

ANNUAL REPORT & ACCOUNTS

2007-2008



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 2007-2008

FULL - TIME

1. Shri A. K. Singh : CMD (From 01.01.2008)
2. Shri S. Chaudhuri : CMD (Upto 31.12.2007)
3. Shri P. K. Kanchan : Director (Upto 31.07.2007)
4. Shri S. R. Ghosh : Director (Upto 31.08.2007)
5. Shri N. Khurana : Director (From 22.06.2007)
6. Shri A. K. Debnath : Director (From 01.08.2007)
7. Shri S. K. Mitra : Director (From 01.09.2007)
8. Shri A. N. Sahay : Director (From 01.11.2007)

PART - TIME

9. Dr. S. P. Seth : Director
10. Prof. A. K. Ghose : Director
11. Shri N. C. Jha : Director
12. Shri Sanjiv Mittal : Director (Upto 10.09.2007)
13. Dr. A. K. Kundra : Director (From 24.08.2007)
14. Prof. V. R. Sastry : Director (From 24.08.2007)
15. Dr. S. Bhandari : Director (From 24.08.2007)
16. Shri S. K. Ghodke : Director (Upto 17.07.2008)

COMPANY SECRETARY : Shri Udayan Chakrabarti

BANKERS : State Bank of India,
United Bank of India,
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 24.07.2008

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
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

PERMANENT INVITEE

Shri S.K. Ghodke

NOTICE FOR 33rd ANNUAL GENERAL MEETING

Ref. no. CS/AGM-33/2008/7041

Dated: 22.07.2008.

Notice is hereby given to all the shareholders of Central Mine Planning & Design Institute Limited that the 33rd Annual General Meeting of the Company will be held on Thursday, the 24th July, 2008 at 10.30 A.M. at the Registered Office of the Company, Gondwana Place, Kanke Road, Ranchi to transact the following business:-

1. Adoption of the Annual Accounts:

To receive and adopt the Balance Sheet as on 31st March 2008, 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 2007-08.

3. To amend the existing Articles 37(b), 37(b)(i), 48(7) 48(18)(ii) of the Articles of Association as follows :

Sl. No.	Article No.	Existing provision	Amendment proposed
1.	37(b)	Without prejudice to the generality of the above provision the Board shall reserve for the decision of the CIL any matter relating to :	Without prejudice to the generality of the above provision the Board shall reserve for the decision of the President/CIL any matter relating to :
2.	37(b) (i)	Any programme of capital expenditure for an amount exceeding Rs. 5 crores in cases which do not form part of sanctioned estimate, provided that within any financial year the fund required will be found within the budget allocation for the project and provided also that the expenditure on such project in subsequent years would be the first call on the respective budget allocation; provided further that in cases where the detailed Project Reports have been prepared with estimates of different component parts of the projects and where such Reports have approved by the President or CIL, it shall not be necessary for the Board to obtain the President's or CIL's sanction to the incurrence of capital expenditure and the Board of Directors shall have the power to sanction the same, subject to the provision in the sanctioned estimates for each component part and the limit of Rs. 5 crores	Any programme of capital expenditure for an amount exceeding the limit contained in guidelines issued by the Govt. from time to time.

		shall not apply; provided further that in cases of variation in approved estimates which are not more than 10% or such higher percentage as may be fixed by CIL from time to time for any particular part the Board of Directors shall be competent to proceed with the work without further reference to the CIL provided there is no substantial variation in the scope of the project.			
3.	48(7)	To invest in the Reserve Bank of India or in such securities as may be approved by the President and deal with any or the moneys of the Company upon such investments authorised by the Memorandum of Association of the Company (not being shares in the Company) and in such manner as they think fit, and, from time to time, to vary and realize such investments.	To invest money	To invest or otherwise employ moneys belonging to or with the Company in the purchase or acquisition of any shares, securities or other investments whatsoever, whether movable or immovable upon such terms as may be thought proper and from time to time to vary all or any such investments in such manner as the Company may think fit.	To invest money
4.	48 (18)(ii)	<p>To authorise the undertaking of works of a capital nature, not covered by Clause (i) above, if required to be taken up in advance of the preparation of a Detailed project Report or otherwise as individual works, whether as part of existing or new schemes, not exceeding Rs. 5 crores provided that :</p> <p>(a) the funds required will be found within the budget allocation for the Company for that financial year; and</p> <p>(b) the expenditure on such works in subsequent years will be first call on the respective allocations.</p>		<p>To authorise the undertaking of works of a capital nature, not covered by Clause(i) above, if required to be taken up in advance of the preparation of a Detailed project Report or otherwise as individual works, whether as part of existing or new schemes, not exceeding the limit contained in the guidelines issued by the Govt. from time to time provided that :</p> <p>(a) the project should be included in the approved Five Year and Annual Plans and outlay provided for;</p> <p>(b) the expenditure on such works in subsequent years will be the first call on the respective allocations; and</p> <p>(c) the required funds can be found from the internal resources of the company and the expenditure is incurred on schemes included in the capital budget approved by the Government.</p> <p>(d) the enchanted delegation will be applicable in respect of projects for which no budgetary supports is envisaged i.e. projects funded 100% from IEBR. The term IEBR (Internal and Extra Budgetary Resources) for this purpose would include extra budgetary resources such as bonds, ECB and other similar mobilization made on their own internal strength by the PSUs but excluding Govt. guaranteed borrowings.</p>	

4. Appointment of Part-time Directors

The shareholders may pass the following resolutions with or without modification

- (i) To appoint a Director in place of Dr. S. P. Seth 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 33rd Annual Report on the working of your Company along with the Accounts for the year ended 31st March, 2008 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 SCCL, TATA STEEL, NTPC, SAIL-IISCO, CPCB, DSCL,ISM, Neyveli Lignite 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. 285.11 Lakhs (after deferred tax). The working results of the company are given below:

		(Rs. In lakhs)
Sales		19596.08
Less: Total Net Expenditure		18708.15
Gross Profit		887.93
Less:		
Depreciation	237.02	
Interest	21.57	
Provision	<u>72.65</u>	
Profit (+) / Loss (-) for the year (Before P.P. Adjustment & Tax)		331.24
Less: Prior Period Adjustment		56.72
Profit before Taxation		499.97
Provision for Income Tax:		
For current year	643.75	
For Fringe Benefit Tax	85.36	
For Deferred Tax	(-) 482.93	
For earlier years	(-) <u>31.32</u>	
Net Profit after Tax		214.86
		285.11

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 CMPDI:

The Mission of CMPDI 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 CMPDI:

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

1.3.3 Set Corporate Objectives to realize above:

Major objectives of CMPDI 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-à-vis role of CMPDIL

Indian economy registered Gross Domestic Product (GDP) growth of 9 % in the year 2007-08 (as per central Statistical Organisation) and the projected growth in GDP for 2008-09 is about 8 %. This will directly relate to the demand for power, which is likely to rise to around 7 lakh MW by the end of XIV Plan from the present level of installed power generation capacity of 1.4 lakh MW. The majority of increase in power generation will be through coal fired thermal power stations. This will require rapid development of coal sector. Coal production during 2007-08 was 456.4 Mt. of which a major share of 83% (379.5 Mt.) was produced by Coal India Limited (CIL). Other significant coal producers were Singareni Collieries Company Limited (SCCL), TATA STEEL, Jindal Steel & Power Limited, Bengal EMTA, PANEM, ICML, HIL, SAIL, Monnet Ispat Limited, etc. Coal production in the country is expected to cross 1000 Mt by the terminal year of XII plan. CIL is expected to grow yearly at a much faster rate than its earlier growth rate of 5-5.5 % yearly.

CMPDI, being in-house consultant of CIL as well as market leader in India in the area of coal sector has the onus to provide exploration, planning & design support to this sector. Enlargement of coal resource base & faster proving of coal resources are required for meeting the rapidly increasing energy requirement of the country. Accordingly, exploration of coal needs to be intensified to improve the availability of coal resources for conventional

mining besides adapting alternative source of non renewable energy generation through Underground Coal Gasification and Coal Liquefaction.

CMPDIL is the nodal agency for detailed coal exploration in India except the areas of Singareni Coal Company Ltd. areas. The presently known coal resource base of the country is 264.53 Bt out of which 101.83 Bt (about 38%) has been explored in detail to put them in Proved Category. The remaining 62%, i.e. around 162.70 Bt are still in Indicated / Inferred Category and require detailed drilling to upgrade to Proved Category. About 24 Bt of regionally explored resources have been allotted for Captive Mining. Such captive operators are also likely to look towards CMPDI for exploration services. Developments are also taking place in emerging areas like Coalbed Methane (CBM), Underground Coal Gasification (UCG) & Information & Communication Technology (ICT) in coal sector. These emerging technologies will present additional opportunity areas for CMPDI in coming years.

1.3.5 Preparedness of CMPDIL

CMPDIL 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, eg, 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 23.44 lakh metres of drilling in 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 117 project reports resulting in capacity addition of about 280 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, eg, 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

- ✓ 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

1.3.6 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. 2.85 Crores (After deferred Tax). The summary of the working results for the last three years is as follows:

Eligibility Criteria		Status of CMPDIL		
		2005-06	2006-07	2007-08
1.	Profit before Taxes (Rs .in crore)	3.95	4.47	5.00
2.	Profit after Taxes (Rs .in crore)	1.42	2.59	2.85
3.	Net worth (Rs. in crore)	44.29	46.32	47.48
4.	Net profit to net worth (%)	8.92	9.65	10.53
5.	Profit before depreciation, interest and tax to capital employed (%)	8.03	8.45	8.81
6.	Profit before interest and tax to Turnover (%)	2.85	2.97	2.66

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 1st April 2007 onwards the Board of Directors is comprised of five whole time Directors including the Chairman-cum-Managing Director. During the year under review three non- official part-time directors were appointed on the board by the Govt. of India taking the total strength of the Board to twelve. The composition of Directors is as follows:

Whole-Time Directors

1. Shri A. K. Singh (From 01.01.2008)
2. Shri N. Khurana (From 22.06.2007)
3. Shri A. K. Debnath (From 01.08.2007)
4. Shri S. K. Mitra (From 01.09.2007)
5. Shri A. N. Sahay (From 01.11.2007)

Official Part-Time Directors

6. Dr. S. P. Seth (From 23.10.2006)
7. Shri N. C. Jha (From 02.03.2007)
8. Shri S. K. Ghodke (From 10.09.2007)

Non-Official Part-Time Directors

9. Prof. A. K. Ghose (From 27.12.1991)
10. Dr. A. K. Kundra (From 24.08.2007)
11. Prof. V. R. Sastry (From 24.08.2007)
12. Dr. S. Bhandari (From 24.08.2007)

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 was reconstituted as per the guidelines of Corporate Governance of the Govt. of India on 14.03.2008. It is headed by a non-official part-time Director (Independent Director) and has one more 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

CMPDI carried out highest drilling for its coal exploration activities in 2007-08. The thrust areas were detailed exploration of CIL and non-CIL blocks. Exploration in CIL blocks was taken up to cater the needs of project planning/production support of subsidiaries of CIL whereas exploration in Non-CIL/Captive Mining blocks was taken up to facilitate allotment of coal blocks to prospective entrepreneurs for captive mining. A nominal amount of Promotional (regional) exploration was also taken up to identify new coal resources. Ministry of Coal is providing fund for exploration in Non-CIL and Promotional blocks whereas subsidiaries of CIL meet expenses of exploration in CIL blocks.

1.1 Drilling Performance

1.1.1 CMPDI deployed its departmental resources for exploration of CIL/Non-CIL /Promotional blocks. Apart from it, services of Directorate of Geology & Mining of State Govts. of MP & Orissa were utilized for nominal amount of drilling in CIL area. The resources of MECL were utilized for minor amount of production support drilling in a WCL area.

1.1.2 In 2007-08, CMPDI and its contractual agencies took up exploratory drilling in 73 blocks /mines spread over 17 coalfields. These coalfields are Raniganj (5 blocks/mines), North Karanpura (3), South Karanpura (1), E.Bokaro (2), W.Bokaro (4), Ramgarh (1),Tawa Pathakhera (3), Pench Kanhan (7), Kamptee (2), Wardha (11), Sohagpur (14), Mand Raigarh (1), Korba (4), Bistrampur (2), Singrauli (4), Talcher (6) and Ib Valley (3). Out of 73 blocks/mines, 9 were Non-CIL/Captive blocks, 4 Promotional blocks and 60 CIL blocks/mines. Departmental drills of CMPDI took up exploration in 58 blocks /mines whereas drilling in 15 blocks/mines was undertaken by contractual agencies.

1.1.3 The overall performance of exploratory drilling by CMPDI and other agencies during 2007-2008 is given below:

Agency	Annual Target 2007-08 (metre)	Agency-wise Performance of Exploratory Drilling in 2007-08			Achieved Last Year: 2006-07 (m)
		Achieved (metre)	Achieved (%)	+/- (m)	
CMPDI	1,92,000	2,01,850	105%	+ 9850	1,98,496
MECL	Unscheduled	1,071	-	+ 1071	715
State Govts.	5,000	6,280	126%	+ 1280	6,535
Private Party* For NE region	3,000	-	-	- 3000	-
Total	2,00,000	2,09,201	105%	+ 9,201	2,05,746

* In addition, CMPDI had also programmed to outsource drilling in few Non-CIL/CIL Blocks which could not be started due to tendering processes.

The departmental drilling of 2,01,850m includes 1,53,707m in CIL blocks, 45,151m in Non-CIL/Captive Mining Blocks and 2,992m in Promotional blocks. The Directorate of Geology of St. Govts. and MECL have taken up drilling in CIL blocks only.

In 2007-08, CMPDI achieved its departmental and overall drilling targets by 105% in each case. The performance of departmental drilling was better than previous year by 3,354m with 1.7% growth. The average productivity of operational drills of CMPDI was 374m/drill/month for the year. Outsourcing of drilling through tendering could not start in 2007-08 as tenders were under process whereas DGM (Govt. of Chhattisgarh) did not take up the work.

1.1.4 Drilling in Non-CIL/Captive Mining Blocks:

CMPDI 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 2007-08, the departmental drills of CMPDI have carried out 45,151m of exploratory drilling under this Central Sector Scheme whereas Phase-I tenders for 1.25 lakh m of drilling in five blocks were floated. The tenders were under finalization during the year. For 45,151m of exploratory drilling, a total of 9 Non-CIL / Captive Mining Blocks were taken up in 7 coalfields. The block-wise achievement of drilling in 2007-08 is given below:

Agency/ Command Area	Coalfield	Block	Drilling in 2007-08 (m)
CMPDI:			
CCL	North Karanpura	Kerandari B & C	2995*
	South Karanpura	Tokisud-II	1687*
	West Bokaro	Duni	551
WCL	Kamptee	Bharatwada	5886
SECL	Sohagpur	Malachua	7586
		Dhanpura	177*
NCL	Singrauli Main	Chhatrasal	9396*
MCL	Talcher	Machhakuta	4482*
		Mahanadi	12391
Grand Total of Drilling in Non-CIL blocks:			45,151

* Drilling concluded.

Apart from above exploration work, CMPDI has provided preliminary geological information of existing Captive Mining Blocks to MoC to facilitate its allotment. CMPDI has also provided copies of existing GRs to prospective entrepreneurs of Captive Mining to enable them in selection of suitable blocks for their end use. After the process of allotment is over, original Geological Report is provided to allottee on payment of total cost of exploration.

Against a receipt of Rs. 211.70 crores towards the sale of Geological Reports Rs.90 crores was deposited with the Ministry of Coal, Govt. of India and Rs. 96 crores to subsidiaries of CIL.

1.1.5 Promotional Drilling by CMPDI:

The achievement of 2007-08 also includes Promotional (regional) drilling by 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 Deonad I & II block of North Karanpura Coalfield and Chimri block of Tawa Valley CF. Two new areas, South of Marwatola in Sohagpur coalfield and Area SW of Kachan River in Singrauli coalfield, were also taken up during the year.

In total, CMPDI has carried out 2992 meter of Promotional drilling in 2007-08 as detailed below:

Agency/ Company Command Area	Coalfield	Block	Drilling in 2007-08 (m)
CMPDI:			
CCL	N. Karanpura	Deonad I & II	1892
WCL	Tawa Valley	Chimri	514
SECL	Sohagpur	South of Marwatola	238
NCL	Singrauli	Area SW of Kachan River	348
Total Promotional Drilling by CMPDI:			2992

CMPDI has also carried out technical supervision of Promotional Exploration carried out by MECL in Coal Sector under the same scheme. A total of 11 blocks in CIL command area and 5 in SCCL command area were taken up for such purpose.

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 19 projects in ECL, BCCL, CCL, WCL, SECL and NCL areas were completed during 2007-08. Studies for number of other projects are under progress.
- 1.2.2 Special Hydro geological studies of 5 project & ground water conditions notes of 10 other areas were also completed in WCL whereas 7 other investigation completed in SECL/MCL area. CMPDI also took up Groundwater monitoring of 63 MOEF approved projects in WCL area.
- 1.2.3 Apart from it, the R&D work on preparation of hydro-geological and watershed model of West Bokaro Coalfield has been completed.
- 1.2.4 Hydro geological investigations of two TISCO blocks, Kotre-Basantpur and Pachmo in West Bokaro Coalfields, have been completed during the year. Modifications in Advance Dewatering Scheme of Matasukh Lignite mine of RSMML was also taken up and modified scheme submitted.

1.3 Geological Reports:

- 1.3.1 A total of 17 Geological Reports were prepared in 2007-08 on the basis of detailed exploration conducted in previous years. Out of it, 1 report was for a Non-CIL/Captive Mining block and rests were for CIL blocks.
- 1.3.2 A total of 3.19 Billion Tonnes of additional coal resources had been estimated from the 12 new GRs. The resources of other 5 reports were re-amalgamation/re-categorization of existing GRs for CIL projects. Out of above estimated resources, 2.51 Bt of resources were under Proved category and 0.68 Bt in Indicated category.

1.4 Geophysical Surveys:

- 1.4.1 **Geophysical Logging:** Boreholes drilled for exploratory drilling were Geophysically logged by three newly procured portable loggers and two existing geophysical logging instrument to get the insitu information of different strata encountered in the boreholes. During the year 2007-08, CMPDI studied 80 boreholes with multi-parametric geophysical logging. A total of 22,544 depth metre of geophysical logging had been carried out for this purpose in CIL, Non- CIL, UNDP CBM Project and CIL-ONGC JV CBM Project areas.
- 1.4.2 **Surface Geophysical Surveys:** CMPDI has also undertaken Electrical Resistivity and Magnetic surveys in CIL, Non-CIL and Promotional 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 109 line km. of Resistivity profiling, 136 no. of Vertical Electrical Soundings and 2530 no. stations of Magnetic Survey have been carried out in 2007-08 for such purpose. Procurement of two Digital Proton Precession Magnetometers has already been completed and procurement of a 48 channel Seismograph is under process to enhance the capability of CMPDI.

1.5 Geosystem:

- 1.5.1 A total of 14 Geological Reports were processed using in-house CEMPGEODOC software and imported MINEX software.
- 1.5.2 The Government funded project 'Integrated Coal Resources Information System' continued in 2007-08 also under the Promotional Exploration Scheme. The project is being implemented from nine data centers located at seven Regional Institutes of CMPDI

and one each at CMPDI (HQ) and SCCL, Kothagudem. Different types of Hardware and Software worth Rs.2.82 crore (0.50 cr in 07-08) were procured and installed at the data centers for carrying out the project activities. The procurement action for geological modeling software involving expenditure of about Rs.0.90 cr is under tendering process. Borehole data capture from Geological Reports of explored

coal blocks/mines, prepared by different agencies (GSI, IBM, NCDC, CIL, MECL, St.Govts. etc.) is almost complete. Basic data of all the 1606 GRs have been handed over to vendor (515 GRs in 07-08), who had completed the work of about 1000 GRs so far. Map data capture from colliery plans and the key maps from geological reports have also been taken up and 917 plans (out of total 5000) have been handed over to an outside party in 07-08 to carry out the vectorisation / digitization work. The integration of survey reference points to a single origin, updation of geological information about the coal block/ coalfield is being carried out from all data centers and 141 completed during 07-08. Processing of data of 44 blocks (6 in 07-08) for creation of geological model have also been completed. Preliminary work related to data base design and its integration with GIS applications and WEB enabled services is in initial stage.

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 by CMPDI funded Coalbed Methane Recovery & Commercial Utilization has been taken up by Govt. of India and United Nations Development Programme (UNDP)/ Global Environment Facility (GEF) at Moonidih and Sudamdih Mines of Bharat Coking Coal Ltd. in Jharia coalfield. The project document was prepared by expert engaged by UNDP. 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 dt.15th September 1999 with the 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. The CMPDI/BCCL are implementing agencies on behalf of GOI.

During the year 2007-08, following activities have been undertaken or are in progress:

- i) Time Extension:** Status of field activities was reviewed in the 9th National Steering Committee (NSC) meeting held on 29th November 2007, wherein it was agreed to extend the project up to December 2008 in its existing form, and thereafter it shall remain a Govt. of India S&T Project for completion of remaining objectives. Ministry of Finance, Department of Economics Affairs issued its 'no objection' to the extension of the project till December, 2008. In the 2nd Technical sub committee of SSRC, it was agreed to extend the project duration by two years i.e upto December 2009 as recommended by the NSC.
- ii) International CBM recovery Equipment procurement under UNIDO:** All the major equipment packages for surface drilling under procurement by UNIDO have arrived. The major equipment packages for underground drilling have been ordered. Horizontal Beam Based Long hole Drill has been delivered. Steering Tool for underground drill unit was ordered in July'07 by UNIDO and is under testing by the manufacturer before shipment to site.
- iii) Lab Equipment Procurement by CIMFR:** Three Laboratory equipments procured at the project cost have been installed and commissioned at CIMFR. These are Field Desorption Apparatus, Gas Chromatography System upgrade and the Mobile Field Desorption Laboratory on the chassis procured at project cost. Procurement of 4th Lab equipment i.e. Adsorption Isotherm Apparatus (New) is in the process of procurement by CIMFR.

iv) CBM Utilisation equipment: To demonstrate the utilisation through recovered CBM/CMM,

- a) 250kW x 4=1 MW, CBM gas-based Power Generating equipment at Moonidih mine, were ordered and have been delivered. Installation is being taken-up.
- b) Compressor and Fuelling Station Unit were ordered by CMPDI in July'07. Pre-dispatch inspection at supplier's end of Gas Compression and re-fuelling station was completed in Feb'08 and unit has arrived at site in March'08.
- c) Procurement of Conversion Kits for mine trucks/tippers is under tendering.

v) Site activities at Moonidih:

Two vertical CBM wells drilled down to depth of 1059m & 1071m and developed for production well with 5 1/2" casing. Hermetical test with 4500 psi has been completed for both drilled CBM wells in Oct'07. Geo-physical Logging & Perforation has been completed by service provider. Hydro-fracturing jobs in three potential coal zones in both the drilled wells have been completed. Cleaning of sand by circulation completed in CBM 10 well and in CBM 4, sand cleaning by BCCL work-over Rig is in progress.

PC Pump installation and commissioning was undertaken by supplier in Nov 2007 in the 2nd well. VFD was burnt in the process. After replacement of VFD, testing of PC pump commenced on 3rd March 2008. Civil work for 3rd CBM well site has been completed.

Gas Pipe Line laying to connect two vertical wells and gas collection centre has been completed at Moonidih. Foundation for Gas generator sets and Gas Gathering Centre completed. Installation of two nos of 250 Kw Gen-set based on CBM fuels from vertical wells will commence in May 2008.

Demonstration of power generation will be conducted on receipt of Moonidih Mine CBM Fuel Gas Control Unit (Package 6A-part) which has been ordered by UNIDO and is expected to be delivered in April'08 and commissioning of Gas Gensets will be done in May 2008.

vi) Field Activities at Sudamdih

For functionality test, one underground drainage hole of 86m at an angle of 35^o and second hole of 114m at an angle of 30^o from same point was drilled with Beam Based Long Hole Drill (Underground) in seam XV at Sudamdih Shaft mine. Both the drilled holes were plugged with safety valve which is judiciously opened every shift to drain out the gas from these holes by Sudamdih mine personnel. The drill unit has been re-arranged so that it can drill at an angle of 45^o and other tilted angles.

Underground drilling will commence after receipt of Steering tool (Package 4B). On receipt of Steering Tool and DGMS permission, Drilling Expert and DBT Engineers and IDS Engineer will be organizing training for project personnel to undertake underground drilling and training.

Gas pipeline laying on surface has been completed. After obtaining DGMS permission for use of Fusion machine underground, underground pipeline laying will be undertaken. HDPE pipes shifted in underground to connect underground well to Gas collection centre for demonstration of CBM gas as fuel in converted mine trucks. Pre-dispatch inspection of Gas Compression and re-fuelling station completed in Feb'08 and the unit has arrived at site in March 2008.

The required equipment Package 6A for CMM/CBM Fuel Gas Control Unit for Sudamdih to recover gas from underground & surface and CMM Fuel Gas Control Unit for Moonidih to recover gas from underground mine is being re-tendered by UNIDO.

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 Raniganj and Jharia coalfields for development of coalbed methane. In this project, CMPDI is the implementing agency on behalf of CIL.

1.6.2.1 Jharia CBM Block:

The Govt. of Jharkhand granted Petroleum Exploration License (PEL) to the consortium in August 2003 for Jharia CBM block.

The drilling of slimholes commenced on 30th December 2004 and all the 8 slimholes were completed in July 2006 involving 8703.65m of drilling. CBM related tests were carried out by CIMFR while other chemical and geo-engg tests were carried out at CMPDI lab. Petrophysical studies were carried out at the lab of IRS (ONGC), Ahmadabad.

A report based on slimhole drilling carried out by CMPDI and other drilling data of ONGC and CBM/other test results has been prepared and submitted to ONGC in Feb 2008.

ONGC took up exploratory and horizontal multilateral in-seam drilling in the block wherein CMPDI officials are also associated.

1.6.2.2. Raniganj CBM Block:

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

The drilling of slimholes commenced on 23rd March, 06 and all the 8 slimholes has been completed in Nov'07 involving 7853.50m of drilling. A total of 2479.00m has been drilled in the block during 2007-08. The samples generated in the slimholes have been sent to labs of CIMFR for generation of CBM specific data and CMPDI labs for chemical and Geo-engg data. Initial work has been taken up for preparation of report based on slimhole drilling & other available data.

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

1.6.3 CBM Related Studies under Promotional Exploration during XIth Plan.

A Project proposal for taking up 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 has been submitted. A total of 50 boreholes (30 by CMPDI and 20 by GSI) are proposed to be taken up for studies.

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

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 for 4th round of Global bidding. The total value of the work is Rs 3.91 crore.

Work for preparation of data dossiers has been taken up.

1.6.5 Project proposals for assessment of CMM potential

Project proposals for assessment of CMM Potential in Moher Sub Basin of NCL, Singrauli Coalfield and Korba Coalfield have been approved by NCL and SECL respectively. Action has been taken for generation of CBM specified data through slimhole drilling in both the coalfields.

1.6.6. Establishment of CBM/CMM Clearinghouse in India.

An MOU was signed between Ministry of coal, Govt. of India and United States Environmental Protection Agency (USEPA) on 16th November 2006 for establishment of CBM/CMM Clearinghouse in India. The clearinghouse is to be established at CMPDI, Ranchi, as per the decision of MoC.

Detailed discussions on modalities of functioning of the clearinghouse were taken up with USEPA team, which visited CMPDI, Ranchi from 22.01.08 to 24.01.08. Follow up actions are being taken.

1.6.7 Generation of UCG Specific Additional data for Kasta Block, Raniganj Coalfield has been initiated after receipt of approval from CIL.

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 had been prepared by CMPDI and submitted to ONGC. Soviet 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 Soviet consultant, generation of hydro-geological data has started in Kasta block in December 2007.
- Work has been taken up for generation of other additional data.

1.6.8 Identification of Coal/Lignite Blocks for UCG.

CMPDI 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.

- 5 nos. of lignite blocks have been identified for the development of UCG and communicated to MoC.
- Identification of other UCG blocks in coalfield areas is under progress.

2.0 PROJECT PLANNING & DESIGN

During the year 2007-2008, 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 above, the following jobs were also undertaken:

- Revision of project reports/ cost estimates
- Feasibility reports for coking/non-coking coal washeries
- Study on improvement/modernisation of existing BCCL 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, Powered Support Longwall faces and intermediate technology using SDLs and LHDs in CIL mines.
- Preparation of Global bid documents for introduction of Longwall and Continuous Miner technology in underground mines of CIL.

During the year 2007-2008, 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, Structural adequacy study of CHP, OBR Survey, Normative cost of sand stowing, etc.

During the year 2007-2008, a total of 264 reports have been prepared for CIL and its subsidiary companies.

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

REPORTS	Nos.
Geological Reports	17
Project Reports/ Revised Project Reports	30
Operational Plans	10
Other Studies	146
EMPs (including Form-I)	61
TOTAL	264

Detail of reports prepared during the period 2007-2008 is furnished in Annexure-I

LIST OF COMPLETED REPORTS DURING 2007-08

Regional Institute/HQ	Name of the Reports
Geological Reports	
RI-I	1. North Searsole 2. Badjna Chapapur Sect. 'C' 3. Andal Central
RI-II	1. Block III
RI-III	1. Hesalong 2. DRD Project
RI-IV	1. Makardhokra III OC 2. Yekona-I Extn. 3. Mugoli Extn. OC 4. Orient Colliery
RI-V	1. Rai East 2. Batura Extn. 3. Nawapara East
RI-VII	1. Ananta & Subhadra East 2. Siarmal & Siarmal Extn. 3. Machhakatta (Non-CIL) 4. Padma (Seam-I)
Project Reports	
HQ	1. Tirap OCP, NEC (0.60 MTY)
RI-I	1. Kunustoria (Dobrana) UG (0.54 MTY) 2. Narainkuri UG (0.54 MTY) 3. Sonapur Bazari Combined OC (8.0 MTY) 4. Belbaid (Dhasal) UG (0.48 MTY) 5. Mohanpur Expn. OC (1.0 MTY) 6. PR for Introduction of second Continuous Miner at Jhanjra UG (0.51 MTY)
RI-II	1. North Tisra & South Tisra OCP (Expansion) (6.0 MTY)
RI-III	1. Tapin OC (2.50 MTY) 2. Rohini Expn. OCP (2.0 MTY) 3. Parej East UG (0.51 MTY) 4. Ashok West OCP (10.0 MTY) 5. Urimari OCP (2 MTY) 6. Amlo OCP (2.50 MTY)
RI-IV	1. Chincholi OC (XI Plan) (0.30 MTY) 2. Sharda UG (XI Plan) (0.315 MTY) 3. Dhankasa Recast PR (1.0 MTY) 4. Bellora/Naigaon Deep OC (XI Plan) (1.0 MTY) 5. Ukni Extn. OC (XI Plan) (2.0 MTY) 6. Mugoli Extn. OC (XI Plan) (3.00 MTY)
RI-V	1. Chhal Expn. OC (3.0 MTY) (2.0 MTY Incr.) 2. Kanchan Expn. OC (0.65 MTY) (0.33 MTY Incr.) 3. Pelma OC (10 MTY) (XI PLAN) 4. Mahan-III OC (Jagannathpur) (3.0 MTY) (XI Plan) 5. Batura OC (2.0 MTY) (XI Plan)
RI-VI	1. Dudhichua Expn. (15 MTY) 2. Jayant Expn. (15 MTY)
RI-VII	1. Balram OCP Extn. (8 MTY) 2. Ananta OCP Expn. Phase-III (15 MTY) 3. PR for capacity augmentation of Lingraj CHP with silo loading arrangement
Operation Plans	
RI-I	1. Chitra OC

- RI-IV**
2. Kottadih
- RI-VI**
1. Umrer OC
 2. Ghugus OC
 1. Jayant (10 MTPA)
 2. Bina Expn. (6 MTPA)
 3. Amlohri (10 MTPA)
 4. Dudhichua (10 MTPA)
 5. Khadia (10 MTPA)
 6. Nigahi(15 MTPA)
- Other Reports**
- RI-I**
1. Blasting & Vibration Study for Nabakajora OC Patch
 2. Scheme for Outsourcing of HEMM in Sonapur Bazari -A (Hansdia) OC
 3. Conceptual Note on OC Patch working through outsourcing of Sangramgarh OC
 4. Conceptual Note on OC Patch working through outsourcing of Siduli OC Patch
 5. Energy Audit Scheme of Kottadih Mine
 6. Conceptual Note on OC Patch working through outsourcing of Methani OC Patch
 7. Blasting Study at Bahula Colliery
 8. Conceptual Report on OC Patch working through outsourcing of Hura 'C' OC Patch
 9. Blasting Study at Madhabpur OC Patch
 10. Conceptual Note for introduction of Highwall Miner at ECL
 11. Blasting Study at Chora (Siduli) OC Patch
 12. Report for Stabilisation of Unstable Site (Part of Kapila Road at Sripur Area)
 13. Report on Diversion of Raniganj Siuri Road
 14. Energy Audit Scheme of Amritnagar UG
 15. Energy Audit Scheme of JK Nagar UG
- RI-II**
1. Energy Conservation - Audit & Benchmarking for Muraidih OCP
 2. Scheme for dealing with XI seam fire at new Akashkinaree Colliery
 3. Energy Conservation - Audit & Benchmarking for North Tisra OCP
 4. Energy Conservation - Audit & Benchmarking for South Tisra OCP
 5. Report on application of Highwall mining in BCCL
 6. Revised scheme for dealing with fire at East Katras Colliery (Seam XI, XII & XIV)
 7. Scheme for construction of submersible causeway/road bridge over Damodar river at Singhdihi/Barkighat
- RI-III**
1. Energy conservation study of network of pumping in CCL
 2. Introduction of Highwall Miner in Karo OCP for 3rd & 4th seam
 3. Introduction of Highwall Miner in Tisri
 4. Introduction of Highwall Miner at Amlo OCP
 5. Hydrogeological Model and Watershed Model of West Bokaro Coalfield
 6. Mining plan of Khasmahal OCP
- RI-IV**
1. Mining plan for Damua & Ghorawari UG mines
 2. Gas survey for Tawa-II UG
 3. Scheme for road overbridge in Dipka area, SECL
 4. Energy Audit report (Diesel) with benchmarking of Kolarpimpri OC
 5. Global Bid (Commercial & Technical) for Murpar UG Expansion - LW Tech.
 6. Global Bid (Commercial & Technical) for Dhau North UG - CM Tech.
 7. Global Bid (Commercial & Technical) for Borda UG - CM Tech.
 8. Global Bid (Commercial & Technical) for Saoner Mine-I UG - CM Tech.
 9. Global Bid (Commercial & Technical) for Sarni UG - CM Tech.
 10. Global Bid (Commercial & Technical) for Dhankasa UG - CM Tech.
 11. Energy Audit report (Electrical) with benchmarking of Ghorawari UG
 12. Techno-Economical Study for 0.16 MTY Incremental Production from Chattarpur-I Expn. UG

13. Technical Report for Rawanwara East
 14. Scheme for Harradol UG Mine, Kanhan Area
 15. Feasibility Report for deployment of higher capacity Excavator
 16. Global Bid (Commercial & Technical) for Maori UG - CM Tech.
 17. Scheme for deepening of Bellora-Naigaon OC upto stripping ratio 1:7
 18. Controlled blasting studies at Kamptee OC
 19. Recast PR for Bhakra UG Mine
 20. Energy Audit report (Electrical) with benchmarking of Satpura-II UG
 21. Energy Audit report (Diesel) with benchmarking of Hindustan Lalpeth Colliery
 22. Recast PR for Dhankasa UG Mine (0.63 Mty)
- RI-V**
1. Scheme for production augmentation of Chirimiri OC (1 to 2 Mty)
 2. Report on study of vibration due to blasting at Manikpur OC
 3. Report on controlled blasting study of vibration due to blasting at Bishrampur OC
4. Report on controlled blasting study at Chhal OC
 5. Scientific study & analysis of fragmentation in blasting at Manikpur OC
 6. Report on assessment of normative powder factor in Kanchan, Navapara, Chhal OC & Birsinghpur UG
 7. Report on controlled blasting study at Surakachhar UG mine, Korba Area
 8. Report on assessment of powder factor in Kusmunda OCM
 9. Scheme for introduction of crushing arrangement at Chirimiri OCP, SECL
 10. Report on impact of ground vibration on structures of Chhota Bazaar due to blasting at Kurasia & Chirimiri OCM
- RI-VI**
1. Advance Action Plan for Dudhichua EPR (15 Mty)
 2. Advance Action Plan for Jayant EPR (15 Mty)
- RI-VII**
1. Scheme for mining patch lying in the western side of Basundhara (East) OCP
 2. Scheme for southern patch beyond the approved boundary of Belpahar OCP
 3. Mining Plan for Lakhanpur OCP Expansion (15 Mty)
 4. Mining Plan for Belpahar OCP Expansion (3.5 Mty)
 5. Mining Plan for Bharatpur OCP Expansion (20 Mty)
 6. Mining Plan for Garjanbahal OCP (10 Mty)
 7. Diversion of Basundhara river due to coal blockage
 8. Mining Plan for Kaniah OCP Expn. (10 Mty)
 9. Mining Plan for Talabira OCP (10 Mty)
- HQ**
1. Assessment of capacity in opencast mines of CIL - Projections as on 1.4.2007
 2. Controlled blasting & vibration study at Dhori OCP, CCL
 3. Scheme for introduction of man riding system at Behraband Colliery, SECL
 4. Estimation of normative cost of sand stowing for Salanpur Colliery, BCCL
 5. Gas survey for Swang 'C' seam, Govindpur Project
 6. Report on RMR and rock load of four mines of BCCL
 7. Ventilation system design of Durgapur Rayatwari Colliery, WCL
 8. Assessment of revised normative cost of sand stowing for Handidhua Colliery, MCL
 9. Reports on RMR and rock load of Ghusick (R) Colliery & Jambad Colliery, ECL
10. Reports on RMR and support layout of Orient Mine no.3 and Hirakhand Bundia Mine, MCL
 11. Controlled blasting & vibration study at KDH OCP
 12. Land use/cover mapping of Hurilong OCP, Hutar Coalfield, CCL based on remote sensing data
 13. Feasibility Report for Lekhapani OCP, NEC
 14. Estimation of normative cost of sand stowing for Satgram Project, ECL
 15. Ventilation system design of Pandavpara mine, SECL
 16. Reports on RMR and rock load of Murulidih 20/21 Pit Colliery, Angarpathra Colliery and Kankanee Colliery
 17. Study of existing washeries and suggestions for improvement/ modernisation of BCCL washeries
 18. Benchmarking of diesel consumption and fixation of diesel consumption norms in Durgapur OC mine of WCL

19. Benchmarking of electrical consumption and fixation of electrical consumption norms in Barka Sayal UG mine of CCL
20. Benchmarking of electrical consumption and fixation of electrical consumption norms in Ghughus OC mine of WCL
21. Subsidence prediction report for Moonidih mine, BCCL
22. Reports on RMR and rock load of Katras Choitudih Colliery, Alkusa Colliery, Tetulmari Colliery & Begunia Project of BCCL and Govindpur Project (UG) of CCL
23. Revised Mining Plans for renewal of mining lease of NEC mines (4 nos.)
24. Benchmarking of electrical consumption and fixation of electrical consumption norms in Amlohri OC mine of NCL
25. Benchmarking of diesel consumption and fixation of diesel consumption norms in Telwasa OC mine of WCL
26. Techno-feasibility report for assessment of requirement of auto samplers at various siding/loading points of WCL
27. Scheme for fire fighting & safety systems in CHP of Amlohri OC mine of NCL
28. Controlled blasting & vibration study at North Tisra/South Tisra OCP, BCCL
29. Capacity assessment and capacity utilisation of UG mines of CIL (2007-08)
30. Electrical energy audit report of NCL headquarter building
31. Benchmarking of diesel consumption and fixation of diesel consumption norms in KD Hesalong OC Mine of CCL
32. Benchmarking of electrical consumption and fixation of electrical consumption norms in Piparwar & KD Hesalong OC mine of CCL
33. Gas survey of Navapara Colliery, Bhatgaon Area, SECL
34. Performance analysis report of PSLW and SDL/LHD in SECL
35. Performance analysis report of PSLW and SDL/LHD in WCL
36. Estimation of normative cost of sand stowing in 5 new mines of ECL
37. Report on RMR and rock load of Urimari UG Project (Hathidari Seam, Sec-III) of CCL
38. Assessment of capacity & capacity utilisation for opencast mines of CIL during 2006-07
39. Analysis of performance of HEMM operating in opencast mines, 2006-07
40. Standard price list for mining equipment
41. Report on RMR and rock load of P.B. Project, Burragarh Colliery, Godhur Colliery & Damoda Colliery of BCCL
42. Illumination survey of Bina OC mine, NCL
43. Benchmarking of electrical consumption and fixation of electrical consumption norms in Jayant OC mine of NCL
44. Report on identification of open voids for land reclamation in Kuju and Hazaribagh areas of CCL
45. Controlled blasting & vibration study at Ara OCP, CCL
46. Specific consumption of Diesel/Electricity/Explosives in opencast mines of CIL
47. Report on cavability study of Deccan trap in Naheria block of WCL
48. Report on RMR and rock load of Pandaveshwar Colliery (II/III & VI seam), ECL
49. Identification of abandoned mine voids in CCL command area based on satellite data
50. Global NIT (Technical) for introduction of mass production technology and other activities for UG mines
51. Report on RMR and rock load of Talcher Colliery (Talcher Seam I Top), MCL
52. Report on RMR and rock load of Baseriya Colliery (VII Seam), Maheshpur Colliery (VIII A Seam) and Sudamdih Shaft Mine (Stone Drift), BCCL
53. Subsidence prediction report for Mahamaya UG mine, SECL
54. Report on introduction of SMS explosives at Basundhara OCP
55. Preparation of TEFR for installation of Deshaling plant at Nandan Washery, WCL
56. Structural adequacy study of Strata bunker at Moonidih

57. Scheme on Gigabit LAN for Sonapur Bazari, Kunustoria & Rajmahal Area of ECL
58. Benchmarking of electrical consumption and fixation of electrical consumption norms in Silewara mine of WCL
59. Scheme for fire fighting & safety systems in CHP of Khadia OC mine of NCL
60. Study for stability of headgear & winding engine of pit no.5 of Katras Choitudih Colliery, BCCL
61. Gas survey of Birsinghpur Colliery, SECL
62. Gas survey of 9 mines of BCCL
63. Land use/cover mapping of buffer zone of Jayant OCP, NCL
64. Benchmarking of diesel consumption and fixation of diesel consumption norms in Padampur opencast mine of WCL
65. Mining plan for Ledo OCP, NEC
66. Assessment of capacity in opencast mines of CIL - Projections as on 1.4.2008
67. Benchmarking of electrical consumption and fixation of electrical consumption norms in Kakri mine of NCL
68. Benchmarking of electrical consumption and fixation of electrical consumption norms in Nigahi mine of NCL
69. Scheme for ETP at Krishnashila Project, NCL
70. Landuse/cover mapping of Talcher & IB valley coalfield based on remote sensing data
71. Landuse/cover mapping of buffer zone of Ledo & Tikak OCP, NEC
72. Gas survey of Argada Colliery
73. Reports on RMR and rock load of Hariajam Colliery (SP Bottom Seam) & Shyampur 'B' Colliery (Gopinathpur Bottom Seam), ECL
74. Reports on RMR and support layout of Argada Colliery (J seam), CCL
75. Subsidence prediction study for Pandavpara and Jhilimili UG mines, SECL

Environment Management Plan (EMP)

- | | |
|---------------|---|
| HQ | <ol style="list-style-type: none"> 1. Ledo OC, NEC 2. Tikak Extn. OC, NEC 3. Bakulmuni UG 4. Amritdhara UG 5. Kunustoria (Dobrana) UG 6. Dhankasa UG |
| RI-I | <ol style="list-style-type: none"> 1. Sonapur Bazari OC Combined |
| RI-II | <ol style="list-style-type: none"> 1. Goluckdih (NC) OCP 2. Damuda (BJ Section) |
| RI-III | <ol style="list-style-type: none"> 1. Amlo OCP 2. Purnadih OCP 3. Tapin OCP 4. Rohini Expn. OCP 5. Urimari EPR OCP 6. Karma OCP 7. Khasmahal EPR OCP 8. Tarmi OCP |
| RI-V | <ol style="list-style-type: none"> 1. Baroud OC 2. Chhal Expn. OC 3. Gevra Expn. OC 4. Dipka Expn. OC |
| RI-VI | <ol style="list-style-type: none"> 1. Jayant Expn. OC (12.5 MTY) 2. Dudhichua Expn. OC (12.5 MTY) |
| RI-VII | <ol style="list-style-type: none"> 1. Basundhara OC (5 MTY) 2. Hirakhand Bundia Incline (0.95 MTY) 3. Bhubaneswari OC (20 MTY) 4. Orient Mine No.4 |

FORM-I
HQ

1. Dhori Washery, CCL
2. Dhankasa UG
3. Bakulmuni UG
4. Amritdhara UG
5. Kapildhara UG
6. Kartali East OC
7. Jayant Expn. OCP (15 MTY)
8. Dudhichua OCP (15 MTY)

RI-I

1. Kunustoria (Dobrana) UG (0.54 MTY)
2. Mohanpur Expn. OC (1.0 MTY)
3. Narainkuri UG
4. Chitra East OC (2.5 MTY)

RI-II

1. North Tisra & South Tisra OCP
2. West Mudidih/Keshalpur OC
3. Vishwakarma OCP

RI-III

1. Govindpur Phase-II OC
2. Churi-Benti UG

RI-IV

1. Gokul OC
2. Kolarpimpri Extn. OC
3. Durgapur Deep OC
4. Junad Deep OC
5. New Majri UG to OC
6. Maori UG (Scheme for CM Tech)
7. Sharda UG

RI-V

RI-VII

1. Gopalprasad Utkal-A OCP (15 MTY)
2. Hingir Ramur Colliery (0.21 MTY)
3. Orient Mine No.3 (0.69 MTY)
4. Orient Mine No.1&2 (0.87 MTY)
5. Belpahar OCP (6 MTY)
6. Basunshara OCP (8 MTY)
7. Samleswari OCP (11 MTY)
8. Hingula-II OC Expn. (15 MTY)

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 jobs have been completed during the year 2007-08

- i) TEFR for setting up of Dhori washery in coking coal sector and draft TEFR for setting up Ashok washery of CCL on BOM basis.
- ii) Draft Report on Enhancement of storage capacity of clean coal & washed coal (power) bunkers at sawang washery, CCL
- iii) Draft Report on Kedla washery modification
- iv) Preparation of FR for modification of Gidi Washery of CCL
- v) Study of existing washeries and suggestions of improvement / modernization of BCCL washeries and assistance to the expert committee of the CIL for report on capacity assessment Chakabura washery of ACBPL & Dipka washery of SCPL.
- vi) Development of data bank for CIL washeries for the year 2006-07
- vii) Preparation of Tender document of Model Bid Document for setting up of 2.5/5.0/ 10.0 Mty washeries on Built Operate & Maintain (BOM) basis.
- viii) Tender Specification Document for setting up of Dhori washery and draft Tender Specification Document on enhancement of storage capacity of clean coal & washed coal (power) bunkers at sawang washery of CCL on turn-key basis.
- ix) Capacity Assessment of Datari iron ore Beneficiation Plant of Orissa Mining Corporation.

2.2 ON GOING JOBS

A) REPORTS / STUDIES

- ✓ Report on Rajrappa washery modification, CCL
- ✓ TEFR for coal washery at Baroud and Kusmunda OCP, SECL
- ✓ Three nos. TEFRs of 5 Mty and 10 Mty coal washeries at Talcher and Ib vally coalfields of MCL.
- ✓ TEFR for 2.5 Mty Coal Washery at Chitra, ECL
- ✓ TEFR for 3.5 Mty coking coal washery at Parej OCP and 3.5 Mty & 2.5 Mty coal washeries at Karo & Konar of CCL.
- ✓ Report on identification of site for setting up of washeries within the command area of BCCL
- ✓ Development of data bank for CIL washeries for the year 2007-08 (continuing job, confirmation from coal India is awaited)

- ✓ Scheme for ETP at Krishnashila Project
- ✓ Scheme for unloading rake of 58 BOBR wagons of raw coal at Dugda washery, BCCL.
- ✓ Justified cost and Tender Evaluation of renovation of Komag jig of Nandan washery, WCL
- ✓ Finalisation of TEFR for setting up Ashok washery on BOM basis.
- ✓ Finalisation of Report on Enhancement of storage capacity of clean coal & washed coal (power) bunkers at sawang washery, CCL
- ✓ Finalisation of Study Report on efficacy of technological arrangement at Kedla washery (comments is awaited)

Finalisation of FR for modification of Gidi Washery, CCL (comments is awaited)

B. TENDER DOCUMENT

Customisation of Model Bid Document for Ashok washery and finalisation of TSD for enhancement of storage capacity of clean coal & washed coal (power) bunkers at sawang washery of CCL.

C. S & T PROJECTS

Development of user friendly models for design & operation of jig & HM cyclone for treatment of different coals and Preparation of TSD for installation of Vorsyl separator at BCCL washery is under progress (Input data is yet to be received from RRL, Bhopal)

3.0 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:

3.1 Civil Engineering Services

Following major services were carried out during the year under review:

- i) Structural design of two numbers of new CHPs for WCL at Chargaon and Bhanegaon Opencast Projects done.
- ii) Design of road culvert for haul road capable of carrying 240/260 tonne capacity dumper
- iii) Assessing workability soundness of 5 circuits of Lingaraj CHP vibration study after addressing necessary refurbishing based on visual inspection.
- iv) Structural design scrutiny of two major CHPs of 8.5 MTY capacity for Nigahi CHP, Phase-II is in progress. The CHPs consist of major structures like receiving pit with gyratory crusher, 3000 MT capacity loading silo for RLS system, 16000 MT capacity over ground storage bunker, single and double conveyor gantries and their associated supporting structures and different drive houses & transfer houses for the same conveyors. So far as much as 1000 drawings along with associated design calculations have been scrutinized and cleared. The job is on the verge of completion.

- v) Design of CGM complexes at Krishnalshila and Amlohri Projects for NCL and preparation of scheme for CGM Office and residential building for Raigarh Area, SECL.
- vi) Rejuvenation Plan of 2nd & 3rd floor for existing CIL Office at Kolkata and remodeling of DT's chamber at existing CIL office, Kolkata.
- vii) Conceptualisation assistance for Architectural Design Competition document of CIL's proposed corporate office complex and technical support services to Coal Videsh cell of CIL, Kolkata.
- viii) Layout plan & technical Advise for upgradation of Office and Campus RI-IV, RD's Chamber rejuvenation, Conversion of residential units used towards office space to regular office space by remodeling, Conversion of residential quarter into guest house and design concept for proposed Office Buildings at RI-VI & VII.
- ix) Turnkey tender document for the proposed road bridge over Dumpha Nallah of MCL, Amlohri and Khadia Main CHPs and Krishnashila and Block B Interim CHPS of NCL, Dipka Workshop SECL and Block B Workshop of NCL and Bina, Block B, Tapovan, Madhauri and Amlohri Sub-stations of NCL
- x) Enhancement of storage capacity of clean coal and washed coal power bunkers at Swang washery CCL.
- xi) Strengthening of existing conveyor gantries and its trestles at Swang Washery

3.2 Electrical and Mechanical Engineering Services

3.2.1 Energy Audit Management

CMPDI has been accredited as Energy Auditor by Bureau of Energy Efficiency (A statutory body under Ministry of Power, Government of India) and have presently 10 BEE certified Energy Auditors and 18 Energy Managers (including 10 Energy auditors).

Petroleum Conservation Research Association (PCRA) under Ministry of Petroleum & Natural Gas, Government of India has also empanelled CMPDI as Energy Auditor on PCRA'S Panel.

Reports on benchmarking of diesel consumption and fixation of equipment-wise diesel consumption norms for 2 Mines of CCL and 3 Mines of WCL were prepared.

Benchmarking of electrical energy consumption for 2 Mines of CCL, 2 Mines of WCL and 6 Mines of NCL were submitted. Also Electrical Energy Audit of NCL Head Quarter was prepared. Recommendations of Diesel Audit report at one Mine of CCL was implemented and benefit analysis was done.

3.2.2 Inspection Services

CMPDI continued Third party inspection services for Pre-despatch inspection of equipment and materials purchased by various subsidiaries of CIL. Total revenue earned from this services was 105.22 lakhs during last financial year.

3.2.3 NIT for workshop, CHP, power supply, distribution and control system

1. NIT for 5 CHPs of NCL.
2. NIT for 2 Workshops one each of SECL and NCL.
3. NIT for transmission and augmentation of 5 sub-stations of NCL.

3.2.4 Other Studies

1. Techno feasibility report for requirement of auto sampling system at different locations of WCL.
2. Scheme for Fire detection and protection system of 4 CHPs of NCL.
3. Illumination survey of 5 mines of NCL.
4. NDT of CHP structures/ Winders/HEMM components of 17 mines of CIL.

5. Assessment of existing Capacity of Ore Handling Plant and Recommendation for Optimal capacity after modification of Orissa Mining Corporation Limited.
6. Electrification of 2 CGM Offices of NCL.

4.0 RESEARCH & DEVELOPMENT PROJECTS

4.1 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 CMPDIL, SCCL and NLC, Director of concerned CSIR laboratories, representatives of Department of S&T, Planning Commission and educational institutions, amongst others. The main functions of SSRC are to plan, programme, budget and oversee the implementations of research projects and seek application of the findings of the R&D work done. For in-house R&D work of CIL, R&D Board headed by Chairman CIL is also functioning.

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 31.03.2008)	-	354
Total no. of S&T projects completed (till 31.03.2008)	-	267

4.1.1 Physical performance

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

Status of Coal S&T projects in the XI th Plan period:

i)	Projects on-going as on 1.4.2007	36
ii)	Projects sanctioned by GoI during 2007-08	09
iii)	Projects completed during 2007-08	10
iv)	Project terminated during 2007 -08	01
v)	Projects on-going as on 1.4.2008	34

* List of projects completed during 2007-08 is enclosed as Annexure – A.

ANNEXURE – A

Following Coal S&T Projects were completed during 2007- 08

Sl. No.	Name of the project	Agency	Financial Outlay (Rs.in lakh)
1.	Optimization of pillar parameters for development and final extraction of highly inclined seams at SCCL mines - MT/115	SCCL & NIRM	24.9 S&T Grant - 19.96 Cont. SCCL - 5.00
2.	Development of support guidelines for depillaring panels in Indian coal mines - MT/126	CMRI	21.78
3.	Effect of production blasts on ground water and geo technical properties on pit-wall and dump stability in open pit coal mines - MT/129	CMRI	36.24
4.	A study on effect of underground blasting on surface structures vis-a-vis standardisation of blast vibration damage threshold - MT/138	CMRI	30.388
5.	Model studies on the efficiency of gravity blind back filling method and evaluation of a pre-jamming indication parameters - MT/147	IIT Kharagpur	14.766
6.	Development of process / technique for potential utilisation of less matured non-coking coal for making hard coke by utilising stamp charging - CU/47	CFRI & CMPDI	98.88 For CFRI - 92.80 For CMPDI - 6.08
7.	Development of a process for the production of activated carbon from Neyveli Lignite - CU/49	NLC & RRL Trivandrum	98.60 For NLC - 22.70 For RRL (T) - 75.90
8.	Development of cost effective high performance highway using fly ash composite - EE/19	NLC & Anna Univ.	38.10 For NLC - 22.10 For Anna Univ. - 16.00
9.	Studies on the impact of atmospheric biotic/abiotic particulates on the environment of Jharia Coalfield and their abatement strategies - EE/29	CFRI	33.90
10.	Studies on the use of Bottom slag in crop production - EE/32	NLC & TNAU	92.3244 For NLC-31.35 For TNAU-51.9744 Cont NLC- 9.00

4.1.2 Financial status

Budget provisions vis-a-vis actual fund disbursement during the period are given below:

Rs in Crore			
2006-07		2007-08	
RE	Actual	RE	Actual
6.0	8.09	12.86	12.48

4.2 CIL R&D Projects

For in-house R&D work of CIL, R&D Board headed by Chairman, CIL is also functioning. CMPDI acts as the Nodal Agency for co-ordination of research activities funded by CIL R&D Board.

In order to enhance R&D base in command areas of CIL, the CIL Board in its meeting held on 24 March 2008 has delegated substantial powers to the Apex committee and also to CIL R&D Board. The Apex committee is now empowered to sanction individual research project having outlay up to Rs. 5.0 Cr and Rs. 25.0 Cr per annum considering all the projects together. CIL R&D Board which earlier had the power to sanction individual project up to 10.0 Cr can now sanction individual project up to 50.0 Crore. Altogether CIL R&D Board can now sanction research projects up to 500.0Cr in a year. So far, 34 projects have been taken up under the funds of CIL R&D Board out of which 22 projects have been completed.

4.2.1 The status of CIL R&D Board Projects during 2007-08 was as follows:

i) Projects on-going as on 1.4.2007	-	15
ii) Projects sanctioned during 2007-08	-	Nil
iii) Projects completed during 2007-08	-	03
iv) Projects on-going as on 1.4.2008	-	12

4.2.2 The disbursement of fund for R&D jobs during the year 2007-08 was Rs. 11.08 Crore.

5.0 LABORATORY SERVICES

5.1 Chemical Laboratory

- i) Characterisation of coal was carried out on bore hole cores from 13 blocks explored by CMPDI in different coal companies of CIL and 30 bore holes received from CBM Cell. A total of 6505.16 m of coal cores were processed and 15576 nos. of samples were analysed for quality evaluation and their downstream utilization.
- ii) Characterisation of coal for sponge iron from exploration blocks is being routinely taken up. Characterisation in respect of seven blocks has already been completed and for others, it is in progress.
- iii) Outside consultancy was provided to Gujarat Mineral Development Corporation, Vigilance & Security Dept of Tamil Nadu Newsprint and Papers Limited including analysis of foreign coals.
- iv) Characterisation of samples of CIL R&D funded project "Resource Assessment and Characterisation Study of Non-coking Coals for Sponge Iron Industry" is in progress.

5.2 COAL PETROGRAPHY LABORATORY

Following jobs were undertaken during the year 2007-08:

- i) During the year 2007-08, the laboratory has undertaken Petrographic study (vitrinite reflectance and maceral analysis), minerals in coal through XRD and shape size and distribution of minerals and cleat analysis through SEM on 550 coal samples against the target 500 samples from different blocks covering nineteen coalfields (including CIL/NON-CIL/Promotional/CBM/Xth Plan & ONGC JV blocks)

and outside agencies like M/s J.B. Boda Pvt. Ltd. Total value of the outside consultancy jobs is approx Rs.4.78 lakhs.

- 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 (ICCP).
- iii) CIL R&D funded project under implementation
- iv) CIL R&D funded project entitled "Resource assessment and characterization study of non-coking coals for Sponge Iron Industry" has commenced from the month February'05 and scheduled to be completed by September'08. The project will generate data on coal for applications in sponge iron. The progress work of the project is as per schedule.

5.3 Coal Preparation Laboratory

The following studies have been completed during the year under review:

- i) Washability studies of 5 nos. of coal samples of CCL, SECL and ECL to generate data for new washery as well as modification of existing washery.
- ii) Washability studies and characterization of 11 nos. of bore hole coal samples of CDRD 18,18A,22 and 26 of East Bokaro to incorporate in geological report.
- iii) Washability studies and characterization of 5 nos. of bore hole coal core samples of CMTM 194, 195 & 196 of Talcher coalfield, MCL to incorporate in geological report.
- iv) Washability studies and characterization of 4 nos. of borecore samples of Chhatrasal block, NCL to incorporate in geological report.

5.4 Coal bed Methane (CBM) Laboratory.

During the period the following activities have been carried out:

- i) Field desorption study of five boreholes (one from MCL, three from WCL and one from NLC has been carried out.
- ii) Gas composition analysis of desorbed gas by Gas Chromatograph from CBM boreholes has been completed.
- iii) Gas compositional analysis of 236 nos. of mine air samples/ survey samples from different collieries of CCL,BCCL and SECL has been carried out.

5.5 Mining Laboratory

Mining Laboratory caters for the jobs related with rock mechanics, strata control and subsidence. Following jobs were carried out during 2007-08 :

5.5.1 Rock Mechanics

- i) Tests were conducted on 1587.42m length of drill core samples for determination of physico-mechanical properties.
- ii) Tests were conducted on 56 nos. roof rock samples from various mines of CIL for determination of strength properties, slake durability index and density.
- iii) Tests were conducted on rock samples from Kelgaon OCP, WCL for determination of physico-mechanical properties required for slope stability.
- iv) Tests were conducted for determination of specific gravity of 7 coal seams of ECL mines.

5.5.2 Strata Control and Subsidence

- i) RMR studies for 35 mines/districts of CIL have been completed and reports submitted.
- ii) Subsidence prediction reports were prepared for 4 underground mines of CIL.
- iii) Note on hard roof management in Indian coal mines.
- iv) Assessment for the mineability of six coal blocks by UCG method.

6.0 ENVIRONMENTAL SERVICES

6.1 EIA / EMPs

During the year, CMPDI prepared Form-1 for 35 projects, formulated 28 nos. of Draft EMPs and 17 nos. of final EMPs for subsidiary companies of CIL.

6.2 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 2007-08, environmental monitoring work of 232 projects of CIL (ECL-14, CCL-60, WCL-80, SECL-45, NCL-9 and MCL-24) was carried out by CMPDI through six environmental laboratories located at Asansol, Jayant, Kusmunda, Hasdeo, Nagpur and Ranchi.

6.3 ETP for Krishnashila Project

An integrated effluent treatment plant (ETP) scheme for Krishnashila Opencast Project (4.00MTY) of NCL was planned and designed to treat the effluent from mine, coal handling plant, HEMM workshop and light vehicle workshop. The capacity of the ETP is to treat 450 m³/hour of the combined 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.

6.4 Study of Environmental Problems of Aravali Hills & Preparation of Action Plan for Restoration of Environmental Quality for Gurgaon District (Haryana) and Alwar, Udaipur & Chittorgarh Districts of Rajasthan

With a quest to solve the problems of environmental degradation and to promote sustainable development in the Aravali Hill range, Central Pollution Control Board (CPCB) assigned the work of study of environmental problems of Aravali Hills and to prepare the action plan for restoration of environmental quality for 4 districts viz. Gurgaon (Haryana), Alwar, Udaipur & Chittorgarh Districts of Rajasthan.

All the four Final Reports have been submitted. Two reports namely of Gurgaon and Alwar districts have been accepted and published by CPCB. These reports are priced at Rs. 800.00 and Rs. 900.00 respectively.

6.5 Rapid EIA for Krishnashila Coal Transportation System, Renusagar Power Division of M/s. HINDALCO

Rapid EIA for Krishnashila Coal Transportation System, Renusagar Power Division of M/s. HINDALCO has been prepared and submitted to the client.

6.6 EIA/EMP for Kotre-Basantpur & Pachmo Coal Block (5.0 MTY) of M/s. Tata Steel EIA/EMP for Kotre-Basantpur & Pachmo Coal Block (5.0 MTY) of M/s. Tata Steel has been prepared and submitted.

6.7 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 field work has been completed and Draft Report is at advanced stage.
- 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 in progress.

7.0 INFORMATION COMMUNICATION TECHNOLOGY

The following jobs were completed and on-going projects during the year under review:

- i) Spatial data preparation of North, Karanpura Coalfield
- ii) Executive Information System for Coal India Limited up to E-5.
- iii) Enhancement of subsidence prediction system.

7.1 On-going Projects:

- i) Upkeeping of Integrated Information System including Website for Central Coalfields Limited.
- ii) Website for Bharat Coking Coal Limited.
- iii) Spatial Special data preparation of CCL Land Information System projects.
- iv) Executive Information System for Coal India Limited.
- v) Wireless Networking of BCCL area offices

8.0 SPECIALISED SERVICES

8.1 Geomatics

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

8.1.1 Remote Sensing:

The Jobs completed during the year 2007-08 are as follows:

- i) Site selection for coal based Thermal Power Station (TPS) in Dumka District, Jharkhand based on remote sensing data for Lanco Infratect Ltd..
- ii) Identification of abandoned mines voids in West Bokaro coalfield based on satellite data for Central Coalfield(CCL).
- iii) Identification of potential sites for coal based Thermal Power Project in South Karanpura, Hasdeo-Arand, Talcher & Ib Valley coalfield based on remote sensing data for Central Electricity Authority (CEA).
- iv) Land use/cover mapping of Talcher & Ib Valley coalfield based on remote sensing data of the year 2007 for Mahanadi Coalfield (MCL).
- v) Digital processing for leasehold area of 10 coal mining projects viz. Expn. Of Ghugus OCP, Pauni-II OCP, Expn. of Pauni OCP, Expn. of HL OCP, Yekona-I & II OCP, HL UGP(I&III), Mahakali UGP, Chandra Rayatwari UGP, New Majri-III UGP, of Western coalfield (WCL) for land reclamation monitoring for compliance of the MOEF stipulation.

- vi) Digital processing for leasehold area of 10 coal mining projects viz. Jingurdah OCP, Bina OCP, Jayant OCP, Kakri OCP, Dudhichua OCP, Amlori OCP, Nigahi OCP, Khadia OCP, Krishnashila OCP, Block B OCP of Singrauli coalfield in Northern coalfield (NCL) for land reclamation monitoring for compliance of the MoEF stipulations.
- vii) Digital processing for leasehold area of Magadh, Amrapali, Konar & North Urimiri OCPs of Central coalfield (CCL) for compliance of the MoEF stipulations
- viii) Land use/cover mapping of buffer zone of Ledo OCP & Tikak OCP, North Eastern Coalfield (NEC) for preparation of environmental management plan (EMP).
- ix) Land use/cover mapping of buffer zone of Jyant OCP, NCL for preparation of environmental management plan (EMP).

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 as per schedule.

8.1.2 Survey and Drawing

The following major survey work were completed during the year 07-08:

- i) Periodic OBR check measurement was carried out for 41 OC mines (2 in ECL, 4 in BCCL, 1 in CCL, 5 in WCL, 9 in SECL, 8 in NCL, 2 in NEC & 10 in MCL)
- ii) Outsourcing / contractual OC patch survey were conducted in 32 OC patches (16 in ECL, 2 in BCCL, 6 in CCL, 6 in SECL, 1 in NCL & 1 in MCL)
- iii) Underground correlation survey of 2 mines (1 in ECL & 1 in BCCL)
- iv) Digitization and scale conversion of mine plan 19 nos. (1 for ECL & 18 for BCCL)
- v) Connection of coal blocks with national grid 12 nos. (11 in ECL & 1 in SECL)
- vi) Detail surface survey in 2 coal blocks (1 in NCL & 1 in SECL).
- vii) Review of balance coal & OB reserves & stripping ratio 1 no. in CCL
- viii) Identification of Open voids & dumps for land reclamation 7 nos. in CCL
- ix) Demarcation of coal blocks boundary 3 nos. in CCL command area.
- x) Ground2water study survey 1 no. in ECL.
- xi) Bore hole and other exploration related survey jobs in 19 exploration camps.
- xii) Implementation of two numbers of R&D projects under CIL R&D grant titled as :
 - Development of rapid and accurate method of correlation survey in underground mines and
 - 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.

8.2 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 2007-08.

- i) A total of 5 nos. of controlled blasting and vibration studies were carried out for different mines of BCCL, CCL and Usha Martin Pvt. Ltd.
- ii) Powder factor study was carried out in all the mines of CCL, BCCL, MCL, NEC and NCL as a tri-partite member.
- iii) Random sampling and testing of explosives and accessories were carried out in the mines / magazines of BCCL, CCL, NEC and Neyveli Lignite Corporation.

- iv) Performance evaluation of 33 nos. of new explosive product
- v) Introduction of SMS explosives at 4 mines of Steel Authority of India Ltd.
- vi) One S&T Project titled "Characterization of rock and explosive parameters for optimal explosive energy utilization in opencast blasting" is being executed by CMPDI in association with CMRI, Dhanbad.

8.3 Mining Electronics

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

8.3.1 Preparation of Reports/Schemes/NIT

- i) Scheme for High speed/Gigabit LAN for Rajmahal Area of ECL.
- ii) NIT/Revised Cost estimate for Environmental Monitoring System of Narsamunda & Chinakuri Mines of ECL.
- iii) S&T Project "Conveyor Control for Underground Mines" in association with RDCIS, Ranchi is in progress.
- iv) BCCL Network inspected.
- v) Inspection of MCL Companywide Voice and Data Network equipment carried out.
- vi) Pollution Control & Interlocking for Gevra & Dipka OCP.
- vii) Communication system for inclusion in various PRs like Gopalprasad, Pelma, Hingula, Bithnok(NLC), Manikpur, Dudhichua, Parej and many others.
- viii) Scheme for Ringmain Telecom. of NCL.
- ix) Environmental Monitoring System for Jarangdih, CCL.
- x) Environmental Monitoring System for 6 mines of BCCL.

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

- i) Repair & Calibration of 225 nos. of methnometers of various subsidiaries.
- ii) Repairing and testing of 180 nos. HEMM cards of various subsidiaries.

8.4 COAL TECHNOLOGY

The following jobs were completed during this year by this unit :

- i) Technical evaluation of different S&T projects relating to coal utilization.
- ii) Technical services to Ministry of Coal/CIL.
- iii) Identification of non-coking coal resource in the command areas of all coal producing companies of CIL for the production of Sponge Iron.

Apart from above, the following S&T projects, jointly with CFRI, Dhanbad are in progress

- i) Development of cheap, energy efficient by-product coke oven for production of hard coke for steel/metallurgical use.
- ii) Agglomeration formation in reducing condition in pressurized fluidized bed gasification (PFBG) with low rank high ash coal.

8.5 Management System Consultancy

CMPDI diversified into 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, Six Sigma application, and industry specific translations of ISO 9001, e.g. ISO 17025, ISO 16949, etc.

During this year, CMPDI also diversified in providing consultancy for SA 8000 Social Accountability Management System.

The scope of such consultancy includes:

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

8.5.1 Management System Consultancy for CIL and its Subsidiary Companies

CMPDI has assisted CIL subsidiary companies to achieve a total of 70 ISO 9001 and/or ISO 14001 certifications through its consultancy in various mines, hospitals, workshops, washery, etc.

8.5.2 Job completed during 2007-08

Management system consultancy worth about Rs 38 lakhs was completed during the year, which resulted into ISO 9001 certifications of 9 establishments (for 7 OCPs, 1 (one) workshop and 1 (one) hospital) and ISO 14001 certifications of 9 OCPs (including 1 (one) recertification).

8.5.3 Work in progress

Presently, CMPDI is providing management system consultancy worth about Rs 3.23 crores. This is for 97 certifications under ISO 9001, ISO 14001, OHSAS 18001, and SA 8000 in various CIL establishments, which include all major opencast coal-mining projects, some of the major underground projects, certification of total NCL against ISO 9001 and ISO 14001 and certification of total SECL against SA 8000.

9.0 HUMAN RESOURCE DEVELOPMENT

Your company believes that the strength and quality of Human Resource is the backbone for dynamic and vibrant organisation. The company continued to nurture its professionals to manage the operation of the company and provide the leadership and techno-managerial inputs. Being knowledge-based company, efforts have been made to recognise individual's knowledge- strength and interweave them into a strong fabric. Human Resource Development programmes in CMPDI are coordinated either through its in-house Staff Training College or Reputed Training Institutes in the country including IICM.

During the year 2007-08 the exposures were given to the employees in the following major areas:

Major Area	STC	IICM	External	Foreign	Total
Managerial/General	74	34	56		164
Technical/Functional	69	20	88		177
Cross Functional		21	46		67
Computer	61	40			101
Others/ General	189	145	8		342
Foreign Training/tour				28	28
Total	393	260	198	26	879

Note : 6 no. board level executives also participated in different programmes of STC

9.1 Foreign Training

In the year 2007-08 total **28 nos** of executives from CMPDI including CMD & Director's visited abroad for attending the high level meeting, conference and training in several parts of the world. The executives visited abroad are sharing their experience and knowledge among the executives of different subsidiaries of CIL at IICM.

9.2 External Training

In every year quite a good number of executives are being sent at different institutions/ places for attending Training, Conference, Workshop and Symposium. This year **198 nos.** of executives and non executives have attended the programmes at different places in India. Nomination is generally made by Head of the Division and Regional Director and selection done by CMD/ Director as per need of the company.

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

- 2nd Indian Mineral congress & Exhibition on sustainable Development to meet socio economic expectation at Dhanbad
- Geomintech Symposium on new technology Management & Safety at Bhubaneswar
- National W/S on condition Monitoring at Durgapur
- Advances in Drilling & Blasting Technologies Practices for Mining Engineers at Hyderabad
- Remote Sensing & GIS technology and Application at Hyderabad
- Use of fly ash and blended cement for durable concrete at Ballabgarh
- Advanced Gravity Separation at Jamshedpur
- UNFC for reserve estimate at Bangalore
- National Colloquium on Longwall Mining in India - the next Mile Stone at Kolkata
- National Workshop on 'Coal Beneficiation & Development of Coal Derivatives' at Kolkata
- Application of Numerical Modeling in Strata Control at Dhanbad
- Enviro International 2007 at Delhi
- Project Appraisal & Financing at Hyderabad
- India Carbon Conclave at Delhi
- Applied Ground Water flow & Transport modeling using visual Mudflow at Hyderabad
- Modern Trends in Geophysical Sciences and Techniques at Dhanbad
- Managing the social and environmental Consequences of coal mining in India at Delhi
- Trade Union Management Cooperation for Higher Productivity at Nagpur
- Worker and Safety at Nagpur
- Global Summit on Management Accounting at Delhi
- Asian Mining Congress at Kolkata
- Carbon Capture and Storage in the Power Sector : R&D Priorities at Delhi
- 2008 National Workshop on Coal mine methane at Delhi

9.2.1 At IICM

Every year HRD Division is nominating large number of executives in senior & middle level to IICM for training as per IICM's calendar programme. Nominations are being made as per the recommendation of different Head of the Division & Regional Directors as per the requirement of company & customer need. After compilation and necessary approval from Management, HRD Division nominates the executives at various programmes of IICM.

At IICM total **260** numbers of executives have been trained in 2007-08.

Some of the topics of different category are listed below:

- Functional skill programme for E&M/Civil/Mining/Excavation/System/Finance Personnels
- Functional skill programme for Mine Safety personnels
- Design for bridges & silos.
- Development in Explosive & Blasting technology
- General Management Programme
- Advance Management Programme

- Total Cost / Contract Management
- I.T on exploration and Mining
- Welding technology,,: Emerging Trends
- VAT & service tax
- Presentation skill
- Corporate communication & Image building
- Understanding labour laws

9.2.2 AT STAFF TRAINING COLLEGE

STC is conducting training programmes for the employees of CMPDI. CIL had given a target of **80** numbers non executives for skill development training in 2007-08. CMPDI achieved the target and trained **83** numbers of employees for their skill development. Apart from these trainings, STC also provides training for executives and non executives of CMPDI as per need. A total of **399** persons trained in 2007-08.

The following trainings were given.

- Requirements of ISO 9001 and ISO 14001 and its Internal audit
- Training programme on CDM
- Introduction to Arc GIS and Geo data base
- Repair and maintenance of Drills
- Systematic application of Drilling and use of drilling equipments
- Computer application in Office Management
- Hindi Software
- Application of high wall miner

9.3 Training at CMPDI for students of different Institutions (VT)

HRD Division is organizing the training of the students of various institutions at different division of CMPDI. 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.

The institutions mainly approached for training are:

- IIT, Guwahati
- Birla Institute of Technology, Ranchi
- Bengal Engineering University, Shibpur
- A.N. College, Patna.
- J. N. College, Ranchi
- IIIT, Noida
- Women's College, Ranchi
- St. Xavier's College, Ranchi
- Government Women's Polytechnique, Jamshedpur

Total students trained at CMPDI in 2007-08 are 88 numbers. 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.

10.0 OUTSIDE - CIL CONSULTANCY

During the year 2007- 2008, Consultancy services were provided to 29 organisations for 38 jobs. Some of the important clients/organizations to whom services were provided are SAIL-IISCO, Chattisgarh Mineral Development Corpn. Ltd, Neyvelli Lignite, NTPC, Tata Steel, Singareni Collieries Company Ltd ,DSCL, ISM, CPCB etc.

Presently, 23 outside consultancy jobs are in hand for 14 organisations like SAIL-ISP, Tata Steel, Neyveli Lignite Corporation Ltd., Chattisgarh State Electricity Board, HPGCL,

HINDALCO, Mahaguj Collieries Limited, NALCO, Central Electricity Authority. OMC, GMDC, Director General Of Hydrocarbons etc.

During the year 2007-08, 43 jobs worth Rs. 10 crores and 32 lakhs from 33 organisations were procured by CMPDI.

11.0 MANPOWER AND WELFARE ACTIVITIES

11.1 MANPOWER

Particulars		As on March 31, 2007	As on March 31, 2008
Executive		774	760
Non executive			
	Monthly Rated	1390	1365
	Daily Rated	963	923
		2353	2288
Grand Total		3127	3048

11.2 WELFARE ACTIVITIES

- i) CMPDI 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) CMPDI 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. Scholarship is also awarded to the children of CMPDI employees as per provision of CIL.
- v) The Company also organised Inter Coal Carrom Tournament of 2007-08 in December 2007. Its team also took part in Inter Coal Cricket/Carrom/Lawn Tennis/Golf tournament in 2007-08.
- vi) Canteen facility 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.
- vii) Gratuity and Pension papers are given to the employees on the day of their superannuation.
- viii) There are 3 (three) co-operative credit societies in CMPDI.

12.0 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 multi dimensional efforts to enhance the progressive use of Official Language Hindi in daily official routine work during the period under review.

Besides, documents under Section 3(3) of the Official Language Act, the minutes of the different meetings held at the level of CMD/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 laurel all over.

The month of September was organised as Hindi Month as per the directive of Ministry of Coal. In order to propagate and make Hindi popular among the employees of the company several Hindi competitions were organised. A large number of employees participated in all competitions held during the month and the winners were awarded suitably by the hon'ble member of Hindi advisory committee of Ministry of Coal "Observer" of CMPDIL Dr. Mata Prasad (Ex-Governor, Arunachan Pradesh) who was specially invited on the occasion. He appreciated the company's achievement and efforts made in the field of official language policy. He also observed that company has achieved many targets in progressive use of Hindi fixed in the annual programme issued by the Ministry of Home Affairs for the period of 2007-08. In addition to this, two departments who have done most of their official work in Hindi were awarded CMPDI CMD's winner and runner shield respectively.

Your company has been awarded "Smt. Indira Gandhi Coal Industry Nationalisation Leadership Coal India Rajbhasha Samman" by coal industry for the highest achievement made in the field of official language policy and progressive use of official language hindi in the company.

Four quarterly meetings of Official Language Implementation Committee were also organised during the year under review. All four meetings were presided over by Chairman-cum-Managing Director of the company 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.

Four Hindi workshops were also organised 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.

13.0 DIRECTOR'S RESPONSIBILITY STATEMENT:

- 13.1** In the preparation of the annual accounts, the applicable accounting standard had been followed along with proper explanation relating to material departures.
- 13.2** 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.
- 13.3** 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.
- 13.4** 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 2007-08. 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 National Thermal Power Corporation Ltd., Tata Steel Ltd., Singareni Collieries Company Ltd., Orissa Mining Corporation, Indian School of Mines, Neyveli

Lignite Corporation Ltd., Steel Authority of India Ltd., Chattisgarh Mineral Development Corporation Ltd. NALCO, Central Electricity Authority, GMDC 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 : 24.07.2008

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

AUDITOR'S REPORT	MANAGEMENTS' REPLY
<p>The Members, Central Mine Planning and Design Institute Limited. Ranchi, Jharkhand.</p> <p>(1) We have audited the attached Balance Sheet of Central Mine Planning and Design Institute Limited as at 31st March 2008 and the Profit and Loss Account and the Cash Flow Statement of the Company for the year ended on that date annexed thereto, which we have signed under reference to this report. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audit.</p> <p>(2) We conducted our audit in accordance with the auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement. An audit includes examining, on a test basis, evidence supporting the amount and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by the management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion</p> <p>(3) As required by the Companies (Auditor's Report) Order, 2003 as amended by The Companies (Auditors Report) (Amendment Order), 2004 issued by the Central Government of India in terms of sub section (4A) of Section 227 of The Companies Act, 1956, we enclose in the Annexure hereto a statement on the matters specified in paragraphs 4 and 5 of the said Order.</p> <p>(4) Further to our comments in the Annexure referred to in paragraph 3 above, we report that:-</p> <p>A. Comments on accounts :-</p> <p>i. Balances of Sundry Debtors also include TDS deducted by various Parties. Due to non-reconciliation of Sundry Debtors and also in the absence of Balance confirmation from Sundry Debtors, the amount of TDS included in Sundry Debtors is not quantifiable and the extent of realisability of TDS is also not ascertainable.</p> <p>ii. Buildings cost or WDV includes Rs.1060.77 lacs standing on land belonging to other CIL subsidiaries, which has not been conveyed in favour of the Company. (Note no.1.1.3 of Schedule-15).</p> <p>iii. We are unable to express our opinion to the extent of realisability of old debts due from CIL subsidiaries of Rs. 69.11 lakhs outstanding since 31.3.1993 (Note No.4.1.2 in Sch.-15).</p> <p>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.</p>	<p>This is accounted for on the basis of TDS Certificates received from the Clients.</p> <p>No comments.</p> <p>Efforts are on to recover the dues from the Subsidiaries.</p> <p>No Comments</p>

AUDITOR'S REPORT

- 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.
- 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.
- 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.

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

- 1. We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.
- 2. In our opinion, proper books of accounts as required by law have been kept by the Company so far as appears from our examination of those books.
- 3. The Balance Sheet, Profit and Loss Account and Cash Flow Statement dealt with by this report are in agreement with the books of account;
- 4. In our opinion, Balance Sheet, Profit and Loss Account and Cash Flow statement dealt with by this report comply with the requirements of the applicable Accounting Standards referred to in sub section (3C) of Section 211 of The Companies Act, 1956. However, segment wise assets and liabilities have not been disclosed as per AS-17 (Segment Reporting)
- 5. As per the records that could be produced before us and on the basis of representation made by the Chairman -cum- Managing Director and the Company secretary we report that the provisions of clause (g) of sub section (1) of Section 274 of The Companies Act, 1956, regarding disqualifications of directors are not applicable to the company.
- 6. In our opinion, and to the best of our information and according to the explanations given to us, the said accounts with schedules thereto and read with significant accounting policies (Schedule 14) and Notes on accounts (Schedule 15), give the information required by The Companies Act, 1956, in the manner so required and give a true and fair view:

MANAGEMENTS' REPLY

No comments.

No comments.

No comments.

No comments.

No comments.

No comments.

No comments

No comments.

No comments.

AUDITOR'S REPORT

- a. In the case of the Balance sheet, of the state of affairs of the Company as at 31st March, 2008.
- 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: 7th June 2008.

MANAGEMENTS' REPLY

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 31ST MARCH, 2008)

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.

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.

MANAGEMENTS' REPLY

ANNEXURE TO THE AUDITORS REPORT

MANAGEMENTS' REPLY

<p>(b) In view of our comment in 3(a) above, the clause 3(b) of aforesaid Order is not applicable to this Company.</p>	<p>No comments.</p>
<p>(c) In view of our comment in 3(a) above, the clause 3(c) of aforesaid Order is not applicable to this Company.</p>	<p>No comments.</p>
<p>(d) In view of our comment in 3(a) above, the clause 3(d) of aforesaid Order is not applicable to this Company.</p>	<p>No comments.</p>
<p>(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.</p>	<p>No comments.</p>
<p>(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.</p>	<p>No comments.</p>
<p>(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.</p>	<p>No comments.</p>
<p>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.</p>	<p>No comments.</p>
<p>5. In respect of transactions covered under Section 301 of The Companies Act, 1956:-</p>	
<p>(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.</p>	<p>No comments.</p>
<p>(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.</p>	<p>No comments.</p>
<p>6. 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.</p>	<p>No comments.</p>
<p>7. The Company has appointed outside firms of Chartered Accountants for internal audit of Headquarters and Regional institutes, except for Regional Institute II, IV and V at Dhanbad, Nagpur and Bilaspur 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.</p>	<p>The functional coverage has already been increased and further increase has been approved in the D(F)'s Co-ordination meeting held at CIL in May, 2008.</p>

ANNEXURE TO THE AUDITORS REPORT

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.

9. In respect of statutory dues:

(1) According to the records of the Company, the Company is generally regular in depositing undisputed statutory dues such as provident fund, investor education and protection fund, income tax, sales tax, wealth tax, service tax, customs duty, excise duty, cess and any other dues with the appropriate authorities. According to the explanations given to us, Employees State Insurance Scheme is not applicable to the Company. According to the information and explanations given to us, no undisputed amounts payable in respect of the aforesaid dues were outstanding as at 31st March, 2008 for a period of more than six months from the date they became payable.

(2) The disputed statutory dues aggregating to Rs.908.27 Lacs that have not been deposited on accounts of matters pending before appropriate authorities are as under:

S L	Name of Statute	Nature of Dues	Amt. (Rs. in Lakh)	Forum Where Dispute is Pending
1	Income-Tax Act	Income Tax	0.91	Income Tax Appellate Tribunal, Ranchi
2	Income-Tax Act	Income Tax	5.33	CIT (Appeals)
3	Income-Tax Act	Income Tax	825.14	CIT (Appeals)
4	Income-Tax Act	TDS on Perks	19.23	Pending with IT Authority
5	Service Tax Act	Service Tax	40.24	Service Tax Tribunal Kolkata
6	Sales Tax Act	Sales Tax	0.64	Sales Tax Authority
7	Sales Tax Act	Entry Tax	16.78	Sales Tax Authority

MANAGEMENTS' REPLY

No comments.

No comments.

No comments.

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

- | | |
|---|--------------|
| 10. The Company has no accumulated losses as at 31 st March 2008 and has also not incurred any cash losses from operating activities during the financial year ended on that date and in the immediately preceding financial year. | No comments. |
| 11. According to the information and explanations given to us, we are of the opinion that the Company has no dues to financial institutions, banks or debenture holders. | No comments. |
| 12. According to the information and explanations given to us, the Company has not granted any loans or advances on the basis of security by way of pledge of shares, debentures and other securities. | No comments. |
| 13. The Company is not a Chit Fund, Nidhi or Mutual benefit fund/society. Therefore, clause (xiii) of CARO is not applicable to the Company. | No comments. |
| 14. In our opinion the Company is not dealing or trading in shares, securities. debentures and other investments. | No comments. |
| 15. According to the explanations and information given to us, the Company has not given any guarantee for loans taken by others from banks or financial institutions. | No comments. |
| 16. The Company has not raised any term loans during the year. | No comments. |
| 17. In our opinion and according to the explanations given to us, the Company has not raised any short term funds and used it for long term purposes or vice versa. | No comments. |
| 18. During the year, the Company has not made any preferential allotment of shares to parties and companies covered in the register maintained under Section 301 of The Companies Act, 1956. | No comments. |
| 19. The Company has not issued any debenture during the year. | No comments. |
| 20. The Company has not raised any money by public issue during the year. | No comments. |
| 21. As per information and explanation received from the management, no fraud on or by the Company was reported during the year. | No Comments |

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

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

Place : Ranchi
Dated: 7th June 2008.

**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 YER ENDED 31ST MARCH, 2008**

The preparation of Financial Statements of Central Mine Planning & Design Institute Limited for the year ended 31 March 2008 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 statement under section 227 of the Companies Act, 1956 based on independent audit in accordance with the auditing and assurance standard 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 07.06.2008.

I, on 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 for the year ended 31 March 2008. This supplementary audit has been carried out independently without access to the working papers of the statutory auditors and is limited primarily to inquiries of the statutory auditors and company personnel and a selective examination of some of the accounting records. Based on my supplementary audit, I would like to highlight the following significant matter under section 619 (4) of the Companies Act, 1956 which has come to my attention and which in my view is necessary for enabling a better understanding of the financial statement and the related Audit Report :

GENERAL :

Notes to Accounts (Schedule 15) :

A reference is invited to Note 4.1.2 stating that no provision is considered necessary for outstanding bills of companies under the same management barring a few specific cases. This policy needs reconsideration as a sum of Rs 6.55 crore pertaining to the period up to 1997-98 is still outstanding from five subsidiaries of Coal India Limited. This has not been reconciled even after a lapse of over ten years.

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

Place : Kolkata
Date : 16/07/2008

**Sd/-
(B. Mazumdar)
Principal Director of Commercial Audit &
Ex-officio Member Audit Board – II
Kolkata**

**MANAGEMENT'S REPLY TO THE COMMENTS OF 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 YER ENDED
31ST MARCH, 2008 IS AS FOLLOWS**

The Management has initiated action for realisation / acceptance of dues outstanding for more than 10 years amounting to Rs 6.55 Crores for the five CIL Subsidiaries under reference. The reconciliation / acceptance is under process and it is expected that with the completion of the reconciliation, the entire debt from these CIL Subsidiaries shall be realised. Based on the progress made during the year 2008-09 the Notes on Accounts (Schedule-15) will be reviewed if considered necessary.

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED
BALANCE SHEET AS AT 31ST MARCH, 2008

<u>Schedule</u>	<u>As at</u> <u>31st March 2008</u> <u>(Rs in Lakh)</u>	<u>As at</u> <u>31st March 2007</u> <u>(Rs in Lakh)</u>
<u>SOURCES OF FUNDS</u>		
Shareholders' Funds		
Share Capital	A 1904.00	1904.00
Share Money pending allotment	B 0.00	0.00
Reserves & Surplus	C 4483.13	4395.83
Loan Funds		
Secured	D 0.00	0.00
Unsecured	E 180.94	178.37
Total Funds Employed	6568.07	6478.20
<u>APPLICATION OF FUNDS</u>		
Fixed Assets		
(including assets held on behalf of Govt. / CIL)		
Gross Block	F 13399.97	12887.41
Less : Depreciation	7845.79	7567.00
Net Block	5554.18	5320.41
Surveyed off Assets	44.47	34.66
Capital Work in Progress	G 588.32	627.61
Investment	H 0.00	0.00
Deferred Tax (net)	2049.06	1566.13
Current Assets, Loans & Advances		
Inventories	I 469.72	466.56
Sundry Debtors	J 20063.00	12453.59
Cash & Bank Balances	K 6552.56	2586.74
Loans & Advances	L 5363.60	6225.78
Other Current Asset	M 493.61	436.54
Total Current Assets, Loans & Advances	32942.49	22169.21
Less: Current Liabilities & Provisions	N 34693.67	23324.12
Net Current Assets	-1751.18	-1154.91
Intangible Assets	O 83.22	84.30
	6568.07	6478.20
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)
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 : 7th June, 2008

sd/-
(CA Sumit Agrawal)
Partner

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2008

		Current year	Previous Year
	Schedule	Year ending 31st March 2008 (Rs in Lakh)	Year ending 31st March 2007 (Rs in Lakh)
INCOME			
Sale of services	1	19596.08	16032.11
Coal issued for other purpose	2	0.00	0.00
Other income	3	311.62	284.04
Total Income		<u>19907.70</u>	<u>16316.15</u>
EXPENDITURE			
Consumption of Stores & Spares	4	1049.63	857.00
Employees Remuneration & Benefits	5	14371.16	11451.72
Social Overhead	6	1216.06	1062.27
Power & Fuel	7	193.98	185.45
Repairs	8	412.88	306.93
Contractual Expenses	9	282.12	266.77
Miscellaneous Expenses	10	1493.94	1350.70
Total Expenditure		<u>19019.77</u>	<u>15480.84</u>
GROSS OPERATING PROFIT(+)/LOSS(-)		887.93	835.31
Interest	11	21.57	28.95
Depreciation		237.02	219.62
Provisions	12	72.65	126.14
PROFIT(+)/LOSS(-) FOR THE YEAR		556.69	460.60
Prior Period Adjustment	13	56.72	13.32
NET PROFIT(+)/LOSS(-) BEFORE TAXATION		499.97	447.28
Provision for Income Tax			
For current year		643.75	542.20
For Fringe Benefit Tax		85.36	71.00
For Deferred Tax		-482.93	-424.51
For earlier years		-31.32	55.66
PROFIT(+)/LOSS (-) AFTER TAX		285.11	202.93
Transferred to General Reserve		0.00	0.00
PROFIT(+)/LOSS(-) AFTER TRANS. TO GENERAL RESERVE		285.11	202.93
Add : Profit upto the previous year		2510.82	2307.89
Less : Employees terminal benefits as on 31/03/2007 as per AS-15		169.43	0.00
BALANCE CARRIED TO BALANCE SHEET		2626.50	2510.82
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)
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 : 7th June, 2008

sd/-
(CA Sumit Agrawal)
Partner

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2008

SCHEDULE - A

SHARE CAPITAL

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
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 2008
SHARE MONEY PENDING ALLOTMENT

SCHEDULE - B

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
	NIL	NIL

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2008
RESERVE & SURPLUS

SCHEDULE - C

	Current Year (Rs. in Lakh)		Previous Year (Rs. in Lakh)	
CAPITAL RESERVE :				
Grants for purchase of capital equipment				
Energy Coal S&T Grants				
As per last Account	1155.24		1235.07	
Additions during the year	<u>15.33</u>		<u>17.70</u>	
	1170.57		1252.77	
Less : Depreciation written-off during the year	133.66		97.53	1155.24
Less : Adjustment	14.67	1022.24		
	<hr/>		<hr/>	
UNDP Grants				
As per last Account	6.55		6.87	
Addition during the Year	0.00		0.00	
	<hr/>		<hr/>	
Less : Depreciation written off	0.32	6.23	0.32	6.55
	<hr/>		<hr/>	
CCDA Grants				
As per last Account	8.01		8.26	
Addition during the Year	1.66		0.00	
	<hr/>		<hr/>	
Less : Depreciation written off	0.33	9.34	0.25	8.01
	<hr/>		<hr/>	
EMSC Grants				
As per last Account	0.47		0.47	
Addition during the Year	0.00		0.00	
	<hr/>		<hr/>	
Less : Depreciation written off	0.00	0.47	0.00	0.47
	<hr/>		<hr/>	
CIL R&D GRANTS				
As per last Account	346.42		366.63	
Addition during the Year	<u>166.88</u>		26.25	
	513.30		392.88	
Less : Depreciation written off	81.84	431.46	46.46	346.42
	<hr/>	<hr/>	<hr/>	<hr/>
P.R.E. Grants				
As per last Account	150.78		39.85	
Addition during the Year	<u>82.02</u>		161.11	
	232.80		200.96	
Less : Depreciation written off	63.45	169.35	50.18	150.78
	<hr/>	<hr/>	<hr/>	<hr/>
GENERAL RESERVE :		1639.09		1667.47
		217.54		217.54
Balance of Profit transferred from Profit & Loss Account		2626.50		2510.82
Total		<u>4483.13</u>		<u>4395.83</u>

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2008

SCHEDULE - D

SECURED LOAN

Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
NIL	NIL

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2008

SCHEDULE - E

UNSECURED LOAN

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Due to Coal India Ltd., the Holding Company	160.57	160.57
Interest accrued & due	20.37	17.80
 Total	 180.94	 178.37

Scsedule to Balance Sheet as at 31 st March 2008

FIXED ASSETS

	(RS IN LAKH)									
	PARTICULARS				DEPRECIATION				Net Block	
	COST	ADDITION	ADJUSTMENT	TOTAL COST	DEPRECIATION	DEPRECIATION	ADJUSTMENT	TOTAL	NET BLOCK	NET BLOCK
	As AT 1.4.2007	DURING THE YEAR	FOR DISPOSAL/ DISCARDED OF FIXED ASSETS	AS AT 31.03.2008	AS AT 1.4.2007	FOR THE YEAR	FOR DISPOSAL/ DISCARDED ETC.	DEPRECIATION UPTO 31.03.2008	AS AT 31.03.2008	AS AT 31.03.2007
A. Fixed Assets : (Excluding S&T, CCDA, EMSC, UNDP,PRE & CIL R&D Assets)										
Land :										
Freehold	114.71			114.71	0.00			0.00	114.71	114.71
Leasehold	117.98			117.98	58.28	3.13		61.41	56.57	59.70
Building :										
Freehold	3862.28	54.12	-41.32	3875.08	1083.92	76.16	-19.26	1140.82	2734.26	2778.36
Leasehold	-			-	-			-	-	-
Plant & Machinery	3932.27	383.41	-137.27	4178.41	2997.49	161.84	-150.16	3009.17	1169.24	934.78
Furniture,Fittings & Office Equipment	1082.65	67.65	-3.62	1146.68	912.79	33.88	-3.61	943.06	203.62	169.86
Vehicle	628.70		-13.58	615.12	553.91	19.48	-12.81	560.58	54.54	74.79
TOTAL (A)	9738.59	505.18	-195.79	10047.98	5606.39	294.49	-185.84	5715.04	4332.94	4132.20
B. S&T,CCDA,EMSC , UNDP,PRE & CIL R&D Assets :										
Building	31.07		0.00	31.07	2.35	0.55	0.00	2.90	28.17	28.72
Plant & Machinery	3091.58	202.36	0.00	3293.94	1943.84	168.34	0.00	2112.18	1181.76	1147.74
Furniture,Fittings & Office Equipment	22.24	0.81	0.00	23.05	10.70	1.25	0.00	11.95	11.10	11.54
Vehicle	3.93		0.00	3.93	3.72		0.00	3.72	0.21	0.21
TOTAL (B)	3148.82	203.17	0.00	3351.99	1960.61	170.14	0.00	2130.75	1221.24	1188.21
TOTAL (A+B)	12887.41	708.35	-195.79	13399.97	7567.00	464.63	-185.84	7845.79	5554.18	5320.41
C. Assets Surveyed Off									44.47	34.66
Previous Year :										
(i) Fixed Assets-(Excl. S&T,CCDA,EMSC, UNDP,PRE & CIL R&D Assets)	9546.01	358.06	-165.48	9738.59	5474.88	283.56	-152.05	5606.39	4132.20	4071.13
(ii) S&T, CCDA, EMSC , UNDP ,PRE & CIL R&D Assets	3016.41	132.41	0.00	3148.82	1801.31	159.30	0.00	1960.61	1188.21	1215.10
TOTAL	12562.42	490.47	-165.48	12887.41	7276.19	442.86	-152.05	7567.00	5320.41	5286.23
(iii) Assets Surveyed Off									34.66	29.07

Schedule to Balance Sheet as 31st March 2008
FIXED ASSETS

SCHEDULE - F
Annexure - F1

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

	CURRENT YEAR	PREVIOUS YEAR	* Depreciation on Assets purchased against Grants :	CURRENT YEAR	PREVIOUS YEAR
1. Profit & Loss Account			Energy Coal S&T	133.66	97.53
(a) 100% Depn. on Assets costing below Rs. 5000/-	11.72	4.68	UNDP	0.32	0.32
(b) Others	225.30	214.94	CCDA	0.33	0.25
2. Social Overhead	58.55	61.15	EMSC	0.00	0.00
3. Prior Period Adjustment	0.00	3.67	CIL R&D	81.84	46.46
4. Capital Assets against Grants *	234.88	159.30	PRE(Fixed Assets)	18.73	14.74
			SUB TOTAL	234.88	159.30
			PRE(Intangible assets)	44.72	35.44
			GRAND TOTAL	279.60	194.74
TOTAL	530.45	443.74			

NOTE 2

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

	COST As at 31st- March.08	COST As at 31st- March.07
(i) Building	2762.98	2755.64
(ii) Vehicles	49.69	49.69
TOTAL	2812.67	2805.33

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

	CURRENT YEAR	PREVIOUS YEAR
1. Provision for Depreciation	2.67	45.40
2. Bank	0.60	1.50
3. Loss (+) / Profit (-) of Fixed assets	-0.46	0.89
Disposal of Fixed Assets (Gross Cost)	2.81	47.79

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

	AS AT 31st - MARCH 2008	AS AT 31st - MARCH 2007
Gross Cost	887.65	694.68
Provn. for Depn.	843.19	660.02
	44.46	34.66

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

	CURRENT YEAR	PREVIOUS YEAR
Opening Balance :	7567.00	7276.19
Add : Depreciation provided during the year	464.63	442.86
	8031.63	7719.05
Less : Net Outflow of Fund : for Surveyed/Written off and disposed off Assets	185.84	152.05
Less : Outflow Fund - Inter Company	0.00	0.00
Others	0.00	0.00
Closing balance	7845.79	7567.00

Schedule to Balance Sheet as at 31 st March 2008**CAPITAL WORK IN PROGRESS**

PARTICULARS	(RS IN LAKH)										
	COST			COST AS ON 01.04.07			DURING THE YEAR	PROVISION /ADJUSTMENT/ DURING THE YEAR	NET ASSETS		
	COST AS ON 01.04.07	ADDITION DURING THE YEAR	ADJUSTMENT FOR CAPITALISATION/DISPOSAL/ DISCARD	COST AS ON 31st MARCH 2008	AS ON 01.04.07	TOTAL AS ON 31st MARCH 2008			NET ASSETS AS ON 31/03/08	NET ASSETS AS ON 31/3/07	
(A) Capital Work -in- Progress (Excluding S&T/R&D Assets)											
Buildings	67.96	0.84	-2.65	66.15	8.18	1.08		9.26	56.89	59.78	
Plant And Machinery And Capital Stores in Stores	156.95	68.03	-56.74	168.24	0.44	0.00		0.44	167.80	156.51	
TOTAL (A)	224.91	68.87	-59.39	234.39	8.62	1.08	0.00	9.70	224.69	216.29	
(B) Capital Work-in-Progress- (For S&T)											
Plant and Machinery and Capital Stores in Stores	266.73			266.73	0.00	38.69		38.69	228.04	266.73	
(For CCDA)											
Plant and Machinery and Capital Stores in Stores	0.00	0.19		0.19	0.00			0.00	0.19	0.00	
(For R&D)											
Coal Tailing Treatment Plant	144.59	0.00		144.59	0.00	26.05		26.05	118.54	144.59	
Plant and Machinery and Capital Stores in Stores	0.00	16.86		16.86	0.00	0.00		0.00	16.86	0.00	
TOTAL (B)	411.32	17.05	0.00	428.37	0.00	64.74	0.00	64.74	363.63	411.32	
TOTAL (A+B)	636.23	85.92	-59.39	662.76	8.62	65.82	0.00	74.44	588.32	627.61	

Previous year:

(A) Capital Work -in- Progress (Excluding S&T/R&D Assets)	298.76	58.99	-132.84	224.91	7.74	0.88	0.00	8.62	216.29	291.02
TOTAL (A)	298.76	58.99	-132.84	224.91	7.74	0.88	0.00	8.62	216.29	291.02
(B) Capital Work-in-Progress- (For S&T/R&D Assets)	441.82	0.00	-30.50	411.32	0.00	0.00	0.00	0.00	411.32	441.82
TOTAL (B)	441.82	0.00	-30.50	411.32	0.00	0.00	0.00	0.00	411.32	441.82
TOTAL (A+B)	740.58	58.99	-163.34	636.23	7.74	0.88	0.00	8.62	627.61	732.84

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

	<u>AS AT 31st MARCH 2008</u>	<u>AS AT 31st MARCH 2007</u>
i) Buildings	66.15	67.96
ii) Roads & Culverts	-	-
iii) Others (Water Supply)	-	-
TOTAL	<u>66.15</u>	<u>67.96</u>

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2008
INVESTMENT (AT COST)**

SCHEDULE - H

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Trade investment at Cost (Unquoted)	Nil	Nil

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2008
INVENTORIES****SCHEDULE - I**

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
(As valued and certified by the Management)		
Stock of Stores & Spare Parts at weighted average cost	487.59	481.25
Less : Provision for slow moving/non-moving/ obsolescence	<u>92.66</u>	<u>89.67</u>
	394.93	391.58
Other stores at purchase price	45.07	57.09
	<hr/>	<hr/>
Add : In Transit/Under Inspection	29.72	17.89
	<hr/>	<hr/>
Total	469.72	466.56

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2008
SUNDRY DEBTORS****SCHEDULE - J**

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Debts outstanding for a period		
Exceeding Six months	6824.06	5821.19
Others	13551.68	6891.00
Total	20375.74	12712.19
Less : Provisions for doubtful debts	<u>312.74</u>	<u>258.60</u>
Balance	20063.00	12453.59
Classification :	<hr/>	<hr/>
Unsecured & Considered good	20063.00	12453.59
Unsecured & Considered doubtful	312.74	258.60
	<hr/>	<hr/>
	20375.74	12712.19
	<hr/>	<hr/>
Due from the Companies under the same management : (unsecured and considered good)		
Eastern Coalfields Limited	1640.74	1632.53
Bharat Coking coal Limited	1323.18	1282.84
Central Coalfields Limited	4728.16	2575.62
Western Coalfields Limited	2895.22	1222.22
South Eastern Coalfields Limited	2795.17	737.23
Northern Coalfields Limited	1353.17	830.38
Mahanadi Coalfields Ltd.	3286.28	1960.47
North East Coalfields	62.13	17.88
Kakri CHP (NCL)	14.08	14.08
Dankuni Coal Complex (CIL)	1.87	1.87
Bharatpur CHP (MCL)	0.73	0.73
	<hr/>	<hr/>
Total	18100.73	10275.85

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2008

SCHEDULE - K

CASH & BANK BALANCE

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Cash, Cheques, Drafts & Stamps in-hand	236.38	36.27
Remittance in-transit	0.04	937.00
Balance with Scheduled Bank :		
In Current Account *	6253.39	1551.23
In Deposit Accounts **	62.75	62.24
Total	6552.56	2586.74

* Includes Rs 4129.35 lakh being Govt. Grants pending disbursement

** Rs Nil lakh encumbered for issue of Bank Guarantee
(Previous year Rs. 16.70 lakh)

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2008

SCHEDULE - L

LOANS & 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	121.29	1.01
for Other Stores	54.83	50.90
Advances to Contractors		
for Capital Works	0.00	1.85
for Other Stores	6.39	5.81
Advances to Employees:		
for House Building	105.71	141.01
for Motor Car & Other Conveyances	1.26	1.84
for Others	179.02	104.67
Deposits for P&T, Electricity, Gas etc.	46.08	45.94
Advance payment of statutory Dues		
Income-tax	771.54	1122.24
Sales Tax	9.42	5.22
Wealth tax	0.30	0.30
Pre paid Expenditure	13.60	13.67
Income Tax deducted at source	2462.11	861.13
Current Account Balances with Holding co. & its subsidiaries		
Coal India Ltd. , Holding Co.	0.00	3844.78
Subsidiaries Suspense Account	1566.65	0.00
Advances to Other Government Agencies	36.75	36.76
	-----	-----
Total	5374.95	6237.13
Less : Provisions	11.35	11.35
	-----	-----
Balance	5363.60	6225.78
	-----	-----
Notes :		
i) Secured & Considered good	106.97	142.85
Unsecured & Considered good	5256.63	6082.93
Unsecured & Considered doubtful	11.35	11.35
	-----	-----
	5374.95	6237.13
	-----	-----
ii) Amount due from an Officer of the Company Rs. Nil (Prev. year Nil). Maximum balance due at any time during the year Rs 0.71 lakh (Prev. year 0.86 Lakh)		
iii) Amount due from directors of the Company Rs. 0.46 lakh (Prev. year Rs 0.08 lakh). Maximum amount due at any time during the year Rs 4.33 Lakh (Prev. Year Rs 0.23 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 2008

SCHEDULE - M

OTHER CURRENT ASSETS

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Claims Receivables :		
i) Railway	-	-
ii) Insurance	-	-
iii) Others	31.42	26.73
Other Receivables		
i) Employees	453.07	401.99
ii) Others	9.12	7.82
Total	493.61	436.54

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2008

SCHEDULE - N

CURRENT LIABILITIES & PROVISIONS

	Current Year (Rs. in Lakh)		Previous Year (Rs. in Lakh)
Creditors for goods :			
Capital	163.17		90.08
Revenue	125.97		165.43
Sundry Creditors for contractual expenses			
Capital	93.88		89.34
Revenue	408.34		478.55
Liability against Coal Block	2569.83		7830.24
Sundry Creditors for other expenses			
Power & Fuels	88.96		90.55
Others	867.05		664.78
Employee Remuneration & Benefits :-			
Salaries, Wages & Allowances (gross)	3196.34		1176.68
Gratuity	4779.87		4051.34
Attendance Bonus	35.43		35.22
Exgratia	185.78		174.83
Unpaid Salaries/Wages	73.76		72.67
Leave encashment	2392.73		1903.71
Statutory Dues :			
Income Tax deducted at source :			
from Employees	21.46		47.47
from Contractors	1.27		1.11
Service Tax	1877.72	1146.13	
less : Service tax paid on bills	<u>12.37</u>	<u>24.66</u>	1121.47
Advances & Deposits :			
from Customers	274.47		482.51
from Ministry of Coal (Annex. N - 4)	2511.75		927.95
from Contractors & others *	439.53		282.39
Government Grants pending disbursement			
Energy Coal (S&T) Grants (Annex N - 1)	104.82		19.51
Other grants (Annex N - 2)	1512.33		2027.66
CIL R&D Fund (Annex N-3)	0.45		36.25
Current Account Balances with Holding co. & its subsidiaries			
Coal India Ltd. , Holding Co.	11082.08		0.00
Subsidiaries Suspense Account	0.00		104.08
Other Liabilities :			
Retirement Pension Fund dues	58.83		62.98
Provident Fund dues	45.64		71.86
Cooperatives/Benevolent Fund/Recreation Club	21.78		27.78
Provisions :			
Provision for Taxation - Income Tax	1490.11		1105.36
Provision for Fringe Benefit Tax	242.36		157.00
Provision for Taxation - Wealth Tax	0.40		0.40
Provision for loss of Asset	39.93		24.92
Total	<u>34693.67</u>		<u>23324.12</u>

* 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 2008

SCHEDULE - N

ENERGY COAL S&T GRANTS

Annex ure N-1

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Opening Balance as on 01/04/2007	19.51	194.30
Amount received from Ministry of Energy-Coal (S&T) Grant	1286.00	600.00
Refund from Implementing Agencies	47.47	34.66
	1352.98	828.96
Disbursement to various Implementing Agencies :		
Central Mining Research Institute	125.83	45.00
Central Fuel Research Institute	100.00	171.50
Indian School of Mines	5.00	3.00
Annamalai University Madras	40.00	2.50
Andhra University	12.00	20.00
Coal Bed Methane	203.60	100.00
National Institute of Rock Mechanics	0.00	105.00
Tamil Nadu Agriculture University	34.00	9.00
T.M., Bhagalpur University	10.00	0.70
Nayveli Lignite Corporation	115.76	120.00
Regional Research Laboratory, Jorhat	5.00	5.00
SAIL R&D Organisation	0.00	5.00
Anna University, Chennai	90.00	0.00
IIT, Delhi	0.00	0.70
IIT, Kharagpur	230.76	4.00
IICT	4.00	5.72
SCCL	0.00	7.00
CMERI	0.00	30.00
Jadavpur University	10.00	8.00
IISC, Banagalore	17.00	0.00
Benaras Hindu University	10.00	
Rajasthan State Mines & Minerals Ltd	100.00	
Vector Control Research Centre, Pondichery	20.00	
CMPDI Limited	115.21	167.33
Total Disbursement	1248.16	809.45
Closing Balance	104.82	19.51

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2008

Schedule - N
Annexure - N.2

OTHER GRANTS

Rs. in Lakhs

Name of Government Grants		Opening	Addition	Total	Disbursed	Balance
		Balance	during the		during the	as on
			year		year	31/03/08
		A	B	C (A+B)	D	E (C-D)
Mining Electronic Grants	Curr. Year	0.52	0.00	0.52	0.00	0.52
	Prev. Year	0.52	0.00	0.52	0.00	0.52
Promotional Regional Exploration Grants (Annex. N.2.1)	Curr. Year	1939.57	3499.00	5438.57	4007.37	1431.20
	Prev. Year	1817.20	4000.00	5817.20	3877.63	1939.57
Environmental Measures Subsidence Control and Rehabilitation Control of Fire & Subsidence (RCFS) (Annex. N.2.2)	Curr. Year	8.77	1799.00	1807.77	1804.31	3.46
	Prev. Year	2.42	800.00	802.42	793.65	8.77
Testing Laboratory Grants	Curr. Year	28.00	0.00	28.00	0.00	28.00
	Prev. Year	28.00	0.00	28.00	0.00	28.00
United Nations Development - Programme Grants	Curr. Year	26.82	0.00	26.82	0.00	26.82
	Prev. Year	26.82	0.00	26.82	0.00	26.82
Coal Conservation Development - Advisory Grants	Curr. Year	23.98	20.30	44.28	21.95	22.33
	Prev. Year	23.75	244.38	268.13	244.15	23.98
Total	Curr. Year	2027.66	5318.30	7345.96	5833.63	1512.33
	6	1898.71	5044.38	6943.09	4915.43	2027.66

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

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2008

Promotional Regional Exploration Grants

SCHEDULE - N

Annex ure N-2.1

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Opening Balance	1939.57	1817.20
Amount received from Ministry of Coal	3499.00	4000.00
	<u>5438.57</u>	<u>5817.20</u>
Disbursement to various Implementing Agencies :		
Mineral Exploration Corporation Limited	2793.54	2650.79
Geological Survey of India	515.65	458.28
Central Mine Planning & Design Institute Limited	487.33	670.56
Neyveli Lignite Corporation Limited	178.27	0.00
SCCL	32.58	56.75
CMRI	0.00	41.25
Total disbursement	<u>4007.37</u>	<u>3877.63</u>
Closing Balance	<u>1431.20</u>	<u>1939.57</u>

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2008

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

SCHEDULE - N

Annex ure N-2.2

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Opening Balance	8.77	2.42
Receipts from Ministry	1799.00	800.00
	<u>1807.77</u>	<u>802.42</u>
Disbursement to various Implementing Agencies :		
Bharat Coking Coal Limited	1512.00	9.00
Eastern Coalfields Limited	255.00	745.00
Central Mine Planning & Design Institute Limited	37.31	39.65
Total disbursement	<u>1804.31</u>	<u>793.65</u>
Closing Balance	<u>3.46</u>	<u>8.77</u>

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2008

SCHEDULE - N

C I L R & D FUND

Annex ure N-3

	Current Year (Rs. in Lakh)		Previous Year (Rs. in Lakh)
Opening Balance (including disbursement to CMPDIL upto previous Financial Year)	1675.62		1275.83
Amount received during the year from Coal India	1072.44		879.82
Total Receipt	<u>2748.06</u>		<u>2155.65</u>
Disbursement to Implementing Agencies other than CMPDIL during the year :			
Central Coalfields Ltd.	137.00		130.00
IIT, Kharagpur	49.67		146.34
SECL	246.31		0.00
SAIL R&D Organisation	25.00		40.00
Presidency College, Kolkata	0.00		94.80
National Remote Sensing Agency	0.00		<u>68.89</u>
Total disbursement to outside agencies (a)	457.98		480.03
Balance including disbursement to CMPDIL	2290.08		1675.62
Disbursement to CMPDIL (b)			
Upto previous Financial Year	1639.37	1253.28	
During the year	<u>650.26</u>	<u>386.09</u>	<u>1639.37</u>
Total disbursements (a+b)	2747.61		2119.40
 Closing Balance	 0.45		 36.25

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2008

SCHEDULE - N

Grants for Detailed Drilling Work in Non-CIL Blocks

Annex ure N- 4

	Current Year (Rs. in Lakh)		Previous Year (Rs. in Lakh)
Opening Balance	927.95		472.76
Less : Cheques in hand	0.00		<u>0.69</u>
Adjusted Openig Balance	<u>927.95</u>		<u>472.07</u>
Amount received from Ministry of Coal	4000.00		2098.00
Total Receipt	<u>4927.95</u>		<u>2570.07</u>
Disbursement to various Implementing Agencies :			
CMPDI Limited	2401.50		1630.20
Mineral Exploration Corporation Limited	14.70		11.92
	<u>2416.20</u>		<u>1642.12</u>
 Closing Balance	 2511.75		 927.95

SCHEDULE-O

Schedule to Balance Sheet as at 31st March 2008
INTANGIBLE ASSETS(SOFTWARE)

	Amortisation period - 3 years								(RS IN LAKH)	
	COST				AMORTISATION				Net Block	
	OPENING BALANCE AS AT 1.4.2007	ADDITION DURING THE YEAR	ADJUSTMENT FOR DISPOSAL/ DISCARDED OF INTANGIBLE ASSET	TOTAL COST AS AT 31.3.2008	OPENING BALANCE AS AT 1.4.2007	ADDITION FOR THE YEAR	ADJUSTMENT FOR DISPOSAL/ DISCARDED ETC.	TOTAL AMORTISA- TION UPTO 31.03.2008	AS AT 31.3.2008	AS AT 31.3.2007
CMPDIL(software)TOTAL (A)	129.20	28.03	0.00	157.23	97.95	30.05	0.00	128.00	29.23	31.25
PRE (software)TOTAL (B)	88.49	45.66	0.00	134.15	35.44	44.72	0.00	80.16	53.99	53.05
TOTAL SOFTWARE (A+B)	217.69	73.69	0.00	291.38	133.39	74.77	0.00	208.16	83.22	84.30

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2008

SCHEDULE -1

SALE OF SERVICE

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Exploration	9888.20	7787.14
Planning & Design	8917.94	7482.24
Natural Resource Management	789.94	762.73
Total Sales	19596.08	16032.11

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2008

SCHEDULE -2

COAL ISSUED FOR OTHER PURPOSE

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
--	---------------------------------------	--------------------------------

APPLICABLE TO CIL's OTHER SUBSIDIARIES

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2008

SCHEDULE -3

OTHER INCOME

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Interest received		
on Loan to Employees	11.72	39.06
on Bank Deposit	4.46	4.09
others	67.30	13.92
Rent received from outsiders	9.66	14.17
Tender fees	4.82	5.38
Liquidated Damage	23.12	22.09
Rent Vehicles	0.64	0.26
Excess Provision Written Back	171.21	165.71
Others	18.23	19.36
Profit on sale of asset	0.46	
Total	311.62	284.04

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2008

SCHEDULE -4

CONSUMPTION OF STORES

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
POL	331.70	337.58
Stores & spares	677.14	484.70
Other stores & consumable	40.79	34.72
Total	1049.63	857.00

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2008**SCHEDULE - 5****EMPLOYEES REMUNERATION AND BENEFITS**

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Salaries & Wages	10005.17	7511.97
Overtime	141.15	122.88
Incentives	363.06	318.67
Leave encashments	839.17	729.16
Other allowances	383.17	339.83
Contribution to PF(Annex. 1)	1029.89	1020.47
Attendance Bonus	254.20	261.31
Exgratia		
a) Non - Executives	140.71	175.96
b) Executives	49.19	58.23
LTC/LLTC/RRF	320.02	253.66
Pension		
a) Ex NCDG Employees	0.00	0.00
b) Others	42.27	5.97
Gratuity	1026.62	882.24
Workmen Compensation	0.00	2.04
D.L.I.	22.47	21.18
Life Cover Scheme	7.77	8.40
V R S	29.82	32.78
	-----	-----
Total	14654.68	11744.75
Less : Transferred to Social Overhead (Sch - 6)	283.52	293.03
Balance	14371.16	11451.72
	-----	-----

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2008**SCHEDULE - 5****CONTRIBUTION TO PROVIDENT FUNDS****ANNEX URE - 1**

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Coal Mines Provident Fund	988.20	944.66
Coal Mines Family Pension Fund	41.30	75.81
Other Provident Funds	0.39	0.00
	-----	-----
Total	1029.89	1020.47
	-----	-----

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2008

SCHEDULE - 6

SOCIAL OVERHEAD

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Salary Wages Allowances (From Schedule - 5)	283.52	293.03
Free issue of Coal to Employees	38.87	18.92
Medical Facilities		
Medical Reimbursement	272.97	225.12
Medicines & Hospital Expenses	107.85	79.63
Grant to :		
a) Schools	0.41	1.00
b) Sports & Recreations	13.28	8.58
Canteen upkeep	7.08	7.79
Power (from Schedule - 7)	149.87	144.68
Repairs & Maintenance (Transferred from Sch. 8)		
a) Township	126.07	67.23
b) Other Welfare Buildings	51.78	60.27
c) Others (Maintenance of School Bus/Ambulance)	24.85	26.34
Training Expenses		
a) Within Co.	16.47	12.96
b) Outside Co.	0.00	0.00
Depreciation on Social Overhead Assets (Ref : Sch-F/F1)	58.55	61.15
Family Planning Expenses	0.01	0.02
Uniforms / Sticking Charges	6.92	19.28
Other Benefits	87.11	67.49
	1245.61	1093.49
Less ; Recoveries		
House Rent	7.47	8.76
Electricity	20.72	20.64
School bus Charges	1.36	1.82
	29.55	31.22
Balance :	1216.06	1062.27

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2008

SCHEDULE - 7

POWER AND FUEL

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Purchased	343.85	330.13
Sub Total	343.85	330.13
Less : Transferred to		
Social Overhead Sch-6	149.87	144.68
Total	193.98	185.45

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2008

SCHEDULE - 8

REPAIRS

	Current Year (Rs. in Lakh)		Previous Year (Rs. in Lakh)
Office Building	262.31		174.15
Repair & Maintenance Township/Residential Building	177.85		127.50
Plant & Machinery	99.11		77.27
Office Equipment & Furniture	30.84		37.26
Vehicles (Other than Schhool Bus / Ambulance)	60.74		57.26
Repair & Maintenance School Bus/Ambulance	24.85		26.34
Others	2.43		1.52
Sub Total	<u>658.13</u>		<u>501.30</u>
Less : Transferred to Social Overhead Sch-6	202.70	153.84	
Less : Transferred to Misc. Expenses Sch-10	42.55	<u>40.53</u>	194.37
Total	<u>412.88</u>		<u>306.93</u>

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2008

SCHEDULE - 9

CONTRACTUAL EXPENSES

	Current Year (Rs. in Lakh)		Previous Year (Rs. in Lakh)
Contractual Works			
Drilling - MECL	37.06		27.10
Drilling - Others	97.97		95.52
Coal testing	147.09		103.89
Remote Sensing etc.	0.00		40.26
Total	<u>282.12</u>		<u>266.77</u>

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2008

SCHEDULE -10

MISCELLANEOUS EXPENSES

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Traveling		
In country	454.89	333.45
Outside country	40.51	27.19
Printing & Stationery	81.38	80.99
Postage	4.13	2.60
Telephone	40.11	45.57
Advertisement & Publicity		
Advertisement for :		
i) Tender	44.02	28.51
ii) Publicity	1.16	5.02
Freight Charges	1.47	0.10
Subscriptions	5.17	7.79
Security Expenses	236.74	196.06
Hire Charges		
a) Computer	18.97	32.89
b) Others	141.55	112.04
Maintenance of Cars & Jeeps :		
i) Petrol & Diesels	50.21	50.56
ii) Repairs (From Schedule 8)	42.55	40.53
iv) Road Tax	17.51	18.96
v) Insurance	8.63	7.60
Legal Expenses	37.16	9.42
Bank Charges	17.89	22.90
Consultancy Charges (CIL subsidiaries & Other jobs)	24.23	121.56
Auditor's Remuneration		
As Auditor	1.80	1.44
Traveling & Out of Pocket Expenses	2.56	1.54
In other capacity - Tax Audit & others	0.48	0.48
Internal Audit Expenses	8.62	7.48
Rates & Taxes	30.20	26.59
Rent	33.39	26.87
Insurance	1.54	1.46
Lands/crops compensation	0.22	0.25
Others :		
Amortisation of Software Licensing fees	30.68	33.68
Conference & Seminar etc.	21.35	7.35
Tents & Hutments	46.33	51.42
Shifting & Settling Exp.	22.54	23.12
Entertainment	0.11	0.03
Horticulture	4.97	2.40
Bad Debt Written Off	0.00	0.71
Other Expenses	20.87	21.89
Exchange Fluctuation	0.00	0.25
Total	1493.94	1350.70

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2008

SCHEDULE -11

INTEREST

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Coal India Limited Holding Co.	20.37	17.80
Interest on Retirement Pension Fund	0.81	3.54
Interest others	0.39	7.61
Total	<u>21.57</u>	<u>28.95</u>

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2008

SCHEDULE -12

PROVISIONS / WRITE - OFF

	Current Year (Rs. in Lakh)	Previous Year (Rs. in Lakh)
Provision :		
Doubtful debts	54.39	101.88
Doubtful Advances	0.00	24.26
Obsolescence	3.00	0.00
Reduction in value of assets	15.26	0.00
Total	<u>72.65</u>	<u>126.14</u>

SCHEDULE-13

Schedule to Profit & Loss Account for the year ended 31 st March 2008

PRIOR PERIOD ADJUSTMENTS *

	Current Year (Rs in Lakh)	Previous Year (Rs in Lakh)
<u>DEBIT :</u>		
<u>Employees Remuneration & Benefits :</u>		
Salary, Wages & Allowances	<u>28.49</u>	<u>20.08</u>
Repairs	0.00	1.61
Rates & Taxes	0.00	0.15
Depreciation	0.00	3.67
Consumption of Stores / Chemicals	0.00	0.07
Interest for Income Tax	0.00	37.38
Contractual Payments	0.00	2.23
Power & Fuel	0.00	7.40
Loss on Disposal/Discard	0.00	0.89
Miscellaneous Expenses	0.00	4.09
Sale of Service	<u>51.25</u>	<u>0.00</u>
TOTAL DEBIT	79.74	77.57
 <u>CREDIT :</u>		
<u>Employees Remuneration & Benefits :</u>		
a) Salary, Wages & Allowances	0.00	21.60
b) Ex-gratia	<u>0.00</u>	<u>1.02</u>
Director's T.A.	0.00	0.41
Repair	0.00	0.11
Misc. Expenditure	0.00	0.11
Other Receipts	0.00	0.28
Consumption of stores & Spares	23.02	2.47
Contractual Payments	0.00	3.79
<u>Interest :</u>		
Others	0.00	0.34
Sale of Services	<u>0.00</u>	<u>34.12</u>
TOTAL CREDIT	<u>23.02</u>	<u>64.25</u>
NET CREDIT (-)/DEBIT (+)	<u>56.72</u>	<u>13.32</u>

* Refer Para 13.0 of Schedule 14.

SCHEDULE – 14
ACCOUNTING POLICY FOR 2007-08

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 amortized in three years.

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 2007-08

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. 401.67 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.
- 1.1.5 CPTI Office Building at Rajrappa not in use at present is likely to be utilised gainfully in future.

1.2 Depreciation

- 1.2.1 Special Rates
- 1.2.2 The Earth Science Museum: 5.15 %.
- 1.2.3 All Plants & Equipment at Drilling sites; Scanner, Equipment and instruments used in the Laboratories for analysis work and all models of photocopiers : 11.31 %
- 1.2.4. High Volume Samplers and Respiratory Dust .
- | | |
|------------|---------|
| Samplers : | 33.33 % |
| Telecom : | 15.83 % |
- 1.2.5 Buildings constructed on leasehold land and land belonging to other subsidiaries of CIL : at the rate applicable to buildings on freehold land.

2.0 CAPITAL WORK-IN-PROGRESS :

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

3.0 STOCK OF STORES & SPARE PARTS

3.1 Machine-specific spares are capitalized along with the machines .There are no spares being machine- specific and of infrequent use which are to be capitalized in terms of Accounting Standard (AS) 2 read with AS 10.

3.2 The provision for non-moving items have been increased by Rs. 3.00 Lakhs from Rs 40.34 Lakhs to Rs 43.34 Lakhs on account of no 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 31/3/2008. The agreed Current Account balances with the CIL Subsidiaries as on 31/3/2008 were transferred to CIL Current Account in the month of April, 2008. 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 31/3/2008 is charged to Subsidiary Suspense Account.

4.1.2 Sundry Debtors include Rs.18100.73 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. Balances upto 01/4/1993 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 barring a few specific cases .

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 31/03/2008 has not been obtained.

4.2. Others

Income tax advance of Rs. 771.54 lakhs includes Fringe Benefit Tax of Rs. 237.47 lakhs and payments under protest against assessments for the years upto Assessment Year 2005-06. Income tax provision of Rs 1490.11 includes provision relating to Assessment for the years upto Assessment Year 2008-09.

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 31.03.2008 have been reconciled.

5.2. Liabilities under Coal Mines Pension Scheme

5.2.1 Current Liabilities include Rs. 35.29 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, 2008 but remitted in April, 2008.

5.2.2 There is also a liability for Rs. 23.54 lakhs payable to the 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 62.75 lakhs is held in Fixed Deposits with Bank.

5.3. Others

5.3.1 The liability for contractual drilling is provided on the basis of 100% value of meterage drilled during the year less payments made against such drilling.

5.3.2 Provision of Rs. 1030.61 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. 1119.50 Lakhs in respect of adhoc adjustable advance payable to executives are included in employees remuneration and benefits under current liabilities and provisions.

5.3.3 Gratuity for the year has been considered at incremental liability plus gratuity actually accruing in the year as per the recommendation of the actuary.

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 5.12 lakhs (Previous Year 1.73 lakhs) have been reported during the year. Most of the items covered under the reported thefts are charged off items and as such provision against such losses in the accounts has not been made.

7.0 DIRECTORS' REMUNERATION

		Rs in lakh	
		Current Year <u>2007-2008</u>	Previous Year <u>2006-2007</u>
(i)	Salary & Allowances including LTC/Leave Encashment	27.95	30.54
(ii)	Provident Fund	2.83	3.56
(iii)	Medical Expenses	2.18	0.58
(iv)	Value of Perquisites	0.00	0.00
(v)	Gratuity Paid	10.50	4.19

8.0 EARNINGS, EXPENDITURE ETC. IN FOREIGN CURRENCY

8.1 Expenditure in Foreign Currency

		Rs in lakh	
		Current Year <u>2007-2008</u>	Previous Year <u>2006-2007</u>
(i)	Foreign training /tour, books & others	11.16	11.51
(ii)	Consultancy fee	0.00	0.00
	TOTAL	<u>11.16</u>	<u>11.51</u>

8.2 Value of Imports Calculated on CIF Basis.

		Rs in lakh	
		Current Year <u>2007-2008</u>	Previous Year <u>2006-2007</u>
(i)	Capital Goods	141.71	15.67
(ii)	Spares & Components	<u>0.00</u>	<u>5.28</u>
	TOTAL	<u>141.71</u>	<u>20.95</u>

8.3 Earnings in Foreign Exchange.

		Rs. in Lakh	
		Current Year <u>2007-08</u>	Previous year <u>2006-07</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>2007-08</u>		Previous year <u>2006-07</u>	
	Value	Percentage	Value	Per centage
Imported	0.00	0.00	0.68	0.08
Indigenous	1049.63	100.00	856.32	99.92
<u>Total</u>	<u>1049.63</u>	<u>100.00</u>	<u>857.00</u>	<u>100.00</u>

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 31/03/2008 is Rs. 25.62 lakhs. (Previous year Rs. 20.75 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 1402.97 Lakhs (Previous Year Rs .280.61 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 NIL)

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.958.59 lakhs (Previous Year Rs. 788.87 lakhs).

10.2 LC opened pending maturity during the year Rs nil lakhs (Previous year Rs 95.08 lakhs).

10.3. Estimated value of contracts remaining to be executed on capital account and not provided for amounts to Rs. 392.84 lakhs (previous year Rs 382.04 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 counter guarantee of Rs.Nil Lakhs (Previous Year Rs. 16.70 Lakhs) issued by the Company in favour of Bank for issuing Bank Guarantee on behalf of the Company.

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 31.03.2008 has been computed at Rs. 2670.01 Lakhs and Rs. 620.95 lakhs respectively. Net Deferred tax as at 31/03/2008 comprises of the following :

	(Rs in lakhs)	
	2007 – 08 -----	2006 - 07 -----
A. Deferred tax Asset		
VRS	25.73	29.65
Provision for obsolescence/ Non - moving	31.50	30.18
Provision for doubtful debts	106.39	87.04
Provision for Leave Encashment Gatuity, VRS	<u>2506.39</u>	<u>2016.68</u>
Total (A)	2670.01	2163.55
B Deferred Tax Liability		
Difference in WDV of assets	611.01	596.34
Difference in WDV of the Software	<u>9.94</u>	<u>1.08</u>
Total (B)	620.95	597.42
C Deferred Tax Asset (Net)	2049.06	1566.13

12.0 WRITE BACK

12.1 Stale cheques, which are more than three years old at the end of the financial year, are written back except in certain cases

12.2 Earnest Money and Security Deposit which are more than five years old at the end of the financial year are written back except certain cases involving Court cases etc.

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

		Rs. In Lakhs	
Sl	Particulars	Amount involved	Impact on Profits
(i)	The charges or credits of amount below Rs. 5 lakhs in each case arising in current year as a result of errors and omissions of earlier years has been treated as current year's charges/income	14.34 (Dr)	NIL
(ii)	Provision of liability in respect of Employees terminal benefits for LTS/LLTC and others as per actuarial Advice	169.43 (Dr)	

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)
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
Dated : 7th June , 2008

CASH FLOW STATEMENT FOR THE YEAR ENDING 31st MARCH, 2008

PARTICULARS		2007-08	2006-07
CASH FLOW FROM OPERATING ACTIVITIES :			
Net Profit before taxation and extraordinary Items		556.69	460.60
PP Adj (Dr)	-	56.72	13.32
PP Adj (CR)	+	0.00	0.00
Provision - 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
Adjusted Net Profit		330.54	447.28
Adjustments for :-			
Depreciation	+	530.45	442.86
Profit on Sale of Assets	-	0.46	0.00
Loss on Sale of Assets	+	0.00	0.89
Amortisation of Intangible Assets	+	74.77	60.60
Foreign Exchange Fluction Gain	-	0.00	0.00
Foreign Exchange Fluction Loss	+	0.00	0.25
Interest Income	-	83.48	57.07
Interest Expenses	+	21.57	28.95
Operating Profit before Working Capital Changes		873.39	923.76
Increase in Sundry Debtors	-	7609.41	1100.63
Decrease in Sundry Debtors	+	0.00	0.00
Increase in Loans & Advances (Excl Incone Tax & Wealth Tax)	-	0.00	3757.56
Decrease in Loans & Advances (Excl Incone Tax & Wealth Tax)	+	2112.46	0.00
Increase in Other Current Assets	-	57.07	5.67
Decrease in Other Current Assets	+	0.00	0.00
Increase In Inventories	-	3.16	104.52
Decrease In Inventories	+	0.00	0.00
Increase in Sundry Creditors (Current Liab & Prov excl. Income Tax & Wealth Tax)	+	10899.44	4777.77
Dcrease in Sundry Creditors (Current Liab & Prov excl. Income Tax & Wealth Tax)	-	0.00	0.00
Cash Generated From Operation		6215.65	733.15

Continued.....

CASH FLOW STATEMENT FOR THE YEAR ENDING 31st MARCH, 2008

(Contd.....)

Amt. Rs in Lakh

PARTICULARS		2007-08	2006-07
Cash Generated From Operation		6215.65	733.15
Income Tax Paid	-	1477.96	575.20
Wealth Tax Paid	-	0.00	0.03
Cash Flow before Extraordinary Items		4737.69	157.92
Proceeds from Earthquake disaster settlement			
Net cash from Operating Activities		4737.69	157.92
CASH FLOW FROM INVESTING ACTIVITIES :			
Purchase of Fixed Assets (incl.WIP)	-	808.57	500.25
Proceeds from Sale of Equipment	+	0.60	1.50
Interest Received	+	83.48	57.07
Net cash from Investing Activities		-724.49	-441.68
CASH FLOW FROM FINANCING ACTIVITIES :			
Proceeds from Long-term borrowings	+	2.57	1.36
Decrease in Long-term borrowings	-	0.00	0.00
Govt Grants	+	-28.38	10.32
Foreign Exchange Fluctuation Gain	+	0.00	0.00
Foreign Exchange Fluctuation Loss	-	0.00	0.25
Interest Paid	-	21.57	28.95
Dividend Paid	-	0.00	0.00
Net cash from Financing Activities		-47.38	-17.52
NET INCREASE / DECREASE IN CASH AND CASH EQUIVALENTS		3965.82	-301.28
ADD : CASH & CASH EQUIVALENTS AT THE BEGINNING OF THE PERIOD		2586.74	2888.02
CASH & CASH EQUIVALENTS AT THE END OF THE PERIOD		6552.56	2586.74

**INFORMATION AS REQUIRED BY PART - IV OF SCHEDULE VI
TO THE COMPANIES ACT, 1956
Balance Sheet Abstract and Company's General Business Profile
03 Jharkhand (State Code)**

I. Registration Details ;

Registration No. : -

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

 State Code : -

0	3
---	---

Balance Sheet Date

3	1
---	---

0	3
---	---

2	0	0	8
---	---	---	---

Date Month Year

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

Public Issue

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

 Rights Issue

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

Bonus Issue

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

 Private Placement

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

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

Total Liabilities

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

 Total Assets

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

Sources of Funds : Paid-up Capital

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

 Reserve & Surplus

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

Secured Loans

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

 Unsecured Loans

		1	8	0	9	4
--	--	---	---	---	---	---

Application of Funds: Net Fixed Assets

	6	1	8	6	9	7
--	---	---	---	---	---	---

 Investments

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

Net Current Assets

(-)	1	7	5	1	1	8
-----	---	---	---	---	---	---

 Misc. Expenditure

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

Accumulated losses

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

 Deferred Tax

	2	0	4	9	0	6
--	---	---	---	---	---	---

Intangible Assets

			8	3	2	2
--	--	--	---	---	---	---

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

Turnover							Total Expenditure						
1	9	5	9	6	0	8	1	9	0	9	6	1	1
+ / -		Profit/Loss before Tax					+ / -		Profit/Loss after Tax				
+		4	9	9	9	7	+		2	8	5	1	1

(+ for Profit , - for Loss)

Earning per share in Rs.						Dividend	
			N	I	L	N	A

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

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

Product
Description M I N E P L A N N I N G &
D E S I G N

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

Product
Description G E O L O G Y & D R I L L -
I N G

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

Product
Description N A T U R A L R E S O U R C E
M A N A G E M E N T A N D
F I E L D S E R V I C E S

Signed for Schedules A to O and 1 to 15

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

sd/-
Udayan Chakrabarti
Company Secretary

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

sd/-
A. K. Debnath
Director

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

ANNEXURE FORMING PART OF DIRECTORS' REPORT FOR THE YEAR ENDED 31.03.2008
 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 st Mar 2008 (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 -----