. Dhemomain Incline UG
58. Narsamuda UG
59. Patmohna UG
60. Sodepur UG
61. Parbelia UG
62. Dubeswari UG
63. Chinakuri-I UG
64. Chinakuri-III UG  
Katras Area (Group 4 Mine), BCCL
1. Katras Choitudih UG
2. Angarpathra Ramkanali UG
3. Salanpur UG
4. West Munidih Mixed  
PB Area (Group 7 Mine), BCCL
5. Bhagaband UG Mixed  
Kustore Area (Group 8 Mine), BCCL
6. Alkusa UG
7. Burragarh UG
8. Ena OC
9. Hurriladih UG
10. ROCP OC
11. Simlabahal UG  
Lodna Area (Group 12 Mine), BCCL
12. Baantimata UG
13. Dahibari Mixed  
Barora Area (Group 1 Mine), BCCL
14. Damoda Mixed  
Barora Area (Group 2 Mine), BCCL
15. Shatabdi OC
16. Muraidih OC
17. Madhuband UG
18. Phularitand UG  
Govindpur Area (Group 3 Mine), BCCL
19. Govindpur UG
20. Jogidih UG
21. Kharkharee UG
22. Akashkinaree Mix
23. Block-IV Mixed
24. Maheshpur UG  
Sijua Area (Group 5 Mine), BCCL
25. Bansdeopur Mix
26. Kankanee UG
27. Loyabad UG
28. Mudidih Mixed

**RI-III**

29. Nichitpur OC
30. Sendra Bansjora Mix
31. Tetulmari Mixed  
Kusunda Area (Group 6 Mine), BCCL
32. Basseriya UG
33. Dhansar Mixed
34. Gondudih Mixed
35. Godhur UG
36. Kusunda OC  
Bastakola Area (Group 9 Mine), BCCL
37. Bastakola Mixed
38. Bera Mixed
39. Dobari UG
40. Kuya Mixed  
Lodna Area (Group 10 Mine), BCCL
41. Bararee Mixed
42. Bagdigi Mixed
43. Joyrampur UG
44. Lodna UG
45. N.Tisra UG  
EJ Area (Group 11 Mine), BCCL
46. Bhowrah (S) UG
47. COCP Bhowrah OC
48. Sudamdih (I) UG  
WJ Area (Group 13 Mine), BCCL
49. Lohapatty UG
50. Murlidih 20/21 Pit UG
1. Kuju UG
2. Rai-Bachra UG (by HQ)
3. Govindpur Ph-II OCP
4. Laiyo OG (by HQ)
5. Kathara OC  
Argada-Sirka Group of Mines, CCL
6. Sirka UG
7. Sirka OC  
Gidi 'A'-Religara Group of Mines, CCL
8. Religara OC
9. Religara UG
10. Gidi 'A' OC  
Barka Sayal Group of Mines, CCL
11. Central Saunda UG
12. Bhurkunda UG
13. Bhurkunda OC
14. Saunda UG
15. Sayal D
16. Urimari UG  
Dhori Group of Mines, CCL
17. Dhori OCP
18. NS Dhori UG
19. Dhori Khas UG
20. Selected Dhori OC  
Jarangdih Group of Mines, CCL
21. Jarangdih UG
22. Jarangdih OC  
Ara-Sarubera Group of Mines, CCL

	23.	Sarubera UG
	24.	Ara OCP
	25.	Sarubera OC
		<u>Topa-Pindra Group of Mines, CCL</u>
	26.	Pindra UG
	27.	Topa UG
		<u>Dakra-Karkatta Group of Mines, CCL</u>
	28.	Dakra OC
	29.	Karkatta OC
<b>RI-IV</b>	1.	Padmapur Expn. (2.5 Mty)
	2.	Naigaon Expn. OC (1.25 Mty)
	3.	Mugoli Expn. OC (2.5 Mty)
	4.	Niljai Expn. OC (3.5 Mty)
	5.	Makardhokra-II OC (1.5 Mty)
	6.	Gauri I & II Expn. OC
	7.	Chattarpur I & II Expn.
	8.	Sarni UG (0.72 Mty)
	9.	Gouri Deep OC
	10.	Maori UG
	11.	New Majri UG (0.5 Mty)
	12.	New Majri-II (A) OC (2.5 Mty)
	13.	Telwasa OC (2.0 Mty)
	14.	Dhorwasa OC (1.4 Mty)
	15.	Pipla UG (0.25 Mty)
	16.	Shivpuri OC (1.0 Mty)
	17.	Adasa UG (0.50 Mty)
	18.	Saoner UG (2.0 Mty)
	19.	Patansaongi (0.50 Mty)
	20.	Mana & Nandgaon UG (0.50 Mty)
	21.	Barkui OC (0.75 Mty)
	22.	Ghorawari Expn. OC (1.5 Mty)
	23.	Harradol OC
	24.	Jharna UG
	25.	Dhankasa UG (1.20 Mty)
	26.	Dinesh OC (3.0 Mty)
	27.	Dhuptala OC (1.70 Mty)
	28.	Penganga OC (3.0 Mty)
	29.	Bhakra UG (0.27 Mty)
	30.	Chincholi OC (0.45 Mty)
	31.	Jamunia UG
<b>RI-VI</b>	1.	Jayant OCP (15 Mty)
	2.	Dudhichua OCP (15 Mty)
<b>RI-VII</b>	1.	Hingula Extn. OC
	2.	Ananta OCP Expn. (20 Mty)
	3.	Lajkura OCP Expn. (3 Mty)
	4.	Gopalprasad (W) Utkal 'A' Combined OC

## 2.1 COAL & MINERAL PREPARATION

Coal & Mineral Preparation Division offers a broad spectrum 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 2008-09:

### A. REPORTS / STUDIES

- TEFR for setting up of Kusmunda washery, SECL on BOM basis in non-coking coal sector.
- TEFR for setting up of Baroud washery, SECL on BOM basis in non-coking coal sector.
- TEFR for setting up of Chitra washery, ECL on BOM basis in non-coking coal sector.
- TEFR for setting up of Basundhara washery, MCL on BOM basis in non-coking coal sector.
- Conceptual Report for setting up of Madhuband washery, BCCL on BOM basis in NLW coal sector.
- Conceptual Report for setting up of Patherdih washery, BCCL on BOM basis in NLW coal sector.
- Conceptual Report for setting up of Karo washery, CCL on BOM basis in non-coking coal sector.
- Report on Rajrappa washery modification, CCL
- Report on installation of Deshaling plant at Madhuband washery, BCCL
- Reports on Development of data bank for CIL washeries for the year 2007-08
- Draft Report on modification of BOBR of Dugda washery, BCCL
- Scheme for Mine effluent treatment for Nigahi expansion.

### B. TENDER DOCUMENT

- Standard Bid Document for setting up of 3-product washery on BOM concept.
- Customization of Bid Document for Madhuband washery, BCCL on BOM concept in NLW coal sector.
- Customization of Bid Document for Patherdih washery, BCCL on BOM concept in NLW coal sector.
- Customization of Bid Document for Ashok washery, CCL on BOM concept in non-coking coal sector.

- Customization of Bid Document for Basundhara washery, MCL on BOM concept in non-coking coal sector.

**C. TENDER SCRUTINY**

**D. R & D and S & T PROJECTS**

- Proposal for beneficiation of fine coal of Sudamdih washery, BCCL Indo-US
- Proposal for development of coal washing simulator under Indo-US
- Proposal for beneficiation of fine coal of Moonidih washery, BCCL by installation of Spiral Concentrator.

**E. OUTSIDE CONSULTANCY**

- TEFR for setting up of Tasra washery, SAIL on MDO basis in coking coal sector.

**F. TESTING OF COAL SAMPLES**

- Washability testing of 9 (nine) samples from BCCL mines.
- Washability testing of 2 (two) samples from WCL mines.
- Washability testing of 2 (two) samples from MCL mines.
- Washability testing of 2 (two) samples from ECL mines.
- Washability testing of 15 (fifteen) samples from Bore core of different mines.

**2.2 ON GOING / EXPECTED JOBS**

**A. REPORTS / STUDIES**

- Conceptual Report for setting up of Wardha washery, WCL on BOM basis in non-coking 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 Sambaleshwari washery, MCL on BOM basis in non-coking coal sector.
- Conceptual Report for setting up of Hingula washery, MCL on BOM basis in non-coking coal sector.
- Conceptual Report for setting up of Sonapur Bazari washery, ECL on BOM basis in non-coking coal sector.
- Conceptual Report for setting up of Dugda washery, BCCL on BOM basis in NLW coal sector.
- Conceptual Report for setting up of Patherdih washery, BCCL on BOM basis in non-coking coal sector.
- Conceptual Report for setting up of Bhojudih washery, BCCL on BOM basis in non-coking coal sector.
- Conceptual Report for setting up of Dahibari washery, BCCL on BOM basis in non-coking coal sector.
- Conceptual Report for setting up of Konar washery, CCL on BOM basis in non-coking coal sector.

- Conceptual Report for setting up of Purnadih washery, CCL on BOM basis in non-coking coal sector.
- Reports on Development of data bank for CIL washeries for the year 2008-09 (continuing job, confirmation from coal India is awaited)
- Proposal for modification of Kedla washery regarding enhancement of raw coal receiving arrangement, CCL.

#### **B. TENDER DOCUMENT**

- Customization of Bid Document for Wardha washery, WCL on BOM concept in non-coking coal sector.
- Customization of Bid Document for Jagannath washery, MCL on BOM concept in non-coking coal sector.
- Customization of Bid Document for Sambaleshwari washery, MCL on BOM concept in non-coking coal sector.
- Customization of Bid Document for Hingula washery, MCL on BOM concept in non-coking coal sector.
- Customization of Bid Document for Chitra washery, ECL on BOM concept in non-coking coal sector.
- Customization of Bid Document for Sonepur Bazari, ECL on BOM concept in non-coking coal sector.
- Customization of Bid Document for Dugda washery, BCCL on BOM concept in NLW coal sector.
- Customization of Bid Document for Patherdih, BCCL on BOM concept in non-coking coal sector.
- Customization of Bid Document for Bhojudih washery, BCCL on BOM concept in non-coking coal sector.
- Customization of Bid Document for Dahibari washery, BCCL on BOM concept in non-coking coal sector.
- Customization of Bid Document for Karo washery, CCL on BOM concept in non-coking coal sector.
- Customization of Bid Document for Konar washery, CCL on BOM concept in non-coking coal sector.
- Customization of Bid Document for Purnadih washery, CCL on BOM concept in non-coking coal sector.
- TSD for modification of Gidi washery on turnkey basis, CCL

#### **C. TENDER SCRUTINY**

- Evaluation of Qualifying Criteria, Technical & Commercial part of submitted offer(s) of Ashok Washery.
- Evaluation of Qualifying Criteria, Technical & Commercial part of submitted offer(s) of Madhuband Washery.

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

- TSD for installation of Spiral Concentrator at Moonidih washery, BCCL on the basis of R&D manual.

- Proposal for installation of 100 tph dry beneficiation plant at Hingula area , MCL under CMTF.

#### **E. TESTING OF COAL SAMPLES**

- Washability testing of 11 (eleven) samples from BCCL mines.
- Washability testing of 2 (two) samples from CCL mines.
- Washability testing of 2 (two) samples from MCL mines.
- Washability testing of 3 (three) samples from SCCL mines.
- Washability testing of from Bore core of different mines.

### **2.3 PROJECT APPRAISAL**

- (i) Scrutiny and appraisal of 32 nos. of draft PRs/RPRs/EPRs prepared by Regional Institutes of CMPDI during the year 2008-09, and coordination for their presentation at CMPDI (HQ) for guidance to the concerned Regional Institutes before finalization of the reports.
- (ii) 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.
- (iii) Updation of status of Govt. level X & XI Plan projects with respect to actions under CMPDI's responsibility, for the Secretary (Coal) Review meeting held quarterly.

### **3.0 Underground Mining**

**The following jobs were completed and are in progress during the year 2008-09**

#### **A. OUT SIDE CONSULTANCY JOBS:**

1. Conceptual report of Begunia seam, Ramnagore colliery, ISP SAIL
2. Consultancy services for enhancement of production at Jitpur colliery, ISP SAIL
3. Preparation of Mining Plan & Project Report of Sitanala Coking Coal Block, ISP SAIL
4. Preliminary designs and BOQ for construction of vertical shafts at Munsar & U kwa mines of Manganese Ore India Limited.
5. Preparation of EOI, Bid document & vetting of designs for construction equipping & furnishing of new shaft at Hutti Gold mines.

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

1. Preparation of Standard Global Bid for deployment of CM, PSLW and high speed incline drirage shaft sinking.
2. Processing of EOI floated by CIL for 7 u/g projects and preparation of standard document for the same.
3. Capacity assessment and capacity utilisation for u/g mines of CIL (08-09).

4. Preparation of Project Report for augmentation of production from Natraj U/G & Talcher West U/G Projects.
5. Schemes/techno-economic study for introduction of man riding system in 14 mines of SECL and 1 mine of CCL.
6. Preparation of Standard Pricelist for mining equipments.
7. Report for construction of stowing bunker for depillaring of top section detailing the stowing profiles for Talcher colliery, MCL.
8. Detailed design of sand stowing arrangement for Talcher colliery, MCL and Argada colliery, CCL.
9. Feasibility study of depillaring with stowing of balance mineral reserve for Hingir Rampur colliery, MCL.
10. Detailed design and NIT for construction of Strata Bunker for HBI, MCL.
11. Detailed design of inclines, u/g supports and preparation of NITs for Dhansar, Damogoria and Bansdeopur mines of BCCL.
12. Preparation of survey off norms for SDL & LHD for CIL.
13. Ventilation analysis of 5 mines of different subsidiaries of CIL.
14. Monitoring and co-ordination of EMSC Schemes.
15. Draft report for percentage availability utilization & productivity of UG mines (LHD & SDL)

## **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 Services**

Following major services were carried out during the year 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.

Block –B interim CHP with loading hoppers single/ double conveyor gantries and their supporting structures, different drive houses & transfer houses.

Structural design scrutiny of Phase-II, Package- B, Nigahi CHP, completed. The CHP consisted of major structures like receiving pit with gyratory crusher, 3000 MT capacity loading silo for RLS system, single /double conveyor gantries and their associated supporting structures and different drive houses & transfer houses for the same conveyors.

- 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 Two-Court Indoor Badminton Hall for CCL at Jawahar Nagar – Conceptual plan approved by Client, structural design ongoing
- iv) Allied Interior Design and Air-conditioning Scheme for Nehru Sanskritik Kendra of CCL at Jawahar Nagar
- v) Feasibility reports for establishing two Institutes namely Apex Planning Organization ( APO) and Apex Training Organization (ATO) for SADC countries – draft report submitted to CIL.
- vi) Layout Plan & technical details for establishment of Anandwan camp near Durgapur Colony of WCL. Vetting of estimate, details Architectural & Structural design and preparation of Nit for proposed Office Building at RI-VII Bhubaneswar.
- vii) Turnkey Tender Documents for Nigahi and Amlohri extension of Workshop of NCL , Bina switching sub-station, Shifting of Dudhichua sub-station and Overhead Line for Nigahi Project of NCL were prepared.
- viii) Scheme for silo loading arrangement for KDH Project of CCL
- ix) EPR with provision of non-ferrous casting arrangement for CWS, Jayant, NCL. Draft report submitted to NCL.
- x) Scheme for arrangement of RAW coal loading by BOBR wagons at Dughdha Washery BCCL.
- xi) Design and estimate and preparation of turn-key tender document of the Slime Pond as per the revised scheme at Nandan Washery.
- xii) Vetting of Project Reports (15 numbers) prepared by different Regional Institutes done.
- xiii) Civil Engineering chapter for Project Reprt of Hadla Project for Rajasthan State Mining Corporation, Argada Opencast Project for CCL and Tipong OCP for NEC prepared.

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

### **4.2.1 Outside Consultancy**

CMPDIL has been awarded the following jobs by Sasan Power Limited (A subsidiary of Reliance Energy) and Manganese Ore India Limited (MOIL) during the last financial year.

- Scheme for CHP of Moher & Moher-Amlohri extension coal mines of SPL.
- Surface master plan of Moher and Moher-Amlohri extension coal mines of SPL.
- NDT for winders and case suspension gear components of 5 mines of MOIL.

The final report for scheme of CHP has been accepted by the client and draft report of master plan has been submitted to the client. NDT of various winders and cage suspension gear components has been conducted and the reports are being prepared.

#### **4.2.2 Energy Audit Management**

Reports on Benchmarking of diesel consumption and fixation of equipment wise diesel consumption norms for 2 OCPs of CCL and 3 OCPs of WCL were prepared.

Reports on Benchmarking of electrical energy consumption for 1 U/G mine of WCL was prepared.

Reports on Benchmarking of electrical energy consumption for 2 U/G mines of MCL is under progress.

Finalisation of reports on benchmarking of electrical energy consumption of 2 OCPs of NCL.

Reports on annual benchmarking of diesel consumption of 70 identified OCPs of CIL were prepared.

#### **4.2.3 Inspection Services**

CMPDIL 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 103.96 lakhs during 2008-09.

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

NIT for 1 CHP of NCL.

NIT for 2 workshops of NCL.

NIT for augmentation of 2 sub-stations of NCL.

NIT for 2 nos. 33 kV OHTL of NCL.

NIT for shifting of 1 OB sub-station of NCL.

#### **4.2.5 Other jobs**

Tendering and award of the work of construction of CHP, Phase-II at Amlohri OCP is under progress.

Project report for 3 x 20 MW CTPS of CCL .

Illumination survey of 3 mines of NCL.

Expansion project report of CWS, Jayant with non-ferrous casting arrangement (Draft).

Scrutiny of drawings for Dudhichua RLS with second silo and associated conveyor, Nigahi CHP (package-B) and Block-B interim CHP.

NDT of CHP structures/Winders/Cage suspension gear/HEMM components of 20 mines of CIL and one newly fabricated pontoon at CRS, Barkakana.

### **5.0 RESEARCH & DEVELOPMENT PROJECTS**

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

The R&D activity in Coal sector is administered through an Apex body namely, Standing Scientific Research Committee (SSRC) with Secretary (Coal) as its Chairman. The other members of this Apex body include Chairman of 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.

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.

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

Total no. of S&T projects taken up (till 31.03.2009)	-	359
Total no. of S&T projects completed (till 31.03.2009)	-	278

### 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 2008-09 :

- |      |   |   |    |
|------|---|---|----|
| i)   | Projects on-going as on 1.4.2008              | - | 34 |
| ii)  | Projects sanctioned by GoI during 2008-09     | - | 05 |
| iii) | Projects completed during 2008-09             | - | 10 |
| iv)  | Project terminated/Foreclosure during 2008-09 | - | 01 |
| v)   | Projects on-going as on 1.4.2009              | - | 28 |
- List of projects completed during 2008-09 is enclosed.

#### List of Completed Coal S&T Projects 2008 - 09

Sl. No.	Name of the project	Agency	Financial Outlay (Rs.in lakh)
1	Studies on the advance detection of fires in coal mines with special reference to SCCL- MT/130	Andhra Univ. & SCCL	166.5088
2	Application of high pressure water injection for hard roof management at Churcha West Colliery, SECL - MT/132	CMRI & SECL	58.80 S&T Grant - 55.90 Cont SECL - 2.90
3	Development of an experimental subterranean robot(SR) for feasibility study of robotic application in underground coal mines - MT/148	CMERI, Durgapur, CMPDIL & CMRI	89.168 For CMERI- 85.168 For CMPDI- 2.00

For CMRI- 2.00

4	Development of room temperature sensors for methane using carbon nanotubes and nanofibres - MT/152	Jadavpur University & ISM	84.634 For Jadavpur - 70.158 For ISM - 14.476
5	Development of user friendly models for design and operation of jigs and heavy media cyclones for treatment of different coals - CP/43	RRL, Bhopal ISM & CMPDIL	61.14 For RRL (B) - 34.22 For ISM - 14.22 For CMPDI - 12.70
6	Development of cheap, energy efficient by product coke oven for production of hard coke for steel/metallurgical use - CU/46	CFRI & CMPDIL	286.67 For CFRI - 240.60 For CMPDI - 46.07
7	Direct sourcing of coal for value added chemicals- CU/51	CFRI & IICT, Hyderabad	70.3 For CFRI-32.30
8	Development of emission factors for various mining machineries and operations in opencast coal mines - EE/27	CMPDIL	78.01
9	Environmental impact of subsidence movements caused due to caving on ground water and forest cover in Godavari Valley Coalfields - EE/28	CMRI & SCCL	72.03 S&T Grant - 60.83 Cont. SCCL - 11.20
10	Environmental clean up and remediation of coal mining overburden sites of Tirap collieries, Assam - EE/33	RRL,Jorhat	18.90

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

**Rs. in Crore**

2007-08		2008-09	
	Actual	RE	Actual
12.86	12.48	10.00	10.51

## 5.2 CIL R&D Projects

For in-house R&D work of CIL, R&D Board headed by Chairman, CIL is also functioning. CMPDIL 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, 41 projects have been taken up under the funds of CIL R&D Board out of which 25 projects have been completed.

The status of CIL R&D Board Projects during 2008-09 :

i) Projects on-going as on 1.4.2008	-	15
ii) Projects sanctioned during 2008-09	-	05
iii) Projects completed during 2008-09	-	04
iv) Projects on-going as on 1.4.2009	-	16

Total disbursement of fund to CIL R&D projects during 2008-09 is Rs.13.876 Cr which is over and above the total disbursement of Rs.11.08 Cr made during 2007-08.

## **6.0 LABORATORY SERVICES**

### **6.1 Chemical Laboratory:**

- i) Characterisation of coal was carried out on borehole cores from 21 blocks explored by CMPDIL in different coal companies of CIL and 22 boreholes received from CBM Cell. A total of 7242 m. of coal cores were processed and 16040 nos. of samples were analysed for quality evaluation and their downstream utilization.
- ii) Characterizing, interpretation of data of samples from various coalfields were studied under CIL R&D Project entitled “Characterisation of non-coking coals for sponge iron industry”. The project was completed successfully and report submitted in Sept, 2008.
- iii) Characterised the Indonesian lignite/coal and submitted the report to Coal Videsh, CIL.
- iv) Outside consultancy was provided to Jupiter India Limited, Kolkata, Gujarat Mineral Development Corporation Ltd. and TISCO.
- v) Approval was obtained for enhancing the capacity of Labs. at HQ and establishment of two new regional chemical Labs, one at RI-V, Bilaspur and another at RI-VII, Bhubaneswar under the project “Augmentation of capacity of coal core analysis”. Action has been initiated to implement the project.

### **6.2 Coal Petrography Laboratory**

- i) During the year 2008-09, the laboratory has undertaken Petrographic study of (vitrinite reflectance and maceral analysis), minerals in coal through XRD and shape /size study and cleat analysis through SEM on 560 coal samples from different blocks covering fifteen coalfields (including CIL/Non-CIL,Promotional/CBM/XTH Plan, ONGC J.V Blocks and Indonesian lignite/coal for Coal Videsh) and 54 numbers of coal sample were studied as part of outside consultancy job like M/s Jaipuria Infrastructure dev. Pvt. Ltd, Gujarat Mineral Development Corporation Ltd. TISCO, M/s Jupiter India Limited, Kolkatta and

M/s J. B. Boda Pvt. Ltd. The total value of the outside consultancy job is approx. Rs. 7.78 lakh.

- ii) This is the only laboratory in the country where all the four Coal Petrographers are accredited by International Committee of Coal and Organic Petrology.
- iii) Comprehensive technical reports on petrography, cleat and mineralization data on coal samples from promotional blocks for X, XI Plan and for DGH were prepared for CBM assessment.
- iv) A status paper on LVHR coals of Jharia and EBCF was prepared.
- v) A paper entitled “Petrographic and beneficiation studies of high ash coking coal of Jharia Coalfield” was presented in the International Conference on Coking coals and Coke making: Challenges and opportunities, 20-22 Jan, 2009 at RDCIS, Ranchi, India.
- vi) Characterizing, interpretation of data of samples from various coalfields were studied under CIL R&D Project entitled “Characterisation of non-coking coals for sponge iron industry”. The project was completed successfully and report submitted in Sept, 2008.

### **6.3 Mining Laboratory**

Mining laboratory caters to the jobs related to rock mechanics, strata control and subsidence. Following jobs were carried out during 2008-09:

#### **6.3.1 Rock Mechanics**

- i) Tests were conducted on 1617.41m length of drill core samples for determination of physico-mechanical properties.
- ii) Tests were conducted on 43 nos. roof rock samples from various mines of CIL for determination of strength properties, slake durability index and density.
- iii) Tests were conducted for determination of specific gravity of 5 coal seams of ECL mines.

#### **6.3.2 Strata Control and Subsidence**

- i) RMR studies for 33 mines/districts of CIL have been completed and reports submitted.
- ii) Subsidence prediction reports were prepared for 4 underground mines of CIL.

### **6.4 Coal Preparation Laboratory**

The coal preparation laboratory has carried out washability test, proximate analysis and characterization studies on coal samples of different coal companies like BCCL, CCL, MCL, WCL, ECL etc. during April '08 to March '09 for existing washeries, setting up new coking and non-coking coal washeries. The details are given below :-

- i) Coal samples from Kulda O/C, MCL were collected and washability investigation, proximate analysis and characterization studies were carried out to generate data for setting up washery.
- ii) Coal samples from Muraidih OCP, BCCL, were collected and washability tests, proximate analysis and characterization studies were carried out to generate data for setting up washery.
- iii) Coal samples from Block II OCP, BCCL, were collected and washability tests, proximate analysis and characterization studies were carried out to generate data for setting up washery.
- iv) Coal samples from Ghanudih OCP, BCCL, were collected and washability tests, proximate analysis and characterization studies were carried out to generate data for setting up washery.
- v) Coal samples from Goluckdih OCP, BCCL, were collected and washability tests, proximate analysis and characterization studies were carried out to generate data for setting up washery.
- vi) Coal samples from N/S Tisra OCP, BCCL, were collected and washability tests, proximate analysis and characterization studies were carried out to generate data for setting up washery.
- vii) Coal samples from Rajapur OCP, BCCL, were collected and washability tests, proximate analysis and characterization studies were carried out to generate data for setting up washery.
- viii) Coal samples from Sonapur Bazari OCP, ECL, were collected and washability tests, proximate analysis and characterization studies were carried out to generate data for setting up washery.
- ix) Coal samples from Nichitpur OCP, BCCL, were collected and washability tests, proximate analysis and characterization studies were carried out to generate data for setting up washery.
- x) Coal samples from Ananta OCP, MCL, were collected and washability tests, proximate analysis and characterization studies were carried out to generate data for setting up washery.
- xi) Coal samples from Bharatpur OCP, MCL, were collected and washability tests, proximate analysis and characterization studies were carried out to generate data for setting up washery.
- xii) Coal samples from Wani North OCP, WCL, were collected and washability tests, proximate analysis and characterization studies were carried out to generate data for setting up washery.

## **6.5 Coal bed Methane (CBM) Laboratory**

CBM Lab has taken up analysis of Mine Air Samples collected from different mines of CCL and ECL to determine the composition of different gases particularly for Methane, Carbon-di-oxide, Carbon mono oxide, Nitrogen and Oxygen. During the

period 479 nos. of mine air samples were analyzed and the results of analysis submitted to the concerned coal companies.

CBM Lab has also taken up CBM related tests on borehole samples drilled under Promotional Drilling Scheme during XIth Plan. 6 such Boreholes located in coal/lignite fields were taken up for the studies.

To generate base line data for utilization of Ventilation Air Methane (VAM) in Indian Mining Scenario, VAM Samples were collected from 16 gassy underground mines of ECL, BCCL and CCL. The results of the analysis will form basis for taking up VAM projects.

To expedite the process of analysis, updation of one gas chromatograph was completed during the period.

## **7.0 ENVIRONMENTAL SERVICES**

### **7.1 EIA / EMPs**

During the year, CMPDI prepared Form-1 for 180 projects and formulated 26 nos. of Draft EMPs for subsidiary companies of CIL.

### **7.2 Environmental Monitoring of Air, Water and Noise**

Once MoEF accords the environmental clearance to the mining projects, routine environmental monitoring is required to ascertain the efficacy of the pollution control measures taken up at the project level during their operational phase. During 2008-09, environmental monitoring work of 248 projects of CIL (ECL-21, CCL-60, WCL-85, SECL-49, NCL-9 and MCL-24) was carried out by CMPDI through six environmental laboratories located at Asansol, Jayant, Kusmunda, Hasdeo, Nagpur and Ranchi.

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

Keeping in view the principle of providing state-of-the-art environmental monitoring facilities to subsidiaries of CIL, schemes for establishment of environmental laboratories at Regional Institute-V, Bilaspur and Regional Institute-VII, Bhubneshwar were prepared. These schemes have been approved by CMPDIL Board and are now under implementation. Similarly, a scheme for upgradation of environmental laboratory facilities at Regional Institute-IV has been prepared and approved by CMPDIL Board. This scheme is now under implementation.

### **7.4 ETP for Nigahi Project**

A mine effluent treatment plant (ETP) scheme for Nigahi Opencast Project (15.00 MTY) of NCL was planned and designed to treat the effluent from mine. The capacity of the ETP is to treat 9900 m<sup>3</sup>/day of the mine effluent. A clear water reservoir was also included in the ETP circuit to facilitate reuse of the treated water to the extent possible. The Draft Report has been submitted.



## **7.5 EIA/EMP for Kotre-Basantpur & Pachmo Coal Block (5.0 MTY) of M/s Tata Steel**

The final EIA/EMP report of Kotre-Basantpur & Pachmo Coal Block of M/s Tata Steel has been prepared and submitted.

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

The mine closure guidelines for the coal sector both for underground and opencast projects separately have been prepared. The Draft Guidelines have been submitted to Ministry of Coal, Government of India.

## **7.7 Mine Closure of Gorbi Project**

A mine closure plan of Gorbi Project of NCL was prepared and submitted to NCL in November, 2008. This mine closure plan was prepared with the objective to allow productive and sustainable after use of the site acceptable to mine owner and regulatory authority, to protect public health and safety, to alleviate or eliminate environmental damage and encourage environmental sustainability and to minimize adverse socio-economic impacts.

## **7.8 Celebration of World Environment Day**

The World Environment Day was celebrated on 5<sup>th</sup> June, 2008. A number of programmes viz. drawing competitions for children, quiz competition, plantation programmes and guest lecture were organized to create awareness amongst employees of CMPDIL.

A rainwater harvesting scheme was prepared for the CPEI building. The foundation stone of the scheme was laid on 5<sup>th</sup> June, 2008 (World Environment Day). This scheme has now been implemented.

The construction of recirculatory system of existing sewage treatment plant was completed. The plant was inaugurated on 5<sup>th</sup> June, 2008 (World Environment Day).

## **7.9 Workshop on Environmental Clearance of Coal Mining Projects**

A two-day workshop on “Issues pertaining to environmental clearance of coal mining projects” was organized by CMPDIL at IICM, Ranchi during 1<sup>st</sup> March-2<sup>nd</sup> March, 2009. Chairman, CIL, the Environmental Appraisal Committee (EAC) members of Ministry of Environment & Forests (MoEF), Government of India and senior officials of subsidiaries of CIL and SCCL participated in the workshop. In the workshop, issues pertaining to environmental clearance of coal mining projects were discussed at length and actions suggested for speedy environmental clearance.

## **7.10 S&T Projects**

- An S&T project titled “Development of Emission Factors for various mining machineries and operation in OC Coal Mines”, approved by Ministry of Coal for an estimated cost of Rs 78.01 lakhs has been undertaken. The work has been completed and report submitted in August, 2008.

- 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. Design and scheme of treatment system has been completed and project is under implementation.

## **7.11 Best Performance Award**

The Environment Division received the best performance award for the year 2007-08. The trophy for the best performance was presented to the Department on CIL Foundation Day *i.e.* on 15.11.2008.

## **8.0 INFORMATION COMMUNICATION TECHNOLOGY**

The on-going projects for the year 2008-09 are given below:

- (i) Upkeeping of Integrated Information System for Central Coalfields Limited.
- (ii) Website for Bharat Coking Coal Limited.
- (iii) Spatial data preparation of CCL Land Information System projects.
- (iv) Executive Information System for Coal India Limited.
- (v) MPLS-VPN Wide Area Network of CMPDI (HQ) with Regional Institutes for video, voice, data communication and Internet facilities.

## **8.1 INFORMATION MANAGEMENT SYSTEM**

Funded as Coal India R&D project, w-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**

The services provided by CMPDIL include (i) remote sensing studies through aerial photos & satellite data for preparation of thematic maps, geostructural maps, siting of power stations, environmental baseline data generations, etc. (ii) terrestrial survey, mine survey, overburden and coal excavation survey, underground mine correlation survey.

#### **9.1.1 Remote Sensing**

The Jobs completed during the year 2008-09 are as follows :

- (i) Land reclamation monitoring based on high resolution satellite data of the following 37 projects have been completed :
  - (A) Northern Coalfield Ltd. (NCL) : 12 Projects  
(Amlori OCP, Nigahi OCP, Jyant OCP, Dudhichua OCP, Khadia OCP, Krishnasila OCP, Bina OCP, Kakri OCP, Jhingurdha OCP, Block-B OCP, Dudhichua OCP expn. and Bina OCP expn.)
  - (B) Western Coalfield Ltd (WCL) : 12 Projects  
(Sasti OCP, New Majri OCP, Padmapur OCP, Durgapur OCP, Mugoli OCP, Neeljaee OCP, Ukni OCP, Pimpalgaon OCP, Umrer OCP, Makardhokra OCP and Bishnupuri U/G & Mohon U/G,
  - (C) Central Coalfield Ltd (CCL) : 03 Projects  
(Piparwar OCP, Ashoka OCP, KDH OCP)
  - (D) South Eastern Coalfield Ltd (SECL) : 05 Projects  
(Gevra OCP, Dipka OCP, Kusmunda OCP, Dugga OCP and Dhanpuri OCP)
  - (E) Eastern Coalfield Ltd (ECL) : 01 Project (Rajmahal OCP)
  - (F) Mahanadi Coalfield Ltd. (MCL) : 04 Project  
(Jagannath OCP, Bharatpur OCP, Kalinga OCP, Lakhanpur OCP)
- (ii) Land use/ cover mapping of core and buffer zone for EMP preparation of following 16 projects are completed :
  - (A) Western Coalfield Ltd (WCL) : 11 Projects  
(Padmapur OC expn., Durgapur deep OC, Kolarpimpiri OC expn., Naigaon OC expn., Makardhokra OC, Gokul OC, NewMajri UG to OC, Mugoli OC expn. Maori U/G, Dinesh OC, Dhankasa U/G, of WCL)
  - (B) South Eastern Coalfield Ltd (SECL) : 04 Projects  
(Chhal OC, Baroud OC, Khurasia OC and NCPH U/G)
  - (C) North Eastern Coalfield Ltd (NCL) : 01 Project (Lekhapani OCP)
- (iii) Land use/ vegetation cover mapping of following 4 coalfields based on satellite data are completed :
  - (a) Singrauli Coalfield of NCL
  - (b) Bander CF of WCL
  - (c) Korba CF of SECL
  - (d) Karanpura CF of CCL
- (iv) One CIL R&D Project ( No CIL/r&d/1/24/06) – ‘Development of Methodology for Rapid Volumetric Analysis of Excavated in-situ Overburden integrating High Resolution Satellite, Airborne Laser Scanner data supported with ETS

through Digital Photogrammetric Technique' – is under progress and is scheduled to be completed by April 2009.

### 9.1.2 Survey and Drawing

The following major survey work were completed during the year 08-09 :

- (i) Alignment survey for weapon system in Indian Navy's war-ship at Mazagon Dock, Mumbai - 3 alignments.
- (ii) Periodic OBR check measurement was carried out for 41 OC mines (2 in ECL, 3 in BCCL, 1 in CCL, 6 in WCL, 9 in SECL, 8 in NCL, 2 in NEC & 10 in MCL)
- (iii) Outsourcing/ contractual OC patch survey - conducted 77 measurement in 28 OC patches (12 in ECL, 1 in BCCL, 4 in CCL, 7 in SECL & 4 in MCL)
- (iv) Digitization and scale conversion of mine plan (about 10 nos.)
- (v) Connection of coal blocks with national grid 1 no. in ECL.
- (vi) Detail surface survey in 20 sq. km. in different coal blocks of WCL.
- (vii) Identification of Open voids & dumps in 2 mines of CCL - 9 voids.
- (viii) Demarcation of coal blocks & fixing up of boundary pillar. 1 coal block in MCL command area.
- (ix) Measurement of quantity of coal excavated by surface miner in 3 mines of SECL - 10 measurements.
- (x) Dump slope monitoring in NCL - 8 dumps.
- (xi) Borehole and other exploration related survey jobs in 19 exploration camps.
- (xii) Implementation of R&D projects under CIL R&D grant - 2 nos. titled as :
  - a) Development of rapid and accurate method of correlation survey in underground mines - report submitted.
  - b) Development of methodology for rapid Volumetric Analysis of Excavated In-Situ OB integrating HRS, ALTM and Terrestrial Laser Scanner data supported with ETS through Digital Photogrammetric Technique.

### 9.1.3 Summary of Survey & Drawing work done during 2008-09

	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>	13	15	1	1	-	1. R& D Project- 2 nos. 2. Scale conversion- 10 plans 3. Survey for filling up voids in abandoned mines - 2 mines (9 voids) 4. Alignment survey for weapon system in Indian Navy's warship. 1 ship - 3 lines
<b>R.I-I</b>	2	2	12	44	BH coordinate survey	Survey for connection Coal Block to National Grid - 1

					(104 nos.) Proposed BH location: 134 nos. Surface contouring - 0.88 sq. km.	block
<b>R.I-III</b>	1	1	4	18	Borehole survey in 3 camps	-
<b>R.I-IV</b>	6	20	-	-	Co-ordinate survey - 185 nos. BH BH location - 220 nos. Detail survey - 20 sq. km.	-
<b>R.I-V</b>	6	7	7	8	Borehole survey in 4 camps	Measurement of Coal excavated by surface miner, 3 mines - 10 measurement
<b>R.I-VI</b>	8	96	-	-	Borehole survey in 1 camp	Dump slope monitoring of OC mines - 8 nos.
<b>R.I-VII</b>	6	8	4	6	Survey work related to exploration in 3 Camps	Boundary survey & fixing of boundary pillars - 1 Coal Block

## 9.2 Blasting

CMPDI has been rendering specialized technical services to CIL Subsidiaries and other Companies for solution of blasting related problems, 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 2008-09:

- i) A total of 8 nos. of controlled blasting and vibration studies were carried out for different mines of BCCL, CCL and MCL.
- ii) Powder factor study was carried out in different mines of CCL, BCCL, MCL and NCL as a Tri-partite member.
- iii) Random sampling and testing of explosives & accessories were carried out in the mines/magazines of BCCL, CCL, NEC and Neyveli Lignite Corporation.
- iv) Performance evaluation of 7 nos of new explosives product.
- v) One S&T Project titled “Characterization of rock and explosive parameters for optimal explosive energy utilization opencast blasting” is under implementation by CMPDIL in association with CIMFR Dhanbad (formerly known as CMRI).

## 9.3 Mining Electronics

Mining Electronics Division of CMPDIL 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 High speed/Gigabit LAN for ECL (HQ), Sonapur Bazari, Kunustoria Areas of ECL submitted. Final NIT is under preparation.
- 2) NIT for Ringmain Telecom of NCL is under preparation.
- 3) Supervision of Installation & Commissioning of Integrated Communication Network of MCL.
- 4) Scheme for Communication Network of Area Computer Centres, Area Stores, Central Stores & ECL (HQ) submitted. NIT is under preparation.
- 5) S & T Project "Indigenous Development of PLC Based Control & Monitoring for Conveyors of Churi Underground Mines, CCL.
- 6) NIT for Environmental Monitoring System for 6 Mines of BCCL submitted.
- 7) Draft NIT for Environmental Monitoring System for Swang, CCL submitted.
- 8) Communication System for inclusion in various PRs like Batura, Bodri North, Durgapur, Jhingurda, Pituria-Gidumuri, Hadla, Liguity, Tisra OCP, Kolagaon OCP, Govindpur Phase-2 OCP, Amlo Project and many others.

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

- 1) Repairing of 194 Nos. of HEMM Control Cards of various subsidiaries.
- 2) Repairing and Calibration of 180 Nos. of methanometers of various subsidiaries.

## **9.4 COAL TECHNOLOGY**

The following jobs were completed /undertaken by this department during the period under review:

- i) Identification & Characterization of coal sources in the command area of WCL for sponge iron making;
- ii) Sampling & Analysis of Stockpile of Kathara Washery slurry, CCL.
- iii) Technical support to S&T projects under SSRC on proposals relating to Coal Utilization projects.
- iv) Technical services to Ministry of Coal /CIL on issues relating to Coal Technology/Utilization e.g,
  - Scrutiny of Applications for Coal Block for CTL Project: A MOC referred Job
  - Participation as a member of Joint Task Force(JTF) of CIL & GAIL for proposed Coal gasification project
- v) Interface assignment on "Resource Assessment and characterization of non-coking coal for sponge iron industry" under CIL R&D fund.
- vi) Coal S&T job with CFRI:

"Development of a cheap energy efficient by-product coke oven for production of hard coke for Steel/Metallurgical use".

An S&T Project titled “Agglomeration formation in reducing condition in Pressurised Fluidised Bed Gasification (PFBG) with low rank high ash coals” is under implementation by CMPDI with CIMFR, Dhanbad (formerly known as CFRI)

## **9.5 Management System Consultancy:**

CMPDIL diversified into the field of management system consultancy in 1998. Over the years, it has expanded its capabilities in this field, and 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, Six Sigma application, and industry specific translations of ISO 9001, eg, ISO 17025, ISO 16949, etc.

During this year, CMPDIL also diversified in providing consultancy for integrated management system (IMS) conforming simultaneously to ISO 9001, ISO 14001, OHSAS 18001, and SA 8000.

The scope of all such consultancies include;

- (i) Creation of management system;
- (ii) Providing training support
- (iii) Initial implementation and certification support; and
- (iv) Post certification support/assessments etc.

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

CMPDI has assisted CIL subsidiary companies to achieve a total of 100 ISO 9001 and ISO 14001 certifications through its consultancy in various mines, hospitals, workshops, washery, etc.

### **9.5.2 Job Completed during 2008-09**

Management System Consultancy worth about Rs. 35.55 lakhs was completed during the year, which resulted in total 25 management-system certifications – 18 of ISO 9001 [9 OCPs, 3 workshops, 1 hospital, 4 HQ departments and 1 total company – including 9 re-certifications], and 7 of ISO 14001 all for OCPs.

### **9.5.3 Work in Progress**

Presently, CMPDIL is providing Management System Consultancy worth about Rs.4 crores. This is for 132 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 HUMAN RESOURCE DEVELOPMENT

During the year 2008-09, exposure was given to CMPDIL employees in the following major areas:

Major Area	STC	IICM	External	Foreign	Total
Managerial	36	52	25		113
Technical/Functional	231	42	108		381
Cross Functional	41	110	48		199
Computer	80	6			86
Foreign Training/tour				34	34
<b>Total</b>	<b>388</b>	<b>210</b>	<b>181</b>	<b>34</b>	<b>813</b>

### 10.1 Foreign training

In the year 2008-09, 34 executives from CMPDIL including CMD & Directors visited abroad for attending meetings, conferences and trainings in several parts of the world. The executives who went abroad are sharing their experience and knowledge among the executives of different subsidiaries of CIL through presentations in IICM.

### 10.2 External training

Every year quite a good number of executives are being sent to different institutions/ places for participating in Training, Conferences, Workshops and Symposiums. This year **181 nos** of executives and non executives have attended programmes at different places in India. Nomination is generally made by the Head of the Division and Regional Directors and approved by CMD/ Director as per the need of the company.

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

- Environmental Legislation in India –Interpretation and Implementation’ at ESCI, Hyderabad
- Environmental Management in Coal Mining at ISMU, Dhanbad
- Vigilance course at CBI academy, Ghaziabad
- Project Management at Uttarakhand Academy of Admn., Nanital
- Training on Industrial Safety at CIIM, Nagpur
- Trade Union - Management co-operation for higher productivity at CIIM, Nagpur
- Hydraulics in Mining & Construction Equipment at ISMU, Dhanbad
- Effective Supervision in industry at CIIM, Nagpur
- Accident Prevention & Safety Promotion in Indian Industry at CIIM, Nagpur
- Mining Hazards at Sri Krishna Lok Prasasan Samasthan, Ranchi
- Initiative & Innovation for Management Effectiveness at ISTD, New Delhi with DPE
- Trends in Strata Control Techniques and Instrumentation for Enhancing Safety in Coal Mines at NIT, Rourkela
- Remote Sensing and GIS - Technology & Applications’ at National Remote Sensing Agency. Hyderabad



- Application of Numerical Modelling in Strata Control at IT, BHU, Varanasi
- Workshop & Technical Presentation at Gemcom, at Kolkata
- Artificial Recharge Techniques in Different Hydrogeological Conditions at Central Ground Water Board, Faridabad
- Advances in Mine Surveying Technology at ISMU, Dhanbad
- Safe Mining Methods, design & Technology at IIT, Kharagpur
- Energy Efficiency in Thermal & Electrical Utilities of Process Industries and its Implementation at Engg. Staff College of India, Hyderabad
- Radar Remote Sensing & Application at IIRS, Dehradun
- International Conference on Coking Coals & Coke Making : Challenges and Opportunities at RDCIS, Ranchi
- International Conference on 'Advanced Technology in Exploration and Exploitation of Minerals at Jodhpur
- Global Mining Summit at CII, New Delhi
- 7th H2 Production Symposium at Linde Engg. India, New Delhi
- Project Management -at the centre stage of economic transformation at Project Management Associates, Noida
- International symposium on geo-mechanics and Geo-environment in Mining & Allied Industries at IT, BHU, Varanasi

### 10.2.1 At IICM

Every year HRD Division nominates good 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 Heads of Divisions & Regional Directors based on requirement of company & customer need.

**At IICM 210** numbers of executives have been trained in 2008-09.  
The topics taken up are listed below:

- Land Acquisition and R&R
- General Management Programme
- Competency based HRM
- Functional Skill Programme for System(Java/JSP,Oracle reports)
- Right to Information Act.2005
- Programme on Finance for Non-Finance
- Functional Skill Programme for E&M Engineer
- Functional Skill Programme for Mining Engineer
- E-Procurement
- IT in Mining
- Out Sourcing & Statutory Obligation
- Functional Skill Programme for System
- Social Impact Assessment
- Corporate communication
- VAT & Service Tax
- Functional Skill Programme for Mining & Safety
- Programme on Portfolio Management & IPO
- Carbon Market & EMS
- Advance Management Programme

- Tendering Procedure and contract Management in civil engineering
- Design of ETP,STP, its operation & Maintenance
- Functional Skill Programme for System(Data Communication Net )
- Functional Skill programme for Finance
- Programme on Discipline & Disciplinary Procedure
- Six Sigma
- Project Management
- Functional Skill Programme for E&M Engineer
- WTO & IPR for Decision Making
- Integrity Pact

### **10.2.2 AT Staff Training College**

STC is conducting training programmes for the employees of CMPDI. As per MOU with CIL, target for Training days/executive was 2.6. CMPDI achieved the target and Training days/executive achieved was 4.53. Thrust was given to train Mine Planner and Geologists in Minex Software. 47 Mine Planners and 17 Geologists were imparted training on Minex software. A total of **388** executives and non executives have been trained in 2008-09.

Major areas of training/ Workshop were as follows:

- Minex Software ( Basic for Opencast Planners, Underground Planners & Geologists; Advance course for Opencast Planners)
- Simblast Software
- Slope Stability
- AutoCad
- Spectra Precision Focus 10 Electronics total station & its Software
- Quality Management System Concept (ISO 9001)
- Internal Quality Audit (ISO 9001)
- Hindi Software
- Rajbhasha Karyashala
- Computer Application in Office Work
- Knowledge Development & Skill up gradation
- Repair and Maintenance of Drills
- Systematic application of Drilling and use of Drilling Equipments/Accessories

### **10.3 Training at CMPDIL 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 CMPDIL. This training is being imparted mainly to the ward of employees of Coal India Limited but as a special case, the training is also being provided to outsiders.

Total students trained at CMPDI in 2008-09 was 88. The students undergo these Training/Project work for 7 days to 6 months. After completion of training / project, HRD Division is providing a certificate for successful completion.

The institutions mainly approached for training are:

- IIT, Kharagpur
- IIT, Guwahati
- NIT, Tiruchirapalli
- Birla Institute of Technology, Ranchi
- J. N. College, Ranchi
- Women's College, Ranchi
- XISS, Ranchi
- Gossner College, Ranchi
- University of Petroleum & Energy Studies, Dehradun
- Bangalore University, Bangalore
- Gujrat national law University, Gujrat
- Sri Mata Vaishno Devi University, Katra
- Bhilai Institute of Technology, Bhilai
- Mining Institute, Koderma
- SRM University, Chennai
- JPIIT, Noida
- Institute of Productivity & Management, Kanpur
- KIIT, Bhubaneswar
- National Institute of management Science, Pune
- Arya Bhatt Institute of Engineering & Management, Durgapur
- Kalinga Institute of Industrial Technology, Bhubaneswar

## **11.0 OUTSIDE CIL CONSULTANCY**

During the year 2008- 2009, Consultancy services were provided to 18 organisations for 27 jobs. Some of the important clients/organizations to whom services were provided are 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.

Presently, 15 outside consultancy jobs are in hand for 11 organisations like SAIL-ISP, Tata Steel, NTPC, Neyveli Lignite Corporation Ltd., Chattisgarh State Electricity Board, NALCO, MOIL, Baitarni West Coal Co. Limited, Reliance Coal Resource Ltd. ( M/s Sasan Power Ltd.), DVC etc.

During the year 2007-08, 29 jobs worth Rs.10 crores and 77 lakhs from 18 organisations were procured by CMPDI.

## 12.0 MANPOWER AND WELFARE ACTIVITIES

### 12.1 MANPOWER

Particulars		As on March 31, 2008	As on March 31, 2009
<b>Executive</b>		<b>760</b>	<b>772</b>
<b>Non executive</b>			
	Monthly Rated	1365	1383
	Daily Rated	923	910
		<b>2288</b>	<b>2293</b>
<b>Grand Total</b>		<b>3048</b>	<b>3065</b>

### 12.2 WELFARE ACTIVITIES

- i) CMPDIL has 2518 nos. quarters at its Headquarters and Regional Institutes with housing satisfaction of 100%.
- ii) Adequate supply of drinking water has been made available to employees of CMPDI.
- iii) 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.
- iv) CMPDIL provides financial assistance/grant to DAV Public School, Gandhi Nagar, Ranchi and Birsa Uchcha Vidhyalaya, Hatiagonda, Ranchi which is only for tribal students. There are 20 nos. of school buses including hired small vehicles for school going children of employees.
- v) Scholarship is also awarded to the children of CMPDI employees as per provision of CIL. For 2008-09. An amount of Rs. 1,49,300/- is disbursed towards these scholarships.
- vi) CMPDIL team participated in the Inter Coal Cricket Tournament held at CIL during middle of March'09. Two employees of CMPDI have participated in the Inter-Public Sector Carrom Tournament held at Mumbai. Smt. Pushpa Hassa bagged Gold Medal in Inter-Coal Athletic Meet. Smt. Hassa also bagged Gold Medal in National Master Meet held at Haryana in March'09. Sri G.S. Arora and Sri A. D. Jamkar (Both CMPDI) bagged Gold Medal in the Veteran Tennis (Inter-Coal) Tournament. CMPDI(HQ) organised Chairman Challenge Shield Football Tournament during 3<sup>rd</sup> week of March'09.
- vii) Air conditioned Canteen has been provided at CMPDI HQ and at two of its Regional Institutes at Asansol and Bhubaneshwar. Food is provided to its employees at 50% subsidy.
- viii) Gratuity and Pension papers are given to the employees on the day of their superannuation.
- ix) There are 3 (three) co-operative credit societies in CMPDIL.
- x) All the employees of CMPDIL are getting their salary through Bank.
- xi) CMPDIL has made financial assistance to Birsa High School, (an amount of Rs. 10,000/- was given during the financial year 2008-09). This school is a tribal based school.

- xii) CMPDIL has made available 30 nos. chairs to Birsa High School.
- xiii) CMPDIL installed lightning conductor at Birsa High School. An amount of Rs. 20,000/- has been spent towards this .
- xiv) A programme of Health Check-up was done at Birsa High School for the SC/ST students during the financial year 2008-09. An amount of Rs. 5,000/- was spent in this connection.
- xv) Providing Almirah, Book shelf and Laboratory equipment for Birsa High School is under process.
- xvi) We have made available woollen garments to the orphanages of the nearby areas which includes SC/ST boys and girls.
- xvii) Construction of Sulabh Shouchalaya in nearby village of RI-V, Bilaspur amounting to Rs. 2.97 lakh is under progress.
- xviii) Medical facilities are given to the Employees & children of CMPDIL employees. The approximate total medical expenditure is Rs. 282.00 lakh.

### **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 daily official work during the period under review.

Your company's achievement in Hindi correspondence is 94.76% during the year under review as compared to 86.52% in the previous year (2007-08) which is very close to the target fixed by the Ministry of Home Affairs, Department of Official Language, New Delhi in its Annual Programme.

Besides, documents under Section 3(3) of the Official Language Act, the minutes of the different meetings held at the level of CMD/Director, 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 laurels all over the country and was awarded "Saraswat-Samman" by Hindi Sahitya Sammelan, Prayag on the eve of Hindi Diwas on 14<sup>th</sup> September 2008 at Allahabad.

In the month of June, 2008, Hindi Essay, Noting- drafting and Translation competitions were also organized among the employees of the company to propagate and promote Official Language "Hindi" and the winners were awarded suitably by the honorable Member of Hindi Advisory Committee, Ministry of Coal and Observer of CMPDIL respected Dr. Mata Prasad (Ex-Governor, Arunachal Pradesh) in the meeting of Official Language Implementation Committee of CMPDIL.

The month of September, 2008 was observed as "Rajbhasha 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 competitions held during the month and the winners were awarded suitably. In addition, two departments who have done most of their official work in Hindi, were awarded Chairman's winner and runner shields respectively.

Four Hindi workshops were also organized under the aegis of Staff Training College (Human Resource Development) to facilitate the use of Official Language "Hindi" in day-to-day 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, Progress of Hindi in day-to-day Official Work of all Regional Institute is also included as permanent Agenda in RD's Co-ordination Meeting and reviewed regularly.

#### **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 2008-09. 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 : 02.07.2009

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





## AUDITORS'S REPORT

## MANAGEMENTS' REPLY

iv. *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.*

No comments

v. *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.*

No comments

vi. *Impact of the above comments (i) to (iv) on Profit/Loss or Assets/Liabilities is unascertained. There is no impact of comment (v) on any of them.*

No comments

vii. 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.

No comments

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.

No comments

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;

No comments

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.*

No comments

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.

No comments

## **AUDITORS'S REPORT**

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, 2009.
- 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)**

Place : Ranchi  
Dated: 3<sup>rd</sup> June 2009.

## **MANAGEMENTS' REPLY**

No comments

## **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, 2009)

### 1. In respect of Fixed Assets:

(a) The Company has generally maintained proper records of fixed assets showing full particulars, including quantitative details and situation of fixed assets. *However in case of Assets belonging to S&T Fund and Furniture & Fittings of CMPDI Head Quarter, Fixed Asset Register is maintained year wise instead of Asset wise.*

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. *Physical Verification of S&T Assets has not been done during the year.*

No comments

( c ) In our opinion, the Company has not disposed off a substantial part of the fixed assets during the year and the going concern status of the Company has not been affected.

No comments

### 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

## **MANAGEMENTS' REPLY**

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

- |  |             |
|--|-------------|
| 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:   | No comments |
| (a) The Company has not granted any loans, secured or unsecured to companies, firms or other parties covered in the register maintained under section 301 of the Act.  | No comments |
| (b) In view of our comment in 3(a) above, the clause 3(b) of aforesaid Order is not applicable to this Company.  | No comments |
| (c) In view of our comment in 3(a) above, the clause 3(c) of aforesaid Order is not applicable to this Company.  | 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 has taken unsecured loan from its Holding Company, Coal India Limited.   | No comments |
| (f) In our opinion and according to the information and explanations given to us, the rate of interest and other terms and conditions of the loan taken from its Holding Company, Coal India Limited are, prima facie, not prejudicial to the interest of the Company.   | No comments |
| (g) In respect of the loan taken by the Company from Coal India Limited, interest payments are regular and the principal is repayable on demand.   | No comments |
| 4. In our opinion, there is an adequate internal control system commensurate with the size of the Company and the nature of its business, for the purchase of inventory and fixed assets and for sale of goods and services. During the course of our audit, we have not observed any major weakness in internal control system.                     | No comments |
| 5. In respect of transactions covered under Section 301 of The Companies Act, 1956:-   | No comments |
| (a) In our opinion and according to the information and explanations given to us, there were no transactions made in pursuance of contracts or arrangements that needed to be entered in the register maintained under Section 301.  | No comments |
| (b) In our opinion and according to the information and explanations given to us, there were no transactions made in pursuance of contracts or arrangements entered in the register maintained under Section 301 and exceeding Rs. Five lakhs at prices which are not reasonable having regard to the prevailing market prices at the relevant time. | No comments |

## **ANNEXURE TO THE AUDITORS REPORT**

## **MANAGEMENTS' REPLY**

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.

During the financial year 2008-09 five Regional Institutes were covered in comparison to four in 2007-08.

8. We have been informed that the Central Government has not prescribed the maintenance of cost records under Section 209(1) (d) of The Companies Act, 1956 for the Company.

No comments

9. In respect of statutory dues:

No comments

- (1) According to the records of the Company, the Company is generally regular in depositing undisputed statutory dues such as provident fund, investor education and protection fund, income tax, sales tax, 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, 2009 for a period of more than six months from the date they became payable *except the following:-*

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

- (2) *The disputed statutory dues aggregating to Rs. 57.02 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

## **ANNEXURE TO THE AUDITORS REPORT**

## **MANAGEMENTS' REPLY**

10. The Company has no accumulated losses as at 31<sup>st</sup> March 2009 and has also not incurred any cash losses from operating activities during the financial year ended on that date and in the immediately preceding financial year.
11. According to the information and explanations given to us, we are of the opinion that the Company has no dues to financial institutions, banks or debenture holders.
12. According to the information and explanations given to us, the Company has not granted any loans or advances on the basis of security by way of pledge of shares, debentures and other securities.
13. The Company is not a Chit Fund, Nidhi or Mutual benefit fund/society. Therefore, clause (xiii) of CARO is not applicable to the Company.
14. In our opinion the Company is not dealing or trading in shares, securities, debentures and other investments,
15. According to the explanations and information given to us, the Company has not given any guarantee for loans taken by others from banks or financial institutions.
16. The Company has not raised any term loans during the year.
17. In our opinion and according to the explanations given to us, the Company has not raised any short term funds and used it for long term purposes or vice versa.
18. During the year, the Company has not made any preferential allotment of shares to parties and companies covered in the register maintained under Section 301 of The Companies Act, 1956.
19. The Company has not issued any debenture during the year.
20. The Company has not raised any money by public issue during the year.
21. As per information and explanation received from the management, no fraud on or by the Company was reported during the year.

No comments

No comments

No comments

No comments

No comments

No comments

No comments

No comments

No comments

No comments

No comments

No comments

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

sd/-  
**(CA. SUMIT AGRAWAL)**  
Partner  
**(Membership No. 77531)**

Place : Ranchi  
Dated: 3<sup>rd</sup> June 2009.

**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 2009.**

The preparation of financial statements of Central Mine Planning & Design Institute Limited for the year ended 31<sup>st</sup> March 2009 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 is 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 3 June 2009.

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 2009. 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 comment 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/

**( Dr. Smita S. Chaudhri )**  
Principal Director of Commercial Audit  
& Ex-officio MAB – II, Kolkata-20

Place: Kolkata  
Date: 26 June 2009

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**  
**BALANCE SHEET AS AT 31ST MARCH, 2009**

		As at 31st March 2009 (Rs in Lakh)	As at 31st March 2008 (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	4844.94	4483.13
<b>Loan Funds</b>			
Secured	D	0.00	0.00
Unsecured	E	181.11	180.94
Total Funds Employed		<u>6930.05</u>	<u>6568.07</u>
<b><u>APPLICATION OF FUNDS</u></b>			
<b>Fixed Assets</b>			
(including assets held on behalf of Govt. / CIL)			
Gross Block	F	14180.64	13399.97
Less : Depreciation		8311.41	7845.79
Net Block		<u>5869.23</u>	5554.18
<b>Surveyed off Assets</b>		47.56	44.47
<b>Capital Work in Progress</b>	G	804.36	588.32
<b>Investment</b>	H	0.00	0.00
<b>Deferred Tax (net)</b>		4357.43	2049.06
<b>Current Assets, Loans &amp; Advances</b>			
Inventories	I	398.82	469.72
Sundry Debtors	J	24968.22	20063.00
Cash & Bank Balances	K	4714.19	6552.56
Loans & Advances	L	5367.51	5363.60
Other Current Asset	M	879.89	493.61
Total Current Assets, Loans & Advances		<u>36328.63</u>	<u>32942.49</u>
Less: Current Liabilities & Provisions	N	40477.16	34693.67
Net Current Assets		<u>-4148.53</u>	-1751.18
Intangible Assets	O	0.00	83.22
		<u>6930.05</u>	6568.07
<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

sd/-  
(Udayan Chakrabarti)  
Company Secretary

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

sd/-  
( A. K. Debnath )  
Director

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

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

Place : Ranchi  
Date : 3rd June, 2009

sd/-  
( CA Sumit Agrawal )  
Partner



**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2009**

		Current year	Previous Year
	Schedule	Year ending 31st March 2009 (Rs in Lakh)	Year ending 31st March 2008 (Rs in Lakh)
<b>INCOME</b>			
Sale of services	1	32981.63	19596.08
Coal issued for other purpose	2	0.00	0.00
Other income	3	295.25	311.62
Total Income		<b>33276.88</b>	<b>19907.70</b>
<b>EXPENDITURE</b>			
Consumption of Stores & Spares	4	1118.24	1049.63
Employees Remuneration & Benefits	5	25292.54	14371.16
Social Overhead	6	1545.18	1216.06
Power & Fuel	7	190.92	193.98
Repairs	8	329.47	412.88
Contractual Expenses	9	1806.76	282.12
Miscellaneous Expenses	10	1915.42	1493.94
Total Expenditure		<b>32198.53</b>	<b>19019.77</b>
<b>GROSS OPERATING PROFIT(+)/LOSS(-)</b>		<b>1078.35</b>	<b>887.93</b>
Interest	11	48.94	21.57
Depreciation		284.91	237.02
Provisions	12	65.08	72.65
<b>PROFIT(+)/LOSS(-) FOR THE YEAR</b>		<b>679.42</b>	<b>556.69</b>
Prior Period Adjustment	13	5.83	56.72
<b>NET PROFIT(+)/LOSS(-) BEFORE TAXATION</b>		<b>673.59</b>	<b>499.97</b>
Provision for Income Tax			
For current year		2501.00	643.75
For earlier years		-110.10	-31.32
For Fringe Benefit Tax		107.35	85.36
For Deferred Tax		-2308.37	-482.93
<b>PROFIT(+)/LOSS (-) AFTER TAX</b>		<b>483.71</b>	<b>285.11</b>
Transferred to General Reserve		0.00	0.00
<b>PROFIT(+)/LOSS(-) AFTER TRANS. TO GENERAL RESERVE</b>		<b>483.71</b>	<b>285.11</b>
Add : Profit upto the previous year		2626.50	2510.82
Less : Employees terminal benefits as on 31/03/2007 as per AS-15		0.00	169.43
<b>BALANCE CARRIED TO BALANCE SHEET</b>		<b>3110.21</b>	<b>2626.50</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

sd/-  
(Udayan Chakrabarti)  
Company Secretary

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

sd/-  
( A. K. Debnath )  
Director

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

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

Place : Ranchi  
Date : 3rd June, 2009

sd/-  
( CA Sumit Agrawal )  
Partner

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2009**

**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
	-----	-----
	1904.00	1904.00
	-----	-----

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2009**  
**SHARE MONEY PENDING ALLOTMENT**

**SCHEDULE - B**

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

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2009**  
**RESERVE & SURPLUS**
**SCHEDULE - C**

	<b>Current Year</b>		<b>Previous Year</b>
	<b>(Rs. in Lakh)</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	1022.24	1155.24	
Additions during the year	<u>95.54</u>	<u>15.33</u>	
	1117.78	1170.57	
Less : Depreciation written-off during the year	123.07	133.66	
Less : Adjustment	<u>0.00</u>	<u>14.67</u>	1022.24
<b>UNDP Grants</b>			
As per last Account	6.23	6.55	
Addition during the Year	<u>0.00</u>	<u>0.00</u>	
	6.23	6.55	
Less : Depreciation written off	<u>0.30</u>	<u>0.32</u>	6.23
<b>CCDA Grants</b>			
As per last Account	9.34	8.01	
Addition during the Year	<u>9.25</u>	<u>1.66</u>	
	18.59	9.67	
Less : Depreciation written off	<u>2.98</u>	<u>0.33</u>	9.34
<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	431.46	346.42	
Addition during the Year	<u>48.53</u>	<u>166.88</u>	
	479.99	513.30	
Less : Depreciation written off	<u>93.16</u>	<u>81.84</u>	431.46
<b>P.R.E. Grants</b>			
As per last Account	169.35	150.78	
Addition during the Year	<u>9.14</u>	<u>82.02</u>	
	178.49	232.80	
Less : Depreciation written off	<u>77.44</u>	<u>63.45</u>	169.35
<b>CMM/CBM CLEARING HOUSE :</b>			
As per last Account	0.00	0.00	
Addition during the Year	<u>12.90</u>	<u>0.00</u>	
	12.90	0.00	
Less : Depreciation written off	<u>0.31</u>	<u>0.00</u>	0.00
	1517.19		1639.09
<b>GENERAL RESERVE :</b>	217.54		217.54
Balance of Profit transferred from Profit & Loss Account	<u>3110.21</u>		<u>2626.50</u>
Total	<u>4844.94</u>		<u>4483.13</u>

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2009**

**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 2009**

**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>160.57</b>	160.57
Interest accrued & due	<b>20.54</b>	20.37
<b>Total</b>	<b>181.11</b>	<b>180.94</b>

## SCHEDULE-F

## Schedule to Balance Sheet as at 31st March 2009

## FIXED ASSETS

( RS IN LAKH)									
PARTICULARS				DEPRECIATION				Net Block	
COST	ADDITION	ADJUSTMENT	TOTAL COST	DEPRECIATION	DEPRECIATION	ADJUSTMENT	TOTAL	NET BLOCK	NET BLOCK
As AT	DURING	FOR DISPOSAL/	AS AT	AS AT	FOR THE	FOR DISPOSAL/	DEPRECIATION	AS AT	AS AT
1.4.2008	THE YEAR	DISCARDED OF	31.03.2009	1.4.2008	YEAR	DISCARDED ETC.	UPTO	31.03.2009	31.03.2008
		FIXED ASSETS					31.03.2009		
<b>A. Fixed Assets :</b>									
<b>(Excluding S&amp;T, CCDA, EMSC, UNDP,PRE &amp; CIL R&amp;D Assets)</b>									
<b>Land :</b>									
Freehold	114.71		114.71	0.00			0.00	114.71	114.71
Leasehold	117.98		117.98	61.41	3.12		64.53	53.45	56.57
<b>Building :</b>									
Freehold	3875.08	49.99	3923.90	1140.82	73.95	-1.12	1213.65	2710.25	2734.26
Leasehold	-		-	-			-	-	-
Plant & Machinery	4178.41	496.78	4675.19	3009.17	211.17	-41.93	3178.41	1449.35	1169.24
Furniture,Fittings & Office Equipment	1146.68	61.14	1207.82	943.06	43.30	-6.74	979.62	221.16	203.62
Vehicle	615.12	140.79	755.91	560.58	16.12	-12.84	563.86	178.53	54.54
<b>TOTAL (A)</b>	<b>10047.98</b>	<b>748.70</b>	<b>10796.68</b>	<b>5715.04</b>	<b>347.66</b>	<b>-62.63</b>	<b>6000.07</b>	<b>4727.45</b>	<b>4332.94</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	2.90	0.56		3.46	27.61	28.17
Plant & Machinery	3293.94	122.36	3416.30	2112.18	221.96	-43.27	2290.87	1082.16	1181.76
Furniture,Fittings & Office Equipment	23.05	22.04	45.09	11.95	1.34		13.29	31.80	11.10
Vehicle	3.93		3.93	3.72			3.72	0.21	0.21
<b>TOTAL (B)</b>	<b>3351.99</b>	<b>144.40</b>	<b>3496.39</b>	<b>2130.75</b>	<b>223.86</b>	<b>-43.27</b>	<b>2311.34</b>	<b>1141.78</b>	<b>1221.24</b>
<b>TOTAL (A+B)</b>	<b>13399.97</b>	<b>893.10</b>	<b>14293.07</b>	<b>7845.79</b>	<b>571.52</b>	<b>-105.90</b>	<b>8311.41</b>	<b>5869.23</b>	<b>5554.18</b>
<b>C. Assets Surveyed Off</b>								<b>47.56</b>	<b>44.47</b>
<b>Previous Year :</b>									
(i) Fixed Assets-(Excl. S&T,CCDA,EMSC, UNDP,PRE & CIL R&D Assets)	9738.59	505.18	10243.77	5606.39	294.49	-185.84	5715.04	4332.94	4132.20
(ii) S&T, CCDA, EMSC , UNDP ,PRE & CIL R&D Assets	3148.82	203.17	3351.99	1960.61	170.14	0.00	2130.75	1221.24	1188.21
<b>TOTAL</b>	<b>12887.41</b>	<b>708.35</b>	<b>13595.76</b>	<b>7567.00</b>	<b>464.63</b>	<b>-185.84</b>	<b>7845.79</b>	<b>5554.18</b>	<b>5320.41</b>
(iii) Assets Surveyed Off								<b>44.47</b>	<b>34.66</b>

**Schedule to Balance Sheet as at 31st March 2009**  
**FIXED ASSETS**

SCHEDULE - F  
Annexure - F1

**NOTE 1 :****(RS IN LAKH)****ALLOCATION OF DEPRECIATION :**

	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</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	123.07	133.66
(a) 100% Depn. on Assets costing below Rs. 5000/-	11.25	11.72	UNDP	0.30	0.32
(b) Others	273.66	225.30	CCDA	2.98	0.33
2. Social Overhead	63.83	58.55	EMSC	0.00	0.00
3. Prior Period Adjustment	0.00	0.00	CIL R&D	93.16	81.84
4. Capital Assets against Grants *	243.27	234.88	PRE(Fixed Assets)	23.45	18.73
			CMM/CBM CL.HOUSE ASSET	0.31	0.00
			<b>SUB TOTAL</b>	<b>243.27</b>	<b>234.88</b>
			PRE/S&T etc(Intangible assets)	<b>82.70</b>	<b>44.72</b>
			<b>GRAND TOTAL</b>	<b>325.97</b>	<b>279.60</b>
<b>TOTAL</b>	<b>592.01</b>	<b>530.45</b>			

**NOTE 2**

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

	<b>COST As at 31st- March_09</b>	<b>COST As at 31st- March_08</b>
(i) Building	2830.78	2762.98
(ii) Vehicles	49.69	49.69
<b>TOTAL</b>	<b>2880.47</b>	<b>2812.67</b>

**NOTE 3 :****RECONCILIATION OF DISPOSAL OF  
FIXED ASSETS :**

	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
1. Provision for Depreciation	0.02	2.67
2. Bank	0.02	0.60
3. Loss (+) / Profit (-) of Fixed assets	-0.02	-0.46
Disposal of Fixed Assets (Gross Cost)	<b>0.02</b>	<b>2.81</b>

**NOTE 4 :****RECONCILIATION OF DISCARDED  
FIXED ASSETS**

	<b>As at 31st- March_09</b>	<b>As at 31 st March_08</b>
Gross Cost	949.67	887.65
Provn. for Depn.	902.11	843.19
	<b>47.56</b>	<b>44.46</b>

**NOTE 5 :****RECONCILIATION OF  
DEPRECIATION FUND :**

	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
Opening Balance :	7845.79	7567.00
Add : Depreciation provided during the year	571.52	464.63
	8417.31	8031.63
Less : Net Outflow of Fund : for Surveyed/Written off and disposed off Assets	58.93	185.84
Less : Outflow Fund - Inter Company	3.65	0.00
Others	43.32	0.00
Closing balance	<b>8311.41</b>	<b>7845.79</b>

## Schedule to Balance Sheet as at 31 st March 2009

## CAPITAL WORK IN PROGRESS

PARTICULARS	COST				PROVISION				NET ASSETS	
	Cost as on 1.04.08	Addition during the year	Adjustment for capitalisation/disposal/discard	Cost as on 31.3.2009	As on 1.4.2008	During the year	Withdrawal/Adjustment/ during the year	Total as on 31.3.2009	Net Assets as on 31.3.2009	Net Assets as on 31.3.2008
<b>(A) Capital Work -in- Progress (Excluding S&amp;T/R&amp;D Assets)</b>										
Buildings	66.15	24.29	-0.84	89.60	9.26	1.08		10.34	79.26	56.89
Plant And Machinery And Capital Items in Stores	168.24	298.02	-67.89	398.37	0.44			0.44	397.93	167.80
<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) Capital Work-in-Progress-  
( For S&T)**

Plant and Machinery and Capital Items in Stores	266.73			266.73	38.69	12.54		51.23	215.50	228.04
<b>( For CCDA)</b>										
Plant and Machinery and Capital Items in Stores	0.19		-0.19	0.00	0.00			0.00	0.00	0.19
<b>( For R&amp;D)</b>										
Coal Tailing Treatment Plant	144.59			144.59	26.05	6.87		32.92	111.67	118.54
Plant and Machinery and Capital Items in Stores	16.86		-16.86	0.00	0.00			0.00	0.00	16.86
<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>
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Previous year:

<b>(A) Capital Work -in- Progress (Excluding S&amp;T/R&amp;D Assets)</b>										
	224.91	68.87	-59.39	234.39	8.62	1.08	0.00	9.70	224.69	216.29
<b>TOTAL (A)</b>	<b>224.91</b>	<b>68.87</b>	<b>-59.39</b>	<b>234.39</b>	<b>8.62</b>	<b>1.08</b>	<b>0.00</b>	<b>9.70</b>	<b>224.69</b>	<b>216.29</b>
<b>(B) Capital Work-in-Progress- ( For S&amp;T/R&amp;D Assets)</b>										
	411.32	17.05	0.00	428.37	0.00	64.74	0.00	64.74	363.63	411.32
<b>TOTAL (B)</b>	<b>411.32</b>	<b>17.05</b>	<b>0.00</b>	<b>428.37</b>	<b>0.00</b>	<b>64.74</b>	<b>0.00</b>	<b>64.74</b>	<b>363.63</b>	<b>411.32</b>
<b>TOTAL (A+B)</b>	<b>636.23</b>	<b>85.92</b>	<b>-59.39</b>	<b>662.76</b>	<b>8.62</b>	<b>65.82</b>	<b>0.00</b>	<b>74.44</b>	<b>588.32</b>	<b>627.61</b>

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

	AS AT 31st MARCH 2009	AS AT 31st MARCH 2008
i) Buildings	89.60	66.15
ii) Roads & Culverts	-	-
iii) Others (Water Supply)	-	-
<b>TOTAL</b>	<b>89.60</b>	<b>66.15</b>

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2009**  
**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 2009  
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>402.85</b>		487.59
Less : Provision for slow moving/non-moving/ obsolescence	<u><b>86.49</b></u>		<u>92.66</u>
	<b>316.36</b>		394.93
Other stores at purchase price	<u><b>56.88</b></u>	<b>373.24</b>	<u>45.07</u>
Add : In Transit/Under Inspection		<b>25.58</b>	29.72
Total		<u><b>398.82</b></u>	<u>469.72</u>

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2009  
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>2834.16</b>		6824.06
Others	<u><b>22511.09</b></u>		<u>13551.68</u>
Total	<b>25345.25</b>		20375.74
Less : Provisions for doubtful debts	<u><b>377.03</b></u>		<u>312.74</u>
Balance	<b>24968.22</b>		20063.00
Classification :			
Unsecured & Considered good	<b>24968.22</b>		20063.00
Unsecured & Considered doubtful	<b>377.03</b>		312.74
	<u><b>25345.25</b></u>		<u>20375.74</u>
<b>Due from the Companies under the same management :</b> ( unsecured and considered good)			
Eastern Coalfields Limited	<b>2155.12</b>		1640.74
Bharat Coking coal Limited	<b>1869.52</b>		1323.18
Central Coalfields Limited	<b>2899.86</b>		4728.16
Western Coalfields Limited	<b>3631.89</b>		2895.22
South Eastern Coalfields Limited	<b>4204.37</b>		2795.17
Northern Coalfields Limited	<b>2688.14</b>		1353.17
Mahanadi Coalfields Ltd.	<b>2674.85</b>		3286.28
North East Coalfields	<b>284.79</b>		62.13
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>20425.22</b></u>		<u>18100.73</u>

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2009**

**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>106.14</b>	236.38
Remittance in-transit	<b>0.07</b>	0.04
Balance with Scheduled Bank :		
In Current Account *	<b>4477.52</b>	6253.39
In Deposit Accounts **	<b>130.46</b>	62.75
 Total	 <b>4714.19</b>	 6552.56

\* Includes Rs 1526.82 lakh being Govt. Grants pending disbursement

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

## SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2009

## 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	8.06	121.29
for Other Stores	73.35	54.83
Advances to Contractors for other Stores	0.00	6.39
Advances to Employees:		
for House Building	76.52	105.71
for Motor Car & Other Conveyances	0.37	1.26
for Others	136.51	179.02
Deposits for P&T, Electricity, Gas etc.	48.28	46.08
Advance payment of statutory Dues		
Income-tax	240.76	534.07
Fringe Benefit Tax	262.49	237.47
Sales Tax	9.42	9.42
Wealth tax	0.00	0.30
Pre paid Expenditure	16.78	13.60
Income Tax deducted at source	3499.58	2462.11
Subsidiaries Suspense Account	972.63	1566.65
Advances to Other Government Agencies	34.50	36.75
	<hr/>	<hr/>
Total	5379.25	5374.95
Less : Provisions	11.74	11.35
	<hr/>	<hr/>
Balance	5367.51	5363.60
	<hr/>	<hr/>
Notes :		
i) Secured & Considered good	76.89	106.97
Unsecured & Considered good	5290.62	5256.63
Unsecured & Considered doubtful	11.74	11.35
	<hr/>	<hr/>
	5379.25	5374.95
	<hr/>	<hr/>
ii) Amount due from an Officer of the Company Rs. 0.56 ( Prev. year Nil ). Maximum balance due at any time during the year Rs 0.56 lakh (Prev. year 0.71 Lakh)		
iii) Amount due from directors of the Company Rs. 6.30 lakh ( Prev. year Rs 0.46 lakh ). Maximum amount due at any time during the year Rs 11.50 Lakh ( Prev. Year Rs 4.33 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 2009**

**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>37.19</b>	31.42
Other Receivables		
i) Employees	<b>428.19</b>	453.07
ii) Others	<b>414.51</b>	9.12
Total	<b>879.89</b>	493.61

## SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2009

## SCHEDULE - N

## CURRENT LIABILITIES &amp; PROVISIONS

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Creditors for goods :		
Capital	116.63	163.17
Revenue	148.41	125.97
Sundry Creditors for contractual expenses		
Capital	121.91	93.88
Revenue	1126.88	408.34
Liability against Coal Block	1566.63	2569.83
Sundry Creditors for other expenses		
Power & Fuels	67.20	88.96
Others	754.04	867.05
Employee Remuneration & Benefits :-		
Salaries, Wages & Allowances (gross)	7467.85	3196.34
Gratuity	9286.00	4779.87
Attendance Bonus	50.35	35.43
Exgratia	259.61	185.78
Unpaid Salaries/Wages	90.90	73.76
Leave encashment	4445.22	2392.73
Statutory Dues :		
Income Tax deducted at source :		
from Employees	20.32	21.46
from Contractors	2.18	1.27
Service Tax	2738.86	1877.72
less : Service tax paid on bills	16.85	12.37
Advances & Deposits :		
from Customers	328.01	274.47
from Ministry of Coal (Annex. N - 4)	887.53	2511.75
from Contractors & others *	272.75	439.53
Government Grants pending disbursement		
Energy Coal (S&T) Grants (Annex N - 1)	59.77	104.82
Other grants (Annex N - 2)	253.79	1512.33
CIL R&D Fund (Annex N-3)	325.73	0.45
Current Account Balances with Holding co. & its subsidiaries		
Coal India Ltd. , Holding Co.	5980.38	11082.08
Other Liabilities :		
Retirement Pension Fund dues	52.72	58.83
Provident Fund dues	38.96	45.64
Cooperatives/Benevolent Fund/Recreation Club	19.63	21.78
Provisions :		
Provision for Taxation - Income Tax	3691.11	1490.11
Provision for Fringe Benefit Tax	263.71	242.36
Provision for Taxation - Wealth Tax	0.00	0.40
Non-refundable fees against Medical Scheme -		
for retired Executives	17.00	
Provision for loss of Asset	39.93	39.93
Total	40477.16	34693.67

\* 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 2009**

**ENERGY COAL S&T GRANTS**

**SCHEDULE - N**

**Annex ure N-1**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Opening Balance as on 01/04/2008	<b>104.82</b>	19.51
Amount received from Ministry of Energy-Coal (S&T) Grant	<b>1000.00</b>	1286.00
Refund from Implementing Agencies	<b>6.98</b>	47.47
	<b>1111.80</b>	1352.98
Disbursement to various Implementing Agencies :		
Andhra University	<b>2.75</b>	12.00
Anna University, Chennai	<b>0.00</b>	90.00
Annamalai University Madras	<b>0.00</b>	40.00
Benaras Hindu University	<b>5.00</b>	10.00
Central Fuel Research Institute	<b>45.00</b>	100.00
Central Mining Research Institute	<b>70.00</b>	125.83
CMERI	<b>4.00</b>	0.00
CIMFR, Dhanbad	<b>330.00</b>	0.00
CMRI	<b>3.00</b>	0.00
Coal Bed Methane	<b>100.00</b>	203.60
IICT	<b>0.88</b>	4.00
IISC, Banagalore	<b>4.26</b>	17.00
IIT, Delhi	<b>0.00</b>	0.00
IIT, Kharagpur	<b>20.00</b>	230.76
Indian School of Mines	<b>0.00</b>	5.00
ISMU, Dhanbad	<b>28.00</b>	0.00
Jadavpur University	<b>0.23</b>	10.00
Mepco College of Engg	<b>5.00</b>	0.00
National Institute of Rock Mechanics	<b>10.00</b>	0.00
Nayveli Lignite Corporation	<b>15.94</b>	115.76
Rajasthan State Mines & Minerals Ltd	<b>0.00</b>	100.00
Regional Research Laboratory, Jorhat	<b>3.07</b>	5.00
Regional Research Laboratory, Bhopal	<b>8.00</b>	0.00
RV College of Engg.	<b>55.00</b>	0.00
SAIL R&D Organisation	<b>0.00</b>	0.00
SCCL	<b>80.00</b>	0.00
T.M., Bhagalpur University	<b>9.00</b>	10.00
Tamil Nadu Agriculture University	<b>0.00</b>	34.00
Vector Control Research Centre, Pondichery	<b>15.00</b>	20.00
CMPDI Limited	<b>237.90</b>	115.21
	<b>-----</b>	<b>-----</b>
Total Disbursement	<b>1052.03</b>	1248.16
Closing Balance	<b>59.77</b>	104.82

## SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2009

Schedule - N  
Annexure - N.2

## OTHER GRANTS

Rs. in Lakhs

Name of Government Grants		Opening Balance	Addition during the year	Total	Disbursed during the year	Balance as on 31/03/09
		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>0.52</b>	<b>0.00</b>	<b>0.52</b>
	Prev. Year	0.52	0.00	0.52	0.00	0.52
Promotional Regional Exploration Grants (Annex. N.2.1)	<b>Curr. Year</b>	<b>1431.20</b>	<b>3000.00</b>	<b>4431.20</b>	<b>4252.44</b>	<b>178.76</b>
	Prev. Year	1939.57	3499.00	5438.57	4007.37	1431.20
Environmental Measures Subsidence Control and Rehabilitation Control of Fire & Subsidence ( RCFS ) ( Annex. N.2.2)	<b>Curr. Year</b>	<b>3.46</b>	<b>990.00</b>	<b>993.46</b>	<b>986.85</b>	<b>6.61</b>
	Prev. Year	8.77	1799.00	1807.77	1804.31	3.46
Testing Laboratory Grants	<b>Curr. Year</b>	<b>28.00</b>	<b>0.00</b>	<b>28.00</b>	<b>0.00</b>	<b>28.00</b>
	Prev. Year	28.00	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>26.82</b>	<b>0.00</b>	<b>26.82</b>
	Prev. Year	26.82	0.00	26.82	0.00	26.82
Coal Conservation Development - Advisory Grants	<b>Curr. Year</b>	<b>22.33</b>	<b>0.00</b>	<b>22.33</b>	<b>9.25</b>	<b>13.08</b>
	Prev. Year	23.98	20.30	44.28	21.95	22.33
<b>Total</b>	<b>Curr. Year</b>	<b>1512.33</b>	<b>3990.00</b>	<b>5502.33</b>	<b>5248.54</b>	<b>253.79</b>
	Prev. Year	2027.66	5318.30	7345.96	5833.63	1512.33

----- CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2009**

**Promotional Regional Exploration Grants**

**SCHEDULE - N**

**Annex ure N-2.1**

	<b>Current Year (Rs. in Lakh)</b>	Previous Year (Rs. in Lakh)
Opening Balance	1431.20	1939.57
Amount received from Ministry of Coal	3000.00	3499.00
	<hr/> 4431.20	<hr/> 5438.57
Disbursement to various Implementing Agencies :		
Central Mine Planning & Design Institute Limited	293.96	487.33
CMFRI	23.71	0.00
Geological Survey of India	473.53	515.65
Mineral Exploration Corporation Limited	3324.28	2793.54
Neyveli Lignite Corporation Limited	25.63	178.27
SCCL	111.33	32.58
	<hr/> 4252.44	<hr/> 4007.37
Total disbursement		
Closing Balance	<hr/> 178.76	<hr/> 1431.20

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2009**

**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>	Previous Year (Rs. in Lakh)
Opening Balance	3.46	8.77
Receipts from Ministry	990.00	1799.00
	<hr/> 993.46	<hr/> 1807.77
Disbursement to various Implementing Agencies :		
Bharat Coking Coal Limited	950.00	1512.00
Eastern Coalfields Limited	0.00	255.00
EMSC Co-ord	36.85	0.00
Central Mine Planning & Design Institute Limited	0.00	37.31
	<hr/> 986.85	<hr/> 1804.31
Total disbursement		
Closing Balance	<hr/> 6.61	<hr/> 3.46



## SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2009

## C I L R &amp; D FUND

## SCHEDULE - N

## Annex ure N-3

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Opening Balance ( including disbursement to CMPDIL upto previous Financial Year)	2290.08	1675.62
Amount received during the year from Coal India	1494.46	1072.44
Total Receipt	3784.54	2748.06
Disbursement to Implementing Agencies other than CMPDIL during the year :		
Central Coalfields Ltd.	0.00	137.00
CIMFR, Dhanbad	13.42	0.00
ECL	451.00	0.00
IIT, Kharagpur	295.00	49.67
Indian School of Mines	24.00	0.00
National Remote Sensing Agency	0.00	0.00
Presidency College, Kolkata	25.00	0.00
SAIL R&D Organisation	80.00	25.00
SECL	0.00	246.31
Total disbursement to outside agencies (a)	888.42	457.98
Balance including disbursement to CMPDIL	2896.12	2290.08
Disbursement to CMPDIL (b)		
Upto previous Financial Year	2289.63	1639.37
During the year	280.76	650.26
Total disbursements (a+b)	3458.81	2747.61
Closing Balance	325.73	0.45

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2009**

**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>2511.75</b>	927.95
Amount received from Ministry of Coal	<b><u>1500.00</u></b>	4000.00
Total Receipt	<b><u>4011.75</u></b>	<u>4927.95</u>
Disbursement to various Implementing Agencies :		
CMPDI Limited	<b>3124.22</b>	2401.50
Mineral Exploration Corporation Limited	<b>0.00</b>	14.70
	<b><u>3124.22</u></b>	<u>2416.20</u>
Closing Balance	<b><u>887.53</u></b>	<u>2511.75</u>

# CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

SCHEDULE TO BALANCE SHEET AS AT 31ST.MARCH , 2009 INTANGIBLE ASSETS(SOFTWARE)									SCHEDULE-O	
Amortisation period - 1year									RS.IN LAKH	
	COST				AMORTISATION				Net Block	
	OPG.BAL As AT 1.4.2008	ADDITION DURING THE YEAR	ADJUSTMENT FOR DISPOSAL/ DISCARDED OF INTANGIBLE ASSET	TOTAL COST AS AT 31.3.2009	OPG.BAL AS AT 1.4.2008	ADDITION FOR THE YEAR	ADJUSTMENT FOR DISPOSAL/ DISCARDED ETC.	TOTAL AMORTISATION UPTO 31.3.2009	AS AT 31.3.2009	AS AT 31.3.2008
CMPDIL SOFTWARE (A)	157.23	37.55	-13.52	181.26	128.00	57.78	-4.52	181.26	0.00	29.23
PRE SOFTWARE (B)	134.15			134.15	80.16	53.99		134.15	0.00	53.99
S&T/CCDA/CIL-R&D SOFTWARE( C )	0.00	27.12	16.15	43.27	0.00	28.71	14.56	43.27	0.00	0.00
<b>TOTAL-SOFTWARE (A+B+C)</b>	<b>291.38</b>	<b>64.67</b>	<b>2.63</b>	<b>358.68</b>	<b>208.16</b>	<b>140.48</b>	<b>10.04</b>	<b>358.68</b>	<b>0.00</b>	<b>83.22</b>

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2009**

**SCHEDULE -1**

**SALE OF SERVICE**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Exploration	<b>17386.27</b>	9888.20
Planning & Design	<b>14315.33</b>	8917.94
Natural Resource Management	<b>1280.03</b>	789.94
Total Sales	<b>32981.63</b>	19596.08

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2009**

**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 2009**

**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>8.81</b>	11.72
on Bank Deposit	<b>9.00</b>	4.46
others	<b>13.78</b>	67.30
Rent received from outsiders	<b>7.04</b>	9.66
Tender fees	<b>7.27</b>	4.82
Liquidated Damage	<b>35.29</b>	23.12
Rent Vehicles	<b>0.41</b>	0.64
Excess Provision Written Back	<b>113.82</b>	171.21
Others	<b>87.54</b>	18.23
Sale of Scrap	<b>12.27</b>	0.00
Profit on sale of asset	<b>0.02</b>	0.46
Total	<b>295.25</b>	311.62

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2009**

**SCHEDULE -4**

**CONSUMPTION OF STORES**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
POL	<b>371.24</b>	331.70
Stores & spares	<b>708.60</b>	677.14
Other stores & consumable	<b>38.40</b>	40.79
Total	<b>1118.24</b>	1049.63

## SCHEDULE TO PROFIT &amp; LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2009

## SCHEDULE - 5

## EMPLOYEES REMUNERATION AND BENEFITS

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Salaries & Wages	14905.07	10005.17
Overtime	133.17	141.15
Incentives	375.99	363.06
Leave encashments	2468.83	839.17
Other allowances	415.59	383.17
Contribution to PF( Annex. 1)	1369.87	1029.89
Attendance Bonus	253.65	254.20
Exgratia		
a) Non - Executives	224.60	140.71
b) Executives	91.64	49.19
LTC/LLTC	412.79	320.02
Pension		
a) Ex NCDC Employees	0.00	0.00
b) Others	45.97	42.27
Gratuity	4880.59	1026.62
Workmen Compensation	1.24	0.00
D.L.I.	29.85	22.47
Life Cover Scheme	19.51	7.77
V R S	0.00	29.82
	-----	-----
Total	25628.36	14654.68
Less : Transferred to Social Overhead (Sch - 6 )	335.82	283.52
	-----	-----
Balance	25292.54	14371.16
	-----	-----

## SCHEDULE TO PROFIT &amp; LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2009

## SCHEDULE - 5

## CONTRIBUTION TO PROVIDENT FUNDS

## ANNEX URE - 1

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Coal Mines Provident Fund	1295.75	988.20
Coal Mines Family Pension Fund	74.12	41.30
Other Provident Funds	0.00	0.39
	-----	-----
Total	1369.87	1029.89
	-----	-----

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2009**

**SCHEDULE - 6**

**SOCIAL OVERHEAD**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Salary Wages Allowances (From Schedule - 5)	335.82	283.52
Free issue of Coal to Employees	42.17	38.87
Medical Facilities		
Medical Reimbursement	279.95	272.97
Medicines & Hospital Expenses	139.54	107.85
Grant to :		
a) Schools	0.02	0.41
b) Sports & Recreations	14.87	13.28
Canteen upkeep	8.25	7.08
Power (from Schedule - 7)	162.55	149.87
Repairs & Maintenance (Transferred from Sch. 8)		
a) Township	284.25	126.07
b) Other Welfare Buildings	76.62	51.78
c) Others (Maintenance of School Bus/Ambulance)	21.47	24.85
Training Expenses		
a) Within Co.	32.58	16.47
b) Outside Co.	0.00	0.00
Depreciation on Social Overhead Assets (Ref : Sch-F/F1)	63.83	58.55
Family Planning Expenses	0.01	0.01
Uniforms / Sticking Charges	19.73	6.92
Reimbursement of Medical expenses to retired employees	3.01	
Other Benefits	100.34	87.11
	-----	-----
Sub Total	1585.01	1245.61
	-----	-----
Less ; Recoveries		
House Rent	7.43	7.47
Electricity	31.09	20.72
School bus Charges	1.31	1.36
	-----	-----
	39.83	29.55
	-----	-----
Balance :	1545.18	1216.06
	-----	-----

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2009**

**SCHEDULE - 7**

**POWER AND FUEL**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Purchased	353.47	343.85
	-----	-----
Sub Total	353.47	343.85
Less : Transferred to		
Social Overhead Sch-6	162.55	149.87
	-----	-----
Total	190.92	193.98
	-----	-----

## SCHEDULE TO PROFIT &amp; LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2009

## SCHEDULE - 8

## REPAIRS

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Office Building	236.88	262.31
Repair & Maintenance Township/Residential Building	284.25	177.85
Plant & Machinery	97.10	99.11
Office Equipment & Furniture	46.89	30.84
Vehicles ( Other than School Bus / Ambulance)	56.44	60.74
Repair & Maintenance School Bus/Ambulance	21.47	24.85
Others	3.92	2.43
Sub Total	746.95	658.13
Less : Transferred to Social Overhead Sch-6	382.34	202.70
Less : Transferred to Misc. Expenses Sch-10	35.14	42.55
Total	329.47	412.88

## SCHEDULE TO PROFIT &amp; LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2009

## SCHEDULE - 9

## CONTRACTUAL EXPENSES

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Contractual Works		
Drilling - MECL	847.84	37.06
Drilling - Others	769.99	97.97
Coal testing	163.08	147.09
Remote Sensing etc.	25.85	0.00
Total	1806.76	282.12

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2009**

**SCHEDULE -10**

**MISCELLANEOUS EXPENSES**

	<b>Current Year (Rs. in Lakh)</b>	<b>Previous Year (Rs. in Lakh)</b>
Traveling		
In country	<b>660.85</b>	454.89
Outside country	<b>130.32</b>	40.51
Printing & Stationery	<b>103.13</b>	81.38
Postage	<b>4.70</b>	4.13
Telephone	<b>43.35</b>	40.11
Advertisement & Publicity		
Advertisement for :		
i) Tender	<b>62.66</b>	44.02
ii) Publicity	<b>0.78</b>	1.16
Freight Charges	<b>2.60</b>	1.47
Subscriptions	<b>7.34</b>	5.17
Security Expenses	<b>271.03</b>	236.74
Hire Charges		
a) Computer	<b>4.32</b>	18.97
b) Others	<b>159.49</b>	141.55
Maintenance of Cars & Jeeps :		
i) Petrol & Diesels	<b>49.06</b>	50.21
ii) Repairs (From Schedule 8)	<b>35.14</b>	42.55
iv) Road Tax	<b>22.63</b>	17.51
v) Insurance	<b>9.57</b>	8.63
Legal Expenses	<b>13.61</b>	37.16
Bank Charges	<b>13.70</b>	17.89
Consultancy Charges (CIL subsidiaries & Other jobs)	<b>19.63</b>	24.23
Auditor's Remuneration		
As Auditor	<b>1.80</b>	1.80
Traveling & Out of Pocket Expenses	<b>2.22</b>	2.56
In other capacity - Tax Audit & others	<b>0.48</b>	0.48
Internal Audit Expenses	<b>10.00</b>	8.62
Rates & Taxes	<b>20.35</b>	30.20
Rent	<b>42.03</b>	33.39
Insurance	<b>1.26</b>	1.54
Lands/crops compensation	<b>0.02</b>	0.22
Others :		
Amortisation of Software Licensing fees	<b>63.53</b>	30.68
Conference & Seminar etc.	<b>28.03</b>	21.35
Tents & Hutments	<b>70.24</b>	46.33
Shifting & Settling Exp.	<b>27.73</b>	22.54
Entertainment	<b>0.10</b>	0.11
Horticulture	<b>6.87</b>	4.97
Bad Debt Written Off	<b>0.00</b>	0.00
Other Expenses	<b>26.51</b>	20.87
Exchange Fluctuation	<b>0.34</b>	0.00
Total	<b>1915.42</b>	1493.94



## SCHEDULE TO PROFIT &amp; LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2009

## SCHEDULE -11

## INTEREST

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Coal India Limited Holding Co.	20.54	20.37
Interest on Retirement Pension Fund	0.75	0.81
Interest others	27.65	0.39
Total	48.94	21.57

## SCHEDULE TO PROFIT &amp; LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2009

## SCHEDULE -12

## PROVISIONS / WRITE - OFF

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Provision :		
Doubtful debts	65.08	54.39
Doubtful Advances	0.00	0.00
Obsolescence	0.00	3.00
Reduction in value of assets	0.00	15.26
Total	65.08	72.65

## SCHEDULE-13

Schedule to Profit &amp; Loss Account for the year ended 31 st March 2009

## PRIOR PERIOD ADJUSTMENTS

	Current Year		Previous Year	
	(Rs in Lakh)		(Rs in Lakh)	
<b><u>DEBIT :</u></b>				
<u>Employees Remuneration &amp; Benefits :</u>				
Salary, Wages & Allowances	<u>0.00</u>	0.00	<u>28.49</u>	28.49
Consultancy Fees		15.71		0.00
Consumption of Stores		5.69		0.00
Sale of Service		<u>0.00</u>		<u>51.25</u>
<b>TOTAL DEBIT</b>		<b>21.40</b>		79.74
<b><u>CREDIT :</u></b>				
<u>Employees Remuneration &amp; Benefits :</u>				
a) Salary, Wages & Allowances	<u>0.00</u>		<u>0.00</u>	
b) Ex-gratia	<u>0.00</u>	0.00	<u>0.00</u>	0.00
Consumption of stores & Spares		0.00		23.02
<u>Interest :</u>				
Others		0.00		0.00
Sale of Services		<u>15.57</u>		<u>0.00</u>
<b>TOTAL CREDIT</b>		<b><u>15.57</u></b>		<b><u>23.02</u></b>
<b>NET CREDIT (-)/DEBIT (+)</b>		<b><u>5.83</u></b>		<b><u>56.72</u></b>

\*Refer Para 13.0 of Schedule 14.

**SCHEDULE – 14**  
**ACCOUNTING POLICY FOR 2008-09**

**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 2008-09**

**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. 404.35 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 decreased by Rs. 6.17 Lakhs from Rs 43.34 Lakhs to Rs 37.17 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 31/3/2009. The agreed Current Account balances with the CIL Subsidiaries as on 31/3/2009 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 31/3/2009 is considered under Subsidiary Suspense Account.

4.1.2 Sundry Debtors include Rs.20425.22 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.. Balance upto 01/04/1993 amounting to Rs. 69.11 lakhs in total is under reconciliation.Acceptances of bills are regularly monitored. No provision is considered necessary for outstanding bills of companies under the same management .

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 31/03/2009 has not been obtained.

### **4.2. Others**

Income tax advance of Rs. 3740.34 lakhs includes TDS of Rs.3499.58 lakhs and payments under protest against assessments for the years upto Assessment Year 2006-07. Income tax provision of Rs 3691.11 includes provision relating to assessment for the years upto Assessment Year 2009-10. Fringe Benefit Tax provision of Rs.263.71 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 as well as of CIL Loan Account is done regularly, but it is not known if all the items appearing in Reconciliation Statement are accounted for by CIL within the year. Loan Account and Current Account balances as on 31.03.2009 have been reconciled.

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

- 5.2.1 Current Liabilities include Rs. 30.26 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, 2009 but remitted in April, 2009.
- 5.2.2 There is also a liability for Rs. 22.46 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 64.98 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. 2372.18 lakhs made in respect of arrear salary payable to non-executives on account of wages / pay revision w.e.f 01.07.2006 under NCWA VIII and Rs. 3344.02 Lakhs in respect of pay revision of executives payable w.e.f 01.01.2007 are included in employees remuneration and benefits under current liabilities and provisions. Yearwise breakup is given hereunder.

Year	Executive	Non-Executive
2006-07	251.96	566.56
2007-08	1108.60	820.80
2008-09	1983.46	984.82

- 5.3.3 Gratuity for the year has been considered as incremental liability as per the recommendation of the actuary plus gratuity actually accruing in the year including liability accruing due to pay revision amounting to Rs.550.73 lakh .

Incremental Actuarial liability on account of Gratuity & Leave Encashment because of pay revision over and above the actuarial liability calculated on the basis of pre-revised salary is Rs 4133.52 lakh and Rs 702.98 lakh respectively.

- 5.3.4 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 4.23 lakhs (Previous Year 5.12 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

	<u>Current Year</u> <u>2008-2009</u>	<u>Previous Year</u> <u>2007-2008</u>
(i) Salary & Allowances including LTC/Leave Encashment	42.37	27.95
(ii) Provident Fund	4.06	2.83
(iii) Medical Expenses	0.86	2.18
(iv) Value of Perquisites	0.00	0.00
(v) Gratuity Paid	0.00	10.50

## 8.0 EARNINGS, EXPENDITURE ETC. IN FOREIGN CURRENCY

### 8.1 Expenditure in Foreign Currency

Rs in lakh

	<u>Current Year</u> <u>2008-2009</u>	<u>Previous Year</u> <u>2007-2008</u>
(i) Foreign training /tour, books & others	53.64	11.16
(ii) Consultancy fee	0.00	0.00
	-----	-----
TOTAL	53.64	11.16
	-----	-----

### 8.2 Value of Imports Calculated on CIF Basis.

Rs in lakh

	<u>Current Year</u> <u>2008-2009</u>	<u>Previous Year</u> <u>2007-2008</u>
(i) Capital Goods	87.43	141.71
(ii) Spares & Components	<u>0.00</u>	<u>0.00</u>
TOTAL	<u>87.43</u>	<u>141.71</u>

### 8.3 Earnings in Foreign Exchange.

Rs. in Lakh

	<u>Current Year</u> <u>2008-09</u>	<u>Previous year</u> <u>2007-08</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>2008-09</u>		Previous year <u>2007-08</u>	
	Value	Percentage	Value	Per centage
Imported	0.00	0.00	0.00	0.00
Indigenous	1118.24	100.00	1049.63	100.00
Total	1118.24	100.00	1049.63	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 31/03/2009 is Rs. 28.32 lakhs. (Previous year Rs. 25.62 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 289.72 Lakhs (Previous Year Rs .1402.97 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.908.87 lakhs (Previous Year Rs. 958.59 lakhs).

10.2 LC opened pending maturity during the year Rs 49.99 lakhs ( Previous year Rs nil lakhs).

10.3.1. Estimated value of contracts remaining to be executed on capital account and not provided for amounts to Rs. 271.26 lakhs (previous year Rs 392.84 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.2.42 Lakhs (Previous Year Rs. nil 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.22.46 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 31.03.2009 has been computed at Rs. 4980.59 Lakhs and Rs. 623.16 lakhs respectively. Net Deferred tax as at 31/03/2009 comprises of the following :

	2008 – 09 -----	(Rs in lakhs) 2007 - 08 -----
<b>A. Deferred tax Asset</b>		
VRS	12.53	25.73
Software	11.10	0.00
Provision for obsolescence / Non - moving	29.40	31.50
Provision for doubtful debts	128.15	106.39
Provision for Leave Encashment Gatuity, VRS	<u>4799.41</u>	<u>2506.39</u>
<b>Total (A)</b>	<b>4980.59</b>	2670.01
<b>B Deferred Tax Liability</b>		
Difference in WDV of assets	623.16	611.01
Difference in WDV of the Software	<u>0.00</u>	<u>9.94</u>
<b>Total (B)</b>	<b>623.16</b>	620.95
<b>C Deferred Tax Asset ( Net )</b>	<b>4357.43</b>	2049.06

## 12. 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 IMPACT ON PROFIT DUE TO CHANGES IN BASIS OF ACCOUNTING

<i>Rs. In Lakhs</i>		
Particulars	Amount involved	Impact on Profits
Software has been amortised in the year of purchase against the earlier practise of amortisation over a period of 3 years.	25.28	(-)3.68

### 15.0 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.

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

Sd/-  
(Udayan Chakrabarti)  
Company Secretary

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

sd/-  
( A. K. Debnath )  
Director

sd/-  
( A. K. Singh )  
Chairman-Cum-  
Managing Director

In terms of our report of even date attached.  
**FOR J. N. AGRAWAL & CO.**  
(CHARTERED ACCOUNTANTS)

Sd/-  
(CA. Sumit Agrawal)  
Partner

Place : Ranchi  
Date : 03.06.2009

**Segment-wise Profit Annexed to Profit & Loss Account**  
**for the Year ended 31st March 2009**

RS. IN LAKH

Sl.No.	Particulars	P& D	EXPLORATION	ENVIRONMENT	COMMON	TOTAL
	<u>Segment- wise Income :-</u>					
1	Segment- wise sale of seivces	14315.33	17386.27	1280.03		32981.63
						0.00
2	Segment- wise Misc. Income	198.00	95.96	1.30		295.26
						0.00
3	Segmentwise total Income ( 1 + 2 )	14513.33	17482.23	1281.33	0.00	33276.89
	<u>Segment- wise Expenditures :-</u>					
4	Salaries & Wages	8985.16	9751.83	946.10	5608.88	25291.97
5	Other Expenses	1506.06	4044.82	212.26	1286.97	7050.11
6	Total Expenditure ( incl Dep. but excl. Interest , PP adj. and Provisions ) ( 4+5)	10491.22	13796.65	1158.36	6895.85	32342.08
						0.00
7	Share of Common cost	3035.68	3516.31	343.86	-6895.85	0.00
						0.00
8	Total Expenses with share of Common Cost ( 6 + 7 )	13526.90	17312.96	1502.22	0.00	32342.08
						0.00
9	Segment-wise Profit (+) / Loss ( - ) before Interest , PP Adj.& Tax ( 3 - 8 )	986.43	169.27	-220.89	0.00	934.81
						0.00
						0.00
10	Interest	38.71	9.61	0.62	0.00	48.94
						0.00
11	PP Adjustments Credit (-)/ Debit (+)	157.08	5.69	-15.57	0.00	147.20
						0.00
12	Segment-wise Profit (+) / Loss ( - ) before Tax & Provisions ( 9-10-11 )	790.64	153.97	-205.94	0.00	738.67
13	Provisions					65.08
	Bad Debts					0.00
14	Net Profit ( +) / Loss ( - ) Before Tax (12-13)					673.59
15	Provision For Taxation- Current Year					2501.00
	Provision For Taxation-Previous Year					-110.10
16	Provision For Taxation - Frindge Benefit					107.35
17	Provision For Deferred Tax					-2308.37
18	Net Profit after Tax ( +) / Loss ( - ) ( 14 -15 -16 -17)					483.71

CENTRAL MINE PLANNING AND DESIGN INSTITUTE		
CASH FLOW STATEMENT FOR THE YEAR ENDING 31ST MARCH 2009		
Amount in Rs. Lakh		
PARTICULARS	2008-09	2007-08
<b>CASH FLOW FROM OPERATING ACTIVITIES</b>		
Net Profit before taxation and extraordinary Items	679.42	556.69
PP Adj ( Dr)	- 5.83	56.72
PP Adj (CR)	+ 0.00	0.00
Prov Acturial (adj from reserve)	-	169.43
Wealth Tax Prov	+ 0.00	0.00
Increase in Misc Exp not Written off	- 0.00	0.00
Decrease in Misc Exp not Written off	+ 0.00	0.00
<b>Adjusted Net Profit</b>	<b>673.59</b>	<b>330.54</b>
Adjustments for :-		
Depreciation	+ 592.01	530.45
Profit on Sale of Assets	- 0.02	0.46
Loss on Sale of Assets	+ 0.00	0.00
Amortisation of Intangible Assets	+ 150.52	74.77
Foreign Exchange Fluction Gain	- 0.00	0.00
Foreign Exchange Fluction Loss	+ 0.34	0.00
Interest Income	- 31.59	83.48
Interest Expenses	+ 48.94	21.57
Operating Profit before Working Capital Changes	<b>1433.79</b>	<b>873.39</b>
Increase in Sundry Debtors	- 4905.22	7609.41
Decrease in Sundry Debtors	+ 0.00	0.00
Increase in Loans & Advances	- 0.00	0.00
( Excl Income Tax & Wealth Tax)		
Decrease in Loans & Advances	+ 764.97	2112.46
( Excl Income Tax & Wealth Tax)		
Increase in Other Current Assets	- 386.28	57.07
Decrease in Other Current Assets	+ 0.00	0.00
Increase In Inventories	- 0.00	3.16
Decrease In Inventories	+ 70.90	0.00
Increase in Sundry Creditors	+ 3561.54	10899.44
(Current Liab & Prov excl. Income Tax & Wealth Tax)		
Dcrease in Sundry Creditors	- 0.00	0.00
(Current Liab & Prov excl. Income Tax & Wealth Tax)		
Cash Generated From Operation	<b>539.70</b>	<b>6215.65</b>

## CASH FLOW STATEMENT FOR THE YEAR ENDING 31ST MARCH 2009 (continued....)

		Amount in Rs. Lakh	
		2008-09	2007-08
Cash Generated From Operation		<b>539.70</b>	<b>6215.65</b>
Income Tax Paid	-	1045.08	1477.96
Wealth Tax Paid	-	0.10	0.00
Cash Flow before Extraordinary Items		<b>-505.48</b>	<b>4737.69</b>
Proceeds from Earthquake disaster settlement			
<b>Net cash from Operating Activities</b>		<b>-505.48</b>	<b>4737.69</b>
<b>CASH FLOW FROM INVESTING ACTIVITIES</b>			
Purchase of Fixed Assets ( incl.WIP)	-	1193.49	808.57
Proceeds from Sale of Equipment	+	0.02	0.60
Interest Received	+	31.59	83.48
<b>Net cash from Investing Activities</b>		<b>-1161.88</b>	<b>-724.49</b>
<b>CASH FLOW FROM FINANCING ACTIVITIES</b>			
Proceeds from Long-term borrowings	+	0.17	2.57
Dedcrease in Long-term borrowings	-	0.00	0.00
Govt Grants	+	-121.90	-28.38
Foreign Exchange Fluction Gain	+	0.00	0.00
Foreign Exchange Fluctuation Loss	-	0.34	0.00
Interest Paid	-	48.94	21.57
Dividend Paid	-		
<b>Net cash from Financing Activities</b>		<b>-171.01</b>	<b>-47.38</b>
<b>NET INCREASE / DECREASE IN CASH &amp; CASH EQUIVALENTS</b>		<b>-1838.37</b>	<b>3965.82</b>
<b>ADD : CASH &amp; CASH EQUIVALENTS AT THE BEGINING OF THE PERIOD</b>		6552.56	2586.74
<b>CASH &amp; CASH EQUIVALENTS AT THE END OF THE PERIOD</b>		<b>4714.19</b>	<b>6552.56</b>



**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
---	---

  
Date

0	3
---	---

  
Month

2	0	0	9
---	---	---	---

  
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

	6	9	3	0	5
--	---	---	---	---	---

Total Assets

	6	9	3	0	0	5
--	---	---	---	---	---	---

Sources of Funds : Paid-up Capital

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

Reserve & Surplus

	4	8	4	4	9	4
--	---	---	---	---	---	---

Secured Loans

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

Unsecured Loans

		1	8	1	1	1
--	--	---	---	---	---	---

Application of Funds: Net Fixed Assets

	6	7	2	1	1	5
--	---	---	---	---	---	---

Investments

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

Net Current Assets

(-)	4	1	4	8	5	3
-----	---	---	---	---	---	---

Misc. Expenditure

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

Accumulated losses

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

Deferred Tax

	4	3	5	7	4	3
--	---	---	---	---	---	---

Intangible Assets

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

Turnover

3	2	9	8	1	6	3
---	---	---	---	---	---	---

+ / - Profit/Loss before Tax

+			6	7	3	5	9
---	--	--	---	---	---	---	---

Total Expenditure

3	2	3	0	8	0	4
---	---	---	---	---	---	---

+ / - Profit/Loss after Tax

	4	8	3	7	1
--	---	---	---	---	---

( + for Profit , - for Loss )

Earning per share in Rs.

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

Dividend

N	A
---	---

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

[illegible]

Item Code No.													
(ITC Code)	N	O	T		A	V	A	I	L	A	B	L	E

Product	N	A	T	U	R	A	L		R	E	S	O	U	R	C	E
Description	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		

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

**sd\-**  
**A. K. Singh**  
**Chairman - cum -**  
**Managing Director**

ANNEXURE FORMING PART OF DIRECTORS' REPORT FOR THE YEAR ENDED 31.03.2009 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 -----