

# ANNUAL REPORT & ACCOUNTS

2004-2005



**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**  
(A Subsidiary of Coal India Limited)

**GONDWANA PLACE : KANKE ROAD**  
**RANCHI - 834 008**

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**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**MANAGEMENT DURING 2004-2005**

**FULL - TIME**

|    |                      |   |                                      |
|----|----------------------|---|--------------------------------------|
| 1. | Shri M. N. Jha       | : | CMD (Upto 31. 12. 2004)              |
| 2. | Shri S. Chaudhuri    | : | CMD (Addl. Charge From 01. 01. 2005) |
| 3. | Shri S. L. Soni      | : | CMD (From 09. 03. 2005)              |
| 4. | Shri G. S. Chugh     | : | Director                             |
| 5. | Shri B. Bhattacharya | : | Director (Upto 04. 02. 2005)         |
|    |                      | : | Director (From 06. 05. 2004)         |

**PART - TIME**

|     |                      |   |                                              |
|-----|----------------------|---|----------------------------------------------|
| 6.  | Shri Pradeep Kumar   | : | Director (From 15. 09. 2004)                 |
| 7.  | Shri K. P. Varma     | : | Director (Upto 31. 01. 2005)                 |
| 8.  | Prof. A. K. Ghose    | : | Director                                     |
| 9.  | Shri Abdul Kalam     | : | Director (Upto 14. 06. 2004)                 |
| 10. | Shri M. K. Sinha     | : | Director (Upto 30. 11. 2004)                 |
| 11. | Shri Md. Salim Uddin | : | Director (From 27. 01. 2005 to 15. 03. 2005) |
| 12. | Shri Sanjiv Mittal   | : | Director (From 02. 03. 2005)                 |

**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  
State Bank of Indore  
Central Bank of India  
UCO Bank

**AUDITORS** : M/s S. K. Basu & Co.  
Chartered Accountants  
Kolkata.

**REGISTERED OFFICE** : Gondwana Place, Kanke Road,  
Ranchi - 834 008  
Jharkhand, India

**PRESENT MANAGEMENT**

**FULL - TIME**

|    |                      |   |                                |
|----|----------------------|---|--------------------------------|
| 1. | Shri S. Chaudhuri    | : | Chairman cum Managing Director |
| 2. | Shri S. L. Soni      | : | Director                       |
| 3. | Shri B. Bhattacharya | : | Director                       |

**PART - TIME**

|    |                    |   |          |
|----|--------------------|---|----------|
| 4. | Shri Pradeep Kumar | : | Director |
| 5. | Prof. A. K. Ghose  | : | Director |
| 6. | Shri Lakshman Jha  | : | Director |
| 7. | Shri Sanjiv Mittal | : | Director |

## NOTICE FOR 30<sup>TH</sup> ANNUAL GENERAL MEETING

Ref. No. CS/AGM-30/2005/5619

Dated : 18.08.2005

Notice is hereby given to all the shareholders of Central Mine Planning & Design Institute Limited that the 30<sup>th</sup> Annual General Meeting of the Company will be held on Saturday the 27<sup>th</sup> August, 2005 at 3.30 P.M. at the Registered Office of the Company, Gondwana Place, Kanke Road, Ranchi to transact the following business :-

### 1. Adoption of the Annual Accounts :

To receive and adopt the Balance Sheet as on 31st March 2005, 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 2004-05.

### 3. Fixation of remuneration to Auditors for the year 2005-06

The shareholders may pass the following resolutions with or without modification

"Resolved that the remuneration payable to Statutory Auditors for the financial year 2005-06 is hereby recommended at Rs. 82,500/- plus out of pocket expenses towards travelling, boarding, lodging etc. as recommended by the Board in its 136<sup>th</sup> Meeting held on 21.06.2005."

### 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 Shri Lakshman Jha 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 Shri Pradeep Kumar 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 Shri Sanjiv Mittal 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 Prof. A. K. Ghose who retires in terms of Article 34(1)(e)(iii) of the Articles of Association of the Company and is eligible for re-appointment.

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

Sd/-

(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 members and Auditors of the Company.

## DIRECTORS' REPORT

To  
The Shareholders  
Gentlemen,

Your Directors have great pleasure in presenting the 30<sup>th</sup> Annual Report on the working of your Company along with the Accounts for the year ended 31st March, 2005 and Auditors' Report thereon.

Coal Production during 2004-05 in India was 382 Mt. Out of which, Coal India Ltd. (CIL), the holding company of CMPDI, contributed 323 Mt. Being an in-house consulting subsidiary, CMPDI continued to provide its specialised consulting services to CIL & its coal producing subsidiaries. Further, CMPDI also continued to render its specialised services to other clients viz. SCCL, TISCO, NTPC, MOIL, CPCB, UCIL, etc. Major highlights of performance of CMPDI during the year are :

- Exploratory drilling for 'proving' coal reserves in 81 blocks spread over 20 coalfields in India covering 2,01,649 m of drilling, was carried out against the target of 1,99,000m.
- 14 Geological Reports based on coal exploration data were prepared which estimated 4.66 Billion Tonnes (Bt) of in-situ coal reserves comprising of 2.5 Bt- 'Proved' & 2.16 Bt- 'Indicated' category.
- 20 Mining Project Reports / Revised Project Reports / Expansion Project Reports were prepared for an aggregate production capacity of about 52 Mty.
- 59 Environment Management Plans (EMPs) for coal mining projects were prepared including 26 EMPS for post-facto environmental clearance for incremental production.
- 30 Outside-CIL Consultancy jobs worth of Rs.5.64 crores were procured.
- "Vision Coal 2025" Draft document was prepared on behalf of MoC and submitted to CIL / MoC.
- Project on "e-information centre on coal and lignite" under R&D programme of Coal India Ltd. has been started during the month of February 2004 and is under progress.
- CMPDI as a co-implementing agency along with BCCL continued to provide its services for United Nations Development Programme (UNDP)/ Global Environment Facility (GEF) - Govt. of India (GoI) CBM Project "Coalbed Methane Recovery and Commercial Utilisation".
- Delineation of seven prospective CBM blocks and preparation of Data Package thereof for Directorate General of Hydrocarbons (DGH) for 3rd Round of bidding by the Govt. of India is under progress.
- CMPDI as the implementing agency on behalf of CIL, for Collaborative development of CBM prospects in Jharia & Raniganj coalfields by the consortium of CIL & ONGC, has taken up drilling of slim hole in Jharia Coalfield.

## PART : A

## 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 dedicated 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). HQ continued to provide planning & design services to NEC & non-CIL clients

and also handled specialised assignments for both CIL & non-CIL clients.

#### MAJOR SERVICES OFFERED

- **Geological Exploration & Drilling**

Detailed geological exploration of regionally explored blocks with a view to generate reliable geological and geo-engineering data and assess in-situ coal reserve for preparation of mining project report; geophysical survey through multi-probe geophysical logging; high resolution shallow seismic survey; hydrogeological 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, captive thermal power stations 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**
- **Environmental Services**
- **Information Technology**
- **Human Resource Development**
- **Specialised Services**
  - ✓ Geomatics
  - ✓ 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
- **Services to MoC for allocation of Captive Mining Blocks**
  - During the year CMPDI provided assistance to the Ministry of Coal (MoC) in scrutinizing the proposals for allocation of captive mining blocks forwarded by MoC. The exercise included examination of the boundaries of blocks, assessment of extractable reserves and indicative mine capacities.
- Your Company has also been and is actively involved in the identification, critical examination and evaluation of all bilateral projects for transfer of various technologies for coal mining, so as to improve the production, productivity and conservation in CIL mines.

#### Financial Working Results

During the year under review your Company earned a net profit of Rs.102.39 Lakhs (after tax). The working results of the company are given below :

|                                             | (Rs. In lakhs) |
|---------------------------------------------|----------------|
| Sales                                       | 15,114.98      |
| Less: Total Net Expenditure                 | 14,701.08      |
| Gross Profit                                | 413.90         |
| Less: Depreciation                          | 202.41         |
| Interest                                    | 21.18          |
| Provision                                   | 16.91          |
| Profit for the year before<br>PP Adj. & Tax | 240.50         |
| Less: Prior Period Adjustment               | 0.38           |
| Profit before Taxation                      | 173.40         |
| Less: Provision for Taxation                | 173.02         |
| Add: Provision for deferred Tax             | 259.00         |
| Profit for the year after Tax               | 188.37         |
|                                             | 102.39         |

### Opportunities

The Indian Coal Mining economy is generally forecast to grow by 5-5.5% per annum over the next two decades commensurate with the national GDP growth of 7% per annum. Per capita energy consumption in India remains amongst the lowest in the world. Ambitious energy augmentation plan of CEA, has put demand of domestic coal to a level of 676 million tonnes by the year 2011-12 i.e. terminal year of XI Plan from the level of 473 million tonnes during 2006-07 i.e. terminal year of X Plan.

CIL is also contemplating to launch a special purpose vehicle (SPV) " Coal Videsh" to accrete overseas coking coal and high-grade non-coking coal reserves and carryout overseas mining operations and export mined out coal back to India to bridge the gap between demand & supply of domestic market.

CMPDI intends to leverage its market leadership in exploration, mine planning and environment management, and demonstrated strength e.g. conceptualisation and planning of large mining projects, technology selection / absorption, financial flexibility, large in-house pool of intellectual capital

resources, to effectively participate in these opportunities of domestic coal mining market and overseas operations of emerging SPV- "Coal Videsh".

### Challenges

CMPDI, being an in-house consulting subsidiary company of CIL, continue to sale its services to CIL and its seven coal producing subsidiaries.

With the gradual opening of Coal Sector, CMPDI shall be required to face the normal market competition from the domestic as well as international companies who are expected to make foray in the fields of Mine Planning & Design consulting activities.

### Outlook

Domestic coal mining companies are to get themselves in readiness for contributing higher production from the present level to narrow the gap between demand and supply. Except for metallurgical and low ash non-coking coal, there are enough reserves of coal in the country to meet the requirement for next 50 years or so. With the continuing coal exploration programme, the reserve potential will further improve in years to come.

CMPDI with its proven experience in planning & design of opencast projects is all set to reorient its consulting services for accepting such challenges. Besides, planning of large opencast projects and mass production underground mines, there is a need to introduce Information & Communication Technology (I&CT) viz. GIS & GPS based OITDS for improving HEMM utilization and productivity. CMPDI is gearing up its I&CT expertise not only for routinising geological modelling & mine planning activities through high-end computer software but also to operationalise I&CT applications in mine surveying, slope studies, remote sensing, blast hole design, strata control studies, roof support design, CHP design, creation of GIS formatted mine data base, etc.

**PART : B****ANNUAL PERFORMANCE OVERVIEW****1.0 Geological Exploration & Drilling**

The coal exploration activities were spread in CIL, non-CIL and promotional 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 under the MoC scheme of Detailed Drilling in Non-CIL Blocks in X Plan. According to the guidelines of Ministry of Coal, all exploration in the captive blocks would be done by CMPDI or under its direct supervision. No allocation of a captive block will be done unless explored in detail. Exploration in Non-CIL blocks has been taken up to enrich the list of Captive Mining Blocks offered for allotment. CMPDI also took up Promotional Drilling for Coal within the command area of CIL to gather information of new coal blocks. The work was taken up under the MoC scheme of Promotional Exploration for Coal & Lignite in X Plan.

**1.1 Drilling Performance**

**1.1.1** The departmental resources of CMPDI were deployed for exploration in CIL/Non-CIL/ Promotional blocks. Apart from it, Directorate of Geology & Mining of the State Govts. of MP, Chhattisgarh and Orissa were allotted nominal quantum of drilling in CIL blocks as per routine. For priority exploration of two captive mining blocks, services of MECL were utilized for nominal quantum of exploratory drilling.

**1.1.2** During the year under review, CMPDI and its contractual agencies took up exploratory drilling in 81 blocks spread over 20 coalfields. The coalfields along with number of blocks (given within parenthesis) are Raniganj (10), Rajmahal (1), Bramhani (1), Jharia (1), North

Karanpura (8), Auranga (1), Kamptee (2), Umrer (1), Wardha (10), Pathakhera (1), Pench Kanhan (4), Sohagpur (15), Mand Raigarh (4), Korba (3), Bisrampur (2), Chirimiri (1), Singrauli Moher Basin (2), Talcher (9), Ib Valley (4) and Makum (1). Out of 81 blocks, 15 were Non-CIL/Captive blocks, 5 Promotional blocks and 61 CIL blocks. Exploration in CIL blocks was funded by subsidiaries of CIL while Ministry of Coal funded the exploration in Non-CIL / Promotional blocks.

**1.1.3** The overall performance of exploratory drilling by CMPDI and its contractual agencies during 2004-2005 is given below :

| Agency      | Annual Target<br>2004-05BE<br>(m) | Agency-wise Performance of Exploratory Drilling during<br>2004-05 |                 |            | Achieved<br>2003-04<br>(m) |
|-------------|-----------------------------------|-------------------------------------------------------------------|-----------------|------------|----------------------------|
|             |                                   | Achieved<br>(m)                                                   | Achieved<br>(%) | + / -<br>m |                            |
|             |                                   |                                                                   |                 |            |                            |
| CMPDI       | 1,92,000                          | 1,82,621                                                          | 95%             | -9,379     | 1,71,638                   |
| MECL        | Unscheduled                       | 10,834                                                            | -               | +10,834    | 21,759                     |
| State Govts | 7,000                             | 8,194                                                             | 117%            | +1,194     | 9,788                      |
| Total       | 1,99,000                          | 2,01,649                                                          | 101%            | +2,649     | 2,03,165                   |

Out of the 1,82,621m of drilling by CMPDI, 1,17,674m has been drilled in CIL blocks, 48,059m in Non-CIL/Captive Mining Blocks and 16,888m in Promotional blocks. MECL has carried out drilling in two priority captive mining blocks and State Governments have drilled in CIL blocks only.

It can be seen from the table above that 1,99,000 meter of drilling was targeted in 2004-05 and the actual achievement is 2,01,649m (101%). Out of it, CMPDI has achieved 95% of its annual target while the State Govts. (MP, Chhattisgarh and Orissa) have achieved 117% of the annual target. The shortfall in CMPDI drilling was mainly due to adverse law and order conditions

in North Eastern Region & CCL areas and bad formations encountered in North Eastern Region & isolated patch of BCCL area. However, the performance of CMPDI was better than previous year by 10,983m with a 6.4% growth. CMPDI executed its exploration programme through 21 exploration camps with 48 drilling rigs.

#### 1.1.4 Exploration In Non-CIL / Captive Blocks:

During the year 2004-05, a total of 58,893m of exploratory drilling have been carried out in 15 Non-CIL/Captive Mining blocks spread in 6 coalfields. Out of it, CMPDI has drilled 48,059m while MECL has carried out 10,834m of drilling. To recover the cost of exploration in additional captive mining blocks required by MoC on priority basis, from the scheme of "Detailed Exploratory Drilling in Non-CIL blocks", CMPDI has submitted a Revised Cost Estimate of Rs.93.84 crores (Rs.70.66 crores original) to MoC. The approval of RCE is awaited. The agency, coalfield and block-wise achievement of drilling is given below :

| Agency / Command         | Coalfield    | Blocks           | Drilling in 2004-05 (m) |
|--------------------------|--------------|------------------|-------------------------|
| <b>Area</b>              |              |                  |                         |
| <b>CMPDI :</b>           |              |                  |                         |
|                          |              |                  |                         |
| CCL                      | N. Karanpura | Pakri Barwadih*# | 2543                    |
|                          |              | Rohne*#          | 9110                    |
|                          |              | Routpara         | 1802                    |
|                          |              | Dumri*           | 352                     |
| SECL                     | Sohagpur     | Batus            | 1629                    |
|                          |              | Dhanpara         | 3929                    |
|                          |              | Manpura          | 3938                    |
|                          | Mand Raigarh | Palma            | 15717                   |
|                          |              | Gare-IVI6*#      | 1080                    |
|                          |              | Gare-IVI8*#      | 1789                    |
|                          |              | Gare Sector-III* | 4680                    |
| MCL                      | Talcher      | Patrapada*#      | 1340                    |
|                          |              | Radhikapur*#     | 149                     |
| <b>Sub-total CMPDI :</b> |              |                  | <b>48059</b>            |

## MECL

|                                                    |           |          |              |
|----------------------------------------------------|-----------|----------|--------------|
| CCL                                                | Auranga   | Tubesi*# | 3011         |
| MCL                                                | Ib Valley | Bijhan*# | 7823         |
| <b>Sub-total MECL :</b>                            |           |          | <b>10834</b> |
| <b>Grand Total of Drilling in Non-CIL blocks :</b> |           |          | <b>58893</b> |

\* Additional captive mining blocks

# Drilling concluded; rest of the blocks will continue.

#### 1.1.5 Promotional Exploration by CMPDI :

In 2004-05, CMPDI continued the Promotional Drilling in Madheri North West block of Wardha Valley CF and Area Between Tirap Colliery & Makum River of Makum coalfield. Apart from it, Ashoka Karkatta West block in North Karanpura coalfield, Banbahera block in Tawa Valley CF and Ramachandi block in Talcher coalfield have also been taken up under the MoC scheme of Promotional Exploration in Coal & Lignite in X Plan. In total, CMPDI has carried out 16,888 meter of Promotional Drilling in 2004-05 as detailed below :

| Agency / Company                           | Coalfield       | Blocks                                      | Drilling in 2004-05 (m) |
|--------------------------------------------|-----------------|---------------------------------------------|-------------------------|
| <b>Command Area</b>                        |                 |                                             |                         |
| <b>CMPDI :</b>                             |                 |                                             |                         |
| CCL                                        | North Karanpura | Ashok Karkatta West                         | 8580                    |
|                                            |                 |                                             |                         |
| WCL                                        | Tawa Valley     | Banbahera                                   | 2836                    |
|                                            |                 | Wardha Valley                               | Madheri North West*#    |
|                                            |                 |                                             | 1227                    |
| MCL                                        | Talcher         | Ramachandi                                  | 4029                    |
|                                            |                 |                                             |                         |
| NEC                                        | Makum           | Area Between Tirap Colliery & Makum River*# | 216                     |
| <b>Total Promotional Drilling by CMPDI</b> |                 |                                             | <b>16888</b>            |

# Drilling concluded; rest of the blocks will continue.

**Note :** Departmental drilling in Makum coalfield of Assam has been discontinued due to the unfavorable conditions.

**1.2 Geological Reports :**

1.2.1 A total of 14 Geological Reports on coal exploration have been submitted in 2004-05. Out of it, 2 reports are on promotional exploration blocks and 8 are on Non-CIL/Captive Mining blocks.

1.2.2 The 14 Geological Reports have estimated 4.66 Billion Tonnes of in-situ coal reserves. Out of it, 2.5 Bt of reserves are under 'Proved' category and 2.16 Bt is in 'Indicated' category. The 'Indicated' category coal reserve includes 1.21 Bt of coal reserves estimated from two promotional exploration Geological Reports and 0.82 Bt from Pakri Banwadih GR, a Captive Mining block.

**1.3 Geophysical Surveys :**

1.3.1 **Geophysical Logging :** A total of 70 boreholes were subject to multi-parameter geophysical logging by CMPDI. About 14,235 m of geophysical logging had been carried out in CIL, Non-CIL and Promotional blocks. Apart from it, MECL has also carried out 2,830m of Geophysical Logging in an identified captive mining block.

1.3.2 **Surface Geophysical Surveys :** Electrical Resistivity and Magnetic surveys have been carried out by CMPDI in CIL, Non-CIL and Promotional blocks for delineation of incrops of coal seams and assessment of geometry of block. A total of 181 Line Km. of Resistivity profiling, 84 Vertical Electrical Sounding, 5428 stations of Magnetic Survey, 26.6 Line Km. of HRSS survey and 1.15 line km of Seismic Refraction Survey have been carried out.

**1.4 Geosystem :**

1.4.1 Final report on 'Coal Resources in CIL Mines/ blocks and production needs' and a report on OC & UG geological reserves and production details were submitted.

1.4.2 The project on 'Integrated Coal Resources Information System' under Promotional

Exploration scheme of X plan was approved by MoC in Sept. 2004. Tender for borehole data capture from all RIs of CMPDI and SCCL was finalized and work awarded. Technical evaluation for Software & Hardware procurement has been completed and tender finalisation is under process. NIT preparation for map data capture is under process. Collection, compilation of basic data by identified team of RIs and basic data entry, scanning, digitization of various report plans of NE region by HQ team is under progress. The work on Database design is also under progress.

**1.5 Hydrogeology :**

1.5.1 A Hydrogeological study on impact assessment of ash-haul-back from NTPC power stations to abandoned Gorbi Mine of NCL has been completed and final report submitted.

1.5.2 An advance dewatering scheme for Matasukh and Kasnau lignite mines of RSMML, Rajasthan has been prepared and submitted.

1.5.3 Hydrogeological studies for 31 numbers of mining projects in ECL, BCCL, CCL, WCL, SECL and NCL areas have been completed and 'Groundwater Clearance Application' for each project prepared for submission to CGWA, as per X Plan Road Map for EMP clearance.

1.5.4 Hydrogeological Studies in 6 project areas of WCL and one project of SECL have been completed for production support/project report preparation.

1.5.5 Short-term hydrogeological studies for water supply in various CCL/SECL areas have been completed. Studies have also been carried out to estimate mine-inflow/dewatering in Churi mine of CCL. Mine fissure studies in Bhatgaon UG mine of SECL and other studies in Kalyaneshwari project of BCCL is under progress.

## 1.6 COAL BED METHANE (CBM)

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

The demonstration project "Coalbed Methane Recovery & Commercial Utilisation" has been approved by the Government of India on 15.09.99, under the S&T plan of Ministry of Coal at an estimated cost of Rs.76.85 crores. The project is being funded jointly by the Global Environment Facility (GEF)/ United Nations Development Programme (UNDP) and Govt. of India (GoI). The approved project duration is of 5 years. The project is under implementation w.e.f 15.9.99 jointly by Central Mine Planning & Design Institute Ltd. (CMPDI) and Bharat Coking Coal Ltd (BCCL) as the implementing agencies, on behalf of the Ministry of Coal at Moonidih and Sudamidih mines of BCCL in Jharia coalfield.

During the year 2004-05, following activities have been undertaken or are in progress:

- i) **International CBM recovery Equipment procurement under UNIDO :** All the major equipment packages for surface drilling under procurement by UNIDO have arrived and the Surface drilling is likely to commence in the end of first quarter of 2005-06. The major equipment packages for underground drilling have been ordered and the Horizontal Long hole Drill is likely to be delivered in Nov'05. One package i.e. Steering Tool for the Long hole Drill is under evaluation. There has been delay in procurement of various equipment packages due to number of re-tendering by UNIDO, which has resulted in project time over run.
- ii) **Laboratory Equipment under procurement by CMRI :** Two of the laboratory equipment that have been installed and commissioned at CMRI, at the project

cost, are Field Desorption Apparatus and Gas Chromatography System upgrade. Procurement of two other laboratory equipment i.e. Adsorption Isotherm Apparatus upgrade and Mobile Field Desorption Laboratory, are in progress.

III)

**Training/Study Tours abroad :** Following two trainings/study tours have been undertaken during the year :

- a) Vertical Drilling Rig study tour at Odessa, Texas, USA at the premises of supplier- M/s Crown Energy Technologies, was undertaken by six officials from BCCL and CMPDI.
- b) Four member High level Study tour to USA under the leadership of Addl. Secretary (Coal)/National Project Director was undertaken.

iv)

**Fund Transfer to UNIDO for procurement of International CBM recovery equipment :** With the approval of Ministry of Coal, the transfer of 1.030 million USD was made from the GoI(Cash) contribution to the project. This was to bridge the Gap in the International equipment budget-line, under control of UNIDO, for procurement of Underground Packages.

v)

**Revised Cost Estimates (June'04) with time extension of the project :** The Expenditure Finance Committee (EFC) on 1.11.04, chaired by Secretary, Department of Coal approved the Revised Cost Estimates (RCE June'04) of the UNDP/GEF/GoI-Coalbed Methane Recovery & Commercial Utilisation project (IND/98/G34) for Rs. 92,427 crores with completion time up to October 2006.

vi)

**Mid-term Evaluation of the Project :** The mid-term evaluation of the CBM project was undertaken, through UNDP, New Delhi, during 1st-15th Oct. '2004. The mid-term evaluation was undertaken by one international and

one national consultant (both independent). The final report was submitted by the experts on 23.11.2004.

- vii) **CBM Utilisation equipment :** To demonstrate the utilisation through use of recovered CBM, 1 MW CBM gas-based Power Generating equipment for Moonidih site is in progress at CMPDI. The Specification of Vehicle Conversion kits, Refuelling station and CNG Compressor for the Project are being finalised by the Gas Plant Expert.
- viii) **Site preparation activities :** Major site preparation activities are :
  - a) Preparation of Drill sites at CBM-4 & CBM-10 (Moonidih) has been completed. Vertical Drilling Rig units parked at CBM-4, Moonidih well site.
  - b) Preparation of other 3 surface drilling sites at Moonidih taken-up at CBM-3, 11 & 12.
  - c) Work for Camp office, Expert guest house at Moonidih is in progress.
  - d) Renovation of Quarters at Moonidih & Sudamidih has been completed.
  - e) Drilling crew with other manpower is being posted in stages. Security guards have been deployed.

#### **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 coal bed methane. In this project, CMPDI is the implementing agency on behalf of CIL. The Govt. of Jharkhand has granted Petroleum Exploration License (PEL) to the consortium in August 2003 for Jharia CBM block, and thereafter 8 slimholes were located

for drilling, which was backed by detailed geological exercise based on all available geological and geophysical data by CMPDI & ONGC joint CBM team. The drilling of slim hole was started on 30.12.2004 and so far one borehole has been completed and two are under progress. Total meterage of drilling works out to 1285.25 m and the CBM related tests are in progress.

The Petroleum Exploration License (PEL) for Raniganj CBM block has been granted by the Govt. of West Bengal on 09.06.2004 and geological exercise for locating slim holes/wells to be drilled in Raniganj CBM block has been carried out jointly by CMPDI-ONGC team. Consequent upon the above exercise, location of slim holes has been finalized.

#### **1.6.3 CBM Related Studies under Promotional Exploration during X Plan.**

CMPDI has taken up studies related to "Assessment of Coalbed Methane Gas-in-Place Resource of Indian Coalfields" through boreholes being drilled under promotional exploration (X Plan period) being funded by Govt. of India with a total plan expenditure of Rs.8.83 Crores.

Govt. approval of the project was obtained in September 2004. The blocks under promotional exploration in 2004-05 were prioritized for taking up CBM related studies. The sample has been collected for desorption studies from 4 boreholes spread over in different coalfields and the tests have been undertaken.

#### **1.6.4 Delineation of CBM blocks and preparation of Data Package thereof for Directorate General of Hydrocarbons (DGH) for 3rd Round of bidding by the Govt. of India.**

The Directorate General of Hydrocarbons (DGH) has awarded the work of delineation

of 7 prospective CBM blocks and preparation of their data packages / information dockets for 3rd round of bidding of CBM Blocks by the Govt. of India. Accordingly, geological exercise is under progress.

#### 1.6.5 UK-India CBM Technology Transfer Project.

This project is sponsored by Department of Trade & Industry (DTI), Govt. of UK and being managed by M/s. Wardell Armstrong. CMPDI has been commissioned to take up the job with due approval of Ministry of Coal. This project is related to study of gas emissions characteristics of gassy mines with an objective to develop an understanding for the methane emission in Indian coal mines and for appraisal of one or two abandoned mines for assessment of Abandoned Mine Methane (AMM) prospects. In this regard, a report titled "Gas Emission Characteristics of Moonidih & Amlabad Mines, Jharia Coalfield, India has been prepared and submitted to M/s Wardell Armstrong. Work has been taken-up in regard to assessment of one abandoned mine of AMM Project.

#### 2.0 PROJECT PLANNING & DESIGN :

During the year 2004-2005, preparation of project reports for new/ expansion / re-organisation mines for building of additional coal production capacity was carried out as per prioritization of coal producing subsidiary companies of Coal India Limited. Thrust was given to complete the reports for X Plan projects and identification of XI Plan Projects. In addition to the above, the following jobs were undertaken :

- Revision of project reports/ cost estimates
- Feasibility report for FBC based thermal power plant and coking / non-coking coal washeries.
- Operational plans for large OC mines

- Environment Management Plan (EMP) including EMP for Post-facto environmental clearance for incremental production.
- Special reports for dealing with fire & subsidence, stabilisation schemes below unstable workings, safety, development of infrastructures etc.
- Detailed design and drawings, drawal of specifications, 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 deployed in OC mines, PSLW of Powered Support Longwall faces and intermediate technology using SDLs and LHDs in CIL mines.

A total of 252 reports have been prepared for CIL and its subsidiary companies during the year under review.

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

| Reports                 | Nos.       |
|-------------------------|------------|
| Geological Reports      | 14         |
| Project Reports         | 19         |
| Revised Project Reports | 1          |
| Special Reports         | 15         |
| Operational Plan        | 14         |
| Other studies           | 130        |
| EMPs                    | 33+26*     |
| <b>TOTAL</b>            | <b>252</b> |

\* EMP for Post-facto environmental clearance for incremental production.

Detail of reports prepared during the period 2004-05 is furnished in Annexure-I.

## LIST OF COMPLETED REPORTS DURING 2004-05

| REGIONAL INSTITUTE / HQ  | NAME OF THE REPORTS                                                                                         |
|--------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>GEOLOGICAL REPORT</b> |                                                                                                             |
| RI-I                     | 1 BAJNA CHAPAPUR SEC-B (RGR)                                                                                |
| RI-III                   | 1 LALGARH (NON-CIL)<br>2 PAKRI BARWADIH (NON-CIL)<br>3 TANDWA SOUTH (PROM.)                                 |
| RI-IV                    | 1 BHARATWADA (PROM.)                                                                                        |
| RI-V                     | 1 TARA (NON-CIL)<br>2 GARE-IV/6 (NON-CIL)<br>3 GARE-IV/8 (NON-CIL)<br>4 BOORI NORTH (NON-CIL)               |
| RI-VII                   | 1 SUBHADRA EAST<br>2 RADHIKAPUR (NON-CIL)<br>3 JAMKANI (NON-CIL)<br>4 LAJKURA EXPANSION                     |
| HQ                       | 1 BARAGOLAI WEST                                                                                            |
| <b>PROJECT REPORTS</b>   |                                                                                                             |
| RI-I                     | 1 SIDHI REORGANISATION<br>2 JHANURA PH- II<br>3 JHANURA PHASE- II (LW MINE)<br>4 NABAKAJORA-MADHABPUR BLOCK |
| RI-II                    | 1 PROJECT REPORT FOR INTRODUCTION OF CONTINUOUS MINER<br>FOR EXPLOITATION OF I/II SEAM AT BLOCK-II          |
| RI-III                   | 1 KARO OCP                                                                                                  |
| RI-IV                    | 1 GONDEGAON EXTN OC<br>2 MAHKARHOKRA-I OC (RECAST)<br>3 YEKONA-I OC (RECAST)<br>4 INDER UG TO OC            |
| RI-V                     | 1 MAHAN-II OCP<br>2 CHIRIMIRI SEAM-III (CHIRIMIRI AREA)<br>3 SAKULMUNI UG<br>4 JAMPALI OCP                  |

|        |                                                                     |
|--------|---------------------------------------------------------------------|
| RI-VI  | 1 NIGAHI EXPN - II OCP (15 MTY)                                     |
| RI-VII | 1 BELPAHAR EXPN. OCP (RECAST PR)<br>2 SAMALESWARI EXPN. OCP (4 MTY) |
|        | 3 ANANTA OCP (12 MTY)                                               |
| HQ     | 1 HURA-C                                                            |

**REVISED PROJECT REPORTS**

|      |                      |
|------|----------------------|
| RI-V | 1 DUGGA OC (0.9 MTY) |
|------|----------------------|

**SPECIAL REPORTS**

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RH    | 1 REVISED SCHEME FOR ENHANCEMENT OF COAL PRODUCTION OF KOTTADIH OCP (TURN AROUND SCHEME)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| RI-II | 1 SCHEME FOR DEALING WITH FIRE AND SUBSIDENCE PROTECTION OF DHANBAD PATHERDIH RLY LINE AT SUDAMDIH / PATHERDIH COLLIERY<br>2 SCHEME FOR STABILISATION OF UNSTABLE WORKINGS AT SALANPUR COLLIERY (5 NOS. OF SITES)<br>3 SCHEME FOR DEALING WITH FIRE BY EXCAVATION METHOD BELOW DHANBAD PATHERDIH RLY LINE AT BARAREE & BAGDIGI COLLIERY<br>4 SCHEME FOR DEALING WITH FIRE AGAINST PROTECTION OF CHATKARI JORE AT KUJAMA COLLIERY<br>5 STABILISATION SCHEME OF UNSTABLE WORKINGS BELOW BILBERA B SECTION, BILBERA-JEALGORA & TANDI BARI B SECTIONS AT SOUTH GOVINDPUR COLLIERY |
| HQ    | 1 STABILISATION OF UNSTABLE WORKINGS BELOW WORKSHOP QUARTERS NEAR PK1 & 2 PITS AT KUSUNDA COLLIERY, BCCL<br>2 SCHEME FOR DEALING WITH FIRE AT KATRAS CHOITUDIH COLLIERY<br>3 SCHEME FOR STABILISATION OF UNSTABLE WORKINGS BELOW SURENDRA COLONY AT GONDUDIH COLLIERY, BCCL<br>4 FEASIBILITY REPORT FOR SETTING UP OF FBC BASED THERMAL POWER PLANT AT PIPARWAR<br>5 LARGE SCALE LAND USE / COVER MAPPING OF MANIKPUR, KUSMUNDA, GEVRA & DIPKA OCPS BASED ON HIGH RESOLUTION SATELLITE DATA OF 1997 AND 2003                                                                  |

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6. LARGE SCALE LAND USE / COVER MAPPING OF DURGAPUR, PADAMPUR, HINDUSTAN LALPETH OCPs OF WARDHA VALLEY COALFIELD BASED ON HIGH RESOLUTION SATELLITE DATA OF 1997 AND 2003
7. FINAL REPORT ON REVIVAL PLAN OF NEC, CIL
8. SCHEME FOR STABILISATION OF UNSTABLE WORKINGS BELOW TIWARI BASTI AT GOVINDPUR COLLIERY, BCCL
9. SCHEME FOR DEALING WITH FIRE AT GASTLITAND MINE, BCCL

**OPERATION PLANS**

RI-I

1. JAMBAD OCP (2004-05)

2. JAMBAD OCP (2005-06)

RI-III

1. PATCH 'B' (CONTRACTUAL OB REMOVAL)

RI-IV

1. UMRER OC

2. SASTI OC

3. GHUGUS OC

RI-V

1. MANIKPUR OC

RI-VI

1. JAYANT OCP (2003-04)

2. KHADIA OCP (2003-04)

3. AMUDHRI OCP (2003-04)

4. DUOHICHUA OCP (2003-04)

5. JHINGURDAH OCP (2003-04)

6. NIGAHI OCP (2003-04)

7. BINA OCP (2003-04)

**OTHER REPORTS**

RI-I

1. GAS SURVEY OF R-VIIA SEAM AT TILABONI COLLIERY, BANKOLA AREA

2. BLASTING AND VIBRATION STUDIES AT PATMOHNA OCP

3. TECHNO ECONOMICS STUDY FOR 17 MINES OF ECL

4. BLASTING AND VIBRATION STUDIES AT MANOHARBAHAL UG

5. STUDY ON FEASIBILITY OF COMBINING SONEPUR BAZARI A & B OCP

6. CONCEPTUAL REPORT FOR NO.10 QUARRY OF CHAPAPUR COLLIERY

7. BLASTING & VIBRATION STUDIES AT KUMARDHUBI COLLIERY, MUJMA AREA

- 8 CAPACITY ASSESSMENT OF CENTRAL WORKSHOP & REGIONAL WORKSHOP
- 9 REVISED CONCEPTUAL REPORT ON DAMRA OC PATCH
- 10 ENERGY AUDIT REPORT FOR CL JAMBAD
- 11 CONCEPTUAL REPORT CONSIDERING OUTSOURCING OF HEMM FOR KHUSURI OCP
- 12 GAS SURVEY OF CHINAKURI-I MINE
- 13 GAS SURVEY OF KUMARDHUBI MINE
- 14 BLASTING & VIBRATION STUDIES AT SONEPUR BAZARI OCP
- 15 BLASTING & VIBRATION STUDIES AT 5K PATCH OCP OF KUMARDHUBI COLLIERY, MUGMA AREA
- 16 MECHANISATION BY SDL/LHD OR MASS PRODUCTION TECHNOLOGY OF UG MINES OF ECL
- 17 CONCEPTUAL REPORT FOR REMOVAL OF 2.0 MCUM OF OB AT KOTTADIH OCP
- 18 BLASTING & VIBRATION STUDIES AT EGRA PATCH OCP, KUNUSTORIA AREA
- 19 ENERGY AUDIT REPORT FOR PARASEA COLLIERY
- 20 GAS SURVEY OF MITHAPUR COLLIERY
- 21 BLASTING & VIBRATION STUDIES AT JAMBAD OCP
- 22 FEASIBILITY STUDY OF NIRSA OCP
- 23 GAS SURVEY OF MOIRA COLLIERY & KHANDRA COLLIERY
- 24 ENERGY AUDIT REPORT FOR SONEPUR BAZARI OCP
- 25 ENERGY AUDIT REPORT OF MANDARBONI COLLIERY
- 26 BLASTING & VIBRATION STUDIES AT CHORA OCP
- 27 ENERGY AUDIT REPORT OF JAMBAD COLLIERY
- 1 COST UPDATION OF MASTER PLAN FOR DEALING WITH FIRE, SUBSIDENCE AND REHABILITATION IN THE LEASEHOLD OF BCCL
- 2 CONCEPTUAL NOTE ON BHATDIH COLLIERY AND MADHUBAN COLLIERY, SECTOR-C
- 3 COMPLETION REPORT FOR SHATABDI OCP
- 4 REPORT FOR OPENCAST POTENTIALITY OF XI/XII TO XV SEAM OF ENA COLLIERY
- 5 IDENTIFICATION OF RESERVES FOR AUGUR MINING AT KHARKHAREE & DHARMABAND COLLIERIES
- 6 STUDY FOR EXTRACTION OF XV SEAM BY PSLW AT MOONIDIH PROJECT

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RH-II

- 7 CONCEPTUAL REPORT ON APPLICATION OF AUGER MINING AT S.TISRA OCP
- 1 MINE MODELLING OF KARO OCP THROUGH MINEX
- 2 HYDROGEOLOGICAL REPORT OF BERMO OCP
- 3 ENERGY AUDIT REPORT (DIESEL & ELECTRICAL) FOR KALYANI OCP
- 4 MINE MODELLING OF AMLO OCP THROUGH MINEX
- 5 HYDROGEOLOGICAL REPORT OF TOPA (RO) , KHASMAHAL & NEW GIDI 'C' OCPS
- 6 ENERGY AUDIT REPORT (ELECTRICAL) FOR KEDLA UGP
- 7 STUDY ON STABILITY OF STRATA FOR DRIVAGE BELOW DAMODAR RIVER, CHURI UG, BENTI BLOCK
- 8 ENERGY AUDIT REPORT (DIESEL & ELECTRICAL) FOR KEDLA OC

RH-IV

- 1 SYSTEM MODIFICATION OF EXISTING CHP AT SILEWARA UG MINE
- 2 STUDY OF SURFACE MINER APPLICATION IN NIRGUDA-MUGOLI OC AMALGAMATION AND DUMPING PLAN FOR THE SAME
- 3 GAS SURVEY OF SEAM-IV AND SEAM-II IN NEHARIA UG MINE
- 4 UPDATION OF PR FOR WAGHODA UG MINE AS ON MAY'04
- 5 VENTILATION SURVEY REPORT FOR AB INCLINE MINE
- 6 FEASIBILITY STUDY FOR WINNING COAL RESERVES PRESENTLY UNDER COMMON BOUNDARY BARRIER BETWEEN NILJAI AND UKNI OPENCAST
- 7 SCHEME FOR AUGMENTING PRODN. IN NILJAI (SOUTH) AND NAIGAON OC
- 8 SYSTEM MODIFICATION OF EXISTING CHP AT MURPAR UG
- 9 FEASIBILITY REPORT ON INTRODUCTION OF CONTINUOUS MINER IN MAORI UG MINE

RH-V

- 1 SCHEME FOR TRANSPORTATION RE-ORGANISATION FOR DHANPURI UG
- 2 ENERGY AUDIT OF RAJGAMAR 6/7 AND PAWAN UG MINE
- 3 REPORT ON INDUCED GROUND VIBRATION AT SURFACE DUE TO UNDERGROUND BLASTING AT SHIWANI UG
- 4 REPORT ON BLASTING STUDY & DESIGN OF BLAST PATTERN FOR BOTTOM SEAM WORKING TO PROTECT DEVELOPMENT OF CRACKS IN PARTING OF OVERLYING SEAM AT WEST JKD, HASdeo AREA, SECL

5 CONTROLLED BLASTING STUDY AT SHARDA OCM

6 REPORT ON INDUCED GROUND VIBRATION AT SURFACE OF MANI VILLAGE DUE TO UNDERGROUND BLASTING AT REHAR UG

7 BLASTING STUDY AT BAGDEVA UG AND IMPACT OF VIBRATION AT SURFACE AT BIJAYPAUR VILLAGE

RI-VI

1 REQUIRMENT OF FLOAT IN HEMM (DRAGLINE & SHOVEL)

2 COMPLETION REPORT OF DUDHICHUA OCP (10 MTY)

3 COMPLETION REPORT OF NIGAHI OCP (10 MTY)

HQ

1 PRESSURE SURVEY ACROSS DEPILLARED PANEL 'D' OF BALLARPUR 3&4 PITS, BALLARPUR AREA, WCL

2 SUBSIDENCE PREDICTION REPORT FOR KARO SPECIAL (PHASE-II) UG MINE, CCL

3 RMR AND SUPPORT PLAN FOR DEPILLARING PANEL K-19, R-IX/KAJORA SEAM, MADHUSUDANPUR COLLIERY

4 LAND USE / COVER MAPPING OF BUFFER ZONE OF AMLOHRI OCP EXPANSION, SINGRAULI COALFIELD

5 RANDOM SAMPLING AND ANALYSIS OF DETONATORS, D-FUSE ETC, COLLECTED FROM ECL MINES

6 COAL RESOURCES AND PRODUCTION NEEDS IN CIL OPENCAST AND UNDERGROUND MINES/PROJECTS AND BLOCKS UP TO 2036-37

7 PERFORMANCE EVALUATION AND SUGGESTIONS FOR IMPROVEMENT OF KOMAG JIGS OF NANDAN WASHERY

8 WASHABILITY STUDIES OF GRADE-F COAL OF MCL & SECL FOR USE BY SPONGE IRON PLANTS IN INDIA

9 LAND USE / COVER MAPPING OF BUFFER ZONE OF HINGULA OCP EXPANSION, TALCHER COALFIELD

10 STUDY OF PIPARWAR CPP, CCL

11 STUDY OF CCL OLD WASHERIES FOR IMPROVEMENT

12 WASHABILITY STUDIES OF KATHARA & RAJRUPPA WASHERY REJECTS

13 GAS SURVEY OF V SEAM OF NCPH (OLD) MINE OF CHIRIMIRI AREA, SECL

14 PERFORMANCE ANALYSIS REPORT OF PSLW/SDL/LHD MINES OF CIL FOR THE YEAR 2002-03

15 LAND USE / COVER MAPPING OF BUFFER ZONE OF NANDIRA UG, TALCHER COALFIELD

16 STUDY ON ELIMINATION OF CONTRACTUAL TRANSPORT OF COAL FROM THE FACE TO EVACUATION POINT

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17. VENTILATION STUDY OF SASTI UG MINE OF WCL
18. SUBSIDENCE PREDICTION REPORT FOR NKJ UNIT OF KHANDRA COLLIERY, ECL
19. RECLAMATION OF ABANDONED MINES & OB DUMPS OF CCL PROJECTS
20. SCHEME FOR PROTECTION CO-ORDINATION SYSTEM FOR MAJOR SUB STATIONS OF NCL
21. MINE CLOSURE PLAN OF SIMSANG PROJECT, NEC
22. STUDY OF VENTILATION SYSTEM AND STOWING PROBLEMS AT KACHHI BALIHARI 10/12 PIT MINE, BCCL
23. MINE CAPACITY ASSESSMENT OF UG MINES (2004-05) OF CIL
24. GAS SURVEY OF SEAM III WORKING OF DHARAM INCLINE MINE OF SECL
25. CONTROLLED BLASTING AND VIBRATION STUDY AT PUNDI OCP, CCL
26. LAND USE/COVER MAPPING OF SAMLESWARI OCP, IB VALLEY COALFIELD
27. RMR AND SUPPORT LAYOUT FOR METADIH SEAM, CHAPAPUR-II COLLIERY & GP SEAM (BOTT), SHYAMPUR 'B' COLLIERY, ECL
28. RMR AND ROCK LOAD STUDIES OF JAMBAD (TOP SECTION) SEAM, MOIRA COLLIERY, ECL
29. VENTILATION STUDY OF BEHRABAND & RAJNAGAR RO UG MINES OF SECL
30. LAND USE/COVER MAPPING OF ANANTA OCP EXPN. TALCHER COALFIELD & BELPAHAR OCP EXPN. OF IB VALLEY COALFIELD, MCL
31. AUGMENTATION OF EFFLUENT TREATMENT PLANT AT DANKUNI COAL COMPLEX
32. SUBSIDENCE PREDICTION REPORT FOR VIJAY WEST UG PROJECT, SECL
33. SUBSIDENCE PREDICTION REPORT FOR CHURI UG MINE, CCL
34. REPORT ON DEPILLARING SUPPORT PLAN OF 'B' SEAM, BIJURI COLLIERY, SECL
35. LAND USE/COVER MAPPING OF KANIAH-II OCP EXPN., TALCHER COALFIELD
36. STUDY OF SLOPE STABILITY OF HIGHWALL AT DURGAPUR OCP, WCL

- 37 STUDY OF SLOPE STABILITY OF HIGHWALL AT PADAMPUR OCP, WCL.
- 38 ENERGY AUDIT (DIESEL) OF RAJRUPPA OCP
- 39 WATER SUPPLY AUGMENTATION SCHEME FOR GEVRA AREA
- 40 STANDARD PRICE LIST FOR MINING EQUIPMENT-2004
- 41 TECHNICAL SCRUTINY OF GLOBAL BID FOR INTRODUCTION OF CONTINUOUS MINER TECHNOLOGY AT SHEETALDHARA, KURJA AND PINOURA UG MINE
- 42 ASSESSMENT OF CAPACITY & CAPACITY UTILISATION FOR OPENCAST MINES OF CIL DURING 2003-04
- 43 CONTROLLED BLASTING AND VIBRATION STUDY AT KALINGA OCP, MCL
- 44 LAND USE/COVER MAPPING OF KEDLA OCP, CCL
- 45 REPORT ON RMR AND ROCK LOAD OF ANGARPATHRA COLLIERY (IV SEAM), GODHUR COLLIERY (III SEAM), KHARKHAREE COLLIERY (XIV SEAM) & AMALGAMATED KESHALPUR WEST MUDIDIH COLLIERY ( II SEAM, BOTT)
- 46 FRAGMENTATION IMPROVEMENT STUDY AT MAHAN OCP, SECL
- 47 GAS SURVEY OF BAGDEVA UG MINE OF SECL
- 48 ENERGY AUDIT (ELECTRICAL) OF BINA OCP
- 49 LARGE SCALE LAND USE / COVER MAPPING OF DHORWASA, KOLAGAON AND BHUBANESWARI OCPS BASED ON HIGH RESOLUTION SATELLITE DATA
- 50 SUBSIDENCE PREDICTION REPORT FOR KUMARDIH-B PROJECT, ECL
- 51 PERFORMANCE ANALYSIS REPORT OF HEMM OPERATING IN OC MINES OF CIL(2003-04)
- 52 REPORT ON SPECIFIC CONSUMPTION OF EXPLOSIVES, DIESEL & ELECTRIC POWER IN OC MINES OF CIL DURING 2003-04
- 53 REPORT ON SUPPORT REQUIREMENT FOR DEPILLARING PANEL D-1 OF V-SEAM, DEVA INCLINE, NORTH CHIRIMIRI COLLIERY, SECL
- 54 CONTROLLED BLASTING AND VIBRATION STUDY AT CHAINPUR COLLIERY, CCL
- 55 MINE FIRE AT RAMNAGAR SUB AREA OF HASDEO AREA, SECL

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- 56 REPORT ON ROCK MASS RATING AND SUPPORT PLAN FOR HEADINGS BELOW NATIONAL HIGHWAY NO.2 & STABILITY OF HIGHWAY
- 57 REPORT ON RMR AND ROCK LOAD OF AKASHKINARI COLLIERY, I-SEAM; PHULARITAND COLLIERY, 9/10 TOP SEAM; BASTACOLA COLLIERY, I-SEAM OF BCCL AND 3/4 INCLINE, JHANJRA COLLIERY, R-VII SEAM, ECL
- 58 LAND USE / COVER MAPPING OF BUFFER ZONE OF MAGADH AND AMRAPALI OCPS OF CCL
- 59 LAND USE/COVER MAPPING OF BUFFER ZONES OF BHARATPUR, LINGRAJ, JAGANNATH OCPS EXPANSION AND JAGANNATH UG, TALCHER COALFIELD
- 60 THEMATIC MAPPING FOR GEOSPATIAL ENVIRONMENTAL MANAGEMENT PLANNING OF UDAIPUR & CHITTORGARH DISTRICTS OF RAJASTHAN
- 61 ESTIMATION OF NORMATIVE COST OF JK ROPEWAYS IN ECL
- 62 SUBSIDENCE PREDICTION REPORT FOR BANKOLA COLLIERY, ECL
- 63 REPORT ON RMR AND ROCK LOAD OF BANSRA COLLIERY, KENDA SEAM, ECL; MUDIDIH COLLIERY, VI TOP SEAM AND BHOWRAH SOUTH COLLIERY, VI TOP, V & XVII SEAMS, BCCL
- 64 LAND USE/COVER MAPPING OF BUFFER ZONE OF PIPARWAR & PUNADIH OCPS OF CCL
- 65 LAND USE/COVER MAPPING OF BUFFER ZONE OF TALABIRA- III OCP, IB VALLEY COALFIELD, MCL
- 66 PREPARATION OF SCHEME FOR INSTALLATION OF ASH ANALYZER
- 67 GEOSTRUCTURAL AND GEOMORPHOLOGICAL MAPPING BASED ON SATELLITE DATA FOR CBM BLOCKS
- 68 ENERGY AUDIT (DIESEL) REPORT FOR JAYANT OCP, NCL
- 69 ENERGY AUDIT (ELECTRICAL) OF KAKRI OCP

ENVIRONMENT MANAGEMENT PLAN

|    |                      |
|----|----------------------|
| HQ | 1 HURA C OC (MTY)    |
|    | 2 PARASEA DOBRANA UG |
|    | 3 AMLORI OC          |
| RH | 1 SIDHULI UG         |
|    | 2 NABAkJORA UG       |

|        |   |                                     |
|--------|---|-------------------------------------|
|        | 3 | KUMARDIHI 'B' UG                    |
|        | 4 | SHANKARPUR UG                       |
|        | 5 | KHANDRA UG                          |
|        | 6 | BANKOLA UG                          |
|        | 7 | BANSRA UG                           |
|        | 8 | PARASEA UG 2&3 PIT                  |
|        | 9 | TOPSI PATCH                         |
| RI-II  | 1 | GOLUCKDIH OCP (NC)                  |
| RI-III | 1 | TETARIYAKHAR OC                     |
|        | 2 | KARO OC                             |
| RI-IV  | 1 | BHANEGAON/BINA OC                   |
|        | 2 | BHATADI EXPN. OC                    |
|        | 3 | WAGHODA UG                          |
|        | 4 | GAJANDOH UG                         |
|        | 5 | VISHNUPURI - I UG                   |
|        | 6 | VISHNUPURI - II UG                  |
|        | 7 | MAKARDHOKRA-II OCP                  |
|        | 8 | PAUNI-II OC                         |
| RI-V   | 1 | BAKHI PATCH OC                      |
|        | 2 | BADAULI UG                          |
|        | 3 | HALDIBARI UG                        |
|        | 4 | SARAIPALLI OC                       |
|        | 5 | BAROUD OC EXPN.                     |
|        | 6 | CHHAL OC                            |
|        | 7 | MAHAN-II OC                         |
| RI-VII | 1 | HINGULA-II EXPN. OC                 |
|        | 2 | NANDIRA UG AUG. (0.33 MTY) (RECAST) |
|        | 3 | ANANTA OC EXPN. (8 MTY) (RECAST)    |

**EMP FOR POST FACTO ENVIRONMENTAL CLEARANCE FOR INCREMENTAL PRODUCTION**

HQ 5 MINES OF SECL (RAJNAGAR UG, MALGA UG, PALKIMARA UG,

BIJURI UG, RAJNAGAR OC)

RI-IV 21 MINES OF WCL

**2.1 PERSPECTIVE PLANNING & PROJECT APPRAISAL :**

- (i) Updation of status of X Plan projects requiring approval at Government level in connection with Secretary (Coal)'s Review meeting.
- (ii) Updation of status of implementation of on-going projects costing more than Rs.100 Crores in connection with Secretary (Coal)'s Review meeting.
- (iii) Status note on time overrun in (i) formulation stage (ii) appraisal and approval stage (iii) implementation stage etc. for coal projects cleared by EFC / PIB during last 10 years as well as comments of CMPDI on objective and scope of study suggested by Ministry of Programme Implementation to be included in the proposed study by Ministry of Coal on Pootkee Balihari UG Project of BCCL.
- (iv) Updation of coal linkage data in respect of Power (Utilities), Power (Captive), Cement, Sponge Iron etc.

**2.2 COAL & MINERAL PREPARATION**

CMPDI offers services ranging from concept to commissioning of coal washeries/mineral beneficiation plants and modification/modernization of existing plants. The broad technological service encompasses Project Report preparation, Detail Design, Construction Management and a wide range of R&D activity. The following jobs have been carried out during the year 2004-05:

**2.2.1 REPORTS / STUDIES**

- (i) Performance evaluation and suggestions for improvement of Komag jigs of Nandan washery
- (ii) Study Report of Piparwar CPP, CCL
- (iii) Report on thorough study of CCL old

washeries for improvement

- (iv) Scheme for installation of on-line Ash Analyser in Bina Deshaling Plant, NCL
- (v) Preparation of TSD for environment upgradation of Piparwar washery
- (vi) Preparation of TEFR and Tender Document for addition, modification and augmentation of existing crushing, screening plant of Balaghat Mine of MOIL

**2.2.2 TECHNOLOGY DEVELOPMENT & TRIAL PROJECTS**

- (i) Dry Beneficiation of high ash non-coking coal using Air Dense Medium Fluidized Bed Separation
- (ii) Kelsey Centrifugal jig for fine coal beneficiation

**3.0 ENGINEERING SERVICES :**

Apart from providing consultancy services for CHP, workshop, power supply, distribution and control systems, industrial and residential buildings, roads and railway siding, townships, the following services were provided :-

**3.1 Electrical & Mechanical Engineering Services**

**3.1.1 Energy Audit Management**

Petroleum Conservation Research Association (under ministry of Petroleum and Natural Gas), Govt. of India, has empanelled CMPDI as Energy Auditor on PCRA's Panel.

15 nos of Electrical energy audit / conservation reports and 4 nos Diesel Audit / Conservation reports were prepared for OC / UG mines of CIL. Energy audit report (diesel and electrical) has been implemented at 5 projects of NCL.

**3.1.2 Inspection Services**

CMPDI continued third party inspection

services of materials / equipment worth of Rs. 210 crore (approximately) purchased by different subsidiaries of CIL.

### 3.1.3 Captive Power Plants

CMPDI has prepared a Feasibility Report for setting up of FBC based thermal power plant at Piparwar, CCL during the year.

### 3.1.4 Power supply, distribution and control System :

- (i) Design of transportable 2x10 MVA, 33/ 6.6 kV Modular Sub-station for NCL.
- (ii) Scheme for Protection co-ordination system for major sub-stations of NCL.

### 3.1.5 Other Studies

- (i) Float requirement (spare parts management)
- (ii) Tender document for fire detection, alarm annunciation and fire fighting system for administrative building at NCL (HQ)
- (iii) Scheme for electrical fire protection of control panel at Jhingurdah CHP
- (iv) Scheme, bill of quantity and construction drawing for proposed sewage treatment plant at RTTC, Ranchi
- (v) Scheme and cost estimate for electrical works of Sanskriti Kendra, Sambalpur

## 3.2 Civil Engineering Services

Following major services were provided during the year under review :

- (i) Gevra main CHP and associated civil works, Strengthening and structural adequacy of transfer house at Gevra Project, Kusmunda CHP and associated strengthening work of Fire damaged 20,000te Ground Bunker and rehabilitation of the distresses structure at DCC for SECL.

(ii) Detail design of intake well and two wiers on river for Basundhara Area, Press Club Building & Sanskrutik Bhawan Complex and Design of Bridge for Crossing Pipeline and Footpath for MCL.

- (iii) Advanced structural design technique for dynamic and static analysis and report for modification of structure to arrest excessive vibration for Nigahi, Amlohri, Jayant, Kakri, Khadia and Dudhichua C.H.P of NCL.
- (iv) Advanced technical report considering special chemical injection and repair system for the coalbunker for DRC II and IV U.G. C.H.P. of WCL.

## 3.3 Architectural Planning & Design

Following architectural planning & design services were provided during the year:

- (i) Workers Institute and Guest House at Nigahi, NCL.
- (ii) Design of Type quarters and Sanskrutik Bhawan, MCL

## 4.0 RESEARCH AND DEVELOPMENT :

The R&D activities in Coal sector is administered through an apex body namely, Standing Scientific Research Committee (SSRC) with Secretary (Coal) as its Chairman. The other members of this apex body include Chairman of CIL, CMDs of CMPDI, SCCL and NLC, Director of concerned CSIR laboratories, representatives of Department of S&T, Planning Commission and educational institutions, among 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 being assisted by three Standing Sub-committees, each dealing with one of the three relevant major areas of research viz. (i) Production, Productivity & Safety (ii) Coal Beneficiation & Utilisation (iii) Environment & Ecology.

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

4.1.1 Status of Coal S&T projects in the X Plan period :

- i) Projects completed during 2002-03 - 10
- ii) Projects completed during 2003-04 - 10
- iii) Projects on-going as on 1.4.2004 - 49
- iv) Projects sanctioned by Gol during 2004-05 - 08
- v) Projects completed during 2004-05 - 10
- vi) Projects on-going as on 1.4.2005 - 47

4.1.2 Following Coal S&T projects were completed during 2004-05 :

- i) Response of structures and damage of structures caused by ground vibration from opencast mine blasting.
- ii) Study on the effect of delay timing, total charge and direction of initiation on blast induced ground vibration.

- iii) Design and development of wireless multimedia monitoring system for coal mines.
- iv) Development of pressurised fluidised bed combustion system for high ash Indian coals.
- v) Development of reconstituted Coal-Water emulsion as clean coal technology for power generation.
- vi) Development of equivalency chart between UHV & GCV.
- vii) Pond ash reclamation and possibilities of utilisation of industrial waste for re-vegetation and developing green.
- viii) Field studies on application of lignite humic acid on various crop response in different agro climatic conditions.
- ix) Reclamation of mining wastelands and restoration of native vegetation through microbial technology in Rajmahal Coalfield area of ECL.
- x) Characterisation and leaching studies of Indian fly ashes for evaluation of their suitability as mine fill material.

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

(Rs. in Crores)

| 2002-03 |        | 2003-04 |        | 2004-05 |        | 2005-06 |
|---------|--------|---------|--------|---------|--------|---------|
| RE      | Actual | RE      | Actual | RE      | Actual | BE      |
| 9.50    | 6.04   | 10.04   | 9.82   | 12.43   | 12.73  | 20.08   |

4.2 CMPDI also acts as the Nodal Agency for co-ordination of research activities funded by CIL R&D Board.

4.2.1 The status of CIL R&D Board Projects during 2004-05 was as follows :

- i) Project on-going as on 1.4.2004 - 15

- ii) Projects Approved  
in 2004-05 - 04
- iii) Projects completed  
during 2004-05 - 04
- iv) Projects on-going  
as on 1.4.2005 - 15

**4.2.2** Following R&D projects were completed during 2004-05 :

- i) Strata control, roof support design for development and depillaring operations at Tandsi Project, Kanhan Area, WCL with detailed geo-technical study including measurement of in-situ stress and its effect
- ii) Geo-mining statistical database of South Karanpura Coalfield, CCL
- iii) Establishment of Longwall Strata Control Services
- iv) Assessment of qualitative and quantitative impacts of dust on the agriculture crops around Padampur OCP, WCL

**5.0 LABORATORY SERVICES**

**5.1 Chemical Laboratory**

- (i) Characterization of coal was carried out on borehole coal cores from fourteen blocks explored by CMPDI covering seven coalfields. A total of 4265.92 metres of coal cores were processed and 11049 nos. of samples were analysed for quality evaluation and their down-stream utilization.
- (ii) Sampling and quality evaluation of imported coal was undertaken for SAIL from Paradeep and Haldia ports as per International Standard.
- (iii) Field sampling and characterization study of coal suitable for Sponge Iron

Industry from 10 colliery / blocks from CCL command areas have been completed and report was submitted to CCL.

- (iv) Characterisation of coal for sponge iron from exploration blocks are now routinely taken up. Characterisation in respect of two blocks have already been completed.

**5.2 Coal Petrography Laboratory**

- (i) The Laboratory has undertaken petrographic study (vitrinite reflectance and maceral analysis), mineralisation study and cleat analysis on 330 coal samples against a target of 300 samples. The area covered include nine working mines and exploration blocks from different coal companies. In addition, petrographic studies were undertaken on clean coal samples from CCL washeries. Imported coals have been analyzed as per International Standard. For the first time, characterization of source rock evaluation for Premier Oil India (Premier Exploration Services Pvt. Ltd.) has been carried out. Petrographic analysis, coal cleat study and mineralisation study of cleat filled minerals of coal samples for DGH have been undertaken. Mineralisation study of respirable particulate matter (RPM) for Environmental Management Plan (EMP) has been carried out on regular basis.

- (ii) A CIL R&D funded project entitled "characterization of cleats in coals from Raniganj and Jharia Coalfield" is in progress.

**5.3 Coal Preparation Laboratory**

The Coal Preparation Laboratory carried out studies for ascertaining beneficiation

characteristics and evaluation of performance of existing washeries. The following studies were taken up during the year 2004-05 :

- (i) Washability studies of seven coal samples from Talcher Coalfield of MCL to judge their utilization potentiality for NTPC.
- (ii) Suitability of coal samples from Ananta, Jagannath and Gevra OCPs for use in sponge iron industry.
- (iii) Washability studies of coal samples from Nandan washery & Kamptee OCP, WCL; Bina & Duhichua OCP, NCL; Ashoka, Parej and Tapin OCPs, CCL.
- (iv) Collection of coal fines from Rajrappa washery and testing in the tailing treatment plant at Rajrappa washery for determination of TPH moisture%, GPL of feed and solid particles in effluent.
- (v) Beneficiation studies on rejects of Rajrappa and Kathara washeries.
- (vi) Characterization study of coal samples from Kalakot mines, J&K.

#### 5.4 Mining Laboratory

Mining laboratory caters for the jobs related with rock mechanics, strata control and subsidence. Following jobs were carried out during 2004-05.

##### 5.4.1 Rock Mechanics

- (i) Core testing were done for 1676.2m length of core for determination physico-mechanical properties.
- (ii) 58 nos. of Rock samples (from 38 mines) were tested for RMR studies.

##### 5.4.2 Strata Control

- (i) RMR studies and support plan done for 36 mines / districts.

- (ii) Report on stability of National Highway No. 2 (GT Road) over Kenda seam, Banera Colliery, ECL.
- (iii) Report on determination of RMR and Burton's 'Q' of Lower Bachra Seam, Churi underground mine, CCL for proposed headings below Damodar River.
- (iv) Investigation of roof collapse and design of support for depillaring panel of North Chirimiri Colliery, SECL.

#### 5.4.3 Subsidence

Subsidence prediction reports were prepared for five underground mines of CIL (ECL-3, CCL-1 and SECL-1).

### 6.0 ENVIRONMENTAL SERVICES :

#### 6.1 EIA / EMPS

During the year, CMPDI formulated 59 EMPS for projects of subsidiary companies of CIL, which includes 26 EMPS for Post-facto environmental clearance for incremental production.

#### 6.2 Environmental Monitoring

CMPDI has six environmental laboratories at Asansol, Jayant, Kusmunda, Hasdeo, Nagpur and Ranchi. The central laboratory located at Ranchi is accredited by CPCB. Environmental monitoring assignment of subsidiary coal companies of CIL is carried out through these laboratories.

During 2004-05, monitoring work of 221 projects of CIL (ECL : 16; CCL : 58; WCL : 75; SECL : 46; NCL : 9 & MCL : 18) was carried out. The environmental monitoring covers ambient air quality monitoring, water/ effluent characterisation and noise level monitoring. The performance of environmental laboratories, during the year under review, is given below :

| Sl.<br>No. | Location of<br>Environmental<br>Labs | Workload (No. of samples) |                          |                            |                |
|------------|--------------------------------------|---------------------------|--------------------------|----------------------------|----------------|
|            |                                      | Air Quality               | Water (26<br>parameters) | Effluent (4<br>parameters) | Noise<br>level |
| 1.         | CMPDI (HQ)<br>Ranchi                 | 1340                      | 2080                     | 666                        | 518            |
| 2.         | RI-I, Asansol                        | 988                       | 103                      | 677                        | 104            |
| 3.         | RI-IV, Nagpur                        | 5064                      | 87                       | 2649                       | 2112           |
| 4.         | RI-V, Kusmunda                       | 1200                      | Nil                      | -                          | 3598           |
| 5.         | RI-V, Hasdeo                         | 2448                      | -                        | 3209                       | -              |
| 6.         | RIVI, Jayant                         | 985                       | 130                      | 927                        | 768            |

### 6.3 Co-ordination of EMSC Schemes

CMPDI is the nodal agency for co-ordination and monitoring of ongoing environmental upgradation schemes sanctioned by Ministry of Coal and Mines under the head "Environmental Measures and Subsidence Control". CMPDI undertakes technical scrutiny of new proposals, visits to project sites and disbursement of funds to the implementing agencies. 14 schemes are under implementation including 4 fire control schemes.

### 6.4 Special Studies

- Scheme for "Reclamation of Mined out Areas" for 20 abandoned mines and old dumps of eight areas of CCL has been prepared and submitted.
- A S&T project titled "Development of Emission Factors for various mining machineries and operation in OC Coal Mines", approved by Ministry of Coal in April 2002 for an estimated cost of Rs.78.01 lakhs, is under implementation.
- A S&T project titled "Fly Ash Characterization for Mine Void Reclamation", approved by Ministry of Coal for an estimated value of Rs.243.684 lakhs in September 2003, is under implementation.
- A S&T Project on "Development of Suitable Biological Wastewater Treatment Technology through Constructed Wetlands for Treatment

of Acid Mine Drainage from Coal Projects", approved by Ministry of Coal for an estimated value of Rs.78.62 Lakhs, is under implementation

### 6.5 Environmental Management Capacity Building - Technical Assistance Project: Mining Sub-Component

Ministry of Environment & Forests (MoEF), Government of India has undertaken "India - Environmental Management Capacity Building Technical Assistance Project (Mining Sub-Component)" under World Bank funding. CMPDI has been selected as national Consultant (NC), CME of Indian School of Mines, Dhanbad as Executing Agency (EA) for Activity-IIA of this Mining Sub-Component and M/s Montgomery Watson Harza was the International Consultant. The Activity-IIA contains Institutional Strengthening of the government agencies at Central and State level who are responsible for policy making, legislating, standards setting and enforcement as well as strengthening of counterpart institutions as resource groups /consultants for central and state government agencies including mining companies. CMPDI was also identified as one resource group. This job has been completed.

### 6.6 EIA / EMP study for West Bokaro group of mines of Tata Steel

The job comprises of preparation of EIA/EMP report and Mine Closure Plan. The environmental base line data generation work has been completed and the EMP report shall be submitted within one and half month on receipt of the Final Project Report from the client.

### 6.7 Environmental Statement of the MCL projects.

Mahanadi Coalfield Ltd., Sambalpur had awarded the work to CMPDI for preparation of Environmental Statement of the MCL projects for the year 2003-04. The job has been completed and the final report submitted to MCL.

6.8 **Water Supply Augmentation Scheme**

- (i) Final scheme on "Water Supply Augmentation Scheme" for Gevra Area has been prepared and submitted to SECL.
- (ii) A draft scheme for Treatment of acid mine water to make it potable for NCPH colliery, Chirimiri Area of SECL has been submitted to SECL.

6.9 **Fly Ash Characterization for Mine Void Reclamation**

NTPC, Singrauli had awarded the work to CMPDI for "Hydrogeological Investigations and Environmental Impact Assessment for backfilling of NTPC -Singrauli fly ash in abandoned Gorbi mine of NCL" in January 2003. The job comprises of five Task Reports. All Task Reports have been submitted.

6.10 **Re-use of Effluent Water Scheme.**

- (i) Scheme for re-use of Effluent water from mining operation to achieve zero discharge at CWS, Jayant, NCL is under preparation.
- (ii) Scheme for re-use of Effluent water from mining operation to achieve zero discharge at Duhichua Project, NCL is under preparation.

7.0 **INFORMATION TECHNOLOGY :**

Following jobs were taken up during the year :

- (i) Annual Technical Services for Borehole Database of CCL.
- (ii) Executive Information System for CIL.
- (iii) Land Information System for Ashoka, Tetriakhar, Tarmi, Rajrappa and Urimari projects for CCL.
- (iv) Up-keeping of Integrated Information System for CCL
- (v) Website creation & maintenance and Extension of Local Area Network (LAN) at BCCL.
- (vi) Capacity building for creation of an Information Centre on Coal and Lignite for CIL R&D Project.
- (vii) Training on GIS for Land Information System for CCL.

**HUMAN RESOURCE DEVELOPMENT :**

Your company believes that the strength and quality of Human Resource is the backbone for dynamic and vibrant organization. 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 recognize 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 2004-05, training was imparted to 830 employees through various programmes at different places. These programmes were conducted under five major categories namely (i) Managerial (ii) Technical, (iii) General Development (iv) Computer / Information Technology (iv) others.

Five specific programmes, as under, were conducted at STC, CMPDI for the employees of CMPDIL, CIL subsidiaries and different private / Govt. organizations in which 91 persons participated :

- i) Rock Blasting Techniques,
- ii) Remote Sensing and GIS,
- iii) Networking technology (LAN, WAN) etc.,
- iv) Coal Mining in India and
- v) ISO 9000:2000 Lead auditors course.

In addition to the above programmes, 10(ten) executives were sent abroad for training / conference.

**9.0 SPECIALISED SERVICES :****9.1 Geomatics**

Remote sensing studies through aerial photos & satellite data for preparation of thematic maps, geostructural maps, siting of power stations, environmental baseline data generation, etc. Terrestrial survey, mine survey, overburden and coal excavation survey, underground mine correlation survey.

**9.1.1 Remote Sensing**

During the year 2004-05, 21 number of projects related to the field of environment, infrastructure development, geo-structural and geo-morphological mapping and monitoring of land use / cover pattern in different coalfields were completed.

The jobs completed during the year are as follows :

- (i) Route alignment for extension of railway siding up to Barod and Bijari blocks in Mand Raigarh coalfield based on satellite data for SECL.
- (ii) Large scale land use / cover mapping of lease hold area of Bhubaneswari OCP, Talcher coalfield based on high resolution satellite data for MCL.
- (iii) Thematic mapping of Udaipur and Chittorgarh districts of Rajasthan for geospatial environmental management planning based on remote sensing data for Central Pollution Control Board, New Delhi.
- (iv) Large scale land use / cover mapping of Dhorwasa & Kolgaon OCPs, Wardha Valley CF based on high resolution satellite data of the year 1997 & 2003 for WCL.
- (v) Geostructural and geo-morphological mapping of CBM blocks based on satellite data for Directorate of Hydrocarbon.
- (vi) Land use / cover mapping of buffer zone of 10 Km. radius based on satellite data

for 12 mining projects of CCL for preparation of EMP.

- (vii) Land use / cover mapping of buffer zone of 10 Km. radius based on satellite data for 11 mining projects of MCL for preparation of EMP.
- (viii) Large scale land use / cover mapping of Manikpur, Kusmunda, Gevra and Dipka OCPs of Korba coalfield based on high resolution satellite for SECL.
- (ix) Land use / cover mapping of buffer zone of TISCO mine, West Bokaro Coalfield, Amlohri OCP, Singrauli Coalfield, Hura C OCP Rajmahal Coalfield based on satellite data for EMP.

**9.1.2 Survey & Drawing**

The following Survey works were completed during the year :

- i) OBR checks measurement was carried out on periodic basis for 37 OC mines (3 in ECL, 1 in BCCL, 5 in CCL, 5 in WCL, 6 in SECL, 8 in NCL and 9 in MCL).
- ii) Outsourcing patch surveys were conducted for 37 OC patches (13 in ECL, 13 in BCCL, 3 in CCL and 8 in SECL).
- iii) Underground Check survey in 6 UG mines (3 in ECL, 1 in CCL and 2 in SECL).
- iv) Correlation Survey in 3 UG mines of BCCL.
- v) Scale Conversion of 66 nos. mine plans (FPS to MKS).
- vi) Survey work of Proposed bridge site at Garjanbhal, MCL.

**9.2 Blasting**

CMPDI has been rendering specialised 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 Ltd. & outside agencies during 2004-05:

- (i) A total of 3 controlled blasting and vibration studies were carried out for different mines of CCL and MCL for relaxation of danger zone from 300m to 100m with respect to buildings / structures and inhabited localities.
- (ii) Fragmentation improvement was carried out in one mine of SECL.
- (iii) Random sampling, testing and analysis of explosives and explosive accessories were carried out in the mines of ECL, BCCL, CCL and WCL for assessment of quality of explosives supplied.
- (iv) Performance evaluation of 9 new explosive products of different manufacturers was carried out during the year as per the laid down norms of CIL.
- (v) Controlled blasting and vibration study was carried out for 2 mines belonging to organizations outside CIL.
- (vi) CMPDI is associated with CMRI in implementation of the following Coal S&T projects funded by MOC:
  - (a) "Standardization of blast vibration damage threshold for the residential implementation in collaboration with CMRI.
  - (b) "Optimization of Production from underground coal mines by achieving -longer pull" in collaboration with CMRI & SCCL.

### 9.3 Mining Electronics

CMPDI renders services to subsidiary companies of CIL in preparing feasibility reports/schemes, tender document for establishing communication network, 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:

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

- (i) Scheme for Voice and Data Communication Network for ECL, CCL and MCL
- (ii) Scheme for Communication Network for Bisrampur Area, SECL
- (iii) NIT for Voice and Data Communication Network for MCL, Implementation for Integrated Voice and Data Network of ECL (first phase) and EMS of Sudamdih and Amlabad Mines of BCCL.

#### 9.3.2 Repairing / Calibration / Testing of Electronic cards / Gas Monitors

Repair & calibration of 350 nos. methanometers and repair & testing of 144 HEMM Cards were carried out.

#### 9.4 Non-Destructive Testing (NDT)

NDT of 29 nos. of mine winder components, 16 nos. of cage suspension gears, 4 nos. dragline/shovel, 4 nos. of Structures of CHP, 3 nos. of Drawbars, 6 nos. of Skip/Cage (weld joints) and 86 nos. of CHP conveyor pulleys were carried out during the year:

#### 9.5 Management System Consultancy

CMPDI diversified into management system consultancy in 1998. While continuing to provide consultancy for ISO 9001 Quality Management System (QMS) and ISO 14001 Environmental Management System (EMS), CMPDI has also geared up for consultancy in OHSAS 18001 Occupational Health and Safety Assurance Series, Six Sigma application and industry specific translations of ISO 9001 e.g. ISO 17025, ISO 16949 etc. The scope of such consultancy services includes :

- (i) Creation of management systems
- (ii) Providing training support, and
- (iii) Implementation, certification and post certification support.

#### **9.5.1 Management System Consultancy for CIL and Its Subsidiary Companies**

CMPDI is presently providing management system consultancy to 46 establishments in CIL. These include some of the prestigious coal mining projects like Gevra, Dipka, Kusmunda (SECL), Rajmahal (ECL), Piparwar, KD Hesalong (CCL), Lakhapur, Kalinga, Samleswari (MCL) etc. In addition to NCL as a company including all its mines, support establishments and corporate functions.

#### **9.5.2 The details of ongoing consultancy in 2004-05**

- (i) ISO 9001 Certification of Sinidih central Workshop, Block-II and Muraidih OCPs and of Moonidih Underground and Moonidih washery of BCCL.
- (ii) ISO 9001/14001 Certification of Piparwar & KD Hesalong OCPs, ISO 14001 Certification of Gandhi Nagar central hospital, Ranchi and ISO 9001 Certification of 8 unit workshops of CCL.
- (iii) ISO 9001 Certification of Central Hospital, Kalla and Unit Workshop Sonepur- Bazari of ECL, ISO 9001/14001 Certification of Rajmahal Opencast Project, ECL
- (iv) ISO 9001 and 14001 Certification of Lakhapur, Samleshwari, Kalinga, Ananta and Belpahar OCPs of MCL.
- (v) ISO 9001 Certification of the whole company, including all 8 opencast projects, their coal handling, dispatch, equipment maintenance facilities, other units like central hospital, water supply scheme, central workshop/stores, and all HQ functions of NCL
- (vi) ISO 9001 Certification of Central Workshop - Gevra, Bijuri / Korea Regional Workshops, Nehru Centenary Hospital, Gevra and ISO 14001 Certification of Gevra, Dipka, and Kusmunda OCPs of SECL.
- (vii) ISO 9001 QMS Review for Central Workshop, Tadali and ISO 9001 and 14001 for Integrated Management System for WCL

#### **9.5.3 Special Achievement during 2004-05**

- (i) Padmapur OCP, WCL was certified against ISO 14001 Environment Management System during the year and became the first opencast project which has achieved both ISO 9001 and ISO 14001 certification under the consultancy guidance of CMPDI.
- (ii) CMPDI has acquired Six Sigma Black Belt competency certificate and has started providing consultancy in the field of applying Six Sigma techniques.
- (iii) CMPDI, for the first time in India, has created an Integrated Management System conforming to both ISO 9001 Quality Management System and ISO 14001 Environment management System for the opencast mines of MCL.

#### **10.0 OUTSIDE - CIL CONSULTANCY :**

During the year 2004-05, 26 consultancy jobs were completed for 21 organisations outside CIL (Annexure-II). Some of the major clients / organisations for whom jobs were completed are Uranium Corporation of India Ltd., Jharkhand State Mineral Development Corporation, National Aluminum Company Ltd., Manganese Ore (India) Ltd., Central Electricity Authority, Bharat Sanchar Nigam Ltd., Govt. of Nagaland, NABARD, Indian School of Mines, Steel Authority of India Ltd., Damodar Valley Corporation etc.

Presently, 23 outside consultancy jobs are in hand for 15 organisations like Central Pollution Control Board, Tata Iron & Steel Company Ltd. (Tata Steel), National Thermal Power Corporation Ltd., Indian School of Mines, Singareni Collieries Company Ltd., Jharkhand State Electricity Board, Jharkhand State Mineral Development Corporation, Rajasthan State Mines & Minerals Ltd., Chhattisgarh Mineral Development Corporation, Orissa Mining Corporation, Haryana Power Generation Corporation Ltd., etc.

During the year 2004-05, 30 jobs worth Rs.564.04 lakhs from 23 organisations were procured by CMPDI.

## LIST OF OUTSIDE - CIL CONSULTING JOBS COMPLETED DURING 2004-05

1. PERFORMANCE EVALUATION OF SMS BULK EXPLOSIVE 'SUPER MEC' FOR M/S AMA INDUSTRIES PVT. LTD.
2. PERFORMANCE EVALUATION OF POWERTEL-1 (P1) CODE A/M FOR M/S TAMILNADU INDUSTRIAL EXPLOSIVES LTD., VELLORE
3. PREPARATION OF SCHEME, BILL OF QUANTITY AND CONSTRUCTION DRAWINGS FOR PROPOSED STP AT RTTC IN BOOTI, RANCHI FOR M/S BSNL
4. PREPARATION OF MINING PLAN FOR ONE OF THE PROJECTS OF TISCO FOR M/S TISCO
5. NON DESTRUCTIVE EVALUATION OF MECHANICAL INTEGRITY OF VARIOUS COMPONENTS OF TWO 60 HP DOUBLE DRUM WINDERS LOCATED AT BHATIN MINES FOR M/S UCIL
6. TESTING OF VITRINITE REFLECTANCE BY USING LAB FACILITIES FOR M/S PREMIER OIL, NEW DELHI
7. PREPARATION OF RAPID EIA FOR TRANSPORTATION OF ASHES FROM CPP AND BACKFILLING OF VOIDS OF COAL MINES FOR M/S NALCO
8. DESIGN SCRUTINY FOR THE PROPOSED OFFICERS' QUARTERS FOR NABARD AT LUCKNOW FOR M/S NABARD
9. IDENTIFICATION OF NEW POTENTIAL COAL BLOCK FOR SETTING UP OF PIT HEAD COAL BASED POWER PLANT OF 23,000 MW ADDITIONAL CAPACITY FOR M/S CENTRAL ELECTRICITY AUTHORITY, NEW DELHI
10. COAL BASED POWER STATION(S) - 9 NOS. FOR M/S CENTRAL ELECTRICITY AUTHORITY, NEW DELHI
11. INTEGRATED DETAILED EXPLORATION IN KAMENG H.E. PROJECT IN ARUNACHAL PRADESH FOR M/S NEEPCO (WORK DROPPED ON MUTUAL CONSENT. AMOUNT PAYABLE ON MUTUAL CONSENT IS RS.15 LAKHS)
12. PREPARATION OF EXPLORATORY MODEL COAL MINE FOR MELAH-TZURANG (JHANI DESAI) VALLEY COAL BELT, JAT MERAKIYONG AREA, CHANGKI SECTOR, MOKOKCHUNG DIST., NAGALAND
13. STUDY OF DRILLING AND BLASTING AT JILLING LANGALOTA IRON & MANGANESE MINES FOR M/S ESSEL MINING & INDUSTRIES LTD.
14. PREPARATION OF TEFR, TENDER DOCUMENT, MODIFICATION, AUGMENTATION OF EXISTING CRUSHING & SCREENING PLANT AT BALAGHAT FOR WET WASHING & SCREENING, GRAVITY SEPARATION, ETC. INCLUDING ADDITIONAL WORK (CAPACITY - 1500 TPD) FOR M/S MANGANESE ORE (INDIA) LTD
15. NON-DESTRUCTIVE TESTING (NDT) OF WINDERS AT SIX MINES OF MOIL FOR M/S MANGANESE ORE (INDIA) LTD
16. SUPERVISION OF SAMPLE COLLECTION AND ANALYSIS OF IMPORTED COAL FOR M/S STEEL AUTHORITY OF INDIA LTD.
17. PERFORMANCE EVALUATION OF SMS BULK EXPLOSIVE 'SUPER MEC' FOR M/S AMA INDUSTRIES PVT. LTD.

|     |                                                                                                        |                                                                                                                                           |
|-----|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 18. | WATER HARVESTING PLAN FOR EXISTING SIKNI MINES FOR M/S JHARKHAND STATE MINERAL DEVELOPMENT CORPORATION | HARVESTING SCHEME AND ENVIRONMENTAL STATEMENT FOR DVC, BERMU MINES FOR M/S DAMODAR VALLEY CORPORATION                                     |
| 19. | PERFORMANCE EVALUATION OF P-5 EXPLOSIVES FOR M/S BHARAT EXPLOSIVES                                     | 24. ESTIMATION OF NORMATIVE COST OF SAND STOWED/TRANSPORTED FOR 1 NEW MINE OF IISCO FOR M/S INDIAN IRON & STEEL COMPANY LTD               |
| 20. | PERFORMANCE EVALUATION OF ELECTRONIC DETONATORS FOR M/S IES INDIA LTD.                                 | 25. PMC WORK FOR SPORTS COMPLEX AT ISM, DHANBAD FOR M/S INDIAN SCHOOL OF MINES, DHANBAD                                                   |
| 21  | DRILLING AND BLASTING STUDIES WITH SMS EXPLOSIVES FOR M/S RUNGTA MINES                                 | 26. NON-DESTRUCTIVE TESTING (NDT) OF VARIOUS COMPONENTS OF 220 KW DOUBLE DRUM WINDER COMPONENTS FOR M/S URANIUM CORPORATION OF INDIA LTD. |
| 22. | DRILLING AND BLASTING STUDIES WITH SMS EXPLOSIVES FOR M/S ESSEL MINING INDUSTRIES LTD.                 |                                                                                                                                           |
| 23. | PREPARATION OF RAPID EIA, RAINWATER                                                                    |                                                                                                                                           |

**11.0 MANPOWER AND WELFARE ACTIVITIES****11.1 Manpower**

| Particulars    | As on March 31, 2004 | As on March 31, 2005 |
|----------------|----------------------|----------------------|
| Executive      | 863                  | 830                  |
| Non- Executive |                      |                      |
| Monthly Rated  | 1458                 | 1461                 |
| Daily Rated    | 1045                 | 999                  |
|                | 2503                 | 2460                 |
| Grand Total    | 3366                 | 3290                 |

**11.2 Welfare Activities**

- (i) Efforts made to finalise the terminal benefit i.e. gratuity, leave encashment, processing of final settlement of CMPF and pension cases under CMPS-98 in respect of the employees who have their exit during 2004-05.
- (ii) Regular meetings of joint consultative committee and other of operating unions were held for maintaining harmonious industrial relation.
- (iii) Annual sports of the Company was organized and steps taken for employees to participate in inter company sports and other sports activities.

**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 Ltd 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 meetings of Board of Directors and other meetings, the monthly and Annual reports

of your Company also continued to be prepared bilingually. The publication of "Desh Kal Sampada" a renowned & National level House Magazine of your Company enhanced the creative writing in Hindi, which fetch laurel all over.

The month of September was organized as Hindi month as per the directive of Ministry of Coal under which several Hindi competitions were organized. A large number of employees participated in all competitions held during the month and winners were awarded suitably. A grand Akhil Bharatiya Kavi Sammelan was organized successfully to propagate & make Hindi popular among the employees of the Company, which was highly appreciated during the year under review. The Hindi poets of national & international fame & repute were invited for the same.

Four Hindi workshops were also organized under the aegis of STC (HRD) to facilitate the use of Official Language Hindi in day-to-day official work. A special Hindi workshop was organized specially for all Executives of M-1 & M-2 level to make them aware of all the provisions of the Official Language Act and the recommendations & directives of the Committee of Parliament on official language issued from time to time. Four quarterly meetings of official language implementation committee were held under the Chairmanship of CMD to review quarterly progress of official language in different departments of the company as per the directive and annual programme issued by the ministry of Home affairs department of official language.

Your company has been awarded the 2nd best prize (Trophy) and appreciation letter for overall achievements & progress made in the field of implementation of Official Language amongst Public Sector Undertakings by the Town Official Language Committee, Ministry of Home Affairs.

**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 S. K. Basu & Co., Chartered Accountants, Kolkata were appointed as Auditors of the Company for the financial year 2004-05. 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, Uranium Corporation of India Ltd., National Thermal Power Corporation Ltd., Jharkhand State Minerals Development Corporation, National Aluminum Company Ltd., Manganese Ore (India) Ltd., Central Electricity Authority, Bharat Sanchar Nigam Ltd., Govt. of Nagaland, NABARD, Indian School of Mines, Steel Authority of India Ltd., Central Pollution Control Board, Damodar Valley Corporation 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 : 27. 08. 2005

(S. Chaudhuri)

Chairman-cum-Managing Director

**AUDITOR'S REPORT**

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

We have audited the attached Balance Sheet of Central Mine Planning and Design Institute Limited as at 31<sup>st</sup> March 2005 and the Profit and Loss Account of the company for the year ended on that date. 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.

We report as follows :

- (1) We conducted our audit in accordance with the accounting 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
- (2) The accounts together with accounting policies and notes thereon approved by the board of Directors and reported upon by us on 21<sup>st</sup> June, 2005 have been amended based on the audit conducted by the Comptroller & Auditor General of India as explained in Note No.15.0 of the Notes to Accounts (Schedule 18) and have been approved by the Board of Directors by way of Circular Resolution on 10<sup>th</sup> August, 2005.

**MANAGEMENTS' REPLY**

| AUDITOR'S REPORT                                                                                                                                                                                                                                                                                                                                                       | MANAGEMENTS' REPLY                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (3) As required by the Companies (Auditor's Report) Order, 2003 as amended by The Companies (Auditors Report) (Amendment Order), 2004 issued by the Central Government of India in terms of sub section (4A) of Section 227 of The Companies Act, 1956, we enclose in the Annexure hereto a statement on the matters specified in paragraphs 4 and 5 of the said Order |                                                                                                                                                                                                          |
| (4) Further to our comments in the Annexure referred to in paragraph 3 above, we report that:-                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |
| (A) <b>Comments on accounts :-</b>                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                          |
| (i) Depreciation has not been provided in the accounts at appropriate rates on plant and machinery included in buildings (Policy no.7.1 in Schedule 17 and Note No. 1.2.2 in Schedule-18).                                                                                                                                                                             | Effort is being made to segregate the Plant & Machinery from Buildings and to provide appropriate rate of depreciation on them.                                                                          |
| (ii) Buildings cost or WDV includes Rs.1041.96 lakh 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-18).                                                                                                                                                                          | No comments                                                                                                                                                                                              |
| (iii) No depreciation has been charged on buildings included in Gondwana land (Note no.1.2.1 in Schedule 18).                                                                                                                                                                                                                                                          | This is the Accounting Policy of the Company followed since inception. The depreciation of the old building purchased along with land could not be charged in absence of separate value of the building. |
| (iv) 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.3.1.2 in Sch.-18).                                                                                                                                                                              | The entire amount is recoverable after the reconciliation.                                                                                                                                               |
| (v) As indicated in Note No.3.1.3 in Schedule 18, balances in debtors are yet to be confirmed. Balances in loans and advances and sundry creditors are also not confirmed.                                                                                                                                                                                             | Letters have already been issued for confirmation of balance in Debtors (other than CIL Subsidiaries).                                                                                                   |

| AUDITOR'S REPORT                                                                                                                                                                                                                                                                                                                                                                                                                                  | MANAGEMENTS' REPLY |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| (vi) In terms of the NCWA-VII agreement, recently concluded with the labour unions, a provision of Rs.1639.43 lakhs was made in respect of arrear salary payable to non-executives on account of Wages/pay revision effective for the period from 01/07/2001 to 31/03/2005. (Refer Note No. 4.3.2 in Schedule 18). The impact on the Profit and Loss account & Balance Sheet has been indicated in Note No.15 of Notes to Account in Schedule 18. | No Comments        |
| (vii) As indicated in Note no.9.2.1 in Schedule 18 there are certain suits pending in courts arising out of industrial and other disputes .The quantum of contingent liability in this regard could not be ascertained by the management.                                                                                                                                                                                                         | No Comments        |
| (viii) Impact of the above comments (i) to (v) on Profit/Loss or Assets/Liabilities is unascertained. There is no impact of comment (vii) on any of them.                                                                                                                                                                                                                                                                                         | No Comments        |
| (ix) Change in accounting policy :<br><br>Software is amortised over a period of three years as per AS-26, as per Note No. 1.1.4 in Schedule 18. In previous years, software was included under Plant and Machinery. Rs.16.77 lakhs was adjusted against revenue reserves (accumulated balance of Profit and Loss) and represents adjustment in the opening balance of the carrying amount of the software asset.                                 | No Comments        |
| (x) Change in profit after tax as per AS-22- accounting for Taxes on Income- Deferred Tax Asset (Net) stands at Rs.1007.95 lakhs (Note No.11.0 in Schedule 18 ) against Rs.819.58 lakhs last year . Necessary book adjustment has been made by crediting Profit and Loss Account with an additional amount of Rs.188.37 lakhs.                                                                                                                    | No comments        |

| AUDITOR'S REPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MANAGEMENTS' REPLY |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| (xi) A provision has been made in the accounts at 50 % of the value of non moving stores items and at 100% of obsolete store items. (Note No.2.2 of Schedule 18).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No comments        |
| (xii) The management has done testing for impairment of assets in compliance of AS-28 and have reported no impairment losses as per Note No.1.1.5 in Schedule-18.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No comments        |
| <b>(B) Subject to our comments in paragraph (A) above :</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |
| <ol style="list-style-type: none"> <li data-bbox="181 749 856 939">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.</li> <li data-bbox="181 939 856 1129">2. In our opinion, proper books of accounts as required by law has been kept by the company so far as appears from our examination of the books.</li> <li data-bbox="181 1129 856 1256">3. The Balance Sheet and the Profit and Loss Account dealt with by this report are in agreement with the books of account;</li> <li data-bbox="181 1256 856 1594">4. In our opinion, the Profit and Loss Account and Balance Sheet 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)</li> <li data-bbox="181 1594 856 1987">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 a private company.</li> </ol> |                    |

| AUDITOR'S REPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MANAGEMENTS' REPLY |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <p>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 17) and Notes on accounts (Schedule 18), give the information required by The Companies Act, 1956, in the manner so required and give a true and fair view :</p> <p>a. In the case of the Balance sheet, of the state of affairs of the company as at 31<sup>st</sup> March, 2005.</p> <p>b. In the case of the Profit and Loss Account, of the loss of the company for the year ended on that date.</p> <p>c. In the case of the Cash Flow statement, of the cash flows for the year ended on that date.</p> |                    |

For S.K.BASU & Co.  
Chartered Accountants

S.K.Chakravarti  
Partner  
(Membership No.3708)

Place : Kolkata

Dated: 11th August, 2005

| ANNEXURE TO THE AUDITORS REPORT                                                                                                                                                                                                                                 | MANAGEMENTS' REPLY |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| (REFERRED TO IN PARAGRAPH 3 OF OUR REPORT OF EVEN DATE ON THE ACCOUNTS OF CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED FOR THE YEAR ENDED 31 <sup>ST</sup> MARCH, 2005)                                                                                   |                    |
| 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.                                                                                                 | No comments        |
| (b) A major portion of the high value assets have been physically verified by the management in accordance with a phased programme of verification adopted by the company. As explained to us, no material discrepancies were noticed on such verification.     | No comments        |
| (c) In our opinion, the Company has not disposed off a substantial part of the fixed assets during the year and the going concern status of the Company has not been affected.                                                                                  | No comments        |
| 2. In respect of its inventories :                                                                                                                                                                                                                              |                    |
| (a) The stock of high value stores and spare parts have 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        |

| ANNEXURE TO THE AUDITORS REPORT                                                                                                                                                                                                                                                                                                           | MANAGEMENTS' REPLY |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 3. In respect of loans, secured or unsecured, granted or taken by the Company to/from companies, firms or other parties covered in the register maintained under Section 301 of The Companies Act, 1956 :                                                                                                                                 |                    |
| (a) The Company has not granted or taken any loan, secured or unsecured from companies, firms or other parties covered in the register maintained under section 301 of the Act.                                                                                                                                                           | No comments        |
| (b) The Company has not taken loans, secured or unsecured from companies, firms or other parties listed in the register maintained under section 301 of the Act. The company has taken unsecured loan from its holding company, Coal India Limited.                                                                                       | No comments        |
| (c) 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 not prejudicial to the interest of the Company.                                                                                | No comments        |
| (d) In respect of the loan taken by the Company from Coal India Limited, interest payments are regular and the principal is repayable on demand.                                                                                                                                                                                          | No comments        |
| (e) In respect of loans taken from Coal India Ltd., these are repayable on demand and therefore the question of overdue amounts does not arise.                                                                                                                                                                                           | No comments        |
| 4. In our opinion, there is an adequate internal control system commensurate with the size of the company and the nature of its business, for the purchase of inventory and fixed assets and for the sale of goods and services. During the course of our audit , we have not observed any major weakness in the internal control system. | No comments        |
| 5. In respect of transactions covered under Section 301 of The Companies Act, 1956 :-                                                                                                                                                                                                                                                     |                    |
| (i) In our opinion and according to the information and explanations given to us, there were no transactions made in pursuance of contracts or arrangements that needed to be entered in the register maintained under Section 301.                                                                                                       | No comments        |

| ANNEXURE TO THE AUDITORS REPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MANAGEMENTS' REPLY                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (2) In our opinion and according to the information and explanations given to us, there were no transactions made in pursuance of contracts or arrangements entered in the register maintained under Section 301 and exceeding Rs. Five lakhs at prices which are not reasonable having regard to the prevailing market prices at the relevant time.                                                                                                                                                                                                                                                                                                                                            | No comments                                                                                                                                                        |
| 6. The Company has not accepted any deposits from the public within the meaning of Section 58A and 58AA or any other relevant provision of the Act.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No comments                                                                                                                                                        |
| 7. The company has appointed outside firms of chartered accountants for internal audit of Headquarters and Regional institutes , except for Regional Institute I and II at Asansol and Dhanbad 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.                                                                                                                                                                                                                                                                                                       | Functional coverage has already been increased. Locational coverage to include RI-1 & RI-2 at Asansol and Dhanbad respectively has already been taken up with CIL. |
| 8. We have been informed that the Central Government has not prescribed the maintenance of cost records under Section 209(1) (d) of The Companies Act, 1956 for the Company.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No comments                                                                                                                                                        |
| 9. In respect of statutory dues :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                    |
| (1) According to the records of the Company, the company is generally regular in depositing undisputed statutory dues such as provident fund, investor education and protection fund, income tax, sales tax, wealth tax, service tax, customs duty, excise duty, cess and any other dues with the appropriate authorities. According to the explanations given to us, Employees State Insurance Scheme is not applicable to the company. According to the information and explanations given to us , no undisputed amounts payable in respect of the aforesaid dues were outstanding as at 31 <sup>st</sup> March, 2005 for a period of more than six months from the date they became payable. | No comments                                                                                                                                                        |

## ANNEXURE TO THE AUDITORS REPORT

## MANAGEMENTS' REPLY

(2) The disputed statutory dues aggregating to Rs.95.27 Lakhs that have not been deposited on accounts of matters pending before appropriate authorities are as under :

| Sl. No. | Name of Statute | Nature of dues | Amount Rs.lakhs | Forum where dispute is Pending |
|---------|-----------------|----------------|-----------------|--------------------------------|
| 1.      | Income tax Act  | Income Tax     | 29.08           | CIT Appeals, Ranchi            |
|         |                 | - Do -         | 3.88            | Income tax Appellate           |
|         |                 | - Do -         | 2.20            | Tribunal Ranchi                |
|         |                 | TDS on perks   | 19.23           | Supreme court                  |
| 2.      | Service Tax Act | Service Tax    | 40.24           | Service tax Tribunal, Kolkata  |
| 3.      | Sales tax Act   | Sales Tax      | 0.64            | Sales Tax Authority            |
|         |                 | Total          | 95.27           |                                |

10. The Company has no accumulated losses but has incurred cash losses from operating activities during the financial year covered by our audit. However, it has earned a net profit for the year after charging depreciation and interest.

11. According to the information and explanations given to us, we are of the opinion that the company has no dues to financial institutions, banks or debenture holders.

12. According to the information and explanations given to us, the company has not granted any loans and advances on the basis of security by way of pledge of shares, debentures and other securities.

13. The Company is not a chit fund, nidhi or mutual benefit fund/society. Therefore, clause(xiii) of CARO is not applicable to the company.

No comments

No comments

No comments

No comments

No comments

| ANNEXURE TO THE AUDITORS REPORT                                                                                                                                                             | MANAGEMENTS' REPLY |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 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 and 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 debentures 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 has reported during the year.                                                            | No comments        |

For S.K.BASU & Co  
Chartered Accountants

Place : Kolkata  
Dated: 11th August, 2005

(S.K.Chakravarti)  
Partner  
(Membership No.3708)

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**Comments of the Comptroller & Auditor General of India under  
section 619 (4) of the Companies Act, 1956 on the accounts of Central  
Mine Planning & Design Institute Limited for the year ended**

**31 - 03 - 2005**

In view of the revisions made in the Accounts of the Company as a result of the observations made by the Comptroller & Auditor General of India as indicated in Para No. (2) of Auditors' Report to the shareholders and items no. 15 of the Notes on Accounts (Schedule 18) forming part of the accounts, which has the effect of decrease in profit by Rs. 35.42 lakh (before tax), there are no further comments to offer upon or supplement to the Auditor's Report under section 619 (4) of the Companies Act, 1956 on the Accounts of Central Mine Planning & Design Institute Limited for the year ended 31st March 2005.

Sd/-

(B. Mazumdar)

Principal Director of Commercial Audit

& Ex-officio Member Audit Board-II

Kolkata

Dated : 23rd August 2005  
Kolkata

**REVIEW OF ACCOUNTS OF  
CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED,  
FOR THE YEAR ENDED 31st MARCH, 2005 BY  
THE COMPTROLLER & AUDITOR GENERAL OF INDIA**

Note : Review of Accounts has been prepared without taking into account comments under section 619 (4) of the Companies Act, 1956 and qualification contained in the Statutory Auditors' Report.

**1. FINANCIAL POSITION**

The table below summarises the financial position of the Company under broad headings for the last three years :

|                                                                              | 2002-2003       | 2003-2004       | 2004-05         |
|------------------------------------------------------------------------------|-----------------|-----------------|-----------------|
| <b>LIABILITIES</b>                                                           |                 |                 |                 |
| a. Paid up Capital                                                           | 1904.00         | 1904.00         | 1904.00         |
| (i) Government                                                               | 0.00            | 0.00            | 0.00            |
| (ii) Others (All Shares are held by<br>Coal India Limited - Holding Company) | 1904.00         | 1904.00         | 1904.00         |
| b. Reserves & Surplus                                                        |                 |                 |                 |
| (i) Free Reserves & Surplus                                                  | 2442.82         | 2297.62         | 2383.24         |
| (ii) Share Premium Account                                                   | 0.00            | 0.00            | 0.00            |
| (iii) Capital Reserve                                                        | 1855.17         | 1768.43         | 1693.73         |
| c. Borrowing from                                                            |                 |                 |                 |
| (i) Government of India                                                      | 0.00            | 0.00            | 0.00            |
| (ii) Financial Institutions                                                  | 0.00            | 0.00            | 0.00            |
| (iii) Foreign currency loans                                                 | 0.00            | 0.00            | 0.00            |
| (iv) Cash credit                                                             | 0.00            | 0.00            | 0.00            |
| (v) Working Capital Demand Loan                                              | 0.00            | 0.00            | 0.00            |
| (vi) Interest accrued and due                                                | 18.06           | 17.36           | 13.65           |
| (vii) Holding company                                                        | 160.57          | 160.57          | 160.57          |
| d. (i) Current Liabilities & Provisions                                      | 11211.22        | 15274.24        | 15649.29        |
| (ii) Provision for Gratuity                                                  | 1875.65         | 2564.07         | 3007.58         |
| <b>Total</b>                                                                 | <b>19467.49</b> | <b>23986.29</b> | <b>24812.06</b> |
| <b>ASSETS</b>                                                                |                 |                 |                 |
| e. Gross Block                                                               | 11872.72        | 12178.74        | 12319.03        |
| f. Less : Depreciation                                                       | 6085.32         | 6492.30         | 6822.15         |
| g. Net Block                                                                 | 5787.40         | 5686.44         | 5496.85         |
| h. Capital Work-in-Progress                                                  | 449.72          | 539.67          | 498.88          |
| i. Investments                                                               | 0.00            | 0.00            | 0.00            |
| j. Current Assets, Loans & Advances                                          | 12329.56        | 16848.30        | 17791.31        |
| k. Net Deferred Tax Asset                                                    | 632.18          | 819.58          | 1007.95         |
| l. Miscellaneous Expenditure not written off                                 | 268.63          | 92.30           | 0.00            |
| m. Accumulated Losses                                                        | 0.00            | 0.00            | 0.00            |
| n. Intangible Assets (Software)                                              | 0.00            | 0.00            | 17.07           |
| <b>Total</b>                                                                 | <b>19467.49</b> | <b>23986.29</b> | <b>24812.06</b> |

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

|    |                                                 |         |         |         |
|----|-------------------------------------------------|---------|---------|---------|
| a. | Working Capital [ j - d(i) -c(vi) ]             | 1100.28 | 1556.70 | 2128.37 |
| b. | Capital Employed [ g+o ]                        | 6887.68 | 7243.14 | 7625.22 |
| c. | Net Worth [ a + b(i) +b(ii) -l -m ]             | 4078.19 | 4109.32 | 4207.24 |
| d. | Net worth per Rupee of paid up Capital (in Rs.) | 2.14    | 2.16    | 2.25    |

**2. RATIO ANALYSIS :**

Some important ratios on the financial health and working of the Company at the end of last three years are as under :

|                   |                                                                                                                                                         | 2002-2003 | 2003-2004 | 2004-05 |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|---------|
| ( In percentage ) |                                                                                                                                                         |           |           |         |
| A.                | Liquidity Ratio                                                                                                                                         |           |           |         |
|                   | Current Ratio ( Current Assets to Current Liabilities & Provisions and Interest accrued and due but excluding provisions for gratuity) [j/(d(i)+c(vi))] | 109.80    | 110.18    | 113.59  |
| B.                | Debt Equity Ratio                                                                                                                                       |           |           |         |
|                   | Long term debt to Net Worth [c(i) to c(v) excluding short term loans/q]                                                                                 | 0.00      | 0.00      | 0.00    |
| C.                | Profitability Ratios :                                                                                                                                  |           |           |         |
|                   | Profit before tax to :                                                                                                                                  |           |           |         |
|                   | (i) Capital employed                                                                                                                                    | 2.89      | 2.42      | 2.27    |
|                   | (ii) Net Worth                                                                                                                                          | 4.88      | 4.27      | 4.04    |
|                   | (iii) Sales                                                                                                                                             | 1.61      | 1.23      | 1.14    |
|                   | Profit after tax to Equity                                                                                                                              | 24.39     | -7.63     | 5.38    |
|                   | Earning per share (in Rupees)                                                                                                                           | 243.90    | -76.26    | 53.78   |

**3. WORKING RESULTS**

The working results of the Company for the last three years ended 31st March 2005 are as under :

Rs in lakh

|  |                                                    | 2002-2003 | 2003-2004 | 2004-05  |
|--|----------------------------------------------------|-----------|-----------|----------|
|  | Sales                                              | 12339.03  | 14230.29  | 15114.98 |
|  | Less Excise Duty                                   | 0.00      | 0.00      | 0.00     |
|  | Net Sales                                          | 12339.03  | 14230.29  | 15114.98 |
|  | Other adjustment and Miscellaneous Income          | 63.03     | 102.20    | 79.79    |
|  | Profit(+)/Loss(-) before tax and P. P. Adjustments | 14.77     | -21.04    | 173.40   |
|  | Prior Period Adjustments                           | -184.44   | -196.63   | 0.38     |
|  | Profit (+) /Loss (-) before tax                    | 199.21    | 175.59    | 173.02   |
|  | Tax Provisions { debit (+) / credit (-) }          | -265.18   | 320.79    | 70.63    |
|  | Profit (+) / Loss (-) after tax                    | 464.39    | -145.20   | 102.39   |
|  | Proposed Dividend                                  | 0.00      | 0.00      | 0.00     |

\* Tax provisions for 2002-03, 2003-04 and 2004-05 includes a credit of Rs 632.18 lakh, Rs 187.40 lakhs and Rs. 188.37 lakh respectively against provision for Deferred Tax.

## 4. SOURCES AND UTILISATION OF FUNDS :

Funds amounting to Rs. 490.66 lakh were generated and utilised during the year 2004-05 as given below :

|                                           | (Rs. In lakh ) |               |               |
|-------------------------------------------|----------------|---------------|---------------|
|                                           | 2002-2003      | 2003-2004     | 2004-2005     |
| (a) Profit (+) / Loss (-) after tax       | 464.39         | -145.20       | 102.30        |
| (b) Depreciation                          | 400.85         | 406.98        | 329.88        |
| Less : Deprn. Charged to Capital Reserve  | 169.96         | 230.89        | 152.86        |
| (c) Decrease in Capital Work-in-progress  | 0.00           | 0.00          | 40.79         |
| (d) Decrease in Working Capital           | 0.00           | 232.70        | 0.00          |
| (e) Decrease in Miscellaneous Expenditure | 86.01          | 176.33        | 92.30         |
| (f) Capital Grants received               | 50.48          | 66.12         | 66.69         |
| <b>Total Sources of Funds</b>             | <b>831.77</b>  | <b>584.07</b> | <b>490.66</b> |
| <b>UTILISATION OF FUNDS</b>               |                |               |               |
| (a) Increase in Fixed assets              | 44.42          | 306.02        | 140.29        |
| (b) Increase in Capital Work-in-progress  | 22.78          | 89.95         | 0.00          |
| (c) Increase in Working Capital           | 129.58         | 0.00          | 124.45        |
| (d) Decrease in Borrowings                | 2.81           | 0.70          | 3.71          |
| (e) Increase in Deferred Tax Assets       | 632.18         | 187.40        | 188.37        |
| (f) Increase in Miscellaneous Expenditure | 0.00           | 0.00          | 0.00          |
| (g) Intangible Assets                     | 0.00           | 0.00          | 17.07         |
| (h) Amortisation of Software              | 0.00           | 0.00          | 16.77         |
| <b>Total Utilisation of Funds</b>         | <b>831.77</b>  | <b>584.07</b> | <b>490.66</b> |

## 5. TREND IN SALES, COST OF SALES AND PROFIT VARIED

|                                                                                      | Rs in Lakhs |           |           |
|--------------------------------------------------------------------------------------|-------------|-----------|-----------|
|                                                                                      | 2002-2003   | 2003-2004 | 2004-2005 |
| Sales                                                                                | 12339.03    | 14230.29  | 15114.98  |
| Less : Profit (+) / Loss (-) for the year<br>(before Taxation and prior period Adj.) | 14.77       | -21.04    | 173.40    |
| Cost of Sales                                                                        | 12324.26    | 14251.33  | 14941.56  |
| Percentage of Profit (+) / Loss (-) to Cost of Sales                                 | 0.12        | -0.15     | 1.16      |
| Percentage of Cost of Sales to Sales                                                 | 99.88       | 100.15    | 98.85     |

## 6. INVENTORY HOLDINGS

Closing Stock of stores and spares represented 4.78 months consumption in 2002-03, 5.15 months consumption in 2003-04 and 6.14 months consumption in 2004-05.

Closing Stock of Stores and spares as on 31st March, 2005 valued at Rs 459.47 lakh includes Stores and spares for Rs 87.57 lakh which have not moved for over 3 years.

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

**7. SUNDRY DEBTORS**

The value of Sundry Debtors and Sales for the last three years are given below :

| As on      | Sundry<br>Debtors | Sales    | Percentage<br>of Debtors<br>to Sales |
|------------|-------------------|----------|--------------------------------------|
| 31.03.2003 | 8090.22           | 12339.03 | 65.57                                |
| 31.03.2004 | 10905.47          | 14230.29 | 76.64                                |
| 31.03.2005 | 11806.81          | 15114.98 | 78.11                                |

The age-wise break-up of Sundry Debtors as at the end of the year 2004-05 is as follows :

| Debtors outstanding for                    | Dues from<br>Govt. Deptt. | Dues from<br>PSUs/Corpo-<br>ration/Board | Dues from<br>Private<br>Parties | (Rs in lakhs) |          |
|--------------------------------------------|---------------------------|------------------------------------------|---------------------------------|---------------|----------|
|                                            |                           |                                          |                                 | Total         |          |
| Less than 6 months                         | 0.00                      | 6760.67                                  | 8.03                            |               | 6768.70  |
| More than 6 months<br>but less than 1 year | 9.80                      | 547.38                                   | 3.26                            |               | 560.44   |
| More than 1 year<br>but less than 3 years  | 30.36                     | 1360.43                                  | 16.91                           |               | 1470.70  |
| Above 3 years                              | 2.36                      | 3052.69                                  | 14.92                           |               | 3069.97  |
| Total                                      | 42.52                     | 11721.17                                 | 43.12                           |               | 11806.81 |

Sd/-

( B. Mazumdar )

Principal Director of Commercial Audit  
& Ex-officio Member Audit Board - II

Kolkata

The 23rd August, 2005

## BALANCE SHEET AS AT 31ST MARCH, 2005

|                                                                   | Schedule | As at<br>31st March 2005<br>(Rs in Lakh) | As at<br>31st March 2004<br>(Rs in Lakh) |
|-------------------------------------------------------------------|----------|------------------------------------------|------------------------------------------|
| <b>SOURCES OF FUNDS</b>                                           |          |                                          |                                          |
| <b>Shareholders' Funds</b>                                        |          |                                          |                                          |
| Share Capital                                                     | A        | 1904.00                                  | 1904.00                                  |
| Share Money pending allotment                                     | B        | 0.00                                     | 0.00                                     |
| Reserves & Surplus                                                | C        | 4076.97                                  | 4066.05                                  |
| <b>Loan Funds</b>                                                 |          |                                          |                                          |
| Secured                                                           | D        | 0.00                                     | 0.00                                     |
| Unsecured                                                         | E        | 174.22                                   | 177.93                                   |
| <b>Total Funds Employed</b>                                       |          | <b>6155.19</b>                           | <b>6147.98</b>                           |
| <b>APPLICATION OF FUNDS</b>                                       |          |                                          |                                          |
| <b>Fixed Assets</b>                                               |          |                                          |                                          |
| Gross Block                                                       | F        | 12294.16                                 | 12156.08                                 |
| Less : Depreciation                                               |          | <u>6822.18</u>                           | <u>6492.30</u>                           |
| Net Block                                                         |          | 5471.98                                  | 5663.78                                  |
| Surveyed off Assets                                               |          | 24.87                                    | 22.66                                    |
| Capital Work in Progress                                          | G        | 498.88                                   | 539.67                                   |
| <b>Investment</b>                                                 | H        | 0.00                                     | 0.00                                     |
| <b>Deferred Tax (net)</b>                                         |          | 1007.95                                  | 819.58                                   |
| <b>Current Assets, Loans &amp; Advances</b>                       |          |                                          |                                          |
| Inventories                                                       | I        | 366.36                                   | 294.65                                   |
| Sundry Debtors                                                    | J        | 11756.30                                 | 10866.45                                 |
| Cash & Bank Balances                                              | K        | 2440.57                                  | 3295.84                                  |
| Loans & Advances                                                  | L        | 2722.46                                  | 1910.42                                  |
| Other Current Asset                                               | M        | 505.62                                   | 480.94                                   |
| <b>Total Current Assets, Loans &amp; Advances</b>                 |          | <b>17791.31</b>                          | <b>16848.30</b>                          |
| Less: Current Liabilities & Provisions                            | N        | <u>18656.87</u>                          | <u>17838.31</u>                          |
| Net Current Assets                                                |          | -865.56                                  | -990.01                                  |
| Miscellaneous Expenditure                                         | O        | 0.00                                     | 92.30                                    |
| (To the extent not written off or adjusted)                       |          |                                          |                                          |
| Intangible Assets                                                 | P        | <u>17.07</u>                             | <u>0.00</u>                              |
| <b>Accounting Policy</b>                                          | 17       | <b>6155.19</b>                           | <b>6147.98</b>                           |
| <b>Notes On Accounts</b>                                          | 18       |                                          |                                          |
| The schedules referred to above form an integral part of Accounts |          |                                          |                                          |

Sd/-  
**(Udayan Chakrabarti)**  
 Company Secretary

Sd/-  
**(A. K. Soni)**  
 H. O. D. ( Finance)

Sd/-  
**(B. Bhattacharya)**  
 Director

Sd/-  
**(S. Chaudhuri)**  
 Chairman-cum  
 Managing Director

In terms of our report of even date attached  
**For S. K. Basu & Co.**  
 Chartered Accountants

Camp : Kolkata  
 Dated : 11th August, 2005

Sd/-  
**(S. K. Chakravarti)**  
 Partner

## CENTRAL MINE PLANNING &amp; DESIGN INSTITUTE LIMITED

## PROFIT &amp; LOSS ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2005

| at<br>2004<br>Lakh) |                                                                      | Schedule | Current year<br>Year ending     | Previous Year<br>Year ending    |
|---------------------|----------------------------------------------------------------------|----------|---------------------------------|---------------------------------|
|                     |                                                                      |          | 31st March 2005<br>(Rs in Lakh) | 31st March 2004<br>(Rs in Lakh) |
|                     |                                                                      |          |                                 |                                 |
|                     | <b>INCOME</b>                                                        |          |                                 |                                 |
| 04.00               | Sale of services                                                     | 1        | 15114.98                        | 14230.28                        |
| 0.00                | Coal issued for other purpose                                        | 2        | -                               | -                               |
| 166.05              | Accretion/Decretion(-) in stock                                      | 3        | -                               | -                               |
| 0.00                | Workshop job for own purpose                                         | 4        | -                               | -                               |
|                     | Other income                                                         | 5        | 79.79                           | 102.20                          |
|                     | <b>Total Income</b>                                                  |          | <b>15194.77</b>                 | <b>14332.49</b>                 |
|                     | <b>EXPENDITURE</b>                                                   |          |                                 |                                 |
| 177.93              | Consumption of Stores & Spares                                       | 6        | 715.59                          | 687.16                          |
| 147.98              | Employees Remuneration & Benefits                                    | 7        | 11164.03                        | 10696.40                        |
|                     | Social Overhead                                                      | 8        | 893.15                          | 823.31                          |
|                     | Power & Fuel                                                         | 9        | 166.79                          | 188.01                          |
|                     | Repairs                                                              | 10       | 217.65                          | 185.87                          |
| 563.78              | Contractual Expenses                                                 | 11       | 272.45                          | 270.26                          |
| 22.66               | Miscellaneous Expenses                                               | 12       | 1351.21                         | 1255.17                         |
| 539.67              | <b>Total Expenditure</b>                                             |          | <b>14780.87</b>                 | <b>14106.18</b>                 |
|                     | <b>GROSS OPERATING PROFIT(+) / LOSS(-)</b>                           |          | <b>413.90</b>                   | <b>226.31</b>                   |
| 0.00                | Interest                                                             | 13       | 21.18                           | 42.70                           |
| 819.58              | Depreciation                                                         |          | 202.41                          | 202.28                          |
|                     | Provisions                                                           | 14       | 16.91                           | 2.37                            |
|                     | <b>PROFIT(+) / LOSS(-) FOR THE YEAR</b>                              |          | <b>173.40</b>                   | <b>-21.04</b>                   |
|                     | Prior Period Adjustment                                              | 15       | 0.38                            | -196.63                         |
|                     | Extra Ordinary items                                                 | 16       | -                               | -                               |
|                     | <b>NET PROFIT(+) / LOSS(-) BEFORE TAXATION</b>                       |          | <b>173.02</b>                   | <b>175.59</b>                   |
|                     | Provision for Taxation                                               |          | 259.00                          | 508.19                          |
|                     | Provision for Deferred Tax                                           |          | -188.37                         | -187.40                         |
| -990.01             | <b>PROFIT(+) / LOSS (-) AFTER TAX</b>                                |          | <b>102.39</b>                   | <b>-145.20</b>                  |
| 92.30               | Transferred to General Reserve                                       |          | 0.00                            | 0.00                            |
| 0.00                | <b>PROFIT(+) / LOSS(-) AFTER TRANS. TO GENERAL RESERVE</b>           |          | <b>102.39</b>                   | <b>-145.20</b>                  |
| 5147.98             | Add : Profit upto the previous year                                  |          | 2080.08                         | 2225.28                         |
|                     | Less : Amortisation of Software                                      |          | 16.77                           | 0.00                            |
|                     | <b>BALANCE CARRIED TO BALANCE SHEET</b>                              |          | <b>2165.70</b>                  | <b>2080.08</b>                  |
|                     | Accounting Policy                                                    | 17       |                                 |                                 |
|                     | Notes On Accounts                                                    | 18       |                                 |                                 |
|                     | The schedules referred to above form<br>an integral part of Accounts |          |                                 |                                 |

|            |                                                 |                                             |                                       |                                                             |
|------------|-------------------------------------------------|---------------------------------------------|---------------------------------------|-------------------------------------------------------------|
| Chaudhuri) | Sd/-<br>Udayan Chakrabarti<br>Company Secretary | Sd/-<br>(A. K. Soni)<br>H. O. D. ( Finance) | Sd/-<br>(B. Bhattacharya)<br>Director | Sd/-<br>(S. Chaudhuri)<br>Chairman-cum<br>Managing Director |
|------------|-------------------------------------------------|---------------------------------------------|---------------------------------------|-------------------------------------------------------------|

In terms of our report of even date attached  
For S. K. Basu & Co.  
Chartered Accountants

Camp : Kolkata  
Dated : 11th August, 2005

Sd/-  
( S. K. Chakravarti )  
Partner

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005  
SHARE CAPITAL

## SCHEDULE - A

|                                                                                                                                                                    | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------|
| <b><u>Authorized capital</u></b>                                                                                                                                   |                               |                                |
| 500000 Equity Shares of Rs 1000/- each .                                                                                                                           | 5000.00                       | 5000.00                        |
|                                                                                                                                                                    | <hr/>                         | <hr/>                          |
|                                                                                                                                                                    | 5000.00                       | 5000.00                        |
| <b><u>Issued Subscribed &amp; paid up</u></b>                                                                                                                      |                               |                                |
| (Held by Coal India Ltd. , the Holding Co. & its nominees)                                                                                                         |                               |                                |
| 8 Equity Shares of Rs 1,000/- each fully paid in Cash (Previous Year 8 Equity shares of Rs 1,000/- each)                                                           | 0.08                          | 0.08                           |
|                                                                                                                                                                    | <hr/>                         | <hr/>                          |
| 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                         |
|                                                                                                                                                                    | <hr/>                         | <hr/>                          |
| 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                        |
|                                                                                                                                                                    | <hr/>                         | <hr/>                          |
|                                                                                                                                                                    | 1904.00                       | 1904.00                        |
|                                                                                                                                                                    | <hr/>                         | <hr/>                          |

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005  
SHARE MONEY PENDING ALLOTMENT

## SCHEDULE - B

|  | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|--|-------------------------------|--------------------------------|
|  | NIL                           | NIL                            |

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005**  
**RESERVE & SURPLUS**

**SCHEDULE - C**

|                                                          | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|----------------------------------------------------------|-------------------------------|--------------------------------|
| <b>CAPITAL RESERVE</b>                                   |                               |                                |
| Grants for purchase of capital equipment                 |                               |                                |
| <b>Energy Coal S&amp;T Grants</b>                        |                               |                                |
| As per last Account                                      | 1365.03                       | 1455.80                        |
| Additions during the year                                | <u>30.51</u>                  | <u>12.87</u>                   |
|                                                          | <u>1395.54</u>                | <u>1468.67</u>                 |
| Less : Depreciation written-off during the year          | <u>95.37</u>                  | <u>1300.17</u>                 |
|                                                          | <u>103.64</u>                 | <u>1365.03</u>                 |
| <b>UNDP Grants</b>                                       |                               |                                |
| As per last Account                                      | 7.54                          | 7.93                           |
| Addition during the Year                                 | <u>0.00</u>                   | <u>0.00</u>                    |
|                                                          | <u>7.54</u>                   | <u>7.93</u>                    |
| Less : Depreciation written off                          | <u>0.34</u>                   | <u>7.20</u>                    |
|                                                          | <u>0.39</u>                   | <u>7.54</u>                    |
| <b>CCDA Grants</b>                                       |                               |                                |
| As per last Account                                      | 19.19                         | 36.12                          |
| Addition during the Year                                 | <u>0.00</u>                   | <u>0.00</u>                    |
|                                                          | <u>19.19</u>                  | <u>36.12</u>                   |
| Less : Depreciation written off                          | <u>8.99</u>                   | <u>10.20</u>                   |
|                                                          | <u>16.93</u>                  | <u>19.19</u>                   |
| <b>EMSC Grants</b>                                       |                               |                                |
| As per last Account                                      | 0.47                          | 0.64                           |
| Addition during the Year                                 | <u>0.00</u>                   | <u>0.00</u>                    |
|                                                          | <u>0.47</u>                   | <u>0.64</u>                    |
| Less : Depreciation written off                          | <u>0.00</u>                   | <u>0.47</u>                    |
|                                                          | <u>0.17</u>                   | <u>0.47</u>                    |
| <b>CIL R&amp;D GRANTS</b>                                |                               |                                |
| As per last Account                                      | 376.20                        | 354.68                         |
| Addition during the Year                                 | <u>36.18</u>                  | <u>53.25</u>                   |
|                                                          | <u>412.38</u>                 | <u>407.93</u>                  |
| Less : Depreciation written off                          | <u>36.69</u>                  | <u>375.69</u>                  |
|                                                          | <u>31.73</u>                  | <u>376.20</u>                  |
|                                                          | <u>1693.73</u>                | <u>1768.43</u>                 |
| <b>GENERAL RESERVE :</b>                                 |                               |                                |
| Balance of Profit transferred from Profit & Loss Account | 2165.70                       | 2080.08                        |
| Total                                                    | <u>4076.97</u>                | <u>4066.05</u>                 |

Nil

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005  
**SECURED LOAN**

**SCHEDULE - D**

|  | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|--|-------------------------------|--------------------------------|
|  | NIL                           | NIL                            |

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005  
**UNSECURED LOAN**

**SCHEDULE - E**

|                                             | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|---------------------------------------------|-------------------------------|--------------------------------|
| Due to Coal India Ltd., the Holding Company | 160.57                        | 160.57                         |
| Interest accrued & due                      | 13.65                         | 17.36                          |
| <b>Total</b>                                | <b>174.22</b>                 | <b>177.93</b>                  |

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31ST. MARCH, 2005**  
**FIXED ASSETS**

**SCHEDULE-F**

(IN IN LAKHS)

|                                                             | PARTICULARS               |                                |                                                                     |                                   | DEPRECIATION                      |                                 |                                                    |                                             | Net Block                        |                                  |
|-------------------------------------------------------------|---------------------------|--------------------------------|---------------------------------------------------------------------|-----------------------------------|-----------------------------------|---------------------------------|----------------------------------------------------|---------------------------------------------|----------------------------------|----------------------------------|
|                                                             | COST<br>AS AT<br>1.4.2004 | ADDITION<br>DURING<br>THE YEAR | ADJUSTMENT<br>FOR DISPOSAL<br>OR<br>DISCARDED<br>OF<br>FIXED ASSETS | TOTAL COST<br>AS AT<br>31.03.2005 | DEPRECIATION<br>AS AT<br>1.4.2004 | DEPRECIATION<br>FOR THE<br>YEAR | ADJUSTMENT<br>FOR DISPOSAL<br>OR<br>DISCARDED ETC. | TOTAL<br>DEPRECIATION<br>UPTO<br>31.03.2005 | NET BLOCK<br>AS AT<br>31.03.2005 | NET BLOCK<br>AS AT<br>31.03.2004 |
| <b>i. Fixed Assets :</b>                                    |                           |                                |                                                                     |                                   |                                   |                                 |                                                    |                                             |                                  |                                  |
| <b>Excluding S&amp;T, CCDA, EMSC, UMDP &amp; CIL Assets</b> |                           |                                |                                                                     |                                   |                                   |                                 |                                                    |                                             |                                  |                                  |
| <b>Land:</b>                                                |                           |                                |                                                                     |                                   |                                   |                                 |                                                    |                                             |                                  |                                  |
| Freehold                                                    | 107.30                    | 0.00                           | 0.00                                                                | 107.30                            | 0.00                              | 0.00                            | 0.00                                               | 0.00                                        | 107.30                           | 107.30                           |
| Leasehold                                                   | 117.98                    | 0.00                           | 0.00                                                                | 117.98                            | 48.88                             | 2.13                            | 0.00                                               | 52.02                                       | 65.96                            | 88.08                            |
| <b>Building :</b>                                           |                           |                                |                                                                     |                                   |                                   |                                 |                                                    |                                             |                                  |                                  |
| Freehold                                                    | 4025.82                   | 76.25                          | 2.26                                                                | 4092.33                           | 967.29                            | 762.5                           | 2.05                                               | 1040.88                                     | 3083.02                          | 3064.53                          |
| Leasehold                                                   |                           |                                |                                                                     |                                   |                                   |                                 |                                                    |                                             |                                  |                                  |
| Plant & Machinery                                           | 3271.60                   | 65.17                          | 67.22                                                               | 3333.99                           | 2521.72                           | 1842                            | 23.79                                              | 2808.35                                     | 671.20                           | 748.88                           |
| Furniture, Fittings &<br>Office Equipment                   | 1088.74                   | 28.05                          | 17.48                                                               | 1115.23                           | 304.38                            | 33.06                           | 16.85                                              | 622.18                                      | 177.13                           | 184.36                           |
| Vehicles                                                    | 886.75                    | 0.00                           | 26.46                                                               | 913.21                            | 533.06                            | 32.50                           | 25.15                                              | 540.44                                      | 129.86                           | 133.66                           |
| <b>TOTAL (i)</b>                                            | <b>8388.18</b>            | <b>103.80</b>                  | <b>-102.44</b>                                                      | <b>8390.54</b>                    | <b>4875.38</b>                    | <b>284.98</b>                   | <b>-67.48</b>                                      | <b>5163.88</b>                              | <b>4294.47</b>                   | <b>4332.81</b>                   |
| <b>ii. S&amp;T, CCDA, EMSC, UMDP &amp; CIL Assets:</b>      |                           |                                |                                                                     |                                   |                                   |                                 |                                                    |                                             |                                  |                                  |
| Building                                                    | 4.18                      | 0.00                           | 0.00                                                                | 4.18                              | 1.34                              | 0.10                            | 0.00                                               | 1.44                                        | 2.74                             | 2.84                             |
| Plant & Machinery                                           | 2830.03                   | 77.92                          | 0.00                                                                | 2880.95                           | 1526.40                           | 141.03                          | 0.00                                               | 1646.43                                     | 1262.42                          | 1325.53                          |
| Furniture, Fittings &<br>Office Equipment                   | 6.85                      | 0.00                           | 0.00                                                                | 6.85                              | 2.46                              | 0.25                            | 0.00                                               | 2.71                                        | 2.14                             | 2.20                             |
| Vehicles                                                    | 3.03                      | 0.00                           | 0.00                                                                | 3.03                              | 1.12                              | 0.00                            | 0.00                                               | 1.32                                        | 0.21                             | 0.21                             |
| <b>TOTAL (ii)</b>                                           | <b>2847.80</b>            | <b>77.92</b>                   | <b>0.00</b>                                                         | <b>2855.91</b>                    | <b>1538.63</b>                    | <b>141.38</b>                   | <b>0.00</b>                                        | <b>1658.30</b>                              | <b>1262.51</b>                   | <b>1336.87</b>                   |
| <b>TOTAL (i+ii)</b>                                         | <b>11236.98</b>           | <b>281.72</b>                  | <b>-102.44</b>                                                      | <b>11236.76</b>                   | <b>6482.36</b>                    | <b>287.36</b>                   | <b>-67.48</b>                                      | <b>5822.18</b>                              | <b>5471.88</b>                   | <b>5863.78</b>                   |
| <b>iii. Assets Surveyed 018</b>                             |                           |                                |                                                                     |                                   |                                   |                                 |                                                    |                                             |                                  |                                  |
| <b>Previous Year:</b>                                       |                           |                                |                                                                     |                                   |                                   |                                 |                                                    |                                             |                                  |                                  |
| <b>iv. Fixed Assets:</b>                                    |                           |                                |                                                                     |                                   |                                   |                                 |                                                    |                                             |                                  |                                  |
| Excluding S&T, CCDA,<br>EMSC & UMDP                         | 9013.47                   | 303.97                         | 8.25                                                                | 9306.16                           | 4721.26                           | 269.93                          | 4.81                                               | 4875.38                                     | 4332.81                          | 4294.21                          |
| Excluding S&T, CCDA, EMSC &<br>UMDP Assets                  | 2830.03                   | 1191                           | 0.02                                                                | 3047.99                           | 1384.06                           | 153.48                          | 0.83                                               | 1516.92                                     | 1338.87                          | 1472.88                          |
| <b>TOTAL</b>                                                | <b>11862.52</b>           | <b>215.48</b>                  | <b>8.22</b>                                                         | <b>12080.30</b>                   | <b>6065.32</b>                    | <b>416.42</b>                   | <b>5.64</b>                                        | <b>5462.30</b>                              | <b>5463.78</b>                   | <b>5785.20</b>                   |
| <b>vi. Assets Surveyed 018</b>                              |                           |                                |                                                                     |                                   |                                   |                                 |                                                    |                                             |                                  |                                  |
|                                                             |                           |                                |                                                                     |                                   |                                   |                                 |                                                    |                                             | <b>22.88</b>                     | <b>22.20</b>                     |

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005**  
**FIXED ASSETS**

SCHEDULE - F  
 Annexure - F1

**NOTE 1:****ALLOCATION OF DEPRECIATION:**

|                                                      | CURRENT<br>YEAR | PREVIOUS<br>YEAR | * Depreciation on Assets<br>purchased against Grants: | CURRENT<br>YEAR | PREVIOUS<br>YEAR |
|------------------------------------------------------|-----------------|------------------|-------------------------------------------------------|-----------------|------------------|
| 1. Profit & Loss Account                             |                 |                  | Energy Coal S&T                                       | 95.37           | 104.27           |
| (a) 100% Depn. on Assets costing<br>below Rs. 5000/- | 3.83            | 8.54             | UNDP                                                  | 0.34            | 0.29             |
| (b) Others                                           | 188.58          | 195.74           | CCDA                                                  | 8.99            | 16.80            |
| 2. Social Overhead                                   | 55.56           | 59.13            | EMSC                                                  | 0.00            | 0.17             |
| 3. Prior Period Adjustment                           | -0.66           | -6.46            | CIL R&D                                               | 36.69           | 31.73            |
| 4. Capital Assets against Grants *                   | 141.39          | 153.49           | <b>TOTAL</b>                                          | <b>141.39</b>   | <b>153.49</b>    |
| <b>TOTAL</b>                                         | <b>398.70</b>   | <b>421.36</b>    |                                                       |                 |                  |

**NOTE 2:**

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

|               | COST<br>As at 31st-<br>March 2005 | COST<br>As at 31st-<br>March 2004 |
|---------------|-----------------------------------|-----------------------------------|
| (i) Building  | 2658.55                           | 2588.20                           |
| (ii) Vehicles | 47.20                             | 47.20                             |
| <b>TOTAL</b>  | <b>2705.75</b>                    | <b>2635.40</b>                    |

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

|                                          | CURRENT<br>YEAR | PREVIOUS<br>YEAR |
|------------------------------------------|-----------------|------------------|
| 1. Provision for Depreciation            | 0.00            | 0.43             |
| 2. Bank                                  | 0.00            | 0.04             |
| 3. Loss (+) / Profit (-) of Fixed assets | 0.00            | -0.02            |
| Disposal of Fixed Assets (Gross Cost)    | <b>0.00</b>     | <b>0.45</b>      |

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

|                             | AS AT 31st-<br>MARCH 2005 | AS AT 31st-<br>MARCH 2004 |
|-----------------------------|---------------------------|---------------------------|
| Gross Cost                  | 498.25                    | 453.92                    |
| Prov. for Depn.             | 473.38                    | 431.26                    |
| Machinery held for disposal | <b>24.87</b>              | <b>22.68</b>              |

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

|                                                                                     | CURRENT<br>YEAR | PREVIOUS<br>YEAR |
|-------------------------------------------------------------------------------------|-----------------|------------------|
| Opening Balance :                                                                   | 6492.30         | 6085.32          |
| Add : Depreciation provided<br>during the year                                      | 397.36          | 416.42           |
| Less : Net Outflow of Fund :<br>for Surveyed/Written off and<br>disposed off Assets | 67.48           | 9.44             |
| Less : Outflow Fund -<br>Inter Company                                              | 0.00            | 0.00             |
| Others                                                                              | 0.00            | 0.00             |
| <b>Closing balance</b>                                                              | <b>6822.18</b>  | <b>6492.30</b>   |

## CENTRAL MINE PLANNING &amp; DESIGN INSTITUTE LIMITED

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005  
CAPITAL WORK IN PROGRESS

SCHEDULE - G

(RS IN LAKHS)

| PARTICULARS                                                                 | COST                     |                                |                                                |                                           | PROVISION        |                       |                                                  |                                            | NET ASSETS                        |                                   |
|-----------------------------------------------------------------------------|--------------------------|--------------------------------|------------------------------------------------|-------------------------------------------|------------------|-----------------------|--------------------------------------------------|--------------------------------------------|-----------------------------------|-----------------------------------|
|                                                                             | COST<br>AS ON<br>31/3/04 | ADDITION<br>DURING<br>THE YEAR | ADJUSTMENT<br>FOR CAPITALISATION<br>OR DISCARD | COST<br>AS ON<br>31/3/05<br>MARCH<br>2005 | AS ON<br>31/3/04 | DURING<br>THE<br>YEAR | WITHDRAWAL<br>(ADJUSTMENT)<br>DURING THE<br>YEAR | TOTAL<br>AS ON<br>31/3/05<br>MARCH<br>2005 | NET<br>ASSETS<br>AS ON<br>31/3/05 | NET<br>ASSETS<br>AS ON<br>31/3/04 |
| <b>(i) Capital Work-in-Progress</b>                                         |                          |                                |                                                |                                           |                  |                       |                                                  |                                            |                                   |                                   |
| <b>(a) Capital Work-in-Progress -<br/>Excluding S&amp;T/R&amp;D Assets</b>  |                          |                                |                                                |                                           |                  |                       |                                                  |                                            |                                   |                                   |
| Buildings                                                                   | 98.26                    | 11.82                          | -33.36                                         | 76.62                                     | 4.34             | 1.08                  | 0.00                                             | 8.00                                       | 70.90                             | 93.32                             |
| Plant and Machinery And<br>General Stores in Stores                         | 31.31                    | 0.89                           | -45.87                                         | 2.58                                      | 0.44             | 0.28                  | 0.00                                             | 0.70                                       | 1.89                              | 50.87                             |
| <b>TOTAL (A)</b>                                                            | <b>148.57</b>            | <b>12.71</b>                   | <b>-82.27</b>                                  | <b>78.81</b>                              | <b>5.78</b>      | <b>1.34</b>           | <b>0.00</b>                                      | <b>8.72</b>                                | <b>72.88</b>                      | <b>144.18</b>                     |
| <b>(b) Capital Work-in-Progress -<br/>Excluding S&amp;T/R&amp;D Assets</b>  |                          |                                |                                                |                                           |                  |                       |                                                  |                                            |                                   |                                   |
| Plant and Machinery and<br>General Stores in Stores                         | 250.89                   | 30.51                          | 0.00                                           | 281.40                                    | 0.00             | 0.00                  | 0.00                                             | 0.00                                       | 281.40                            | 250.89                            |
| Coal Washing Treatment Plant                                                | 144.59                   | 0.00                           | 0.00                                           | 144.59                                    | 0.00             | 0.00                  | 0.00                                             | 0.00                                       | 144.59                            | 144.59                            |
| <b>TOTAL (B)</b>                                                            | <b>395.48</b>            | <b>30.51</b>                   | <b>0.00</b>                                    | <b>425.89</b>                             | <b>0.00</b>      | <b>0.00</b>           | <b>0.00</b>                                      | <b>0.00</b>                                | <b>425.89</b>                     | <b>395.48</b>                     |
| <b>TOTAL (A+B)</b>                                                          | <b>545.05</b>            | <b>42.22</b>                   | <b>-82.27</b>                                  | <b>98.70</b>                              | <b>5.78</b>      | <b>1.34</b>           | <b>0.00</b>                                      | <b>8.72</b>                                | <b>498.88</b>                     | <b>539.67</b>                     |
| <b>Previous year:</b>                                                       |                          |                                |                                                |                                           |                  |                       |                                                  |                                            |                                   |                                   |
| <b>(i) Capital Work-in-Progress -<br/>Excluding S&amp;T/R&amp;D Assets</b>  |                          |                                |                                                |                                           |                  |                       |                                                  |                                            |                                   |                                   |
| Buildings                                                                   | 68.22                    | 82.38                          | -121                                           | 148.37                                    | 0.44             | 4.94                  | 0.00                                             | 3.38                                       | 144.19                            | 87.75                             |
| <b>TOTAL (A)</b>                                                            | <b>68.22</b>             | <b>82.38</b>                   | <b>-121</b>                                    | <b>148.37</b>                             | <b>0.44</b>      | <b>4.94</b>           | <b>0.00</b>                                      | <b>3.38</b>                                | <b>144.19</b>                     | <b>87.75</b>                      |
| <b>(ii) Capital Work-in-Progress -<br/>Excluding S&amp;T/R&amp;D Assets</b> |                          |                                |                                                |                                           |                  |                       |                                                  |                                            |                                   |                                   |
| Buildings                                                                   | 381.94                   | 13.54                          | 0.00                                           | 395.48                                    | 0.00             | 0.00                  | 0.00                                             | 0.00                                       | 395.48                            | 381.94                            |
| <b>TOTAL (B)</b>                                                            | <b>381.94</b>            | <b>13.54</b>                   | <b>0.00</b>                                    | <b>395.48</b>                             | <b>0.00</b>      | <b>0.00</b>           | <b>0.00</b>                                      | <b>0.00</b>                                | <b>395.48</b>                     | <b>381.94</b>                     |
| <b>TOTAL (A+B)</b>                                                          | <b>450.16</b>            | <b>95.93</b>                   | <b>-121</b>                                    | <b>946.85</b>                             | <b>0.44</b>      | <b>4.94</b>           | <b>0.00</b>                                      | <b>3.38</b>                                | <b>539.67</b>                     | <b>449.71</b>                     |

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

|                             | AS AT<br>31st MARCH 2005 | AS AT<br>31st MARCH 2004 |
|-----------------------------|--------------------------|--------------------------|
| (i) Buildings               | 76.62                    | 98.27                    |
| (ii) Roads & Culverts       | -                        | -                        |
| (iii) Others (Water Supply) | -                        | -                        |
| <b>TOTAL</b>                | <b>76.62</b>             | <b>98.27</b>             |

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005  
INVESTMENT ( AT COST)

## SCHEDULE - H

|                                     | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|-------------------------------------|-------------------------------|--------------------------------|
| Trade investment at Cost (Unquoted) | Nil                           | Nil                            |

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005**  
**INVENTORIES**

**SCHEDULE -I**

| Year<br>(in Lakh)                                         | CURRENT YEAR<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|-----------------------------------------------------------|-------------------------------|--------------------------------|
| (As valued and certified by the Management)               |                               |                                |
| Stock of Stores & Spare Parts at weighted average cost    | 390.56                        | 322.81                         |
| Less : Provision for slow moving/non-moving/ obsolescence | 93.11                         | 93.33                          |
|                                                           | 297.45                        | 229.48                         |
| Other stores at purchase price                            | 53.78                         | 55.58                          |
| Add : In Transit/Under Inspection                         | 15.13                         | 9.59                           |
| <b>Total</b>                                              | <b>366.36</b>                 | <b>294.65</b>                  |

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005**  
**SUNDRY DEBTORS**

**SCHEDULE -J**

|                                                  | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|--------------------------------------------------|-------------------------------|--------------------------------|
| Debts outstanding for a period                   |                               |                                |
| Exceeding Six months                             | 5046.72                       | 4626.76                        |
| Others                                           | 6760.09                       | 6278.71                        |
| <b>Total</b>                                     | <b>11806.81</b>               | <b>10905.47</b>                |
| Less: Provisions for doubtful debts              | 50.51                         | 39.02                          |
| <b>Balance</b>                                   | <b>11756.30</b>               | <b>10866.45</b>                |
| Classification :                                 |                               |                                |
| Unsecured & Considered good                      | 11756.30                      | 10866.45                       |
| Unsecured & Considered doubtful                  | 50.51                         | 39.02                          |
|                                                  | <b>11806.81</b>               | <b>10905.47</b>                |
| Due from the Companies under the same management |                               |                                |
| Eastern Coalfields Limited                       | 1470.82                       | 1521.79                        |
| Bharat Coking coal Limited                       | 1036.40                       | 686.22                         |
| Central Coalfields Limited                       | 2547.71                       | 2836.54                        |
| Western Coalfields Limited                       | 895.35                        | 1249.51                        |
| South Eastern Coalfields Limited                 | 1279.99                       | 1521.27                        |
| Northern Coalfields Limited                      | 923.55                        | 525.45                         |
| Mahanadi Coalfields Ltd.                         | 1971.40                       | 949.98                         |
| North Eastern Coalfields                         | 49.96                         | 48.37                          |
| Kakri CHP (NCL)                                  | 14.08                         | 14.08                          |
| Dankuni Coal Complex (CIL)                       | 1.87                          | 1.87                           |
| Bharatpur CHP (MCL)                              | 0.73                          | 0.73                           |
| <b>Total</b>                                     | <b>10191.86</b>               | <b>9355.81</b>                 |

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005  
CASH & BANK BALANCE

## SCHEDULE - K

|                                        | Current Year<br>(Rs. In Lakh) | Previous Year<br>(Rs. In Lakh) |
|----------------------------------------|-------------------------------|--------------------------------|
| Cash, Cheques, Drafts & Stamps in-hand | 149.31                        | 70.05                          |
| Remittance in-transit                  | 1318.35                       | 2543.48                        |
| Balance with Scheduled Bank :          |                               |                                |
| In Current Account                     | 908.31                        | 618.20                         |
| In Deposit Accounts *                  | 64.60                         | 64.11                          |
| Total                                  | 2440.57                       | 3295.84                        |

\* Rs 28.16 lakh encumbered for issue of Bank Guarantee  
( Previous year Rs. 52.22 lakh )

## CENTRAL MINE PLANNING &amp; DESIGN INSTITUTE LIMITED

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005  
LOANS & ADVANCES

## SCHEDULE - L

|                                                           | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|-----------------------------------------------------------|-------------------------------|--------------------------------|
| Advance recoverable in Cash or for value to be received : |                               |                                |
| Advances to Suppliers                                     |                               |                                |
| for Capital Works                                         | 15.54                         | 0.00                           |
| for Other Stores                                          | 66.66                         | 45.36                          |
| Advances to Contractors                                   |                               |                                |
| for Capital Works                                         | 10.63                         | 21.84                          |
| for Other Stores                                          | 3.28                          | 5.86                           |
| Advances to Employees                                     |                               |                                |
| for House Building                                        | 235.72                        | 278.62                         |
| for Motor Car & Other Conveyances                         | 10.61                         | 18.40                          |
| for Others                                                | 111.68                        | 81.95                          |
| Deposits for P&T, Electricity, Gas etc.                   | 41.90                         | 44.44                          |
| Advance payment of statutory Dues                         |                               |                                |
| Income-tax                                                | 2013.97                       | 1254.15                        |
| Sales Tax                                                 | 5.22                          | 5.22                           |
| Wealth tax                                                | 0.19                          | 0.09                           |
| Subsidiaries Suspense Accounts                            | 20.57                         | 0.00                           |
| Pre paid Expenditure                                      | 10.91                         | 12.89                          |
| Income Tax deducted at source                             | 170.16                        | 133.87                         |
| Advances to Other Government Agencies                     | 14.39                         | 12.82                          |
| Service Tax paid on bills                                 | 0.96                          | 0.00                           |
| Total                                                     | 2732.39                       | 1915.51                        |
| Less : Provisions                                         | 9.93                          | 5.09                           |
| Balance                                                   | 2722.46                       | 1910.42                        |

## Notes :

|                                                                                                                                                                           |         |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| i) Secured & Considered good                                                                                                                                              | 246.33  | 297.02  |
| Unsecured & Considered good                                                                                                                                               | 2476.13 | 1613.40 |
| Unsecured & Considered doubtful                                                                                                                                           | 9.93    | 5.09    |
|                                                                                                                                                                           | 2732.39 | 1915.51 |
| ii) Amount due from an Officer of the Company Rs. Nil (Prev. year 0.03 lakh). Maximum balance due at any time during the year Rs 0.27 lakh (Prev. year 0.83 Lakh)         |         |         |
| iii) Amount due from directors of the Company Rs. 0.04 ( prev. year - Rs. 0.19 lakh ). Maximum amount due at any time during the year Rs 1.69 Lakh (Prev. Year 2.35 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 2005  
OTHER CURRENT ASSETS

## SCHEDULE - M

|                             | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|-----------------------------|-------------------------------|--------------------------------|
| <b>Claims Receivables :</b> |                               |                                |
| i) Railway                  | -                             | -                              |
| ii) Insurance               | -                             | -                              |
| iii) Others                 | 48.51                         | 18.03                          |
| <b>Other Receivables</b>    |                               |                                |
| i) Employees                | 430.92                        | 442.73                         |
| ii) Others                  | 26.19*                        | 20.18                          |
| <b>Total</b>                | <b>505.62</b>                 | <b>480.94</b>                  |

\* Includes Rs. 7.54 lakh against Claims receivable yet to be billed for.

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005  
CURRENT LIABILITIES & PROVISIONS

## SCHEDULE - N

|                                                              | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|--------------------------------------------------------------|-------------------------------|--------------------------------|
| Creditors for goods (small Scale Industries)                 |                               |                                |
| Capital                                                      | 0.00                          | 0.00                           |
| Revenue                                                      | 50.88                         | 119.69                         |
| Creditors for goods (others)                                 |                               |                                |
| Capital                                                      | 33.76                         | 104.38                         |
| Revenue                                                      | 1.95                          | 1.95                           |
| Sundry Creditors for contractual expenses                    |                               |                                |
| Capital                                                      | 92.72                         | 89.90                          |
| Revenue                                                      | 501.40                        | 497.10                         |
| Sundry Creditors for other expenses                          |                               |                                |
| Power & Fuels                                                | 84.20                         | 96.33                          |
| Others                                                       | 617.04                        | 550.74                         |
| Employee Remuneration & Benefits >                           |                               |                                |
| Salaries, Wages & Allowances (gross)                         | 2990.38                       | 1786.29                        |
| Gratuity                                                     | 3007.58                       | 2564.07                        |
| Attendance Bonus                                             | 34.37                         | 36.78                          |
| Ex gratia                                                    | 115.78                        | 112.71                         |
| Unpaid Salaries/Wages                                        | 11.14                         | 8.40                           |
| Leave encashment                                             | 1675.61                       | 1432.74                        |
| Statutory Dues :                                             |                               |                                |
| Income Tax deducted at source :                              |                               |                                |
| from Employees                                               | 10.80                         | 10.65                          |
| from Contractors                                             | 0.46                          | 1.30                           |
| Service Tax                                                  | 1006.42                       | 774.63                         |
| Advances & Deposits :                                        |                               |                                |
| from Customers                                               | 550.58                        | 433.93                         |
| from Ministry of Coal ( Annex. N -4)                         | 0.00                          | 0.00                           |
| from Contractors & others *                                  | 188.27                        | 116.48                         |
| Government Grants pending disbursement                       |                               |                                |
| Energy Coal (S&T) Grants ( Annex N -1 )                      | 168.26                        | 177.85                         |
| Other grants (Annex N - 2)                                   | 2008.55                       | 2918.03                        |
| CIL R&D Fund (Annex N-3)                                     | 74.46                         | 0.28                           |
| Current Account Balances with Holding co. & its subsidiaries |                               |                                |
| Coal India Ltd., Holding Co                                  | 3784.65                       | 4563.83                        |
| Subsidiaries Suspense Account                                | 0.00                          | 0.63                           |
| Other Liabilities :                                          |                               |                                |
| Retirement Pension Fund dues                                 | 94.24                         | 137.20                         |
| Provident Fund dues                                          | 21.37                         | 31.44                          |
| Cooperatives/Benevolent Fund/Recreation Club                 | 8.70                          | 7.37                           |
| Provisions :                                                 |                               |                                |
| Provision for Taxation - Income Tax                          | 1522.14                       | 1263.14                        |
| Provision for Taxation - Wealth Tax                          | 0.32                          | 0.22                           |
| Provision for loss of Asset                                  | 0.84                          | 0.25                           |
| Total                                                        | 18656.87                      | 17838.31                       |

\* Clarification:

Deposit includes Rs 8.09 Lakh ( Previous year Rs 8.66 Lakh ) towards  
Earnest Money & Security Deposit of Energy Coal S&T Grant.

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005**  
**ENERGY COAL S&T GRANTS**

**SCHEDULE - N**  
**Annexure N-1**

|                                                          | <b>Current Year</b><br>(Rs. in Lakh) | <b>Previous Year</b><br>(Rs. in Lakh) |
|----------------------------------------------------------|--------------------------------------|---------------------------------------|
| Opening Balance as on 01/04/2004                         | 177.85                               | 621.87                                |
| Less : Cheques in hand for subsequent disbursement       | 0.00                                 | 146.00                                |
| <b>Adjusted Opening Balance as on 01/04/2004</b>         | <b>177.85</b>                        | <b>475.87</b>                         |
| Amount received from Ministry of Energy-Coal (S&T) Grant | 1243.00                              | 675.00                                |
| Refund from Implementing Agencies                        | 0.00                                 | 1.14                                  |
| Interest                                                 | 3.96                                 | 0.00                                  |
| LD recovery                                              | 16.00                                | 0.00                                  |
| Adjustment against CMPDI share S&T                       | 0.10                                 | 0.00                                  |
| Other Receipts                                           | 0.01                                 | 8.02                                  |
|                                                          | <b>1440.92</b>                       | <b>1160.03</b>                        |
| <b>Disbursement to various Implementing Agencies :</b>   |                                      |                                       |
| Central Mining Research Institute                        | 59.00                                | 88.97                                 |
| Central Fuel Research Institute                          | 66.28                                | 471.50                                |
| Indian School of Mines                                   | 0.40                                 | 4.00                                  |
| Annamalai University Madras                              | 54.00                                | 15.00                                 |
| Andhra University                                        | 10.00                                | 15.00                                 |
| Coal Bed Methane                                         | 706.57                               | 50.00                                 |
| National Institute of Rock Mechanics                     | 0.00                                 | 22.50                                 |
| Tamil Nadu Agriculture University                        | 25.00                                | 2.25                                  |
| T.M., Bhagalpur University                               | 1.50                                 | 3.90                                  |
| Nayveli Lignite Corporation                              | 30.00                                | 40.00                                 |
| Vinoba Bhave University                                  | 4.00                                 | 0.00                                  |
| Regional Research Laboratory, Bhubhneswar                | 3.00                                 | 3.50                                  |
| Regional Research Laboratory, Bhopal                     | 25.00                                | 2.50                                  |
| Steel Authority of India                                 | 32.46                                | 17.00                                 |
| IIT, Delhi                                               | 1.20                                 | 0.00                                  |
| IIT, Madras                                              | 6.00                                 | 19.00                                 |
| IIT, Kharagpur                                           | 8.00                                 | 0.00                                  |
| KREC Karnataka                                           | 0.00                                 | 0.80                                  |
| IICT Hyderabad                                           | 3.00                                 | 19.00                                 |
| CET Osmania University                                   | 10.00                                | 10.00                                 |
| IISc Bangalore                                           | 0.00                                 | 7.00                                  |
| SCCL                                                     | 60.00                                | -                                     |
| Regional Research Laboratories, Trivandrum               | 0.00                                 | 50.00                                 |
| Humboldt Wedag                                           | 30.51                                | 0.00                                  |
| CMPDI Limited                                            | 136.74                               | 140.26                                |
| <b>Total Disbursement</b>                                | <b>1272.66</b>                       | <b>982.18</b>                         |
| <b>Closing Balance</b>                                   | <b>168.26</b>                        | <b>177.85</b>                         |

## CENTRAL MINE PLANNING &amp; DESIGN INSTITUTE LIMITED

## SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2005

Schedule - N

## OTHER GRANTS

Annexure - N.2

| Year<br>(h) | Name of Government Grants                                               | Opening<br>Balance | Cheques in<br>hand<br>disbursed<br>subsequently | Adjusted<br>Opening<br>Balance | Addition<br>during the<br>year | Total   | Rs. in Lakhs |         |         |      |         |      |
|-------------|-------------------------------------------------------------------------|--------------------|-------------------------------------------------|--------------------------------|--------------------------------|---------|--------------|---------|---------|------|---------|------|
|             |                                                                         |                    |                                                 |                                |                                |         | A            | B       | C (A+B) | D    | E (C+D) | F    |
|             | Mining Electronic Grants                                                | Curr. Year         | 0.52                                            | 0.00                           | 0.52                           | 0.00    | 0.52         | 0.00    | 0.52    | 0.00 | 0.52    | 0.00 |
|             |                                                                         | Prev. Year         | 0.52                                            | 0.00                           | 0.52                           | 0.00    | 0.52         | 0.00    | 0.52    | 0.00 | 0.52    | 0.00 |
|             | Promotional Regional Exploration Grants (Annex. N.2.1)                  | Curr. Year         | 2622.00                                         | 0.00                           | 2622.00                        | 4391.70 | 7013.70      | 5094.65 | 1919.05 |      |         |      |
|             |                                                                         | Prev. Year         | 95.23                                           | 62.87                          | 35.36                          | 5738.04 | 5774.40      | 3152.40 | 2622.00 |      |         |      |
|             | Environmental Measures Subsidence Control and Rehabilitation Control of | Curr. Year         | 216.94                                          | 0.00                           | 216.94                         | 485.00  | 701.94       | 691.53  | 10.41   |      |         |      |
|             |                                                                         | Prev. Year         | 253.78                                          | 6.85                           | 246.93                         | 0.00    | 246.93       | 29.99   | 216.94  |      |         |      |
|             | Fire & Subsidence (RCFS) ( Annex. N.2.2)                                |                    |                                                 |                                |                                |         |              |         |         |      |         |      |
|             | Testing Laboratory Grants                                               | Curr. Year         | 28.00                                           | 0.00                           | 28.00                          | 0.00    | 28.00        | 0.00    | 28.00   | 0.00 | 28.00   | 0.00 |
|             |                                                                         | Prev. Year         | 28.00                                           | 0.00                           | 28.00                          | 0.00    | 28.00        | 0.00    | 28.00   | 0.00 | 28.00   | 0.00 |
|             | United Nations Development - Programme Grants                           | Curr. Year         | 26.82                                           | 0.00                           | 26.82                          | 0.00    | 26.82        | 0.00    | 26.82   | 0.00 | 26.82   | 0.00 |
|             | Coal Conservation Development -                                         | Curr. Year         | 23.75                                           | 0.00                           | 23.75                          | 0.00    | 23.75        | 0.00    | 23.75   | 0.00 | 23.75   | 0.00 |
|             | Advisory Grants                                                         | Prev. Year         | 23.75                                           | 0.00                           | 23.75                          | 0.00    | 23.75        | 0.00    | 23.75   | 0.00 | 23.75   | 0.00 |
|             |                                                                         | Total              | 2918.03                                         | 0.00                           | 2918.03                        | 4876.70 | 7794.73      | 5786.18 | 2008.55 |      |         |      |
|             |                                                                         |                    | 429.10                                          | 87.72                          | 361.38                         | 5738.04 | 6100.42      | 3182.39 | 2918.03 |      |         |      |

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005**  
**Promotional Regional Exploration Grants**

**SCHEDULE - N**  
**Annexure N-2.1**

|                                                    | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|----------------------------------------------------|-------------------------------|--------------------------------|
| Opening Balance as on 01/04/2004                   | 2622.00                       | 96.23                          |
| Less : Cheques in hand for subsequent disbursement | 0.00                          | 80.87                          |
| Adjusted Opening Balance as on 01/04/2004          | 2622.00                       | 35.36                          |
| Ministry of Coal                                   | 4300.00                       | 5723.00                        |
| Interest                                           | 0.00                          | 16.04                          |
| Cheques in hand                                    | 91.70                         | 0.00                           |
|                                                    | 7013.70                       | 5774.40                        |
| Disbursement to various Implementing Agencies :    |                               |                                |
| Mineral Exploration Corporation Limited            | 3572.73                       | 2604.87                        |
| Geological Survey of India                         | 531.92                        | 105.06                         |
| Central Mine Planning & Design Institute Limited   | 536.12                        | 442.20                         |
| Neyveli Lignite Corporation Limited                | 437.00                        | 0.00                           |
| Central Fuel Research Institute, Dhanbad           | 16.88                         | 0.27                           |
| Total disbursement                                 | 5094.65                       | 3152.40                        |
| Closing Balance                                    | 1919.05                       | 2622.00                        |

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005**  
**Environmental Measures Subsidence Control & Rehabilitation Control of Fire & Subsidence ( RCFS) Grants**

**SCHEDULE - N**  
**Annexure N-2.2**

|                                                    | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|----------------------------------------------------|-------------------------------|--------------------------------|
| Opening Balance as on 01/04/2004                   | 216.94                        | 253.78                         |
| Less : Cheques in hand for subsequent disbursement | 0.00                          | 6.85                           |
| Adjusted Opening Balance as on 01/04/2004          | 216.94                        | 246.93                         |
| Receipts from Ministry                             | 485.00                        | 0.00                           |
|                                                    | 701.94                        | 246.93                         |
| Disbursement to various Implementing Agencies :    |                               |                                |
| Bharat Coking Coal Limited                         | 366.50                        | 0.00                           |
| Central Coalfields Limited                         | 0.00                          | 0.00                           |
| Eastern Coalfields Limited                         | 295.00                        | 0.00                           |
| Central Mine Planning & Design Institute Limited   | 30.03                         | 29.99                          |
| Total disbursement                                 | 691.53                        | 29.99                          |
| Closing Balance                                    | 10.41                         | 216.94                         |

## CENTRAL MINE PLANNING &amp; DESIGN INSTITUTE LIMITED

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005  
C I L R & D FUNDSCHEDULE - N  
Annexure N-3

|                                                 |  | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|-------------------------------------------------|--|-------------------------------|--------------------------------|
| Opening Balance as on 01/04/2004                |  | 0.28                          | 38.76                          |
| Amount received from Coal India Limited         |  | 322.90                        | 145.00                         |
| Other receipts                                  |  | 0.00                          | 0.03                           |
| Total Receipt                                   |  | 323.18                        | 183.79                         |
| Disbursement to various Implementing Agencies : |  |                               |                                |
| Central Coalfields Ltd.                         |  | 3.00                          | 45.00                          |
| BCCL                                            |  | 81.71                         | 0.00                           |
| IIT, Kharagpur                                  |  | 50.00                         | 0.00                           |
| CMPDI Limited                                   |  | 114.01                        | 101.51                         |
| Western Coalfields Ltd.                         |  | 0.00                          | 37.00                          |
|                                                 |  | 248.72                        | 183.51                         |
| Closing Balance                                 |  | 74.46                         | 0.28                           |

SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005  
Grants for Detailed Drilling work in Non-CIL BlocksSCHEDULE - N  
Annexure N- 4

|                                                 |  | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|-------------------------------------------------|--|-------------------------------|--------------------------------|
| Opening Balance as on 01/04/2004                |  | 0.00                          | 308.03                         |
| Amount received from Ministry of Coal           |  | 2250.00                       | 1506.00                        |
| Total Receipt                                   |  | 2250.00                       | 1814.03                        |
| Disbursement to various Implementing Agencies : |  |                               |                                |
| CMPDI Limited                                   |  | 1743.13                       | 1814.03                        |
| Mineral Exploration Corporation Limited         |  | 506.87                        | 0.00                           |
|                                                 |  | 2250.00                       | 1814.03                        |
| Closing Balance                                 |  | 0.00                          | 0.00                           |

**SCHEDULE TO BALANCE SHEET AS AT 31st MARCH 2005**  
**MISCELLANEOUS EXPENDITURE**  
(TO THE EXTENT NOT WRITTEN-OFF)

SCHEDULE - O

|                                       | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|---------------------------------------|-------------------------------|--------------------------------|
| <b>Deferred Revenue Expenditure</b>   |                               |                                |
| <b>1. Tubulars</b>                    |                               |                                |
| As per last Account                   | 68.77                         | 213.96                         |
| Addition during the year              | 0.00 *                        | 0.00 **                        |
|                                       | 68.77                         | 213.96                         |
| Less : Written off during the year    | 68.77                         | 0.00                           |
|                                       | —                             | 145.19                         |
|                                       |                               | 68.77                          |
| <b>2. Voluntary Retirement Scheme</b> |                               |                                |
| As per last Account                   | 23.53                         | 54.67                          |
| Addition During The Year              | 0.00 **                       | 0.00 **                        |
|                                       | 23.53                         | 54.67                          |
| Less : Written off during the year    | 23.53                         | 0.00                           |
|                                       | —                             | 31.14                          |
| <b>BALANCE</b>                        | <b>0.00</b>                   | <b>23.53</b>                   |
|                                       |                               | 92.30                          |

\* 100% of the addition of Tubulars has been charged to P&amp;L A/C under "Consumption of Tubulars" ( Sch - 6).

\*\* 100% of VRS paid during the year has been charged to P&amp;L Account.

**SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2005**  
**INTANGIBLE ASSETS**

SCHEDULE - P

AMORTISATION PERIOD - 3 YEARS

Rs. in Lakh

| COST                         |                                |                                                                 |                                   | AMORTISATION                 |                             |                                                |                                             | Net Block           |                     |
|------------------------------|--------------------------------|-----------------------------------------------------------------|-----------------------------------|------------------------------|-----------------------------|------------------------------------------------|---------------------------------------------|---------------------|---------------------|
| OP. BAL<br>AS AT<br>1.4.2004 | ADDITION<br>DURING<br>THE YEAR | ADJUSTMENT<br>FOR DISPOSAL<br>DISCARDED BY<br>INTANGIBLE ASSETS | TOTAL COST<br>AS AT<br>31.03.2005 | OP. BAL<br>AS AT<br>1.4.2004 | ADDITION<br>FOR THE<br>YEAR | ADJUSTMENT<br>FOR DISPOSAL /<br>DISCARDED ETC. | TOTAL<br>AMORTISATION<br>UPTO<br>31.03.2005 | AS AT<br>31.03.2005 | AS AT<br>31.03.2004 |
| SOFTWARE 54.06               | 13.22                          | 0.00                                                            | 67.28                             | 20.77                        | 29.44                       | 0.00                                           | 50.21                                       | 17.07               | 33.21               |

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005  
SALE OF SERVICE

SCHEDULE-1

|                             | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|-----------------------------|-------------------------------|--------------------------------|
| Exploration                 | 7795.28                       | 7256.88                        |
| Planning & Design           | 6346.75                       | 6067.92                        |
| Natural Resource Management | 972.95                        | 905.69                         |
| <b>Total Sales</b>          | <b>15114.98</b>               | <b>14230.29</b>                |

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005  
COAL ISSUED FOR OTHER PURPOSE

SCHEDULE-2

|                                        | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|----------------------------------------|-------------------------------|--------------------------------|
| APPLICABLE TO CIL's OTHER SUBSIDIARIES |                               |                                |

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005  
ACCRETION/DECRETION IN STOCK

SCHEDULE-3

|                                        | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|----------------------------------------|-------------------------------|--------------------------------|
| APPLICABLE TO CIL's OTHER SUBSIDIARIES |                               |                                |

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005  
WORKSHOP JOB FOR OWN PURPOSE

SCHEDULE-4

|                                        | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|----------------------------------------|-------------------------------|--------------------------------|
| APPLICABLE TO CIL's OTHER SUBSIDIARIES |                               |                                |

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005  
OTHER INCOME

## SCHEDULE - I

|                              | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|------------------------------|-------------------------------|--------------------------------|
| Interest received :          |                               |                                |
| On Loan to Employees         | 27.12                         | 32.74                          |
| On Bank Deposit              | 3.19                          | 0.50                           |
| Rent received from outsiders | 13.33                         | 49.18                          |
| Tender fees                  | 5.78                          | 0.64                           |
| Sale of Scrap                | 0.01                          | 0.00                           |
| Liquidated Damage            | 8.81                          | 4.13                           |
| Exchange Fluctuation         | 0.00                          | 0.07                           |
| Rent Vehicles                | 1.11                          | 0.89                           |
| Others                       | 20.44                         | 11.03                          |
| Profit on sale of Asset      | 0.00                          | 0.02                           |
| <b>Total</b>                 | <b>79.79</b>                  | <b>102.20</b>                  |

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005  
CONSUMPTION OF STORES

## SCHEDULE - II

|                              | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|------------------------------|-------------------------------|--------------------------------|
| POL                          | 251.16                        | 198.86                         |
| Stores & spares              | 366.91                        | 309.77                         |
| Other stores & consumable    | 28.75                         | 33.34                          |
| Deferred Rev.Exp.written-off | 68.77                         | 145.19                         |
| <b>Total</b>                 | <b>715.59</b>                 | <b>687.16</b>                  |

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005**  
**EMPLOYEES REMUNERATION AND BENEFITS**

**SCHEDULE - 7**

|                                | <b>Current Year</b><br>(Rs. in Lakh) | <b>Previous Year</b><br>(Rs. in Lakh) |
|--------------------------------|--------------------------------------|---------------------------------------|
| Salaries & Wages               | 7872.00                              | 6973.67                               |
| Overtime                       | 132.21                               | 60.64                                 |
| Incentives                     | 320.61                               | 159.82                                |
| Leave encashments              | 553.47                               | 942.94                                |
| Other allowances               | 237.50                               | 226.22                                |
| Contribution to PF ( Annex. 1) | 982.44                               | 890.91                                |
| Attendance Bonus               | 171.46                               | 175.10                                |
| Exgratia                       |                                      |                                       |
| a) PPLB - Non Executives       | 87.30                                | 83.59                                 |
| b) PPLB - Executives           | 28.12                                | 28.91                                 |
| LTC/LLTC/RRF                   | 216.12                               | 264.44                                |
| Pension                        |                                      |                                       |
| a) Ex NCDC Employees           | 7.78                                 | 6.45                                  |
| b) Others                      | 663.64                               | 896.29                                |
| Gratuity                       | 19.41                                | 19.46                                 |
| D.L.I.                         | 3.60                                 | 3.30                                  |
| Life Cover Scheme              | 110.71                               | 164.50                                |
| V R S                          |                                      |                                       |
| Total                          | 11406.37                             | 10896.44                              |

|                                                 |          |          |
|-------------------------------------------------|----------|----------|
| Less : Transferred to Social Overhead (Sch - 8) | 242.34   | 200.04   |
| Balance                                         | 11164.03 | 10696.40 |

**SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005**  
**CONTRIBUTION TO PROVIDENT FUNDS**

**SCHEDULE - 7**  
**ANNEXURE - 1**

|                                | <b>Current Year</b><br>(Rs. in Lakh) | <b>Previous Year</b><br>(Rs. in Lakh) |
|--------------------------------|--------------------------------------|---------------------------------------|
| Coal Mines Provident Fund      | 917.61                               | 828.33                                |
| Coal Mines Family Pension Fund | 64.40                                | 60.64                                 |
| Other Provident Funds          | 0.43                                 | 1.94                                  |
| Total                          | 982.44                               | 890.91                                |

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005  
SOCIAL OVERHEAD

## SCHEDULE - 8

|                                                         | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|---------------------------------------------------------|-------------------------------|--------------------------------|
| Salary Wages Allowances (From Schedule - 7)             | 242.34                        | 200.04                         |
| Free Issue of Coal to Employees                         | 16.50                         | 15.54                          |
| Medical Facilities :                                    |                               |                                |
| Medical Reimbursement                                   | 173.13                        | 147.80                         |
| Medicines & Hospital Expenses                           | 89.34                         | 90.20                          |
| Grant to :                                              |                               |                                |
| a) Schools                                              | 0.17                          | 0.00                           |
| b) Sports & Recreations                                 | 10.22                         | 11.20                          |
| Canteen upkeep                                          | 7.61                          | 8.18                           |
| House Rent                                              | 0.18                          | 0.84                           |
| Power (from Schedule -9)                                | 143.84                        | 127.83                         |
| Repairs & Maintenance (Transferred from Sch. 10)        | 37.56                         | 36.24                          |
| a) Township                                             | 41.41                         | 58.78                          |
| b) Other Welfare Buildings                              | 4.44                          | 5.42                           |
| c) Plant & Machinery                                    | 28.01                         | 22.40                          |
| Training Expenses                                       |                               |                                |
| a) Within Co.                                           | 6.72                          | 8.19                           |
| b) Outside Co.                                          | 0.00                          | 0.01                           |
| Depreciation on Social Overhead Assets (Ref : Sch-F/F1) | 55.56                         | 59.13                          |
| Family Planning Expenses                                | 0.05                          | 0.03                           |
| Uniforms / Stitching Charges                            | 10.43                         | 9.19                           |
| Other Benefits                                          | 56.81                         | 54.37                          |
| Sub Total                                               | 926.20                        | 855.39                         |
| Less : Recoveries                                       |                               |                                |
| House Rent                                              | 11.20                         | 11.92                          |
| Electricity                                             | 20.43                         | 18.72                          |
| School bus Charges                                      | 1.42                          | 1.44                           |
|                                                         | 33.05                         | 32.08                          |
| Balance                                                 | 893.15                        | 823.31                         |

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005  
POWER AND FUELS

## SCHEDULE - 8

|                                                | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|------------------------------------------------|-------------------------------|--------------------------------|
| Purchased                                      | 310.43                        | 315.84                         |
| Sub Total                                      | 310.43                        | 315.84                         |
| Less : Transferred to<br>Social Overhead Sch-8 | 143.84                        | 127.83                         |
| Total                                          | 166.79                        | 188.01                         |

## CENTRAL MINE PLANNING &amp; DESIGN INSTITUTE LIMITED

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005  
REPAIRS

## SCHEDULE -10

|                                                    | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|----------------------------------------------------|-------------------------------|--------------------------------|
| Office Building                                    | 65.09                         | 37.08                          |
| Repair & maintenance Township/Residential Building | 78.97                         | 95.02                          |
| Plant & Machinery                                  | 104.39                        | 98.90                          |
| Office equipment & Furniture                       | 31.43                         | 36.18                          |
| Vehicles                                           | 60.93                         | 62.68                          |
| Repair & maintenance School bus/Ambulance          | 28.01                         | 22.40                          |
| Others                                             | 1.97                          | 1.93                           |
| <b>Sub Total</b>                                   | <b>371.39</b>                 | <b>353.60</b>                  |
| Less : Transferred to Social Overhead Sch-8        | 111.42                        | 122.84                         |
| Less : Transferred to Misc. Expenses Sch-12        | 42.32                         | 44.89                          |
| <b>Total</b>                                       | <b>217.65</b>                 | <b>185.87</b>                  |

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005  
CONTRACTUAL EXPENSES

## SCHEDULE -11

|                     | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|---------------------|-------------------------------|--------------------------------|
| Contractual Works   |                               |                                |
| Drilling - MECL     | 0.00                          | 2.31                           |
| Drilling - Others   | 105.47                        | 118.04                         |
| Coal testing        | 113.47                        | 117.51                         |
| Remote Sensing etc. | 53.51                         | 32.40                          |
| <b>Total</b>        | <b>272.45</b>                 | <b>270.26</b>                  |

SCHEDULE -9

Year  
(Lakh)

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005  
MISCELLANEOUS EXPENSES

SCHEDULE -12

|                                                     | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|-----------------------------------------------------|-------------------------------|--------------------------------|
| Traveling                                           |                               |                                |
| In country                                          | 343.06                        | 345.52                         |
| Outside country                                     | 11.19                         | 20.44                          |
| Printing & Stationery                               | 65.22                         | 79.87                          |
| Postage                                             | 5.12                          | 4.30                           |
| Telephone                                           | 40.35                         | 42.12                          |
| Advertisement & Publicity                           |                               |                                |
| i) Advertisement for :                              |                               |                                |
| a) Tender                                           | 15.73                         | 7.35                           |
| b) Others                                           | 0.05                          | 0.13                           |
| ii) Publicity                                       | 2.84                          | 1.49                           |
| Freight Charges                                     | 0.70                          | 0.72                           |
| Subscriptions                                       | 5.95                          | 6.49                           |
| Security Expenses                                   | 145.50                        | 131.82                         |
| Hire Charges                                        |                               |                                |
| a) Computer                                         | 66.34                         | 83.45                          |
| b) Others                                           | 73.63                         | 67.43                          |
| Maintenance of Cars & Jeeps :                       |                               |                                |
| i) Petrol & Diesels                                 | 50.75                         | 43.68                          |
| ii) Repairs (From Schedule 10)                      | 42.32                         | 44.89                          |
| iv) Road Tax                                        | 25.73                         | 21.34                          |
| v) Insurance                                        | 8.28                          | 6.41                           |
| Legal Expenses                                      | 14.12                         | 7.32                           |
| Bank Charges                                        | 12.41                         | 11.46                          |
| Consultancy Charges (CIL subsidiaries & Other jobs) | 239.99                        | 178.06                         |
| Auditor's Remuneration                              |                               |                                |
| As Auditor                                          | 0.91                          | 0.89                           |
| Traveling & Out of Pocket Expenses                  | 2.38                          | 1.46                           |
| In other capacity - Tax Audit & others              | 0.43                          | 0.27                           |
| Internal Audit Expenses                             | 8.16                          | 5.67                           |
| Rates & Taxes                                       | 23.26                         | 27.23                          |
| Rent                                                | 35.01                         | 24.98                          |
| Insurance                                           | 1.67                          | 1.01                           |
| Lands/crops compensation                            | 0.19                          | 0.41                           |
| Others :                                            |                               |                                |
| Amortification of Software Licensing fees           | 15.56                         | 9.25                           |
| Conference & Seminar etc.                           | 8.56                          | 8.79                           |
| Tents & Hutsments                                   | 43.71                         | 30.12                          |
| Shifting & Settling Exp.                            | 21.60                         | 22.30                          |
| Entertainment                                       | 0.11                          | 0.17                           |
| R&D Expenses                                        | 0.00                          | 0.52                           |
| Horticulture                                        | 3.82                          | 3.59                           |
| Filing Fees                                         | 0.03                          | 0.08                           |
| Misc. Expenses                                      | 16.43                         | 14.14                          |
| Wealth Tax                                          | 0.10                          | 0.00                           |
| <b>Total</b>                                        | <b>1351.21</b>                | <b>1255.17</b>                 |

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005  
INTEREST

|                                     | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|-------------------------------------|-------------------------------|--------------------------------|
| Coal India Limited Holding Co.      | 13.65                         | 17.36                          |
| Interest on Retirement Pension Fund | 7.19                          | 10.04                          |
| Interest on Income Tax              | 0.34                          | 15.30                          |
| <b>Total</b>                        | <b>21.18</b>                  | <b>42.70</b>                   |

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005  
PROVISIONS / WRITE - OFF

|                              | Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|------------------------------|-------------------------------|--------------------------------|
| Provision :                  |                               |                                |
| Doubtful debts               | 11.49                         | 0.22                           |
| Doubtful Advances            | 5.42                          | 0.00                           |
| Obsolescence                 | 0.00                          | 2.15                           |
| Reduction in value of assets | 0.00                          | 0.00                           |
| <b>Total</b>                 | <b>16.91</b>                  | <b>2.37</b>                    |

## SCHEDULE TO PROFIT &amp; LOSS ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2005

SCHEDULE-15

## PRIOR PERIOD ADJUSTMENTS

|                                                | CURRENT YEAR<br>(RS IN LAKH) | PREVIOUS YEAR<br>(RS IN LAKH) |
|------------------------------------------------|------------------------------|-------------------------------|
| <b>DEBIT:</b>                                  |                              |                               |
| <u>Employees Remuneration &amp; Benefits :</u> |                              |                               |
| a) Salary, Wages & Allowances                  | 1.68                         | 18.63                         |
| b) Life Cover Scheme                           | 0.25                         | 0.00                          |
| c) Ex-gratia                                   | 4.00                         | 5.93                          |
| Director's Salary & Allowances                 |                              | 0.00                          |
| Rates & Taxes                                  |                              | 46.16                         |
| Rent                                           |                              | 11.43                         |
| Depreciation Expenses                          |                              | 0.00                          |
| Contractual Payments                           |                              | 0.00                          |
| <b>TOTAL DEBIT</b>                             | <b>63.52</b>                 | <b>27.01</b>                  |
| <b>CREDIT:</b>                                 |                              |                               |
| <u>Employees Remuneration &amp; Benefits :</u> |                              |                               |
| Life Cover Scheme                              | 0.00                         | 0.30                          |
| Repair                                         | 27.59                        | 7.54                          |
| Misc. Expenditure                              | 5.68                         | 2.79                          |
| Other Receipts                                 | 0.21                         | 6.55                          |
| Power & Fuel                                   | 11.55                        | 7.46                          |
| Consumption of stores & Spares                 | 0.65                         | 0.20                          |
| Contractual Payments                           | 0.44                         | 0.00                          |
| <u>Interest :</u>                              |                              |                               |
| a) Income Tax                                  | 0.44                         | 142.35                        |
| b) Others                                      | 0.00                         | 1.97                          |
| Sale of Services                               | 16.58                        | 54.45                         |
| <b>TOTAL CREDIT</b>                            | <b>63.14</b>                 | <b>223.64</b>                 |
| <b>NET CREDIT (-)/ DEBIT (+)</b>               | <b>0.38</b>                  | <b>-196.63</b>                |

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31st MAR 2005  
EXTRAORDINARY ITEMS

SCHEDULE -16

| Current Year<br>(Rs. in Lakh) | Previous Year<br>(Rs. in Lakh) |
|-------------------------------|--------------------------------|
| Nil                           | Nil                            |

## SCHEDULE - 17

## ACCOUNTING POLICY FOR 2004-05

## 1.0 ACCOUNTING CONVENTION

Financial statements are prepared 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, 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/Fund received as Non-Implementing Agency directly or through CIL are accounted for on the basis of receipts and disbursement.

## 4.0 FIXED ASSET :

## 4.1 Land

Land includes cost of acquisition including incidental expenses incurred thereon.

## 4.2 Buildings

Buildings include cost of lifts, 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 &amp; 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 except insurance items.

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 within the lease period.

7.3 Assets whose actual cost does not exceed Rs. 5000/- are depreciated at 100% leaving a token value of Re. 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 for gratuity and leave encashment benefits payable on retirement to employees is determined and provided for on the basis of actuarial valuation.

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 plus basis or on mutually agreed rates as the case may be.

11.5 Sales shown in accounts are exclusive of service tax.

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11.6 In the case of consultancy contracts with parties other than OIL Subsidiaries, revenue is recognized at proportionate contract value based on the percentage of work done or amount realizable, whichever is lower.

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.

**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.

**13.0 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 - 18).

## SCHEDULE - 18

## NOTES ON ACCOUNTS FOR 2004-05

**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 lakh 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. 444.31 lakh), NCL Township in Singrauli (Rs. 383.21 lakh) and CCL Township in Rajrappa (Rs. 214.44 lakh) on the land belonging to other subsidiaries of the Holding Company.

1.1.4 During the year the company has implemented the Accounting standard 26 issued by the Institute of Chartered Accountants of India and accordingly

- (a) Software are amortized over three years.
- (b) Rs. 16.77 lacs adjusted against Revenue Reserve (accumulated Balance of Profit & Loss) represents adjustment in the opening balance of the carrying amount of software asset. In previous years software asset was included under Plant & Machinery (Sch. - F)

1.1.5 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.

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

**1.2 Depreciation**

1.2.1 Land at Gondwana Place (Rs. 32.99 lakh) includes an old building. In absence of separate value for the old building no depreciation could be charged thereon.

**1.2.2 Special Rates**

1.2.3 The Earth Science Museum : 5.15 %

1.2.4 All Plants & Equipment at Drilling sites Scanner, Equipment and instruments used in the Laboratories for analysis work and all models of photocopiers : 11.31%

**1.2.5 High Volume Samplers and Respiratory Dust**

Samplers : 33.33 %

Telecom : 15.83 %

1.2.6 Lifts etc. forming part of Building at rates prescribed for buildings.

1.2.7 Buildings constructed on leasehold land and land belonging to other subsidiaries of CIL : at the rate applicable to buildings on freehold land.

**2.0 STOCK OF STORES & SPARE PARTS**

2.1 Machine-specific spares are capitalized along with the machines. There are no spares being

machine-specific and of infrequent use which are to be capitalized in terms of Accounting Standard (AS) 2 read with AS 10.

2.2 The provision for non-moving items have been reduced by Rs. 0.22 Lakhs from Rs 44.01 Lakhs to Rs 43.79 Lakhs on account of issues from non moving stores.

### 3.0 LOANS & ADVANCES / DEBTORS

#### 3.1. Current Accounts and Sundry Debtors Accounts with CIL Subsidiaries

3.1.1 Reconciliation of inter-company transactions in Current Accounts with other Subsidiaries of CIL has been carried out upto 31/3/2005. The agreed Current Account balances with the CIL Subsidiaries as on 31/3/2005 were transferred to CIL Current Account in the month of April, 2005. 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 31/3/2005 is charged to Subsidiary Suspense Account.

3.1.2 Sundry Debtors include Rs.10191.86 lakh 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 lakh 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 .

3.1.3 Letters have been issued to Debtors other than CIL subsidiaries to obtain confirmation of balances reply to which is awaited.

#### 3.2. Others

3.2.1 Income tax advance of Rs. 2013.97 lakh includes payments under protest against assessments for the years upto Assessment

Year 2000-01. Income tax provisions of Rs 1263.14 lakh includes provisions for pending assessments relating to Assessment Years 2003-04 to 2004-05.

### 4.0 CURRENT LIABILITIES & PROVISIONS

#### 4.1. Current Accounts with CIL and Its Offices

4.1.1 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 31.03.2005 have been reconciled.

#### 4.2. Liabilities under Coal Mines Pension Scheme

4.2.1 Current Liabilities include Rs. 51.10 lakh deductions which could not be remitted due to certain employees being non-CMPF members and who have not yet applied for pension.

4.2.2 There is also a liability for Rs. 43.14 lakh payable to the Scheme being the additional increments granted by the Company w.e.f. 01/7/1995.

4.2.3 The above amounts of liabilities are inclusive of interest at the rate applicable to CMPF.

4.2.4 As against these liabilities Rs 51.75 lakh is held in Fixed Deposits with Bank.

#### 4.3. Others

4.3.1 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.

4.3.2 Provision of Rs. 2401.73 lakh ( Rs 1639.43 lakh in the current year and Rs 762.30 lakh in the previous year ) made in respect of arrear salary payable to non-executives on account of wages / pay revision w.e.f 01.07.2001 to 31.03.2005 under NCWA VII

is included in employees remuneration and benefits under current liabilities and provisions.

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

#### 5.0. THEFT & SNATCHING CASES

Theft cases involving an amount of Rs 3.06 lakh (Previous Year 0.06 lakh) 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. Claim against theft of Rs. 4.09 lakhs in the previous year has been settled for Rs. 3.50 lakhs and a provision has been made for the balance amount of Rs. 0.59 lakhs.

#### 6.0 DIRECTORS' REMUNERATION

|                                                        | (Rs in lakh) |               |
|--------------------------------------------------------|--------------|---------------|
|                                                        | Current Year | Previous Year |
|                                                        | 2004-2005    | 2003-04       |
| (i) Salary & Allowances including LTC/Leave Encashment | 22.21        | 14.07         |
| (ii) Provident Fund                                    | 2.17         | 1.60          |
| (iii) Medical Expenses                                 | 2.12         | 2.48          |
| (iv) Value of Perquisites                              | 0.18         | 0.02          |
| (v) Gratuity Paid                                      | 7.00         | 3.50          |

#### 7.0 EARNINGS, EXPENDITURE ETC. IN FOREIGN CURRENCY

##### 7.1 Expenditure in Foreign Currency

|                                            | (Rs in lakh) |               |
|--------------------------------------------|--------------|---------------|
|                                            | Current Year | Previous Year |
|                                            | 2004-2005    | 2003-04       |
| (i) Foreign training /tour, books & others | 9.32         | 7.33          |
| (ii) Consultancy fee                       | 0.00         | 0.00          |
| <b>TOTAL</b>                               | <b>9.32</b>  | <b>7.33</b>   |

#### 7.2 Value of Imports Calculated on CIF Basis

|                          | (Rs in lakh) |               |
|--------------------------|--------------|---------------|
|                          | Current Year | Previous Year |
|                          | 2004-2005    | 2003-04       |
| (i) Capital Goods        | 3.92         | 31.90         |
| (ii) Spares & Components | 0.00         | 1.49          |
| <b>TOTAL</b>             | <b>3.92</b>  | <b>33.39</b>  |

#### 7.3 Earnings in Foreign Exchange

|                   | (Rs in lakh) |               |
|-------------------|--------------|---------------|
|                   | Current Year | Previous Year |
|                   | 2004-2005    | 2003-04       |
| Professional Fees | Nil          | NIL           |

#### 7.4 Value of Imported and Indigenous stores and spare parts consumed and percentage thereof to the total consumption

|              | Rs. in Lakh   |               |               |               |
|--------------|---------------|---------------|---------------|---------------|
|              | Current Year  |               | Previous year |               |
|              | 2004-2005     | 2003-2004     | Value         | Percentage    |
| Imported     | 0.88          | 0.12          | 8.46          | 1.23          |
| Indigenous   | 714.71        | 99.88         | 678.70        | 98.77         |
| <b>Total</b> | <b>715.59</b> | <b>100.00</b> | <b>687.16</b> | <b>100.00</b> |

#### 8.0 OFFICE BUILDING (PART) HANDED OVER TO GOVT

Part of an Office Building at Ranchi has been occupied by the Government of Jharkhand with effect from 04.12.2000. Out of our claim of Rs. 46.17 lakhs towards rent receivable an amount of Rs 5.34 lakhs has been received during the year and an amount of Rs 35.13 lakhs has been received subsequently.

| Basis.                                                                                              | 9.0 CONTINGENT LIABILITY                                                                                                                                                                                    | Rs. In Lakh                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                     | 9.1 Claims against the Company not acknowledged as debt                                                                                                                                                     | Amount Involved                                                                                                                                                                                                                                                                                                                                    |
| Previous year<br>2003-04                                                                            | 9.1.1 Income tax matters in respect of completed assessment pending in appeal Rs. 404.61 Lakh (Previous Year Rs. 402.75 lakh).                                                                              | Software has been amortised in 3 years instead of existing practice of charging software valuing upto Rs. 10 lakhs to revenue.                                                                                                                                                                                                                     |
| 1.90<br>.43<br>3.33                                                                                 | 9.1.2 Service tax matters in respect of completed assessment pending in appeal Rs. 40.24 lakh (Previous Year Rs. 40.34 lakh).                                                                               | 7.45                                                                                                                                                                                                                                                                                                                                               |
| Previous year<br>2003-04                                                                            | 9.1.3 Other disputed claims pending in the courts and not provided for amounts Rs. 1474.17 lakh (Previous Year Rs. 1385.95 lakh).                                                                           | 0.16                                                                                                                                                                                                                                                                                                                                               |
| NIL                                                                                                 | 9.1.4 LC opened during the year Rs. 124.41 lakhs (Previous year Rs. 23.25 lakh)                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                    |
| Rs. in Lakh<br>ear<br>4<br>Per centage<br>1.23<br>98.77<br>100.00                                   | <b>9.2. Other matters</b><br><br>9.2.1 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. |                                                                                                                                                                                                                                                                                                                                                    |
| ED OVER<br>has been<br>larkhand<br>our claim<br>receivable<br>in received<br>f Rs 35.18<br>juently. | 9.2.2 There is counter guarantee of Rs. 23.15 Lakh (Previous Year Rs. 30.00 Lakh) issued by the Company in favour of Bank for issuing Bank Guarantee on behalf of the Company.                              | (Rs in lakhs)                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                     | <b>10.0 CAPITAL COMMITMENT</b><br><br>Estimated value of contracts remaining to be executed on capital account and not provided for amounts to Rs. 3000.00 Lakh (previous year Rs. 165.41 lakh).            |                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                     | <b>10.1 IMPACT ON PROFIT DUE TO CHANGES IN BASIS OF ACCOUNTING</b><br><br>Profit for the year has been affected to the following extent because of changes in the basis of accounting:                      |                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                     | 9.0 CONTINGENT LIABILITY                                                                                                                                                                                    | Rs. In Lakh                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                     | 9.1 Claims against the Company not acknowledged as debt                                                                                                                                                     | Amount Involved                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                     | 9.1.1 Income tax matters in respect of completed assessment pending in appeal Rs. 404.61 Lakh (Previous Year Rs. 402.75 lakh).                                                                              | Software has been amortised in 3 years instead of existing practice of charging software valuing upto Rs. 10 lakhs to revenue.                                                                                                                                                                                                                     |
|                                                                                                     | 9.1.2 Service tax matters in respect of completed assessment pending in appeal Rs. 40.24 lakh (Previous Year Rs. 40.34 lakh).                                                                               | 7.45                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                     | 9.1.3 Other disputed claims pending in the courts and not provided for amounts Rs. 1474.17 lakh (Previous Year Rs. 1385.95 lakh).                                                                           | 0.16                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                     | 9.1.4 LC opened during the year Rs. 124.41 lakhs (Previous year Rs. 23.25 lakh)                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                     | <b>9.2. Other matters</b><br><br>9.2.1 There are certain suits pending in courts arising out of industrial and other disputes. The quantum of contingent liability in this regard could not be ascertained. |                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                     | 9.2.2 There is counter guarantee of Rs. 23.15 Lakh (Previous Year Rs. 30.00 Lakh) issued by the Company in favour of Bank for issuing Bank Guarantee on behalf of the Company.                              |                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                     | <b>10.0 CAPITAL COMMITMENT</b><br><br>Estimated value of contracts remaining to be executed on capital account and not provided for amounts to Rs. 3000.00 Lakh (previous year Rs. 165.41 lakh).            |                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                     | <b>10.1 IMPACT ON PROFIT DUE TO CHANGES IN BASIS OF ACCOUNTING</b><br><br>Profit for the year has been affected to the following extent because of changes in the basis of accounting:                      |                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                     | 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 31.03.2005 has been computed at Rs 1730.64 Lakhs and Rs 722.69 lakhs respectively. Net Deferred tax as at 31/03/2005 comprises of the following : |
|                                                                                                     |                                                                                                                                                                                                             | (Rs in lakhs)                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                     | <b>A Deferred tax Asset</b>                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                     | Difference in WDV of software                                                                                                                                                                               | 5.61                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                     | Provision for obsolescence                                                                                                                                                                                  | 34.07                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                     | Provision for doubtful debts                                                                                                                                                                                | 14.44                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                     | Provision for Leave                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                     | Encashment, Gratuity, VRS                                                                                                                                                                                   | 1676.52                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                     |                                                                                                                                                                                                             | 1730.64                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                     | <b>B Deferred Tax Liability</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                     | Difference in WDV of assets                                                                                                                                                                                 | 722.69                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                     | <b>C Deferred Tax Asset ( Net )</b>                                                                                                                                                                         | 1007.95                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                     | <b>12.0 WRITE BACK</b>                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                     | 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 PREVIOUS YEAR'S FIGURES

Previous Year's figures have been regrouped and rearranged wherever considered necessary.

15.0 Accounts together with notes thereon approved by the Board of Directors on 21<sup>st</sup> June 2005 and reported upon by the Auditors have been amended based on the audit conducted by the Comptroller and Auditor General of India. These amendments have resulted in decrease in Profit after tax by Rs 22.42 lakhs due to increase in expenditure involving changes in Sch .-1, Sch -7, Sch.-8 and Sch - 14 of P&L A/C. Sch -C, Sch -J , Sch - N and Notes on Accounts at para 3.1.2 and para 4.3.2 above have also been revised accordingly. Para 1.1.6 on Notes on Accounts has been added to give the information regarding CPTI, Office Building at Rajrappa. One foot note has also been added to Sch. – M to clarify the position of " Other Receivables".

| ( Rs. in Lakhs )                          |                                                                                                 |                |
|-------------------------------------------|-------------------------------------------------------------------------------------------------|----------------|
| <b><i>Profit &amp; Loss Account :</i></b> |                                                                                                 |                |
| A.                                        | Decrease in Profit<br>Increase in expenses<br>(i) Employees Remuneration<br>& Benefits (Sch. 7) | 1699.43        |
|                                           | (ii) Provision for Bad & Doubtful<br>Debts (Sch. 14)                                            | 11.06          |
|                                           |                                                                                                 | <u>1680.43</u> |
| B.                                        | Increase in Profit<br>Increase in Sales of Services<br>( Sch. – 1 )                             | <u>1615.06</u> |
| C.                                        | Net decrease in Profit before<br>Tax( A - B )                                                   | 35.42          |
| D.                                        | Decrease in Provision for Tax                                                                   | 13.00          |
| E.                                        | Decrease In Profit after Tax                                                                    | 22.42          |
| <b><i>Balance Sheet</i></b>               |                                                                                                 |                |
| A.                                        | (i) Decrease in Reserves & Surplus<br>(Schedule C)                                              | 22.42          |
|                                           | (ii) Increase in Sundry Debtors<br>(Schedule J)                                                 | <u>1755.13</u> |
|                                           |                                                                                                 | <u>1777.55</u> |
| B.                                        | Increase in Current Liabilities<br>& Provisions (Schedule N)                                    | 1777.55        |

Signatures to Schedules A to P for Balance Sheet, Schedules 1 to 16 for Profit & Loss Account and Schedules 17 & 18 for Accounting Policy and Notes on Accounts.

Sd/-  
Udayan Chakrabarti  
Company Secretary

Sd/-  
A. K. Soni  
H.O. D. ( Finance )

Sd/-  
B. Bhattacharya  
Director

Sd/-  
S. Chaudhuri  
Chairman-cum-Managing Director

In terms of our report of even date attached

**For S K Basu & Co**  
Chartered Accountants

Sd/-  
( S. K. Chakravarti )

Place : Kolkata  
Dated : 11th August, 2005

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**

**Segment-wise Profit / Loss Annexed to Profit & Loss Account  
for the Year ended 31st March 2005**

| Sl.<br>No. | Particulars                                                                            | P & D   | Exploration | Environment | Common   | Total    |
|------------|----------------------------------------------------------------------------------------|---------|-------------|-------------|----------|----------|
|            | Segment- wise Income :-                                                                |         |             |             |          |          |
| 1          | Segment- wise sale of services                                                         | 6346.75 | 7795.28     | 972.95      | -        | 15114.98 |
| 2          | Segment- wise Misc. Income                                                             | 62.44   | 16.34       | 1.01        | -        | 79.79    |
| 3          | Segmentwise total Income ( 1 + 2 )                                                     | 6409.19 | 7811.62     | 973.96      | -        | 15194.77 |
|            | Segment- wise Expenditures :-                                                          |         |             |             |          |          |
| 4          | Salaries & Wages                                                                       | 3659.21 | 4642.84     | 435.29      | 2426.59  | 11164.03 |
| 5          | Other Expenses                                                                         | 1034.38 | 1655.26     | 246.73      | 882.88   | 3819.25  |
| 6          | Total Expenditure ( incl Dep. but excl.<br>Interest , PP adj. and Provisions ) ( 4+5 ) | 4693.59 | 6298.20     | 682.02      | 3309.47  | 14983.28 |
| 7          | Share of Common cost                                                                   | 1349.85 | 1795.90     | 163.72      | -3309.47 | -        |
| 8          | Total Expenses with share of Common Cost<br>( 6 + 7 )                                  | 6043.44 | 8094.10     | 845.74      | -        | 14983.28 |
| 9          | Segment-wise Profit (+) / Loss (-)<br>before Interest , PP Adj. & Tax ( 3 - 8 )        | 365.75  | -282.48     | 128.22      | -        | 211.49   |
| 10         | Interest                                                                               | 12.92   | 7.71        | 0.55        | -        | 21.18    |
| 11         | PP Adjustments Credit (-)/ Debit (+)                                                   | -4.02   | -3.62       | 8.02        | -        | 0.38     |
| 12         | Segment-ws Profit (+) / Loss (-)<br>before Tax & Provisions ( 9-10-11 )                | 356.85  | -286.57     | 119.65      |          | 189.93   |
| 13         | Provisions                                                                             |         |             |             |          | 16.91    |
| 14         | Net Profit (+) / Loss (-) Before Tax (12-13)                                           |         |             |             |          | 173.02   |
| 15         | Provision For Taxation                                                                 |         |             |             |          | 259.00   |
| 16         | Provision For Deferred Tax : Debit (+) / Credit (-)                                    |         |             |             |          | -188.37  |
| 17         | Net Profit (+) / Loss (-) after Tax ( 14 -15 -16 )                                     |         |             |             |          | 102.39   |

**CASH FLOW STATEMENT FOR THE YEAR ENDING 31ST MARCH 2005**

| PARTICULARS                                             | Rs. in Lakh   |               |
|---------------------------------------------------------|---------------|---------------|
|                                                         | 2004-05       | 2003-04       |
| <b>CASH FLOW FROM OPERATING ACTIVITIES</b>              |               |               |
| Net Profit/Loss before taxation and extraordinary Items | 173.40        | -21.04        |
| PP Adj (Cr)                                             | + 0.00        | 196.63        |
| PP Adj (Dr)                                             | - 0.38        | 0.00          |
| Wealth Tax Provision                                    | + 0.00        | 0.00          |
| Decrease in Misc Exp not written off                    | + 92.30       | 176.33        |
| Increase in Misc. Exp not written off                   | - 0.00        | 0.00          |
| <b>Adjusted Net Profit</b>                              | <b>265.32</b> | <b>351.92</b> |
| Adjustments for :-                                      |               |               |
| Depreciation                                            | + 398.70      | 421.36        |
| Profit on Sale of Assets                                | - 0.00        | 0.02          |
| Loss on Sale of Assets                                  | + 0.00        | 0.00          |
| Foreign Exchange Fluctuation Gain                       | - 0.00        | 0.07          |
| Foreign Exchange Fluctuation Loss                       | + 0.00        | 0.00          |
| Interest Income                                         | - 30.31       | 36.24         |
| Dividend Income                                         | -             |               |
| Interest Expenses                                       | + 21.18       | 42.70         |
| Operating Profit before Working Capital Changes         | 654.89        | 779.65        |
| Increase in Sundry Debtors                              | - 889.89      | 2815.03       |
| Decrease in Sundry Debtors                              | + 0.00        | 0.00          |
| Increase in Loans & Advances                            | - 15.83       | 0.00          |
| (Excl Income Tax & Wealth Tax)                          |               |               |
| Decrease in Loans & Advances                            | + 0.00        | 284.14        |
| (Excl Income Tax & Wealth Tax)                          |               |               |
| Increase in Other Current Assets                        | - 24.68       | 11.19         |
| Decrease in Other Current Assets                        | + 0.00        | 0.00          |
| Increase in Inventories                                 | - 71.71       | 52.98         |
| Decrease in Inventories                                 | + 0.00        | 0.00          |
| Increase in Sundry Creditors                            | + 559.46      | 4179.01       |
| (Current Liab & Prov excl. Income Tax & Wealth Tax)     |               |               |
| Decrease in Sundry Creditors                            | - 0.00        | 0.00          |
| (Current Liab & Prov excl. Income Tax & Wealth Tax)     |               |               |
| Cash Generated From Operation                           | 212.28        | 2363.60       |

Continued to next page

## CENTRAL MINE PLANNING &amp; DESIGN INSTITUTE LIMITED

## CASH FLOW STATEMENT FOR THE YEAR ENDING 31ST MARCH 2005 (continued....)

| PARTICULARS                                                            | Rs. in Lakh    |                |
|------------------------------------------------------------------------|----------------|----------------|
|                                                                        | 2004-05        | 2003-04        |
| Cash Generated From Operation (B/F)                                    | 212.28         | 2363.80        |
| Income Tax Paid                                                        | - 796.11       | 599.00         |
| Wealth Tax Paid                                                        | - 0.10         | 0.09           |
| Cash Flow before Extraordinary Items                                   | -583.93        | 1764.51        |
| Proceeds from Earthquake disaster settlement                           |                |                |
| <b>Net cash from Operating Activities</b>                              | <b>-583.93</b> | <b>1764.51</b> |
| <b>CASH FLOW FROM INVESTING ACTIVITIES</b>                             |                |                |
| Purchase of Fixed Assets ( incl. IWP)                                  | - 202.06       | 410.37         |
| Proceeds from Sale of Equipments                                       | + 0.00         | 0.04           |
| Interest Received                                                      | + 30.31        | 36.24          |
| Dividend Received                                                      | +              |                |
| <b>Net cash from Investing Activities</b>                              | <b>-171.75</b> | <b>-374.09</b> |
| <b>CASH FLOW FROM FINANCING ACTIVITIES</b>                             |                |                |
| Proceeds from issuance of Share Capital                                | +              |                |
| Proceeds from Long-term borrowings                                     | + 0.00         | 0.00           |
| Decrease in Long-term borrowings                                       | - 3.71         | 0.70           |
| Govt Grants                                                            | + -74.70       | -86.74         |
| Foreign Exchange Puctuation Gain                                       | + 0.00         | 0.07           |
| Foreign Exchange Puctuation Loss                                       |                | 0.00           |
| Interest Paid                                                          | - 21.18        | 42.70          |
| Dividend Paid                                                          | -              |                |
| <b>Net cash from Financing Activities</b>                              | <b>-99.59</b>  | <b>-130.07</b> |
| <b>NET INCREASE/ DECREASE IN CASH &amp; CASH EQUIVALENTS</b>           | <b>-855.27</b> | <b>1260.35</b> |
| <b>ADD : CASH &amp; CASH EQUIVALENTS AT THE BEGINING OF THE PERIOD</b> | <b>3295.84</b> | <b>2035.49</b> |
| <b>CASH &amp; CASH EQUIVALENTS AT THE END OF THE PERIOD</b>            | <b>2440.57</b> | <b>3295.84</b> |

## INFORMATION AS REQUIRED BY PART - IV OF SCHEDULE VI

TO THE COMPANIES ACT, 1956

Balance Sheet Abstract and Company's General Business Profile  
03 Jharkhand (State Code )

## I. Registration Details :

Registration No. :- 

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

 State Code :- 

|   |   |
|---|---|
| 0 | 3 |
|---|---|

## Balance Sheet

Date 

|   |   |
|---|---|
| 3 | 1 |
|---|---|

|   |   |
|---|---|
| 0 | 3 |
|---|---|

|   |   |   |   |
|---|---|---|---|
| 2 | 0 | 0 | 5 |
|---|---|---|---|

  
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 | 1 | 5 | 5 | 1 | 9 |
|--|---|---|---|---|---|---|

## Total Assets

|  |   |   |   |   |   |   |
|--|---|---|---|---|---|---|
|  | 6 | 1 | 5 | 5 | 1 | 9 |
|--|---|---|---|---|---|---|

## Sources of Funds :

## Paid-up Capital

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

## Reserve &amp; Surplus

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

## Secured Loans

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

## Unsecured Loans

|  |   |   |   |   |   |
|--|---|---|---|---|---|
|  | 1 | 7 | 4 | 2 | 2 |
|--|---|---|---|---|---|

## Application of Funds :

## Net Fixed Assets

|  |   |   |   |   |   |   |
|--|---|---|---|---|---|---|
|  | 5 | 9 | 9 | 5 | 7 | 3 |
|--|---|---|---|---|---|---|

## Investments

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

## Net Current Assets

|     |   |   |   |   |   |
|-----|---|---|---|---|---|
| (-) | 8 | 6 | 5 | 5 | 6 |
|-----|---|---|---|---|---|

## Misc. Expenditure

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

## Accumulated losses

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

## Deferred Tax

|  |   |   |   |   |   |   |
|--|---|---|---|---|---|---|
|  | 1 | 0 | 0 | 7 | 9 | 5 |
|--|---|---|---|---|---|---|



## ANNEXURE FORMING PART OF DIRECTORS' REPORT FOR THE YEAR ENDED 31.3.2005 INFORMATION AS PER SECTION 217(2A) OF THE COMPANIES ACT, 1956 READ WITH COMPANIES (PARTICULARS OF EMPLOYEES) RULES 1988.

| Sl.<br>No | Name | Designa-<br>tion/<br>Nature<br>of work | Remune-<br>ration<br>during<br>the yr.<br>(Rs.) | Nature of<br>employment<br>permanent/<br>temporary | Quali-<br>fica-<br>tion | Expo-<br>rience<br>(yrs.) | Date of<br>commen-<br>cement | Age<br>on<br>31st<br>Mar<br>2005<br>(Yrs.) | Last<br>employ-<br>ment<br>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