



Annual वार्षिक रिपोर्ट Report 2002-2003



**CENTRAL MINE PLANNING &
DESIGN INSTITUTE LIMITED**

ANNUAL REPORT & ACCOUNTS 2002-2003



CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED
(A Subsidiary of Coal India Limited)
GONDWANA PLACE, KANKE ROAD, RANCHI- 834 008

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MANAGEMENT DURING 2002-2003

FULL - TIME

- | | | | |
|----|-------------------|---|---|
| 1. | Shri B. Akala | : | Chairman-cum-Managing Director
Upto 31.01.2003 |
| 2. | Shri J.P. Sharma | : | Chairman-cum-Managing Director
From 01.02.2003 |
| 3. | Shri J.P. Singh | : | Director |
| 4. | Shri R. N. Sharma | : | Director |
| 5. | Shri B. N. Mishra | : | Director |
| 6. | Shri Lalit Mohan | : | Director Upto 23.07.2002 |

PART - TIME

- | | | | |
|-----|-------------------|---|--------------------------|
| 7. | Shri K.P. Verma | : | Director |
| 8. | Shri M.K. Sinha | : | Director Upto 11.07.2002 |
| 9. | Shri Shashi Kumar | : | Director Upto 25.03.2003 |
| 10. | Shri Abdul Kalam | : | Director From 25.03.2003 |
| 11. | Prof. A. K. Ghose | : | Director |
| 12. | Prof. S. K. Bhan | : | Director |
| 13. | Dr. L. K. Singhal | : | Director Upto 25.09.2002 |

COMPANY SECRETARY : Shri V. Prakasa Rao

BANKERS : State Bank of India,
United Bank of India,
Union Bank of India
Bank of India,
Canara Bank
Bank of Maharashtra
Oriental Bank of Commerce
Indian Overseas Bank
Indian Oversease Bank
State Bank of Indore
Central Bank of India

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

REGISTERED OFFICE : Gondwana Place, Kanke Road,
Ranchi - 834008
Jharkhand, India

2003-PRESENT MANAGEMENT

FULL - TIME

- | | | |
|----------------------|---|--------------------------------|
| 1. Shri M. N. Jha | : | Chairman-cum-Managing Director |
| 2. Shri J. P. Singh | : | Director |
| 3. Shri R. N. Sharma | : | Director |

Part - Time

- | | | |
|----------------------|---|----------|
| 4. Shri Abdul Kalam | : | Director |
| 5. Shri K.P. Verma | : | Director |
| 6. Prof. A. K. Ghose | : | Director |

NOTICE FOR 28TH ANNUAL GENERAL MEETING

Ref. No. CS/AGM-28/2003/4578

Dated : 22.08.2003

Notice is hereby given to all the shareholders of Central Mine Planning & Design Institute Limited the 28th Annual General Meeting of the Company will be held on Friday the 29th August, 2003 at 3.00 p.m. at the Registered Office of the company, Gondwana Place, Kanke Road, Ranchi to transact the following business :-

1. Adoption of the Annual Accounts :

To receive and adopt the Balance Sheet as on 31st March 2003, 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 2002-2003.

3. Fixation of remuneration to Auditors for the year 2003-04 :

The shareholders may pass the following resolutions with or without modification.

"Resolved that the remuneration payable to Statutory Auditors for the financial year 2003-04 is hereby recommended at Rs. 82,500/- plus out of pocket expenses towards travelling, boarding, lodging etc. as approved and recommended by the Board at its 128th Meeting held on 28.06.2003".

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 Abdul Kalam 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 K. P. Varma 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 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 the Shareholders and Auditors of the Company.

DIRECTOR'S REPORT

To
The Shareholders.

Gentlemen,

Your Directors have great pleasure in presenting the 28th Annual Report of the working of your Company along with the Accounts for the year ended 31st March, 2003 and Auditors' Report thereon.

The main functional area of your Company is to provide adequate and up-to-date planning, design and technological supports to Coal India Limited and its coal producing subsidiaries to enable them to produce the planned quantity of coal efficiently and economically with due attention to safety, conservation, quality and environment. In addition your company also provides the necessary consultancy services for the clients outside Coal India Limited in India and abroad. The Quality management System of CMPDI, Ranchi is certified under international standard - ISO 9001: 2000 by BVQI (UK) and now covers the following services :

- (i) Consultancy in Mineral Exploration and Environmental Management.
- (ii) Planning & Design in Mining, Civil & Architectural Engineering, Coal Preparation & Utilisation, Electrical & Mechanical Engineering, Mining Electronics, Geomatics and Mine Construction.
- (iii) Laboratory testing facilities for the above.
- (iv) Technical & Management Training in Mineral & Mining Sector.

Major Services offered by your Company are :

- **Geological exploration & drilling :**
Detailed geological exploration of regionally explored blocks with a view to project adequate and reliable geological and geo-engineering data for preparation of mining

project report and choice of projects, geophysical survey through multi-probe geophysical logging, identification of coal bed methane resources, high resolution shallow seismic survey etc., Hydrogeological investigation.

- **Geomatics :** Remote sensing through aerial photos, satellite data & air borne scanner for preparation of Thematic maps, making studies for river pollution, urban sprawl etc. Survey related services : Topographical, contour, Traverse & correlation, OB & coal measurement, GIS, GPS.
- **Project Planning :** Preparation of pre-feasibility reports, bankable feasibility reports and detailed feasibility report, detailed Project Reports and working drawings for 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.
- **Detailed Design of System & Sub-system :** Detailed design of system and sub-system for mines, beneficiation and utilisation plant, Coal Handling Plants, Power Supply Systems Workshops and other units.
- **Research & Development :** Applied research and development in the field of mining, beneficiation, utilisation, environment, exploration etc. 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.
- Laboratory testing and data generation.
- Environment.
- Human Resource Development.
- Information Technology.

In addition to above following Specialised services are also offered by your company.

- Ventilation & Gas survey.
- Controlled Blasting.
- Performance evaluation of new explosives
- Mining Electronics
- Mine capacity Assessment.
- Mine Support Design, Rock Mass Rating (RMR).
- Non-Destructive Testing.

Your Company has 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.

Your Company is functioning with seven Regional Institutes located at Asansol, Dhanbad, Ranchi, Nagpur, Bilaspur, Singrauli & Bhubaneswar with its headquarters and Ranchi.

1.0 CORPORATE PERFORMANCE :

During the year under review your Company earned a net profit of Rs. 464.39 Lakhs (after tax). The working results of the company are given below :

	(Rs. In Lakhs)
Sales	12,339.03
Less : Total Net Expenditure	12,049.58
Gross Profit :	289.45
Less : Depreciation	209.95
Interest	29.25
Provision	35.48
	274.68
Profit for the year	14.77
Less Prior Period Adjustment	(-) 184.44
Profit before Taxation	199.21
Less : Provision for Taxation	367.00
Add : Provision for deferred Tax	632.18
Net Profit after Tax	464.39

2.0 PROJECT PLANNING & DESIGN

During 2002-03, CMPDI was engaged in preparation of project reports for new/expansion/re-organisation mines for

building of additional production capacity. In addition to this, the following jobs were undertaken :

- Revision of project reports/cost estimates
- Special reports for safety, development of infrastructures, operational plans for large OC mine, EMPs 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 Lognwall faces and intermediate technology using SDLs and LHD in CIL mines.

During the year 2002-2003, expert consultancy services were also provided to subsidiary companies of Coal India Limited in the field of Environmental Management and Monitoring, Remote Sensing, Energy Audit, Physico-mechanical tests on Rock and Coal Samples, Subsidence Studies, Strata Control, Non Destructive Testing (NDT), Controlled Blasting & Vibration Studies and Explosive Utilisation, Mining Electronics, Slope stability etc.

During 2002-2003, a total of 266 reports have been prepared.

The break-up of reports prepared has been given below in Table :- 1.

Table - 1

GEOLOGICAL REPORTS	19
PROJECT REPORTS	17
REVISED PROJECT REPORTS	3
REVISED COST ESTIMATES	1
SPECIAL REPORTS	6
OPERATIONAL PLAN	20
OTHER STUDIES	156
EMPs*	44
TOTAL	266

- * Includes revised EMPs and post public hearing EMPs.

3.0 OUTSIDE CONSULTANCY

During the year 2002-2003, Consultancy services were provided to 24 organisations for 28 jobs. Some of the important client/organizations to whom services were provided are Uranium Corporation of India Ltd. Jadugoda, National Thermal Power Corporation Ltd. Noida, Tata Iron & Steel Company Ltd., Bihar State Mineral Development Corporation, Jaysawal Neeco, DVC Bermo, ISM Dhanbad, D. M. Darjeeling Manganese Ore India Ltd., Neyvelli Lignite Corporation, National Aluminium Company Ltd., etc. Presently, 29 outside consultancy jobs are in hand for 21 organisations like Central Pollution Control Board, Ministry of Environment and Forest, Indian Bureau of Mines Nagpur, Damodar Valley Corporation, Tata Iron & Steel Company Ltd. (Tata Steel), National thermal Power Corporation Ltd. Noida, Indian School of Mines Dhanbad, National Aluminium Corporation Ltd., The Singareni Collieries Company Ltd., Indian Iron & Steel Co. Burnpur, North East Electric Power Corporation, Manganese Ore India, Ltd., Hindalco (Rensagar Power Division), Jharkhand State Electricity Board etc.

During the year 2002-2003, 41 jobs worth Rs. 653.82 lakhs from 28 organisation were procured by CMPDI.

4.0 EXPLORATION

The consultancy support in all the spheres of coal exploration was continued in 2002-2003 in CIL and other than CIL areas. EFC/Ministry of Coal has approved the CMPDI's proposal for carrying out detailed Exploration in Non-CIL blocks in X plan also. The resources of CMPDI were deployed for Detailed Exploration in CIL/Non-CIL blocks and for Promotional (Regional) Exploration in new areas. Services of State Govt. of M.P., Chhattisgarh and Orissa were utilized in a

limited manner for detailed drilling on contractual basis.

4.1 Drilling Performance for 2002-2003.

4.1.1 During the year 2002-2003 drills of CMPDI and its contractual agencies (i.e. State Govts) were deployed in fifteen coalfields for exploration of 103 blocks/areas. Out of it, 54 blocks were taken up for exploration of coal while 49 areas were taken up for Production Support drilling for the development of existing mines. The 54 exploration blocks include 40 CIL blocks, 10 Non-CIL blocks and 4 Promotional exploration areas.

4.1.2 The Detailed Exploration of 10 Non-CIL blocks was taken up in North Karanpura (3), Sohagpur (3), Raigarh (1), Singrauli Main Basin (1) and Talcher (2) coalfields. The Promotional Exploration of 4 blocks was conducted in North Karanpura (2), Kamptee (1) and Makum (1) coalfields. Exploration in CIL blocks was funded by subsidiaries of CIL while Ministry of Coal funded the exploration in Non-CIL/Promotional blocks.

4.1.3 The overall performance of drilling by CMPDI and its contractual agencies during 2002-03 is given below :

Agency	Annual Target 2002-03	Achievement 2002-03 (CIL, Non-CIL and Promotional Drilling)			Achieved 2001-02 (M)
		Achieved (M)	Achieved (%)	+/- (M)	
CMPDI	192000	192234*	100%	+234	196678
MECL	-	-	-	-	38518
State Govt.	10000	10266	103%	+266	9125
Total	202000	202500	100%	+500	244321

Note :-1. *The achievement of CMPDI drills includes 632m of drilling in Garhi Reservoir, North Karanpura CF for Jharkhand Govt. and 800m of drilling for Hydrogeological Investigation for CCL.

2. *The achievement of CMPDI drills also includes 5,641m of drilling in Promotional blocks and 31,540 of drilling in Non-CIL blocks.

3. Additionally, a private party has drilled 1,671m in Sikni Extension blocks of Auranga CF for consultancy work of JSMD under CMPDI supervision.

4.1.4 Detailed Exploration in Non-CIL Blocks by CMPDI :

Departmental Expenditure of Finance Committee (DEFC), in its meeting held on 4.12.02 has approved the "Plan for Detailed Exploratory Drilling in No. CIL blocks" during the X plan for conducting 2.13 lakh meters of exploratory drilling and other services at an estimated cost of Rs. 70.66 Corers by CMPDI, with all the geological reports to be submitted by September 2007. The sanction for the scheme was conveyed on 19.02.2003.

After the approval of DEFC, CMPDI drills were mobilized for taking up Detailed drilling in Non-CIL blocks. A total of 31,540 meter of drilling has been carried out in 2002-03 in Kerandari, Routpara and Pakril Barwadih blocks of North Karanpura CF, Bodri North Bartara and Batura blocks of Sohagpur CF, Pelma blocks of Mand raigarh CF, Chhatrasal block of Singrauli Main Basin and Machhuakuta and Konark blocks of Talcher CF (all Non-CIL blocks). The details are given below :

Agency	Company Command Area	Coalfield	Block	Target (M)	Achiev of Drilling (M)
CMPDI	CCL	North Karanpura	Kerandari,	-	13356
			Routpara Pakri Barwadih	-	
	SECL	Sohagpur	Bodri North, Bartara, Batura		7861
		Mand Raigarh	Pelma		2126
	NCL	Singrali	Chhatrasal		101
		Main Basin			
	MCL	Talcher	Machhuakuta, Konark		8096
Grand Total				37,000	31,540

It may be seen from the table above that the target set for Detailed Exploration in Non-CIL blocks, according to the budget, could not be achieved as exploration could

be taken up from mid December 2002 only after the approval of scheme by DEFC.

4.1.5 Promotional Exploration by CMPDI :

The Working Group on Coal & Lignite for the X Five Year Plan has recommended the continuation of the scheme of Promotional Exploration in X Plan. EFC/ Govt. has yet to approve the proposal for Promotional Exploration etc. for X plan. Meanwhile, Ministry of Coal had released 50% of the budgeted amount for drilling and its supplementary services for 2002-03, pending approval of Promotional Programme for X Plan by EFC.

Accordingly, CMPDI drills were deployed for Promotional Exploration of coal and have carried out 5,641m of drilling in 2002-03. Apart from taking up continuing blocks from previous years i.e. Tandwa-Magadh (South) and Bharatwada, CMPDI drills were also deployed in new areas i.e. Koyad-Kishanpur (south) and area between Tirap Colliery and Namchick River of Makum Coalfield, Assam in North Eastern region. The details are given below :

Agency	Company Command Area	Coalfield	Block	Annual Target (M)	Achiev of Drilling (M)
CMPDI	CCL	North Karanpura	Tandwa-Magadh (South)		1084
			Koyad- Kishanpur (South)		773
			WCL	Kamptee	Bharatwada
	NECF	Makum	Area Between Tirap Colliery and Nampchick River		53
			Grand Total		

Promotional drilling in NE region could be taken up from mid January 2003 onwards after the Surface Geophysical surveys were conducted. A nominal amount of drilling could be carried out as it was programmed to achieve 30% productivity

in NE region as compared to CMPDI's average productivity in other areas.

4.2 Geological Reports

4.2.1 During the year 2002-03, a total of 19 Geological Reports were submitted for exploration of coal. This includes four reports from Detailed Exploration in Non-CIL Blocks and one from Promotional Exploration area.

4.2.2 A total of 3.50 Bt. of reserves were estimated from these GRs, out of which 3.09 Bt. of reserves are under "Proved" category and 0.34 Bt. in "Indicated" category and 0.07 Bt. are under "Inferred" category. All the reserves are non-coking in nature.

4.3 Hydrogeology

4.3.1 During 2002-03, three reports pertaining to Hydrogeological Investigations of Bharatpur OCP area in MCL (for NALCO), Baseline Hydrogeological Data Collection for World Bank aided coal-mining projects-Dhanpuri OCM, Sohagpur CF and Water Supply Investigations in hilly region of Darjeeling town were submitted. Ground water resource availability assessment for five multistoried buildings has been completed and reports submitted. Permeability test studies have been carried out in Garhi Reservoir Area of North Karanpura Coalfield for Jharkhand Govt. and report submitted.

4.3.2 Hydrogeological Investigation in Urimari & Giddi 'C' area of South Karanpura Coalfield, CCL was also completed. Hydrogeological studies of a number of mining projects for preparation of EMP according to Xth Plan road map are under progress.

4.4 Geophysical Surveys

4.4.1 Geophysical Logging : During the year 2002-03, a total of 91 boreholes were sub-

ject to multi-parameter geophysical logging. About 15.016m of geophysical logging had been carried out for the purpose in CIL, Non-CIL and promotional blocks. This includes 2227m logging of 9 boreholes in Promotional blocks, 840m logging of 9 boreholes in Non-CIL blocks and 576m logging of 7 boreholes in a JSMD block.

4.4.2 Surface Geophysical Surveys : Surface geophysical surveys were carried out for providing additional information in coal exploration and for ground water investigations e.g. in Darjeeling, Ranchi and Lalmaia area (ECL). A total of 32 numbers of reports were submitted for geophysical investigations. The details of investigations are given below :

Sl. No.	Geophysical Surface Survey	Total Work	Work in Promotional area
i)	Electrical Resistivity Survey	145.29 L. Km.	33.98 L. km (NEC area)
ii)	Vertical Electricity Sounding (VES)	86 nos.	56 nos. (NEC area)
iii)	Magnetic Survey	4793 Stations/37.58 L.km.	203 Stations (NEC area)
iv)	Seismic Refraction Survey	4.12 L. Km.	
v)	HRSS Survey	9.935 L. Km.	9.935 L. Km. (NEC area)

4.4.3 Application of Ground Penetrating Radar Technique in WCL, BCCL & ECL underground mines have been taken up under the S&T Scheme. This work has been carried out by CMPDI along with NIRM, Bangalore.

4.5 Geo-system

4.5.1 Geological modelling software package-MINEX has been routinised in all the Regional Institutes. Geological Reports pertaining to Shankarpur, Gondkhari, Ponri (revised), Ura, Gare and Nigahi Extension blocks were processed through MINEX software. In addition, five geological models were prepared for operational mine planning of CCL.

4.5.2 Routinisation/maintenance/training is continued on in-house developed software-CEMPGEODOC. This software has been installed in Singrauli camp of RI-VI and concerned geologists trained for the use of package. A total of nine camps have been equipped with this setup and data is being captured through CEMPGEODOC.

4.5.3 Geological model of Argada area of South Karanpura Coalfield (SKCF) : Modeling of Chordhara-Lapanga-Bhurkunda area of same coalfield is in progress at CMPDI. These jobs are part of a CIL R&D scheme being executed by CCL for South Karanpura Coalfield (SKCF).

4.6 Exploration Laboratory

4.6.1 The exploration laboratory of CMPDI has processed and analysed 3814 meter of coal core from CCL & MCL areas during 2002-03. A total of 9889 samples were analyzed for various parameters.

4.6.2 One plastometer unit for determination of fluidity (ddpm) for characterization of coking coal and one XRD unit for mineral matter characterization of coal have been commissioned in the laboratory. Ten numbers of sample from Plastometer and twenty number of samples from XRD unit have been tested during the year.

4.6.3 Besides catering the need of CCL for chemical analysis of coal core samples, the laboratory has also taken up analysis job from other coal companies e.g. MCL, WCL and SECL.

5.0 COAL BED METHANE (CBM)

5.1 The demonstration project titled "Coalbed Methane Recovery & Commercial Utilisation" has been approved by the Government of India on 15.09.1999 under the S&T plan of the Ministry of Coal at an

estimated cost of Rs. 76.85 Corers. The project is being funded jointly by the Global Environment Facility (GEF), United National Development Programme (UNDP) and the Government of India (GOI). The duration of the project is 5 years. The project is to be implemented at the Sudamdih and Moonidih mines of BCCL. The CMPDI and BCCL are the implementing agencies of behalf on GOI.

During the year 2002-03, following activities have been undertaken or are in progress.

- (i) Under the scheme for establishing Integrated Information System for the CBM Project, internet leased line facility has been established at BCCL (HQ), and dial-up internet facility has been established at the project sites at Moonidih and Sudamadih, Establishment of LAN connection at the above places will be completed in year 2003-04.
- (ii) MOU signed between ONGC and CMPDI & BCCL (confirming party) on 20.09.2002 for co-sharing of the cost of the two costly equipment i.e. Hydraulic Fracturing Equipment and Cementation equipment, on 50 : 50 cost sharing basis. The total cost of the above equipment is USD 5.24 Million (approx). RBI clearance for the ONGC share of fund for transfer to UNIDO, Vienna, the procurement agency of the project, was given on 31.03.2003 and the fund was transferred to UNIDO's bank account in New York on 22.04.2003.
- (iii) On account of severe constraints in the equipment budget and to partly bridge the gap between equipment budget and the cost of all the equipment laid down in the approved project document, a proposal for change in the scope of the project was

approved in the 35th SSRC meeting held on 24.05.2002. The change in scope approved is as under :

- (a) Reduction in Gob wells from 10 to 2 numbers. No Gob well to be drilled in stowed areas.
- (b) Vertical CBM wells reduced from 17 to 7, i.e. 2 at Sudamadih and 5 at Moonidih.
- (c) Procurement of only one vertical rig in place of two rigs.
- (d) No-Procurement of 2 units of mud logging system.
- (e) Procurement of only one horizontal drilling rig in place of two rigs.
- (f) Non-procurement of two-phase testing tool.
- (g) Non-procurement of geophysical logger and instead services to be hired.
- (h) Cost of hydraulic fracturing and cementation equipment to be shared between ONGC and GEF funding with ONGC bearing 50% of the cost.

ONGC would be the owner of the equipment after 5 years when the project would be completed.

- (iv) The Gas Plant Expert visited the project sites-Moonidhi and Sudamadih in Oct., 2002 for discussions and understanding the requirements of the CBM utilisation equipment at the two sites. The Expert is to submit the specifications of the required equipment based on which tendering would be undertaken.

- (v) The Revised Cost Estimates (including time extension for the project has been prepared and is likely to be submitted to the MOC in April 2003

5.2 Joint development of CBM by consortium of CIL & ONGC in Jharia & Raniganj Coalfields : Govt. of India has cleared a proposal for granting joint Petroleum Exploration License (PEL) on nomination basis for development of CBM by consortium of CIL & ONGC in 356 sq. km area of Raniganj coalfield and 84 sq. km. area of Jharia coalfield.

The consortium has already entered into contract with the Govt. of India for development of CBM in above-mentioned CBM blocks in Jharia & Raniganj coalfields. The participative interest of CIL upto exploration and appraisal stage is 10% in Jharia coalfield and 26% in Raniganj coalfield, which will be in the form of services to be rendered by CIL. Deliberations are under progress to evolve operating agreement between ONGC & CIL in terms of contract already entered with the Govt. of India. The consortium has already applied for grant of Petroleum Exploration License (PEL) to Govt. of Jharkhand and Govt. of West Bengal.

5.3 Delineation of seven prospective CBM blocks in North & South karanpura, Sonhat, Satpura, Wardh & Godavari Valley Coalfields and in Mannargudi Lignite basin and preparation of corresponding data package : The Directorate General of Hydrocarbons and Ministry of Petroleum & Natural Gas has entrusted CMPDI the above job, which is to be completed by May '03. The job is in advanced stage of completion.

6.0 PERSPECTIVE PLANNING & PROJECT APPRAISAL

Following jobs were carried out during 2002-03.

- (i) Road Map for the X Plan projects requiring approval at CIL & Subsidiary level.

(ii) Assistance in assessment of coal demand on CIL as well as in finalisation of long-term linkages of coal for various sectors such as Power, Cement and Sponge Iron.

(iii) Assistance to Ministry of Coal and Coal India in allocation of Captive Blocks to private parties and active participation in Screening Committee meeting for allotment of Captive Mining blocks.

(iv) Progress of implementation of ongoing projects costing more than Rs. 20 Corers were monitored. Annual Cost Updation of ongoing projects costing Rs. 50 Corers and above, and report on need for preparation of RCE requiring EFC/PIB/CCEA approval were arranged to be sent to MOC.

7.0 COAL PREPARATION & UTILISATION

7.1 Coal Preparation Division offers a broad spectrum Technology Services ranging from concept to commissioning of coal washeries, Mineral Beneficiation Plants and Modification/Modernization of existing plants. The broad technological services encompasses exhaustive laboratory studies, Project Report preparation and Project Planning, Detail Design, Construction management and a wide range of R&D activities.

The major works done during the year 2002-03 in the area of Coal Preparation are:

7.1.1 REPORTS/STUDIES

- (i) Testing of coal for evaluation of performance of equipment and suggestive measures for improvement of quality of Piparwar washery.
- (ii) Study of Kedla washery to improve its performance.

7.1.2 TESTING OF COAL

(i)	Washability & Characterisation Studies	: 45 Samples
(ii)	Proximate Analysis	: 57 Samples
(iii)	Swelling Index	: 1 Sample
(iv)	L.T.G.K.	: 1 Sample
(v)	G.CV	: 46 Samples
(vi)	HGI	: 23 Samples
(vii)	Others like Flotation test, Magnetic content Wet sieving etc.	: 9 Samples

7.1.3 TENDER DOCUMENT/SCRUTINY :

(i) Preparation of tender document & pre-qualification bid for installation of column flotation at Sawang washery, CCL.

(ii) Preparation of tender document & pre-qualification bid for installation of spiral concentrator at Moonidih washery, BCCL.

(iii) Preparation of Electrical drawings for Raw Coal Bunker, Heavy Media Section and HM Cyclone Section of Kathara washery.

(iv) Preparation Electrical drawings for Primary Crusher Section, Main Washery Section & Loading Section of Sawang Washery.

7.1.4 S & T PROJECTS

(i) Beneficiation of Raw coal by Dry method, RRL, Bhubaneshwar.

(ii) Development of Operator friendly simulation programme for coal washeries.

(iii) Supervision of erection and commissioning works of coal flotation tailing treatment plant at Rajrappa washery.

7.1.5 Feasibility study of setting up a washery of RIHAND STP of NTPC.

7.2 COAL UTILISATION

Following major activities have been carried out in 2002-03.

- (i) Report on Testing of Kedla OCP coal of CCL for suitability in washery and Carbonisation.
- (ii) Report on CIL R&D project on "Resource survey, characterization and blending studies of low volatile coking coal for their use in steel industry".

8.0 RESEARCH AND DEVELOPMENT

8.1 S & T PROJECTS FUNDED BY MOC.

The Research & Development activities in coal and lignite sector are being administered through the Scientific Advisory Committee attached to Ministry of Coal known as Standing Scientific Research Committee (SSRC) with Secretary (Coal) as its Chairman. The committee is entrusted with the task of planning, budgeting and overseeing the implementation of R&D programme in coal and lignite sector and also for application of research findings. The SSRC is assisted by four Standing Sub-committees, each dealing with one of the four relevant major areas of research, viz:

- * Production, Productivity & Safety
- * Coal Beneficiation
- * Coal Utilization
- * Environment & Ecology

CMPDIL is the Nodal Agency to co-ordinate S&T/R&D activities in coal and lignite Sector and assists SSRC and its sub-committees in discharging their functions.

8.2 As on 01.04.2002 a total of 42 S&T projects were under implementation. During

2002-03, 10 new projects were sanctioned. A total of 52 projects were under implementation during the year, out of which the following 10 projects have been completed during 2002-03.

- (i) Studies on simulation of open fires in mine galleries under varied air flow for suppression of fire and fire damp explosions in underground coal mines.
- (ii) Optimal extraction of coal locked in pillars of multiple and thick seams.
- (iii) Application of Ground Penetration Radar (GPR) technique to locate water logged workings in coalmines.
- (iv) Study of parameters influencing abutment loading of pillars at a depillaring face of shallow depth cover under massive roof strata.
- (v) Study for early detection of the occurrence of spontaneous heating in blasting gallery method and to evaluate suitable measures to prevent and control spontaneous heating in thick coal seams.
- (vi) To optimize blast design and charge loading parameters in coal and ring hole blasting and in stone for induced blasting in degree-1 seams in UG mines of SCCL.
- (vii) Bio-technological conversion of lignite to humic acid.
- (viii) The influence of rank and macerals/microlithotypes and physico-chemical composition on combustion of pulverized coal.
- (ix) Development of 25 KW industrial power generators using high ash coal in an oscillatory combustor.
- (x) Development of equivalency chart between UHV & GCV.

The summarised status as on 31.03.2003 is as follow :

Ongoing Projects as on 01.04.2002	- 42
Projects sanctioned during 2002-03	- 10
Projects completed during 2002-03	- 10
Projects dropped during 2002-03	- Nil
Projects on-going (as on 31.03.2003)	- 42

8.3 R&D PROJECTS FUNDED BY CIL R&D BOARD :

8.3 The R&D board of CIL was constituted by Coal India in August 1995. Field oriented research projects including transfer and absorption of new technology are taken up in line with the identified thrust areas of the subsidiaries of CIL.

As on 01.04.2002 a total of 15 R&D projects were under implementation. During 2002-03, 2 new projects were added. Thus a total 17 projects were under implementation during the year, out of which the following 5 projects have been completed during 2002-2003.

1. Chemical treatment and centrifugation and environment friendly disposal of coal washery tailing.
2. Roof support design for development and depillaring at Tandsi project, WCL with Study of in-situ stress.
3. Resource survey characterization and blending studies of low volatile coal for steel Industry.
4. Development of computerized continuous mining equipment condition monitoring.
5. Restoration of bio-diversity on OB dump using integrated Bio-technological approach.

The summarised status as on 31.03.2003 is as follows :

(i)	On-going project as on 01.04.2002	- 15
(ii)	Projects sanctioned during 2002-2003	- 02
(iii)	Projects completed during 2002-2003	- 05
(iv)	Projects dropped during 2002-2003	- NIL
(v)	Projects on-going (as on 31.03.2003)	- 12

9.0 MINING SERVICES :

9.1 UNDERGROUND MINING SERVICES

Works done during the year under review are as under :-

- (i) Report on "Revised Methodology for Estimation of Normative Cost of Sand Stowing" for each eligible mines has been submitted to CCDA.

Computation of normative cost of sand stowed/transported for each eligible mine in CIL mines in ECL, BCCL, CCL WCL, SECL, MCL and outside CIL in SCCL, TISCO, and IISCO.

Vetting of sand stowing for 143 mines. The job has been awarded by CCDA Committee.

Negotiation with SCCL is going on regarding the defining and selection of various alternatives on method of coal extraction considering the limitation of surface subsidence for preparation of revised feasibility report of Manuguru Shaft Block-I.

- (ii) Report on "Arrangements for Sand Stowing in Dishergarh Seam of Satgram Project, ECL and

Detailed design and preparation of working drawing for construction purpose.

- (iii) Report on Performance analysis of PSLW and SDL/LHD faces in CIL mines and related critical appraisal.

- (iv) Conceptual Report for working two experimental panels in Lower Bachra seams of Churi UG mine, CCL.
- (v) Report on technical note for exploitation of seams in Dabor Colliery Salanpur Area, ECL.
- (vi) Report on Study of Technical Preparedness of Pinoura UG mine, SECL for deployment of Continuous Miner.

9.2 OPENCAST MINING

During the year following consultancy jobs were taken up :-

Outside Consultancy Jobs :

- (i) Mine Feasibility Study for Barsingsar Lignite Project, NLC.
- (ii) Conceptual Report on Alternate Mining Technology for Mine-III, NLC
- (iii) Pre-Feasibility Report of Bermo Mine, DVC.
- (iv) Conceptual Study on Feasibility of Coal Availability from the mines/blocks of NCL for Renusagar Power Division, Hindalco.

Major Internal Consultancy Jobs :

- (i) Report on Opencast Mining Potential in NEC.
- (ii) FR for Lekhapani OCP, NEC.
- (iii) PR for Chuperbhita OCP, ECL.
- (iv) Advance Action for Chuperbhita OCP, ECL.
- (v) Conceptual Report on Kalyaneshwari Project, BCCL.
- (vi) Drgagline balancing diagram for working the Lajkura seam at Lajkura OCP, MCL.
- (vii) Mining plans for Renewal of Mining Lease of NEC mines for the following four leasehold areas :

Tirap, Ledo-baragolai, Namdang and Lekhapani-Tipongpani,

- (viii) Report of the Task Force on Expansion of Rajmahal OCP from 10.5 Mty to 17 Mty.

Other Jobs :

- (i) Assessment of capacity of all the opencast mines of CIL.
- (ii) Performance analysis of HEMM deployed in OC mines.
- (iii) Technical scrutiny of project reports.

10.0 SPECIALISED SERVICES :

10.1 Specialised services such as mine system capacity assessment, planning of optimal environmental conditions etc. for underground mines, with a view to improve production, productivity & safety, were rendered. Work done during the year :

- (i) Mine capacity assessment of CIL underground mines.
- (ii) Publication of standard price list for Mining Equipment.
- (iii) Ventilation System Design for Underground Mines.
Ventilation re-organisation planning was done for 6 nos. of mines.
- (iv) Gas Surveys were carried out for 7 nos. of mines and mine air sample analysis for 190 nos. of samples was done.
- (v) Fire Control Studies for 2 nos. of mines were carried out in the year 2002-2003.

10.2 MINING LABORATORY

10.2.1 A total of 1709m of rock/coal cores and 63 samples of rock/coal from underground workings were tested for Physico-mechanical properties. Rock mass rating of roof strata was determined for different subsidiaries of Coal India.

10.2.2 A CIL R&D Board sponsored project on "Establishment of longwall strata control services" is in progress. For this computer hardware and software have already been procured. Simulation of mine workings and state is in progress.

10.2.3 An S&T project namely "Development of light weight steel props for underground coal mines" has been taken up and under this project, numerical analysis software (ANSYS) was procured and installed at RDCIS in collaboration with CMPDIL. Numerical Simulation of different tubular Profiles and laboratory testing of 17 props of different profiles have already been completed in the Mining Laboratory, CMPDIL.

10.2.4 Subsidence prediction studies were carried out for 8 underground mines namely Rani, Atari, Bagdeva, Kapildhara, Pinoura, Damini, Vindhya, Khairaha underground mines of SECL and Murpar UG Mine no. 1 of WCL.

10.2.5 Non Destructive Testing (NDT) of mine winder and head gear components of as many as 31 installations were completed. NDT was also done for 14 sets of cage suspension gear and head 7 tail rope attachments, 12 sets of shaft attachments and 3 sets of powered supports of Moonidih.

Besides, Non Destructive Tests for 4 draglines, 2 shovels and structures of 4 CHPs have been carried out during 2002-03.

10.3 BLASTING & EXPLOSIVE UTILISATION

CMPDI has developed expertise in solving multi variable problems related to blasting, sampling and Testing of Explosives and Accessories, introduction of new Technology etc. Following services were rendered to different subsidiaries of Coal

India Limited and outside agencies during 2002-03.

(i) Controlled Blasting and vibration study.

Study for relaxation of danger zone i.e. to work safety within 300m of Opencast Mine workings. Such jobs were done in 9 (nine) mines of CCL, BCCL and MCL.

(ii) Vibration monitoring was done in the mines of World Bank aided project of CCL Mines.

(iii) Fragmentation improvement studies were completed in the 12 (twelve) opencast mines in MCL.

(iv) Random sampling and testing of explosives and accessories at CCL mines/magazines and also at MCL mines/magazines were also done.

10.4 MINING ELECTRONICS

Major works carried out during the year are as mentioned below :

10.4.1 Preparation of Feasibility Report/Schemes/ NIT etc.

(i) NIT for Optical Fibre Network of NCL, Singrauli prepared and submitted.

(The scheme was prepared and submitted by CMPDI during 2001-02)

(ii) Scheme on Integrated Communication Network for MCL which includes down the line communication from MCL, HQ to collieries linking VSAT Communication Network of CIL (Coal net) in terms of providing Voice/Data/Video Conferencing facilities.

(iii) Scheme on Integrated Communication for ECL prepared and submitted linking Coal net in terms

of providing Voice/Data/Video Conferencing facilities upto the level of areas/units of ECL.

- (iv) Communication Chapter for various reports being prepared at different RIs.

10.4.2 Repairing/Development of Electronic Cards of HEMM Equipment /Gas Monitors.

- (i) 90 Nos of methanometers were repaired and calibrated.
- (ii) 91 Nos. of HEMM cards were repaired, tested and commissioned at various sites of CIL opencast mines.

11.0 GEOMATICS :

Geomatic services include the task of planning, formulation and implementation of projects related to Remote sensing, GIS, GPS, Topographical Survey, Digital Catrography and Coal Petrography. Following jobs were carried out during the year.

11.1 Remote Sensing

- (i) Land use/cover mapping of buffer zone of Umrangsho limestone mine, NC Hills, Assam for IBM Nagpur.
- (ii) Hydro geomorphic mapping for locating the potential ground water zone in and around Darjeeling town based on satellite data Govt. of West Bengal.
- (iii) Geo-Structural and geomorphological mapping of 7 CBM blocks viz. North Karanpura, South Karanpura, Wardha Valley, Sonhat, Sohagpur, Neyveli and Manargudi for Directorate General of Hydrocarbon, Ministry of Petroleum and Natural Gas, Govt. of India.
- (iv) Land use/cover mapping of buffer zone of 11 projects of CCL, 9

projects of MCL, 5 projects of NCL, 3 projects of ECL for preparation of EMPs.

- (v) Monitoring the impact of opencast coal mining on land use pattern in Piparwar and Ashoka OCPs of Central Coalfields Ltd. based on the Satellite data of the year 1992-2002.
- (vi) Thematic mapping of Raniganj Coalfield based on the Satellite Data of the year 1992 & 2002 for Eastern Coalfields Limited.

11.2 Survey and Drawing

- (i) OBR Check measurement carried out on periodic basis in 33 Opencast mines (6 OC projects in SECL, 4 OC projects in CCL, 3 OC projects in ECL, 9 OC projects in MCL, 3 OC projects in WCL, 8 OC projects in NCL) having OBR of 3 million cum and above per annum :
- (ii) GPS survey for control establishment in SP mine area, Rajmahal project and Simlong mine of ECL, Katras area of BCCL, with reference to Survey of India network of control.
- (iii) Topographical survey in details with 0.3m contour interval of ISM campus, Dhanbad.
- (iv) Correlation survey of 9 pits in different underground mines of BCCL.
- (v) Scale conversion (from FPS to CGS system) of 50 nos. existing colliery plans received from CCL and ECL.
- (vi) Coal stock verification of M/s Jindal Steel & Power Limited (JSPL), Raigarh.

11.3 COAL PETROGRAPHY LABORATORY :

- (i) Macerals study and vitrinite reflectance on 345 coal samples from

CCL, BCCL, WCL, SCCL, NLC, MCL and imported coal samples from M/s R.V. Briggs, Pvt. Ltd., Kolkata were carried out.

(ii) Coal Cleat study (Cleat aperture/spacing) through Scanning Electron Microscope (SEM) and mineralogical study by X-ray Diffractometer (XRD) of 17 samples were carried out for Coal Bed Methane study for Directorate General of Hydrocarbons (DGH), MOP & NG, GoI.

(iii) Research Project titled - "Resource survey, Characterisation and blending studies of low-volatile coking coal for their use in steel industry", funded by CIL R&D Project (CIL R&D 1.03.97) has been completed and the Final Project Report submitted on 25.09.2002.

(iv) Research Project titled "Characterization of cleats in coal from Raniganj and Jharia coalfields funded by CIL R&D project has been taken up. First and second phase of the field investigation/mapping and collection of samples from Lodna underground mine of BCCL in Jharia Coalfield has been completed.

12.0 INFORMATION TECHNOLOGY

CMPDI has taken action for establishing infrastructural facilities as per IT implementation scheme in coal industry during the 10th five year plan.

Completed Projects :

- * CCL (HQ)/Area/CWS/Hospital/Washery offices have been provided Internet/Intranet facilities through the infrastructure installed at CMPDI (HQ), Ranchi using 2 mbps leased line.
- * BCCL (HQ), Moonidih and

Sudamadih area office have been linked to Internet using Dial-up connection under CBM UNDP project.

- * Development of Land Information system for CCL addressing queries on location, landuse, land category, compensation and employment relating to land acquired for mining purpose under Coal Bearing Act & Land Acquisition Act.

On-going Project :

- * Setting up of GIS Centres at CIL subsidiaries.
- * Executive Information System for CIL. This jobs is being continued since 1993 satisfying the requirements of CIL for DPC and global seniority.
- * World Bank/MOEF Project : Environmental Management Capacity Building with Montgomery Watson Harza, US (International Consultants) for non-coal sections.
- * Guidelines for Science and Technology for Coal are available on web site using CMPDI server.

13.0 ENVIRONMENTAL MANAGEMENT

13.1 EIA/EMPs

- (i) During the year, CMPDI formulated 30 EMPs for projects of the Coal companies.
- (ii) Baseline environmental data was generated for 1 project of ECL (Chuperbita OC), 1 project (Rajrappa) of CCL for preparation of EIA/EMP and also of Korba CF for preparation of REMP.

13.2 Environmental Monitoring for Air, Water and Noise

The details of environmental monitoring work done by CMPDI during 2002-2003 is given below :

Company	No. of Project
ECL	15
CCL	59
WCL	66
SECL	44
NCL	09
MCL	17
TOTAL	210

13.3 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 projects sites and disbursement of funds to the implementing agencies. 22 schemes are under implementation including 4 fire control schemes sanctioned in 2001-02.

13.4 Special Studies

- (i) A scheme on "Fine Coal Conservation and Environment Management of Kedia Washery was prepared by CMPDI for CCL in June 2002 and submitted to CCDA for partial funding. The scheme has been approved by CCL board and agreed by CCDA for partial funding.
- (ii) A new S&T project titled "Development of Emission Factors for various mining machineries and operation in OC Coal mines" was approved by Ministry of Coal in April '02 for an estimated cost of Rs. 78.01 lakhs. This is under implementation.

13.5 Environment Management Capacity Building - Technical Assistance project; Mining Sub-Component :

World Bank has funded grants of MOEF for undertaking the above project for non-coal mining sector. CMPDI has been selected as National Consultant CME, ISM, Dhanbad, the Executing-Agency for Activity II A of this sub-component of the project and M/s Montgomery Watson Hazra is the International Consultant. The Activity II A contains Institutional strengthening of government agencies at Central and State level who are responsible for policy making, legislating standard setting and enforcement as well as strengthening of counterpart Institutions as resource groups/consultants for central and state government agencies including mining companies.

13.6 Study of Environmental Problems of Aravalli Hills and preparation of Action Plan for restoration of environmental quality.

With a quest to solve the problem of environmental degradation and to promote sustainable development in the Aravali Hill range, Central Pollution Control Board assigned the work of study of environmental problems of Aravali Hills and to prepare the action plan for restoration of environmental quality in Alwa and Gurgaon districts which are covered under Aravali Notification, to CMPDI after interaction & deliberation with a number of leading scientific institutions in India.

The Report covering the EIA/EMP and Action plan has been submitted to Central Pollution Control Board.

13.7 Zoning Atlas :

Under the Zoning Atlas studies (World Bank aided project), Madhya Pradesh Pollution Control Board has awarded EMP for Stana Limestone Belt and EMP for Korba region. This requires preparation of Environmental Status Maps to be prepared

using Remote Sensing Data. The reports were submitted to MPPCB in March 2003.

13.8 Sewage Treatment Schemes

CMPDI has prepared the report of Kakri Sewage Treatment Plant (STP) on which execution work is being carried out. CMPDI has also taken up design of STP of 2 projects of NCL, (Singrauli Colony and Khadia Project) and 1 Project of Barkakana CWS of CCL.

13.9 Fly Ash Characterization for Mine Void Reclamation

- (i) NALCO awarded work to CMPDI for rapid EIA for back filling of Fly Ash in abandoned mines of MCL in June 2002. A draft report was submitted to M/s NALCO in March 2003.
- (ii) NTPC, Talcher awarded work to CMPDI for Fly Ash Characterization of Talcher TPS and Baseline Data Generation for back filling of fly ash in abandoned mines of MCL in January 2003. Draft report has been submitted.
- (iii) NTPC, Singrauli has awarded work to CMPDI "hydro-geological Investigations and Environmental Impact Assessment for backfilling of ash "NTPC-Singrauli" in abandoned Gorbi mine of NCL in January 2003. The work is scheduled to be completed in May 2004.

14.0 HUMAN RESOURCE DEVELOPMENT

Human Resource Development Division organized various training to employees of CMPDI and other subsidiaries of CIL through Staff Training College (STC), IICM and other training institutes outside coal India.

During the year 2002-03 STC trained 765 employees against a target of 746 through

45 programmes though targeted for 50 nos.

The STC organized training programmes under five major categories viz (i) Technical, (ii) Managerial, (iii) Computer application, (iv) Quality Skills etc. During the year STC conducted off campus training programmes (11 nos.) at subsidiaries of Coal India Ltd. viz. SECL, WCL MCL, NCL in which 214 employees were trained on Quality System. Out of 45 programmes 21 programmes were of 5-days duration for promotion of Rajbhasha, four nos. of Hindi Karyasalas were organized in which 87 employees participated.

In addition 174 senior executives were trained at IICM and 66 executives were sent to outside for training/seminar/workshop. Seven executives were sent abroad e.g. USA, UK., France, Japan, Viena, Indonesia for training and consultancy jobs.

Towards social obligation CMPDI extended its facilities for vocational training to 98 students from various institutes/colleges.

15.0 Management System Consultancy

CMPDI diversified into management system consultancy in 1998. While continuing to provide consultancy for ISO 9000 Quality Management System (QMS) and ISO 14000 Environmental Management System (EMS), it made forays into the consultancy for ISO 17025 (Testing and calibrating laboratories). The scope of this consultancy includes :

- Creation of management system.
- Providing training support.
- Implementation, certification and post certification support.

Management System consultancy worth Rs. 14.5 lakhs were completed during this year for various subsidiaries of CIL, Hindustan Malleables Forgings Limited, Dhanbad and SNL Bearings Limited, Ranchi.

Management system consultancy for CIL and its subsidiary companies :

CMPDI is presently providing management system consultancy worth of Rs. 1.49 Crores to 44 establishments within CIL. These include some of the prestigious coal mines like Gevra, Dipka Kusmunda (SECL), Rajmahal, Chinakuri (ECL), and Piparwar, KD Hesalong (CCL), in addition to many other HEMM workshops, and central hospitals of CCL and NCL. Under CMPDI's consultancy Padmapur and Umrer Opencast mines of WCL were certified for ISO 9001 during the year. These coalmines are the first ones in India to achieve this distinction, and that too against the version of ISO 9001 : 2000 standard.

Work done in 2002-03 :

The details of such ongoing consultancy are as follows :

ECL : Workshops : Sonapur-Bazari OCP.

Mines : Rajmahal OCP for ISO 9000 and ISO 14000 certification.

CCL : Workshops : HEMM workshops of Piparwar and Kathara, Rajrappa, Regional workshops of NK, Jarangdih and Hazaribagh, Unit workshops of Parej, KD Hesalong, Urimari, Sel. Dhor and Pundi for ISO 9000 certification.

Mines : Piparwar and KD Hesalong OCPs for ISO 9000 and ISO 14000 certification.

Hospital : Central Hospital, Gandhinagar for ISO 9000 and ISO 14000

WCL : Mines : Padmapur OCP for ISO 14000 certification. Padmapur and Umrer OCPs have been certified for ISO 9001 certification.

SECL : Workshop : Korba, Gevra, Bijuri and Korea for ISO 9000 certification.

Mines : Gevra, Dipka and Kusmunda OCPs for ISO 14000 certification.

NCL : Workshops : Central workshop, Jayant for ISO 9000 certification.

Hospital : Nehru shatabdi Chikitsalaya for ISO 9000 certification.

MCL : Workshops : Ib-valley Workshop for ISO 9000 certification

Mines : Lingaraj OCP for ISO 9000 certification.

Consultancy outside CIL :

Apart from the CIL establishments, efforts have been made to provide consultancy to outside clients. Internal auditing and training on ISO 9001 were provided to SNL Bearings Limited, Ranchi. Similarly, Internal Quality Auditor's training was provided for SNL Bearings Ltd., Ranchi and Hindustan Malleables Forgings Limited, Dhanbad.

16.0 ENGINEERING SERVICES :

Apart from providing consultancy services for CHP, Workshops, Power supply, distribution & control systems, Industrial & residential buildings, Road, & Railway siding, Townships, the following major Engineering Services were provided during 2002-03.

16.1 ENERGY AUDIT MANAGEMENT

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

22 nos. of energy audit/conservation reports (Electrical) and 2 nos. (Diesel Audit/Conservation reports) were prepared for UG/OC mines of CIL.

16.2 INSPECTION SERVICES

Services towards third party inspection of materials/equipment worth Rs. 170 Crores (approx) purchased by different subsidiary of CIL has been rendered. CMPDI has earned inspection fee of Rs. 68 lakhs.

Inspection of materials/equipments has also been carried out for Jharkhand State Electricity Board and M/s. Forech India Ltd., New Delhi.

16.3 CAPTIVE POWER PLANTS

- (i) Report on optimum utilization of Gidi & Rajrappa CPPs.
- (ii) Tender document for Leasing of Kathara CPP.
- (iii) Conceptual note on FBC power plants based on rejects of Kalinga and Bharatpur-Ananta Washery.

16.4 CIVIL SERVICES

Following civil services were provided during the year under review.

- (i) Excavation and E&M Workshop at Kalinga, OCP.
- (ii) Road diversion and river protection work at Vasundhara Project.
- (iii) Phase wise adequacy checking of 36 nos. CHPs of MCL.
- (iv) Computer Centre Building of ISM Dhanbad.
- (v) Monitoring of vibration at silo of Bharatpur CHP.
- (vi) Vibration analysis and structural adequacy study of the structures of Gauri CHP, WCL.
- (vii) Scrutiny of structural design for 1.6 MGD water supply project for Basundhara area, MCL.

(viii) Adequacy checking of 8 nos. of CHPs of NCL.

(ix) Design of strata bunker at Sheetal Dhara project, SECL.

(x) Design of Habitat of CCL at Gandhi Nagar.

(xi) Design of standard type quarters for MCL.

(xii) Construction of a sand stowing plant at Satgram Project.

(xiii) Adequacy checking for 9 nos. of CHPs of Dipka-Gevra Area of SECL.

17.0 MANPOWER (AS ON 31.03.2003)

EXECUTIVE	867
NON-EXECUTIVE	
Monthly Rated	1513
Daily Rated	1056
	2569
GRAND TOTAL	3436

18.0 RAJBHASHA

Your Company Continued to implement the statutory provisions of the Official language Act and the directives of the Ministry of Coal, Home affairs (Official language) and Coal India Limited and made multi dimensional efforts to enhance the progressive use of Hindi in day-to-day official work during the period under review. Besides documents under section 3 (3) of the official language Act, the monthly and Annual reports of your Company, minutes of the meetings of Board of Directors and other meetings also continued to be prepared bilingually. The Publication of "Des Kaal Sampada" also continued to enhance the creative writing.

The Hindi fortnight was also organized during the period under review under which five Hindi competitions were organized.

About 70 officers/staff participated in this competition and were awarded suitably. Four Hindi workshops were also continued to be organized under the aegis of STC to facilitate the use of official language Hindi in day-to-day official work.

Your Company had been awarded the first official Language award for its outstanding performance for the use of Hindi in official work by the Ministry of Coal.

19.0 VIGILANCE

Vigilance Awareness Week :

As per the directive of CVC, Government of India, 'Vigilance Awareness Week' was observed in CMPDI Hqs and its different Regional Institutes from 31st October, 2002 to 6th November, 2002. The Vigilance Awareness Week at CMPDI, Ranchi commenced with taking pledge for maintenance of integrity, transparency and eradication of corruption from all walks of life by all employees of CMPDI. The pledge was administered by CMD, CMPDI various banners/posters on vigilance awareness were displayed at the prime location of the office. An essay competition was also organized for the employees posed at CMPDI Hqs, Ranchi. A debate competition was also organized for the employees. Prizes were distributed to the winners of the Debate and essay Competition. Vigilance awareness week was also celebrated in all the seven Regional Institutes of CMPDI.

Expediting Completion of Investigation/ Oral Inquires :

- (a) The pending Disciplinary Proceeding cases of CMPDI are being reviewed by CMD, CMPDI every month.

- (b) Every quarter a Committee comprising of Director (Operation), Chief Vigilance Officer and General Manager (P&A), CMPDI reviews the pending cases under the stages of Disciplinary Proceeding, Suspension and Prosecution and a report is sent to the Ministry with a Copy to CVO, CIL Kolkata every quarter regularly.
- (c) During the period from 1.04.2002 to 31.03.2003, 4 (four) complaints were disposed off and 1 (one) investigation was completed. The executives of vigilance department also conducted number of surprise inspections at various units of CMPDI.

20.0 DIRECTOR'S RESPONSIBILITY STATEMENT :

- 20.1 In the preparation of the annual accounts, the applicable accounting standards had been followed along with proper explanation relating to material departures;
- 20.2 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.
- 20.3 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;
- 20.4 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 2002-2003. 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 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, Singareni Collieries Company Limited, Punjab State Electricity Board, Uranium Corporation of India Ltd., Jadugoda, Indian Airlines,

Bihar State Mineral Development Corporation, Tata Iron & Steel Company Limited, National Thermal Power Corporation Limited, Neyveli Lignite Corporation Limited 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
29.08.2003

(M.N. Jha)
Chairman-cum-Managing Director

AUDITOR'S REPORT

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

We have audited the attached Balance Sheet of Central Mine Planning & Design Institute Limited as at 31st March, 2003 and the Profit & 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 auditing standards generally accepted in India. Those Standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.
2. As required by the Manufacturing and Other Companies (Auditors' Report) Order, 1988 issued by the Company Law Board in terms of section 227 (4A) of the Companies Act, 1956 and on the basis of such examination of books and records as we considered appropriate and according to the information and explanations given to us during the course of our audit we annex hereto a statement on the matters specified in paragraphs 4 and 5 of the said Order.
3. Further to our observations in the Annexure referred to in paragraph 2 above we report that :

MANAGEMENTS' REPLY

AUDITOR'S REPORT

MANAGEMENTS' REPLY

(A) Comments on Accounts :

- (i) Depreciation has not been provided at appropriate rates on plant and machinery included in Buildings (Policy No. 3.2.1 and 6.3.1 in Schedule 17).
- (ii) Buildings Cost or WDV include Rs. 982.31 lakh standing on land belonging to other CIL Subsidiaries which has not been conveyed in favour of the Company (Note 1.1.3 of Schedule 18).
- (iii) No. depreciation has been charged on Buildings included in Gondwana Land (Note No. 1.2.1 in Schedule 18).
- (iv) We are unable to express our opinion to the extent of realisability of old debts due from CIL Subsidiaries of Rs. 78 lakh outstanding since 31/3/1993 (Note No. 3.1.2 in Schedule 18).
- (v) As indicated in Note No. 3.1.3 in Schedule 18 balances in Debtors are yet to be confirmed. Balances of loans & advances and creditors are also not confirmed.
- (vi) 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.
- (vii) Impact of the above comments (i) to (v) on profit/loss or assets/liabilities is unascertained. There is no impact of the comment (vi) on any of them.
- (viii) Change in Accounting Policy :

This is the Accounting Policy of the Company followed since inception.

No comments.

This is the Accounting Policy of the Company followed since inception. The depreciation of the old Building purchased alongwith land could not be charged in absence of separate value of the Building.

The entire amount is recoverable after the reconciliation.

Letters have already been issued for confirmation of balance in Debtors (other than CIL subsidiaries)

No Comments.

No Comments.

AUDITOR'S REPORT**MANAGEMENTS' REPLY**

- (a) Unlike in previous years stock of stationery are charged off and not considered in inventory (Policy No. 5.2.1 in schedule 17) and effect on Profits/losses is given in note no 10.1 in schedule 18.
- (b) Selling Rate will not be revised for effect of errors and omissions in the accounts up to 0.2% (Policy No. 15.1.3. in schedule 17). There will be no impact on Profit/Loss or Asset/Liability due to above change.
- (ix) Change in profit after tax as per AS-22-Accounting for Taxes on Income-Deferred Tax Asset of Rs. 632.18 lakh has been created by crediting Profit & Loss A/c (Note No. 11.0 in Schedule 18).
- (x) A provision has been made in the accounts at the rate of 50% of the value of stores items which did not move for the last 5 years. (Note No. 2.2 of Schedule 18).

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

- (a) 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.
- (b) in our opinion, proper books of accounts as required by law have been kept by the Company so far as appears from our examination of the books;
- (c) the Balance Sheet and Profit & Loss Account dealt with by this report are in agreement with the books of account;
- (d) in our opinion, the Profit & Loss Account and Balance Sheet comply with the requirements of the applicable Accounting Standards

No Comments.

No Comments.

No Comments.

No Comments.

AUDITOR'S REPORT

referred to in sub-section (3C) of section 211 of the Companies Act, 1956; However, Segmentwise Assets and liabilities have not been disclosed as per AS -17 (Segment Reporting)

- (e) 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 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.
- (f) 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 :
 - (i) in the case of the Balance Sheet, of the state of affairs of the Company as at March 31, 2003 and
 - (ii) in the case of the Profit & Loss Account, of the Profit of the Company for the year ended on that date.

For S. K. Basu & Co.
Chartered Accountants

Sd/-

S. K. Chakravarti
Partner

Camp : Ranchi

Dated : 28th June, 2003

MANAGEMENTS' REPLY

Reference is made to the report of the auditor dated 28th June 2003 on the accounts of Central Mine Planning & Design Institute Limited for the year ended 31st March 2003.

The company has generally maintained proper records showing all particulars including quantitative details and valuation of assets. A major portion of the high value assets has been physically verified by the Management in accordance with a planned programme of verification adopted by the Company. As explained to us in material discrepancies were noticed on such verification.

None of the fixed assets of the Company has been verified during the year.

The stock of high value stores and spare parts has been physically verified by the Management during the year. Some low value items have also been verified on last date. In our opinion, the frequency of verification is reasonable.

In our opinion, and according to the information and explanations given to us, the procedure of physical verification of stock followed by the management are reasonable and adequate in relation to the size of the Company and the nature of its business.

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 account.

In our opinion and on the basis of our examination, the valuation of stock is fair and proper in accordance with generally accepted accounting principles and is on the same basis as in the preceding year.

ANNEXURE TO THE AUDITORS' REPORT

(Referred to in Paragraph 2 of our report of even date on the accounts of Central Mine Planning & Design Institute Limited for the year ended 31st March 2003)

1. The Company has generally maintained proper records showing full particulars including quantitative details and situation of fixed assets. A major portion of the high value assets has 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.
2. None of the fixed assets of the Company has been revalued during the year.
3. The stock of high value stores and spare parts has been physically verified by the Management during the year. Some low value items have also been verified on test basis. In our opinion, the frequency of verification is reasonable.
4. In our opinion, and according to the information and explanations given to us, the procedures of physical verification of stock followed by the management are reasonable and adequate in relation to the size of the Company and the nature of its business.
5. 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 account.
6. In our opinion and on the basis of our examination, the valuation of stock is fair and proper in accordance with normally accepted accounting principles and is on the same basis as in the preceding year.

MANAGEMENTS' REPLY

No Comments.

No Comments.

No Comments.

No Comments.

No Comments.

No Comments.

7. The Company has not taken any loan, secured or unsecured from Companies, firms or other parties listed in the register maintained under section 301 of the Companies Act, 1956 ("The Act"). The Company has taken unsecured loan from its Holding Company, Coal India Ltd.
8. The Company has not granted any loan, secured or unsecured, to Companies, firms or other parties listed in the register maintained under section 301 of "The Act."
9. Advances in the nature of loans given by the Company to its employees have generally been recovered regularly, with interest, as stipulated. In some cases unadjusted amounts against advances given for official purposes are being recovered from salary.
10. In our opinion and according to information and explanations given to us, there are adequate internal control procedures commensurate with the size of the Company and the nature of its business for the purchase of stores, spare parts, components, plant & machinery, equipment and other assets and for sale of services.
11. In our opinion and according to the information and explanations given to us, transactions of purchase of goods, materials, services, sale of Services made in pursuance of contracts or arrangements entered in the register maintained under section 301 of "The Act", 1956, aggregating during the year to Rs. 50,000/- or more, in respect of each party have been made at prices which are reasonable having regard to prevailing market price for such goods, materials or services or the prices at which transactions for similar goods or services have been made with the other parties.

No Comments.

No Comments.

No Comments.

No Comments.

No Comments.

- | | |
|---|---|
| <p>12. During the year, the company has determined obsolete/surplus and non-moving (for five years) stores and has made adequate provision in the accounts for loss arising out of the items so determined.</p> | <p>No Comments.</p> |
| <p>13. The Company has not accepted deposits from the public within the meaning of section 58A of "The Act" and the rules framed there under.</p> | <p>No Comments.</p> |
| <p>14. The Company did not have any manufacturing activity during the year, hence the question of maintaining records for sale and disposal of realizable by products and scrap does not arise. However, reasonable records for the sale & disposal of used stores, spare parts and surveyed-off assets which are termed by the Company as scrap, have been maintained.</p> | <p>No Comments.</p> |
| <p>15. The Company has appointed outside agencies of Chartered Accountants/Cost Accountants for Internal Audit of Head Quarter and Regional Institutes, except Regional Institute - I & II at Asansol & Dhanbad respectively. In our opinion, the Company has an internal audit system commensurate with its size and nature of its business, Locational and functional coverage, however, should be increased.</p> | <p>The Company has appointed firms of Chartered Accountants/cost Accountants for Internal Audit of H.Qr. and Regional Institutes for the year 2002-03 including RI-III, Ranchi except the Regional Institute No. I & II at Asansol & Dhanbad respectively. The Internal Audit of RI-I, Asansol & RI-II, Dhanbad has been carried out continuously up to the Financial year 1999-2000. The functional coverage during the year 2002-03 has also increased as compared to earlier years. In case of CMPDIL, H.Qr., the functional coverage has increased widely. Thus, locational and functional coverage has improved to a great extent.</p> |
| <p>16. We have been informed that the maintenance of cost records has not been prescribed by the Central Government under section 209 (1) (d) of "The Act".</p> | <p>No Comments.</p> |
| <p>17. The Company has been generally regular during the year in depositing provident fund dues with the appropriate authorities. According to the information given to us, Employees' State Insurance Scheme is not applicable to the Company.</p> | <p>No Comments.</p> |

18. According to the information and explanations given to us, there are no undisputed amounts payable in respect of Income-tax, Sales-tax, Customs Duty which are outstanding as on 31st March, 2003 for a period of more than six months from the date they became payable. No Comments.
19. According to the information and explanations given to us and records of the Company examined by us in accordance with the generally accepted auditing practices, no personal expenses have been charged to revenue account, other than those payable under contractual obligations or in accordance with generally accepted business practice. No Comments.
20. The Company is not a sick industrial company within the meaning of clause (O) of sub-section (1) of section 3 of the Sick Industrial Companies (Special Provisions) Act, 1985. No Comments.
21. In respect of service activities carried out by the Company, and according to the information and explanations given to us, the Company has a reasonable system of recording receipts, issues and consumption of stores commensurate with its size and nature of its business. No Comments.
22. The Company has a reasonable system of allocating man days utilized to the relative jobs, commensurate with its size and nature of its business. No Comments.
23. There is a reasonable system of authorization at proper levels and an adequate system of internal control commensurate with the size of the company and the nature of its business, on issue of stores and allocation of store and labour to jobs. No Comments.

For S. K. Basu & Co.
Chartered Accountants
Sd/-
S. K. Chakravarti
Partner

Camp : Ranchi
Dated : 28th June, 2003

**COMMENTS OF THE COMPTROLLER & AUDITOR GENERAL OF INDIA
UNDER SECTION 619 (4) OF THE COMPANIES ACT, 1956
ON THE ACCOUNTS OF THE
CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED
FOR THE YEAR ENDED 31ST MARCH, 2003**

I have to state that the Comptroller & Auditor General of India has no comment upon or supplement to the Auditor's Report under Section 619 (4) of the Companies Act 1956 on the Accounts of Central Mine Planning And Design Institute Limited for the year ended 31st March, 2003.

S/d-

(P. R. Acharya)

Principal Director of Commercial Audit
and ex-officio Member Audit Board - II
Kolkata

**REVIEW OF ACCOUNTS OF
CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED,
FOR THE YEAR ENDED 31ST MARCH, 2003 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:

	<i>Rs. in Lakh</i>		
	2000-2001	2001-2002	2002-2003
LIABILITIES :			
(a) Paid up Capital			
(i) Government	1904.00	1904.00	1904.00
(ii) Others (All Shares are held by Coal India Limited-Holding Company)	0.00	0.00	0.00
	1904.00	1904.00	1904.00
(b) Reserves & Surplus :			
(i) Free Reserves & Surplus	1984.64	1978.43	2442.82
(ii) Share Premium Account	0.00	0.00	0.00
(iii) Capital Reserve	1592.36	1974.65	1855.17
(c) Borrowings :			
(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	20.87	20.87	18.06
(vii) Holding Company	160.57	160.57	160.57
(d) (i) Current Liabilities & Provisions	14131.54	13876.33	11211.22
(ii) Provision for Gratuity	848.86	1389.79	1875.65
(e) Deferred Tax Liability	0.00	0.00	0.00
Total	20642.84	21304.64	19467.49
ASSETS			
(f) Gross Block	11388.18	11828.30	11872.72
(g) Less : Depreciation	5285.90	5684.47	6085.32
(h) Net Block	6102.28	6143.83	5787.40
(i) Capital work-in-Progress	356.65	426.94	449.72
(j) Investments	0.00	0.00	0.00
(k) Current Assets, Loans & Advances	13835.26	14379.23	12329.56
(l) Deferred Tax Asset	0.00	0.00	0.00
(m) Miscellaneous Expenditure not written off	348.65	354.64	268.63
(n) Accumulated Losses	0.00	0.00	0.00
Total	20642.84	21304.64	19467.49
(o) Working Capital [k-d (i) - c (vi)]	-317.15	482.03	1100.28
(p) Capital Employed [h+o]	5785.13	6625.86	6887.68
(q) Net Worth [a+b(i) + b(ii) - m - n]	3539.99	3527.79	4078.19
(r) Net worth per Rupee of paid up Capital (in Rs.)	1.86	1.85	2.14

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:

(In percentage)

	2000-2001	2001-2002	2002-2003
A. Liquidity Ratio	97.76	103.47	109.80
Current Ratio (Current Assets to Current Liabilities & Provisions and Interest accrued and due but excluding provisions for gratuity) $[k/(d(i)+c(vi))]$			
B. Debt Equity Ratio			
Long term debt to Net Worth			
$[c(i) \text{ to } c(v) \text{ excluding short term loans } /q]$	0.00	0.00	0.00
C. Profitability Ratio :			
(a) Profit before tax to :			
(i) Capital employed	- 6.58	4.23	2.89
(ii) Net Worth	- 10.76	7.95	4.88
(iii) Sales	- 2.44	2.13	1.61
(b) Profit after tax to Equity	- 23.76	- 0.33	24.39
(c) Earning per share (in Rupees)	- 237.62	- 3.26	243.90

3. WORKING RESULTS

The working results of the Company for the last three years ended 31st March 2003 are as under :

Rs. in Lakh

	2000-2001	2001-2002	2002-2003
(i) Sales	15598.32	13135.04	12339.03
(ii) Less Excise Duty	0.00	0.00	0.00
(iii) Net Sales	15598.32	13135.04	12339.03
(iv) Other adjustment and Miscellaneous Income	191.43	74.42	63.03
(v) Profit (+) Loss (-) before tax and P.P. Adjustments	- 502.67	220.58	14.77
(vi) Prior Period Adjustments	- 121.90	- 59.77	- 184.44
(vii) Profit (+) / Loss (-) before tax	- 380.77	280.35	199.21
(viii) Tax Provision (debit (+)/ credit (-))	71.65	286.56	- 265.18
(ix) Profit (+) / Loss (-) after tax	- 452.42	- 6.21	464.39
(x) Proposed Dividend	0.00	0.00	0.00

*Tax provisions for 2002-03 includes a credit of Rs. 632.18 lakh against provision for Dererred Tax

4. SOURCES AND UTILISATION OF FUNDS :

Funds amounting to Rs. 831.77 lakh were generated and utilised during the year 2002-03 as given below :

Rs. in Lakh

	2000-2001	2001-2002	2002-2003
(a) Profit (+) / Loos (-) after tax	- 452.42	- 6.21	464.39
(b) Depreciation	461.65	398.57	400.85
Less : Deprn. Charged to Capital Reserve	403.62	143.79	169.96
(c) Decrease in Working Capital	584.00	-	-
(d) Decrease in Miscellaneous Expenditure	0.00	0.00	86.01
(e) Decrease in Capital Work-in-progreess	857.34	-	-
(f) Capital Grants received	141.92	526.08	50.48
Total Sources of Funds	1188.87	774.65	831.77

Utilisation of Funds

(a) Increase in Fixed assets	1036.67	439.48	44.42
(b) Increase in Capital Work-in-progress	0.00	70.29	22.78
(c) Increase in Working Capital	0.00	258.89	129.58
(d) Decrease in Borrowings	0.00	0.00	2.81
(e) Deferred Tax Assets	0.00	0.00	632.18
(f) Increase in Miscellaneous Expenditure	65.16	5.99	0.00
(g) Tax for earlier years	87.04	0.00	0.00
Total Utilisation of Funds	1188.87	774.65	831.77

5. TREND IN SALES, COST OF SALES AND PROFIT VARIED*Rs. in Lakh*

	2000-2001	2001-2002	2002-2003
Sales	15598.32	13135.04	12339.03
Less : Profit (+)/Loss (-) for the year (before Taxation and prior period Adj.)	- 502.67	220.58	14.77
Cost of Sales	16100.99	12914.46	12324.26
Percentage of Profit (+)/Loss (-) to Cost of Sales	- 3.12	1.71	0.12
Percentage of Cost of Sales to Sales	103.22.	98.32	99.88

6. INVENTORY HOLDINGS

Closing Stock of stores and spares represented 7.40 months consumption in 2000-01, 6.21 months consumption in 2001-02 and 4.78 months consumption in 2002-03.

Closing Stock of Stores and spares as on 31st March, 2003 valued at Rs. 332.86 lakh includes Stores and spares for Rs. 83.73 lakh which have not moved for over 3 years.

7. SUNDRY DEBTORS

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

(Rs. in Lakh)

As on	Sundry Debtors	Sales	Percentage of Debtors to Sales
31.03.2001	9660.78	15598.32	61.93
31.03.2002	8659.69	13135.04	65.93
31.03.2003	8090.22	12339.03	65.57

The age-wise break-up of Sundry Debtors as at the end of the year 2002-03 is as follows :

(Rs. in Lakh)

Debtors outstanding for	Dues from Govt. Deptt.	Dues from PSUs/Corporation/Board	Dues from Privats Parties	Total
Less than 6 months	32.41	3122.44	26.00	3180.85
More than 6 months but less than 1 year	5.52	366.13	0.02	371.67
More than 1 year but less than 3 year	0.00	3449.38	0.49	3449.87
Above 3 years	2.35	1071.06	14.42	1087.83
Total	40.28	8009.01	40.93	8090.22

Sd/-

(P.R. Acharya)

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

Kolkata
The 21st August, 2003

BALANCE SHEET AS AT 31ST MARCH, 2003

	<u>Schedule</u>	As at 31st March 2003 (Rs. in Lakh)	As at 31st March 2002 (Rs. in Lakh)
SOURCES OF FUNDS			
Shareholders' Funds			
Share Capital	A	1904.00	1904.00
Share Money pending allotment	B	0.00	0.00
Reserves & Surplus	C	4297.99	3953.08
Loan Funds			
Secured	D	0.00	0.00
Unsecured	E	178.63	181.44
Total Funds Employed		6380.62	6038.52
APPLICATION OF FUNDS			
Fixed Assets			
Gross Block	F	11850.52	11807.73
Less : Depreciation		6085.32	5684.47
Net Block		5765.20	6123.26
Surveyed off Assets		22.20	20.57
Capital Work in Progress	G	449.72	426.94
Investment	H	0.00	0.00
Current Assets, Loans & Advances			
Inventories	I	241.67	322.53
Sundry Debtors	J	8051.42	8622.93
Cash & Bank Balances	K	2035.49	3725.53
Loans & Advances	L	1531.23	1178.70
Other Current Asset	M	469.75	529.54
Total Current Assets, Loans & Advance		12329.56	14379.23
Less : Current Liabilities & Provisions	N	13086.87	15266.12
Net Current Assets		-757.31	-886.89
Miscellaneous Expenditure (To the extent not written off or adjusted)	O	268.63	354.64
Deferred Tax (net)		632.18	0.00
Accounting Policy	17	6380.62	6038.52
Notes On Accounts	18		
The Schedules referred to above form an integral part of Accounts			
Sd/- (V. Prakasa Rao) Company Secretary	Sd/- (N.P. Dhar) General Manager (F)	Sd/- (J.P. Singh) Director	Sd/- (M.N. Jha) Chairman-cum-Managing Director
Camp : Ranchi Dated : 28th June, 2003	In terms of our report of even date attached For S. K. Basu & Co. Chartered Accountants		
	Sd/- (S. K. Chakravarti) Partner		

PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2003

	<u>Schedule</u>	Current year Year ending 31st March 2003 (Rs. in Lakh)	Previous Year year ending 31st March 2002 (Rs. in Lakh)
INCOME			
Sale of Services	1	12339.03	13135.04
Coal issued for other purpose	2	-	-
Accretion/Decretion (-) in stock	3	-	-
Workshop job for own purpose	4	-	-
Other income	5	63.03	74.42
Total Income		12402.06	13209.46
EXPENDITURE			
Consumption of Stores & Spares	6	607.17	623.26
Employees Remuneration & Benefits	7	8871.49	8795.99
Social Overhead	8	884.47	791.20
Power & Fuel	9	144.64	148.70
Repairs	10	201.51	166.75
Contractual Expenses	11	306.97	1149.39
Miscellaneous Expenses	12	1096.36	1060.43
Total Expenditure		12112.61	12735.72
GROSS OPERATING PROFIT (+) /LOSS(-)		289.45	473.74
Interest	13	29.25	28.07
Depreciation		209.95	217.10
Provisions	14	35.48	7.99
PFOFIT (+)/LOSS (-) FOR THE YEAR		14.77	220.58
Prior Period Adjustment	15	- 184.44	- 59.77
Extra ordinary items	16	-	-
NET PROFIT (+)/LOSS (-) BEFORE TAXATION		199.21	280.35
Provision for Taxation		367.00	286.56
Provision for Deferred Tax		- 632.18	0.00
PROFIT (+)/LOSS (-) AFTER TAX		464.39	- 6.21
Transferred to General Reserve		-	-
PROFIT (+) /LOSS (-) AFTER TRANS TO GENERAL RESERVE		464.39	- 6.21
PROFIT UPTO THE PREVIOUS YEAR		1760.89	1767.10
BALANCE CARRIED TO BALANCE SHEET		2225.28	1760.89
Accounting Policy	17		
Notes On Accounts	18		
The Schedules referred to above form an integral part of Accounts			

Sd/-
(V. Prakasa Rao)
Company Secretary

Sd/-
(N.P. Dhar)
General Manager (F)

Sd/-
(J.P. Singh)
Director

Sd/-
(M.N. Jha)
Chairman-cum-Managing Director

Camp : Ranchi
Dated : 28th June, 2003

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

Sd/-
(S. K. Chakravarti)
Partner

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003

Schedule - A
SHARE CAPITAL

	Current year (Rs. in Lakh)	Previous year (Rs. in Lakh)
Authorised Capital :		
500000 Equity Shares of Rs. 1000/- each.	5000.00	5000.00
	<u>5000.00</u>	<u>5000.00</u>
Issued Subscribed & Paid up :		
(Held by Coal India Ltd., the Holding Co. & its nominees)		
8 Equity Shares of Rs. 1,000/- each fully paid in Cash (Previous Year 8 Equity shares of Rs. 1,000/- each)	0.08	0.08
85392 Equity Shares of Rs. 1,000/- each allotted as fully paid up for consideration received other than cash (Previous Year 85392 Equity Shares of Rs. 1,000/- each)	853.92	853.92
105000 Equity Shares of Rs. 1,000/- each allotted as fully paid for Cash to Holding Company by converting loan in equity	1050.00	1050.00
	<u>1904.00</u>	<u>1904.00</u>

Schedule - B
SHARE MONEY PENDING ALLOTMENT

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

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003

Schedule - C
PRESERVE & SURPLUS

	Current year (Rs. in Lakh)	Previous year (Rs. in Lakh)
CAPITAL RESERVE :		
Grants for purchase of capital equipment		
Energy Coal S&T Grants	1670.03	1454.56
As per last Account	191.85	329.32
Additions during the year	- 299.63	
Less : CIL R&D WIP & CCL	1562.25	1783.88
Less : Depreciation written-off during the year	106.45	1455.80
		113.85
		1670.03
UNDP Grants		
As per last Account	8.80	10.74
Addition during the year	0.18	0.00
	8.98	10.74
Less : Depreciation written off	1.05	7.93
		1.94
		8.80
CCDA Grants		
As per last Account	53.48	70.84
Addition during the year	0.00	0.00
	53.48	70.84
Less : Depreciation written off	17.36	36.12
		17.36
		53.48
EMSC Grants		
As per last Account	2.17	3.70
Addition during the year	0.00	0.00
	2.17	3.70
Less : Depreciation written off	1.53	0.64
		1.53
		2.17
CIL R&D Grants		
As per last Account	240.17	52.52
Addition during the year	158.26	196.76
	398.43	249.28
Less : Depreciation written off	43.75	354.68
		9.11
		240.17
		1855.17
		1974.65
GENERAL RESERVE :		
Balance of Profit transferred from Profit & Loss Account		217.54
		2225.28
		1760.89
Total	4297.99	3953.08

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003

Schedule - D
SECURED LOAN

				Current year (Rs. in Lakh)	Previous year (Rs. in Lakh)
Due to Coal India Ltd., the Holding Company	160.57			160.57	160.57
Interest accrued & due	20.87			20.87	20.87
Total	181.44			181.44	181.44

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003

Schedule - F
FIXED ASSETS

(Rs. in Lakh)

PARTICULARS	GROSS BLOCK			DEPRECIATION				NET BLOCK		
	Cost As at 1.4.2002	Addition During the year	Adjustment for Disposal/ Discarded of Fixed Assets	Total Cost As at 31.3.2002	Depreciation As at 1.4.2002	Depreciation for the Year	Adjustment for disposal/ Discarded etc.	Total Depreciation upto 31.3.2003	Net Block As at 31.3.2003	Net Block As at 31.3.2002
A. FIXED ASSETS :										
(Excluding S & T, CCDA, EMSC, UNDP & CIL R&D Assets)										
Land :										
Freehold	107.30	0.00	0.00	107.30	0.00	0.00	0.00	0.00	107.30	107.30
Leasehold	117.62	0.36	0.00	117.98	42.63	3.13	0.00	45.76	72.22	74.99
Building :										
Freehold	4028.69	5.90	-21.08	4013.51	821.03	74.45	-2.61	892.87	3120.64	3207.66
Leasehold	-	-	-	-	-	-	-	-	-	-
Plant & Machinery	2987.90	34.48	-23.23	2999.15	2319.37	112.56	-22.50	2409.43	589.72	668.53
Furniture, Fittings & Office Equipment	1077.36	11.86	-7.30	1081.92	836.22	40.68	-6.50	870.40	211.52	241.14
Vehicle	679.88	15.76	-2.03	693.61	471.12	33.61	-1.93	502.80	190.81	208.76
Total (A)	8998.75	68.36	-53.64	9013.47	4490.37	264.43	-33.54	4721.26	4292.21	4508.38
B. S&T, CCDA, EMSC, UNDP & CIL R&D Assets										
Building	4.18	0.00	0.00	4.18	1.14	0.10	0.00	1.24	2.94	3.04
Plant & Machinery	2792.02	28.26	-0.19	2820.09	1183.44	169.63	-0.18	1352.89	1467.20	1608.58
Furniture, Fittings & Office Equipment	8.85	0.00	0.00	8.85	5.96	0.25	0.00	6.21	2.64	2.89
Vehicle	3.93	0.00	0.00	3.93	3.56	0.16	0.00	3.72	0.21	0.37
Total (B)	2808.98	28.26	-0.19	2837.05	1194.10	170.14	-0.18	1364.06	1472.99	1614.88
Total (A+B)	11807.73	96.62	-53.83	11850.52	5684.47	434.57	-33.72	6085.32	5765.20	6123.26
C. ASSETS SURVEYED OFF									22.20	20.57
PREVIOUS YEAR :										
(i) Fixed Assets										
(Excluding S&T, CCDA, EMSC & UNDP)										
	8946.80	118.69	-66.74	8998.75	4235.59	266.83	-12.05	4490.37	4508.38	4711.21
(ii) S&T, CCDA, EMSC & UNDP Assets										
	2421.45	333.47	54.06	2808.98	1050.31	143.79	0.00	1194.10	1614.88	1371.14
Total	11368.25	452.16	-12.68	11807.73	5285.90	410.62	-12.05	5684.47	6123.26	6082.35
(iii) Assets Surveyed off									20.57	19.93

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003

Schedule - F (Annexure -F1)

FIXED ASSETS

NOTE 1 :

(Rs. in Lakh)

ALLOCATION OF DEPRECIATION

	CURRENT YEAR	PREVIOUS YEAR	Depreciation on Assets Purchased against Grants :	CURRENT YEAR	PREVIOUS YEAR
1. Profit & Loss Account			Energy Cost S&T	106.45	113.85
(a) 100% Depn. on Assets costing below Rs. 5000/-	4.17	3.07	URDP	1.05	1.94
(b) Other	205.78	214.03	CCDA	17.36	17.36
2. Social Overhead	54.06	54.51	EMSC	1.53	1.53
3. Prior Period Adjustment	0.42	-4.78	COL R&D	43.75	9.11
4. Capital Assets against Grant*	170.14	143.79	Total	170.14	143.79
Total	434.57	410.62			

NOTE 2 :

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

	Cost As at 31st March 2002	Cost As at 31st March 2002
(i) Building	2584.47	2603.05
(ii) Vehicles	44.58	44.58
TOTAL	2629.05	2647.63

NOTE 3 :

RECONCILIATION OF DISPOSAL OF FIXED ASSETS :

	CURRENT YEAR	PREVIOUS YEAR
1. Provision for Depreciation	0.00	0.00
2. Bank	0.00	0.00
3. Loss (+)/Profit (-) of Fixed Assets	0.00	0.00
Disposal of Fixed Assets (Gross Cost)	0.00	0.00

NOTE 4 :

RECONCILIATION OF DISCARDED FIXED ASSETS :

	As At 31st March 2003	As at 31st March 2002
Gross Cost	444.44	411.88
Provn. for Depn.	422.24	391.31
Machinery held for disposal	22.20	20.57

NOTE 5 :

RECONCILIATION OF DEPRECIATION FUND :

	CURRENT YEAR	PREVIOUS YEAR
Opening Balance :	5684.47	5285.90
Add : Depreciation provided during the Year	434.57	410.62
	6119.04	5696.52
Less : Net Outflow of Fund : for Surveyed/Written off and disposed off Assets	30.93	12.05
Less : Outflow Fund		
Inter Company	2.61	-
Others	0.18	-
Closing Balance	6085.32	5684.47

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003

Schedule - G
CAPITAL WORK IN PROGRESS

(Rs. in Lakh)

PARTICULARS	COST			PROVISION				NET ASSETS		
	Cost As at 1.4.2002	Addition During the year	Adjustment for Capitalisation Disposal/ Discard	Cost As on 31.03.2003	As on 1.4.2002	During the Year	With-drawal/ Adjust-ment During the year	Total As on 31.3.2003	Net Assets As on 31.3.2003	Net Assets As on 31.3.2002
A. Capital Work-in-Progress :										
(Excluding S & T, R&D Assets)										
Buildings	66.07	0.22	-0.77	65.52	0.00	0.00	0.00	0.00	65.52	66.07
Plant & Machinery and Capital Stores in stores	1.60	2.00	-0.90	2.70	0.44	0.00	0.00	0.44	2.26	1.16
Total (A)	67.67	2.22	-1.67	68.22	0.44	0.00	0.00	0.44	67.78	67.23
B. Capital Work-in-Progress (For S&T)										
Plant & Machinery and Capital Stores in Stores (For R&D)	345.12	191.86	-299.63	237.35	0.00	0.00	0.00	0.00	237.35	345.12
Coal Tailing Treatment Plant	14.59	130.00	-	144.59	-	-	-	-	144.59	14.59
Total (B)	359.71	321.86	-299.63	381.94	0.00	0.00	0.00	0.00	381.94	359.71
Total (A+B)	427.38	324.08	-301.30	450.16	0.44	0.00	0.00	0.44	449.72	426.94
Previous Year :										
(A) Capital Work-in-Progress (Excluding S&T/R&D Assets)	135.91	0.90	-69.14	67.67	0.44	0.00	0.00	0.44	67.23	135.47
Total (A)	135.91	0.90	-69.14	67.67	0.44	0.00	0.00	0.44	67.23	135.47
(B) Capital Work-in-Progress (For S&T/R&D Assets)	221.18	341.84	-203.31	359.71	0.00	0.00	0.00	0.00	359.71	221.18
Total (B)	357.09	342.74	-272.45	427.38	0.44	0.00	0.00	0.44	426.94	356.65
Note : Social Overhead assets included in the Schedule are as follow :										
	As At 31st March 2003				As at 31st March 2003					
(i) Buildings					65.31				65.31	
(ii) Roads & Culverts					-				-	
(iii) Others (Water Supply)					-				-	
Total					65.31				65.31	

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003

Schedule - H

INVESTMENT (AT COST)

DESCRIPTION	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Trade Investment at Cost (Unquoted)	NIL	NIL

Schedule - I

INVENTORIES

(As valued and certified by the management)	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Stock of Stores & Spare Parts at weighted average cost	271.82	306.63
Less : Provision for slow moving/non-moving obsolescence	21.19	58.08
	250.63	248.55
Other stores at purchase price	51.40	73.98
	232.03	322.53
Add : In Transit/Under Inspection	9.64	0.00
Total	241.67	322.53

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003

Schedule - J
SUNDRY DEBTORS

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Debts outstanding for a period :		
Exceeding Six months	4909.37	3818.60
Others	3180.85	4841.09
Total	8090.22	8659.69
Less : Provisions for doubtful debts	38.80	36.76
Balance	8051.42	8622.93
Classification :		
Unsecured & Considered good	8051.42	8622.93
Unsecured & Considered doubtful	38.80	36.76
	8090.22	8659.69
Due from the Companies under the same management		
Eastern Coalfields Limited	1770.16	2219.14
Bharat Coking Coal Limited	794.86	970.90
Central Coalfields Limited	2719.83	1859.26
Western Coalfields Limited	454.96	410.36
South Eastern Coalfields Limited	239.40	297.58
Northern Coalfields Ltd.	804.13	589.43
Mahanadi Coalfields Ltd.	694.03	830.16
North East Coalfields	47.97	1.17
Indian Institute of Coal Management	1.39	1.39
Kakri CHP (NCL)	14.08	14.08
Dankuni Coal Complex (CIL)	1.87	6.67
Bharatpur CHP (MCL)	0.73	0.73
Total	7543.41	7200.87

Schedule - K
CASH & BANK BALANCE

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Cash, Cheques, Drafts & Stamps in-hand	248.97	217.04
Remittance in transit	595.18	885.53
Balance with Scheduled Bank :		
In Current Account	1122.62	2332.81
In Deposit Account	68.72	290.15
Total	2035.49	3725.53

*Rs. 81.67 lakh encumbered for issue of Bank Guarantee
(Previous year Rs. 29.13 lakh.)

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003

Schedule - I
LOANS & ADVANCES

PREVIOUS YEAR (Rs. in Lakh)	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Advance recoverable in Cash or for value to be received:		
Advances to Suppliers	0.00	0.00
for Capital Works	5.86	0.92
for Other Stores	-	-
Advance to Contractors	-	-
for Capital Works	22.64	19.96
for Other Stores	27.36	28.45
Advances to Employees:	-	-
for House Building	379.61	333.42
for Motor Car & Other Conveyances	25.34	38.37
for Others	82.32	54.57
Deposits for P&T, Electricity, Gas etc	42.56	44.37
Advance payment of statutory Dues.	-	-
Income Tax	536.89	536.25
Sales Tax	1.22	1.82
Wealth Tax	0.93	0.93
Subsidiaries Suspense Accounts	225.79	16.30
Advance to Bharat Coking Coal Ltd. on	-	-
Capital Account	19.34	19.54
Pre paid Expenditure	13.25	11.82
Income Tax deducted at source	59.16	59.59
Advances to Other Government Agencies	25.03	19.04
Total	1536.32	1185.35
Less : Provisions	5.09	6.65
Balance	1531.23	1178.70

Notes:

- (i) Secured & Considered good 344.95 371.70
 Unsecured & Considered good 1186.28 806.91
 Unsecured & Considered doubtful 5.09 6.65
- (ii) Amount due from an Officer of the Company Rs. NIL
 (Prev. year Rs. 0.05 lakh) Maximum balance due at
 any time during the year Rs. 0.39 lakh (Prev. year Rs. 0.43 lakh)
- (iii) Amount due from directors of the Company Rs. NIL
 (Prev. year Rs. 0.75 lakh) Maximum amount due at
 any time during the year Rs. 0.73 lakh (Prev. year Rs. 2.63 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, 2003

Schedule - M

OTHER CURRENT ASSETS

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Claims Receivables :		
(i) Railway	-	-
(ii) Insurance	-	-
(iii) Others	21.20	8.64
Other Receivables		
(i) Employees	442.39	437.76
(ii) Others	6.16	83.14
Total	469.75	529.54

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003**Schedule - N****CURRENT LIABILITIES & PROVISIONS**

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Creditors for goods (small Scale Industries) :		
Capital	-	-
Revenue	53.08	23.79
Creditors for goods (others) :		
Capital	43.23	35.60
Revenue	1.95	1.95
Sundry Creditors for contractual expenses :		
Capital	92.05	90.68
Revenue	574.91	1013.45
Sundry Creditors for other expenses :		
Power & Fuels	93.62	79.99
Others	553.32	517.74
Employee Remuneration & Benefits :		
Salaries, Wages & Allowances (gross)	1040.00	2896.67
Gratuity	1875.65	1389.79
Attendance Bonus	34.21	34.91
Exgratia	111.42	110.40
Unpaid Salaries/Wages	8.15	46.43
Leave encashment	824.95	539.52
Statutory Dues :		
Income Tax deducted at source :		
from Employees	23.48	230.33
from Contractors	0.36	0.59
Service Tax	515.39	588.34
Advances & Deposits :		
from Customers	351.55	316.42
from Ministry of Coal (Annex. N -4)	308.03	858.00
from Contractors & others*	139.92	88.76
Government Grants pending disbursement :		
Energy Coal (S&T) Grants (Annex. N-1)	621.87	367.88
Other grants (Annex N -2)	429.10	1992.62
CIL R&D Fund (Annex N-3)	38.76	20.05
Current Account Balances with Holding co. & its Subsidiaries		
Coal India Ltd., Holding Co.	4480.57	3204.69
Other Liabilities :		
Retirement Pension Fund dues	144.52	169.41
Provident Fund dues	29.14	193.49
Cooperatives/Benevolent Fund/Recreation Club	6.46	10.87
Provisions :		
Provision for Taxation - Income Tax	689.78	442.73
Provision for Taxation-Wealth Tax	1.15	1.02
Provision for loss of Asset	0.25	0.00
Total	13086.87	15266.12

***Clarification :**

Deposit includes Rs. 6.72 lakh (Previous year Rs. 6.69 lakh) towards Earnest Money & Security Deposit of Energy Coal S&T Grant.

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003

Schedule - N (Annexure N-1)
ENERGY COAL S&T GRANTS

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Opening Balance	367.88	930.50
Amount received from Ministry of Energy-Coal (S&T) Grant	700.00	17.00
Refund from implementing Agencies	8.18	122.99
Interest	3.58	20.36
Amount received from CIL R&D	30.00	100.00
Amount received from CCL	89.63	80.00
Refund to CIL R&D	-169.63	-
Refund in hand	-130.00	-
Cheques in hand	146.00	-
Other Receipts	0.00	2.81
	1045.64	1273.66
Disbursement to various Implementing Agencies :		
Central Mining Research Institute	85.43	57.48
Central Fuel Research Institute	154.20	261.00
Indian School of Mines	2.25	13.50
Annamalai University Madras	0.00	7.00
Andhra University	23.00	0.00
Banaras Hindu University	5.00	0.00
Coal Bed Methane	20.00	0.00
National Institute of Rock Management	64.00	22.00
Tamil Nadu Agriculture University	10.00	10.00
T. M., Bhagalpur University	2.00	3.00
Nayveli Lignite Corporation	21.00	0.00
Vinoba Bhave University	4.50	0.00
Regional Research Laboratory, Bhubneshwar	2.00	0.50
Regional Research Laboratory, Bhopal	1.00	11.00
Steel Authority of India	0.00	8.00
IIT, Delhi	12.00	0.00
IIT, Madras	21.00	0.00
KREC Karnataka	0.50	5.00
IICT Hyderabad	3.00	45.00
Eastern Coalfield Limited	2.50	0.00
CMPDI Limited	289.52	462.30
Total Disbursement	723.40	905.78
Transfer to CIL R&D WIP and CCL	299.63	0.00
	423.77	905.78
Closing Balance*	621.87	367.88

*Closing Balance Includes Rs. 146.00 lakh (Previous year NIL) cheques in hand.

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003

Schedule - N (Annexure N-2)

OTHER GRANTS

(Rs. in Lakh)

Name of Government Grants		Opening Balance as on 01.04.2002	Addition During the year	Total C (A+B)	Disbursed during the year D	Balance as on 31.03.2003 C-D
		A	B	C (A+B)	D	C-D
Mining Electronic Grants	Curr. Year	0.52	-	0.52	-	0.52
	Prev. Year	0.52	-	0.52	-	-0.52
Promotional Regional Exploration Grants	Curr. Year	1760.06	1818.03	3578.09	3481.86	96.23
	Prev. Year	700.67	3163.00	3863.67	2103.61	1760.06
Environmental Measures Subsidence Control and Rehabilitation Control of Fire & Subsidence (RCFS) Grants (Annex. N.2.2)	Curr. Year	153.47	1318.45	1471.92	1218.14	253.78
	Prev. Year	739.49	1054.95	1794.44	1640.97	153.47
Testing laboratory Grants	Curr. Year	28.00	-	28.00	-	28.00
	Prev. Year	28.00	-	28.00	-	28.00
United Nations Development Programme Grants	Curr. Year	26.82	-	26.82	-	26.82
	Prev. Year	26.82	-	26.82	-	26.82
Coal Conservation Development Advisory Grants	Curr. Year	23.75	0.00	23.75	0.00	23.75
	Prev. Year	23.75	0.00	23.75	0.00	23.75
Total	Curr. Year	1992.62	3136.48	5129.10	4700.00	429.10
	Prev. Year	1519.25	4217.95	5737.20	3744.58	1992.62

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003**Schedule - N (Annexure N-2.1)****PROMOTIONAL REGIONAL EXPLORATION GRANTS**

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Opening Balance	1760.06	700.67
Ministry of Coal	1750.00	3163.00
Interest	7.16	0.00
Cheques in hand	60.87	0.00
	3578.09	3863.67
Disbursement to various implementing Agencies :		
Mineral Exploration Corporation Limited	2734.04	1708.46
Geological Survey of India	346.17	169.11
Central Mine Planning & Design Institute Limited	341.56	226.04
Neyveli Lignite Corporation Limited	49.43	0.00
Central Fuel Research Institute, Dhanbad	10.66	0.00
Total disbursement	3481.86	2103.61
Closing Balance *	96.23	1760.06

Schedule - N (Annexure N-2.2)**ENVIRONMENTAL MEASURES SUBSIDENCE CONTROL &
REHABILITATION CONTROL OF FIRE & SUBSIDENCE (RCFS) GRANTS**

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Opening Balance	153.47	739.49
Receipts from Ministry	1311.60	1054.95
Cheques in hand	6.85	0.00
	1471.92	1794.44
Disbursement to various Implementing Agencies :		
Bharat Coking Coal Limited	964.37	1485.04
Central Coalfields Limited	55.00	11.93
Eastern Coalfields Limited	173.75	110.00
Central Mine Planning & Design Institute Limited	25.02	34.00
Total disbursement	1218.14	1640.97
Closing Balance *	253.78	153.47

*Closing Balance includes Cheques in hand.

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003

Schedule - N (Annexure N-3)

CIL R&D FUND

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Opening Balance	20.05	59.71
Amount received from Coal India	173.00	310.00
Refund from S&T	130.00	0.00
Other receipts	0.07	67.15
Total Receipt	323.12	436.86
Disbursement to various Implementing Agencies :		
National Environment Egg. Research Institute, Nagpur	0.00	1.50
Central Mining Research Institute, Dhanbad	0.00	15.00
Central Coalfields Ltd.	64.00	114.59
CMPDI Ltd.	220.36	211.72
Western Coalfields Ltd.	0.00	74.00
	284.36	416.81
Closing Balance	38.76	20.05

Schedule - N (Annexure N-4)

GRANTS FOR DETAILED DRILLING WORK IN NON-CIL BLOCKS

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Opening Balance	858.00	0.00
Amount received from Ministry of Coal	1253.00	4585.00
Interest	0.00	4.68
Total Receipt	2111.00	4589.68
Disbursement to various Implementing Agencies :		
CMPDI Limited	1349.32	1461.64
Mineral Exploration Corporation Limited	453.65	2270.04
	1802.97	3731.68
Closing Balance	308.03	858.00

SCHEDULE TO BALANCE SHEET AS AT 31ST MARCH, 2003

Schedule - O

MISCELLANEOUS EXPENDITURE

(To the extent Not written-off)

	CURRENT YEAR (Rs. in Lakh)		PREVIOUS YEAR (Rs. in Lakh)	
Deferred Revenue Expenditure				
1. Tubulars				
As per last Account	241.22		247.95	
Addition during the year	206.30		229.28	
	<u>447.52</u>		<u>477.23</u>	
Less : Written off during the year	<u>233.56</u>	213.96	<u>236.01</u>	241.22
2. Voluntary Retirement Scheme				
As per last Account	113.42		100.70	
Addition During the Year	9.88		74.46	
	<u>123.30</u>		<u>175.16</u>	
Less : Written off during the year	<u>68.63</u>	54.67	<u>61.74</u>	113.42
		<u>268.63</u>		<u>354.64</u>
BALANCE				

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2003

Schedule - 1

SALE OF SERVICE

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Exploration	6466.21	7408.91
Planning & Design	5191.60	5079.71
Natural Resource Management	681.22	646.42
Total Sales	12339.03	13135.04

Schedule - 2

COAL ISSUED FOR OTHER PURPOSE

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
APPLICABLE TO CIL's OTHER SUBSIDIARIES		

Schedule - 3

ACCRETION/DECRETION IN STOCK

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
APPLICABLE TO CIL's OTHER SUBSIDIARIES		

Schedule - 4

WORKSHOP JOB FOR OWN PURPOSE

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
APPLICABLE TO CIL's OTHER SUBSIDIARIES		

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2003

Schedule - 5

OTHER INCOME

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Interest received :		
On Loan to Employees	30.45	38.05
On Bank Deposit	3.85	4.08
Rent received from outsiders	8.34	3.17
Tender fees	1.68	1.20
Liquidated Damage	4.21	4.57
Exchange Fluctuation	0.10	-0.16
Rent Vehicles	0.68	0.85
Others	13.72	14.90
Provision for Bad Debt written Back	0.00	7.76
Total	63.03	74.42

Schedule - 6

CONSUMPTION OF STORES

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
POL	199.56	176.77
Stores & Spares	141.79	183.38
Other Stores & Consumable	32.26	27.10
Deferred Rev. Exp. written-off	233.56	236.01
Total	607.17	623.26

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2003

Schedule - 7

EMPLOYEES REMUNERATION AND BENEFITS

PREVIOUS YEAR (Rs. in Lakh)	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Salaries & Wages :	6122.76	6124.96
Overtime	77.26	64.83
Incentives	194.87	201.18
Leave encashments	480.53	279.74
Other allowances	215.90	193.44
Contribution to PF (Annex.1)	662.69	808.84
Attendance Bonus	169.74	171.10
Exgratia :		
a) PPLB-Non Executives	72.56	52.42
b) PPLB-Executives	38.88	54.54
LTC/LLTC/RRF	266.00	65.40
Pension :		
a) Ex NCDC Employees	8.63	8.07
b) Others	647.40	852.92
Gratuity	16.93	15.87
D.L.I.	5.10	4.80
Life Cover Scheme	68.63	61.74
V R S		
Total	9046.00	8959.85
Less : Transferred to Social Overhead (Sch. - 8)	174.51	163.86
BALANCE	8871.49	8795.99

Schedule - 7 (Annexure - 1)

CONTRIBUTION TO PROVIDENT FUNDS

CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Coal Mines Provident Fund	662.40
Coal Mines Family Pension Fund	46.88
CMAL Provident Fund	28.07
Other Provident Funds	71.49
Total	808.84

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2003

Schedule - 8 SOCIAL OVERHEAD

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Salary Wages Allowance (From Schedule -7)	174.51	163.86
Free issue of Coal to Employees	18.56	14.53
Medical Facilities :		
Medical Reimbursement	150.14	129.92
Medicines & Hospital Expenses	72.83	77.39
Grant to :		
(a) Schools	0.08	0.00
(b) Sports & Recreation	8.87	9.24
Canteen upkeep	7.88	8.06
House Rent	4.73	3.61
Power (from Schedule -9)	168.53	173.99
Repairs & Maintenance (Transferred from Sch. - 10)		
(a) Township	60.88	31.06
(b) Other Welfare Buildings	90.36	73.90
(c) Plant & Machinery	3.68	4.28
(d) Others (Maintenance of School Bus/Ambulance)	24.36	19.66
Training Expenses :		
(a) Within Co.	8.04	4.01
(b) Outside Co.	0.00	0.00
Depreciation on Social Overhead (Ref. : Sch.-F/F1)	54.06	54.51
Family Planning Expenses	0.03	0.05
Uniforms/ Stitching Charges	15.36	13.23
Other Benefits	56.24	39.83
Sub Total	919.14	821.13
Less : Recoveries		
House Rent	13.48	11.47
Electricity	19.81	16.99
School Bus Charges	1.38	1.47
	34.67	29.93
BALANCE :	884.47	791.20

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2003

Schedule - 9 POWER AND FUELS

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Purchased	313.17	322.69
Sub Total	313.17	322.69
Less : Transferred to :		
Social Overhead Sch.-8	168.53	173.99
Total	144.64	148.70

Schedule - 10 REPAIRS

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Office Building	60.31	38.36
Repair & maintenance Township/Residential Building	151.24	104.96
Plant & Machinery	96.94	84.01
Office equipment & Furniture	31.60	30.70
Vehicles	68.84	66.49
Repair & maintenance School bus/Ambulance	24.36	19.66
Others	1.53	1.81
Sub Total	434.62	345.99
Less : Transferred to Social Overhead Sch.-8	179.28	128.90
Less : Transferred to Misc. Expenses Suh -12	53.83	50.34
Total	201.51	166.75

Schedule - 11 CONTRACTUAL EXPENSES

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Contractual Works		
Drilling - MECL	33.03	955.76
Drilling - Others	143.50	96.18
Coal testing	95.00	88.93
Remote Sensing etc.	35.44	8.52
Total	306.97	1149.39

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2003

Schedule - 12

MISCELLANEOUS EXPENSES

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Traveling :		
In country	272.56	262.22
Outside Country	6.56	0.53
Printing & Stationery	79.56	70.68
Postage	4.53	3.06
Telephone	42.27	49.36
Advertisement & Publicity :		
(I) Advertisement for :		
(a) Tender	6.76	9.96
(b) Others	0.00	0.00
(II) Publicity	0.75	2.77
Freight Charges	0.14	0.08
Subscriptions	5.87	5.00
Security Expenses	136.78	143.07
Hire Charges :		
(a) Computer	75.54	109.40
(b) Others	44.45	36.32
Maintenance of Cars & Jeeps :		
(i) Petrol & Diesels	45.03	51.76
(ii) Repairs (From Schedule 10)	53.83	50.34
(iii) Road Tax	19.31	20.00
(iv) Insurance	5.32	5.05
Legal Expenses	9.23	9.50
Bank Charges	11.16	11.93
Consultancy Charges (CIL subsidiaries & Other jobs)	98.24	64.89
Auditor's Remuneration :		
As Auditor	0.89	0.79
Traveling & Out of Pocket Expenses	2.12	1.80
In other capacity-Tax Audit	0.27	0.26
Internal Audit Expenses	6.58	3.94
Rates & Taxes	38.42	23.90
Rent	25.12	29.79
Insurance	1.23	0.61
Lands/crops compensation	0.24	0.40
Others :		
Software Licensing fees	27.73	27.50
Conference & Seminar etc.	7.60	6.25
Tents & Hutments	27.37	18.77
Shifting & Setting Exp.	22.08	17.81
Entertainment	0.65	0.15
R&D Expenses	0.11	0.43
Horticulture	1.98	3.63
Filing Fees	0.03	0.02
Misc. Expenses	15.92	18.44
Bad Debt Written off	0.00	0.02
Wealth Tax	0.13	0.00
Total	1096.36	1060.43

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2003

Schedule - 13

INTEREST

PREVIOUS YEAR (Rs. in Lakh)	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Coal India Limited Holding Co.	18.36	20.87
Interest on Retirement Pension Fund	11.19	7.20
Total	29.55	28.07

Schedule - 14

PROVISIONS/WRITE-OFF

PROVISION :	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
Doubtful debts	2.03	7.73
Doubtful Advances	0.08	0.26
Obsolescence	33.12	0.00
Reduction in value of assets	0.25	-
Total	35.48	7.99

SCHEDULE TO PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2003

Schedule - 15

PRIOR PERIOD ADJUSTMENTS

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
DEBIT :		
<u>Employees Remuneration & Benefits :</u>		
(a) Salary, Wages & Allowances	-38.19	-16.80
(b) Contribution to P. F.	1.42	0.22
(c) Ex-gratia	-36.77	-16.58
Director's Salary & Allowances	-	0.27
Repairs	1.92	-1.78
Depreciation Expenses	0.42	-4.78
Miscellaneous Expenses	-12.87	12.22
Consumption of stores & Spares	-0.08	0.12
Contractual Payments	-13.08	1.25
Power & Fuel	-3.40	0.05
<u>Interest :</u>		
(a) Pension	-	-
(b) Others	-81.32	-1.36
TOTAL DEBIT	-145.18	-10.59
CREDIT :		
<u>Employees Remuneration & Benefits :</u>		
(a) C. M. Bonus	-	-
(b) Life Cover Scheme	0.30	-0.20
Interest on Loan to Employees	-2.34	3.66
Other Receipts	-7.68	1.58
Sale of Services	-29.54	44.14
TOTAL CREDIT	-39.26	49.18
NET CREDIT (-)/DEBIT (+)	-184.44	-59.77

Schedule - 16

EXTRAORDINARY ITEMS

	CURRENT YEAR (Rs. in Lakh)	PREVIOUS YEAR (Rs. in Lakh)
	Nil	Nil

SCHEDULE - 17

ACCOUNTING POLICY FOR 2002-2003

1.0 ACCOUNTING CONVENTION

The financial statement are prepared on accrual basis based on historical cost following going concern concept, Accounting Standards and generally accepted accounting principles and practices, except as otherwise stated, if any, in the Accounting Policy and Notes on Accounts.

2.0 BASIS OF ACCOUNTING

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

3.0 FIXED ASSETS

3.1 Land

Land includes cost of acquisition including incidental expenses incurred thereon.

3.2 Buildings

3.2.1 Buildings include cost of lifts, electrical fittings, water supply arrangements sanitary fittings, etc. which were part of the construction contract and could not be segregated.

3.2.2 Expenditure like partitions and modifications etc. in old buildings and area development in township is being charged to revenue as Repairs & Maintenance Expenses.

3.3 Plant & Machinery

3.3.1 Plant & Machinery include cost and expenses incurred for erection/installation and other attributable costs of bringing those assets to working condition for their intended use. However expenses are not capitalized whenever such works are done departmentally.

3.3.2 All software acquired on annual license fees basis and software costing upto Rs. 10 lakh each acquired on perpetual license basis are not capitalized but charged as revenue expenditure.

3.3.3 Insurance spares supplied along with a specific machine, and are of infrequent use, are capitalized along with the machine. Such Insurance spares are depreciated at the rate applicable to the particular machine.

4.0 INVESTMENTS

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

4.2 Fixed Deposits with Banks are shown under balance with banks.

5.0 INVENTORIES**5.1 Stores & Spares**

- 5.1.1 Stock of stores and spares of Central Drilling Stores (C.D.S.), Barkakana are valued at weighted average cost. Stores issued to Drilling Camps/Sites are charged off. The year end inventory of stores & spares lying at Drilling Camps/Sites, initially charged off, are valued at issue price of Drilling Camps/Sites.
- 5.1.2 Stores & spare parts include loose tools also, but do not include machine-specific spares of infrequent use.
- 5.1.3 Tubulars in stores are valued at weighted average cost and value of issues to the drilling sites is treated as Deferred Revenue Expenditure.

5.2 Other Items

- 5.2.1 Stock of stationery are not considered in inventory. Other miscellaneous consumable stores are valued at purchase price.
- 5.2.2 Stock of medicines are not considered for inventory purposes and the expenses thereof are charged off to revenue accounts.
- 5.2.3 Discarded/Surveyed off Fixed Assets are stated at written down value till final disposal/sales and are shown in Sch F.

5.3 Obsolete Stores/Slow Moving Stores

Provisions are made at the rate of 100% for unserviceable damaged and obsolete stores and 50% for stores & spares not moved for 5 years excepting insurance items.

6.0 DEPRECIATION

- 6.1.1 Depreciation on Fixed Asset is provided on Straight Line Method (SLM) at the rates specified in Schedule - XIV to the Companies Act, 1956 (as amended) except in some special cases.
- 6.1.2 Depreciation on the assets added/disposed of during the year is provided on pro-rata basis with reference to the month of addition/disposal.
- 6.1.3 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.

6.2 Special Rates

- 6.2.1 High value computer utility software costing more than Rs. 10 lakh individually which are acquired on perpetual license basis, in the absence of any specific rate of depreciation in Schedule - XIV to the Companies Act 1956 is depreciated over its useful life as per the technical experts' opinion and the licensing agreement.
- 6.2.2 The Earth Science Museum : 5.15 Percent.

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

- 6.2.4 High Volume Samplers and Respiratory Dust Samplers : 33.33 Percent

- 6.2.5 Value of Leasehold Land is amortised within the lease period.

6.3 Others

- 6.3.1 Lifts etc. forming part of Building as stated in 3.2.1. above : at rates prescribed for buildings.

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

7.0 BALANCE WITH COAL INDIA LTD. (HOLDING COMPANY)

Amount due to Coal India Limited (CIL) on account of loan after adjustment to equity from time to time is shown as unsecured loan. Amount due to for revenue nature transactions in Current Account is shown under Current Liabilities/Current Assets.

8.0 INTEREST TO HOLDING COMPANY

Interest of CIL i.e. Coal India Limited (Holding Company) is accounted for as per advice from them.

9.0 DEFERRED REVENUE EXPENDITURE

- 9.1 The value of tubulars issued to the drilling site as noted in 5.1.3 above is charged off over a period of three years.

- 9.2 Ex-gratia under Voluntary Retirement Scheme is charged off over a period of four years.

10.0 PRIOR PERIOD ADJUSTMENT

The charges or credits, in excess of Rs. 10,000/- in each case, arising in current year as a result of errors and omissions in preparation of the financial statement (s) of earlier year (s) are accounted for under this head.

11. RESEARCH & DEVELOPMENT EXPENSES

Research and Development expenses of revenue nature are charged to Profit and Loss Account in the year in which they are incurred and expenses of capital nature are capitalised.

12.0 GRANTS

- 12.1 Grants received for fixed assets are treated as Capital Reserve and depreciation thereon is debited to Capital Reserve Account. The ownership of the assets created through grants lies with the authority from whom the grant is received.

12.2 Grants received as Nodal/Implementing Agency directly or through CIL are accounted for on the basis of receipts and disbursements.

13.0 EMPLOYEES' BENEFITS ON SEPARATION

13.1 Gratuity

13.1.1 Liability for Gratuity is accounted for on actuarial valuation. The incremental gratuity liability for the year as per actuarial certificate is charged to Profit & Loss Account in addition to actual liability incurred in the year.

13.1.2 Debits/Credits to and from CIL (Holding Company) and its Subsidiaries on account of gratuity on transfer of employees are not raised.

13.2 Leave encashment/Half Pay Leave

Liability for Leave Encashment/Half Pay Leave is accounted for on the basis of actuarial valuation.

13.3 Life cover scheme and pension

Payments under Life Cover Scheme of Rs. 30,000/- on death of any non-executive employee and pension payments to a few ex-Railway employees whose services were taken over through NCDC are accounted for on accrual basis.

13.4. Provident fund and retirement pension fund.

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

14.0 WRITE BACK

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

14.2 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.

15.0 REVENUE RECOGNITION

15.1 Billing to CIL/CIL Subsidiaries for Exploration & P&D Services

15.1.1 Billing for services rendered to Coal India Subsidiaries, except in cases covered in 15.1.2 below, is done on "Cost Plus" basis. Unit of cost for the purpose is taken as :

(i) For Exploration Services - Drilling Meterage

(ii) For Planning & Design or Specialised Services - Engineering Day

15.1.2 Billing on CIL Subsidiaries is done during the year at pre-determined/budgeted rates. Bills of differential amounts are raised on the basis of actual cost for that particular year on finalisation of accounts.

- 15.1.3 Effects for errors and omission upto 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.

15.2 Outside Parties

In the case of consultancy contracts with parties outside CIL, revenue is recognised at proportionate contract value based on the percentage of work completed or amount realisable, which is lower.

15.3 Miscellaneous Jobs

Hydrogeological Services, Physico-Mechanical Analysis, Data Processing, Coal Core Analysis, Geophysical Investigations, E.M.P. Work, Contractual Work etc., are billed on cost/cost plus basis or on mutually agreed rates, as the case may be.

- 15.4 Sales shown in accounts are exclusive of Service Tax.

16.0 TRANSACTIONS IN FOREIGN CURRENCIES

- 16.1 Expenses during the year in foreign currencies are converted/translated at the prevailing rate and the sales are booked at the rate prevailing at the time of billing. Outstandings at the end of the year are converted at the year end rate.

- 16.2 Current Assets & Liabilities in Foreign Currencies are converted/translated at year end exchange rates and the loss/gain on conversion/translation, if any, is recognised in the year.

17.0 CHANGE IN ACCOUNTING POLICIES

Redrafting of any Accounting Policy to clarify, to rationalize or to more precisely enunciate the existing practice is not considered as change in Accounting Policy.

SCHEDULE - 18

NOTES ON ACCOUNTS FOR 2002-03

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. 323.56 lakh) and CCL Township in Rajrappa (Rs. 214.44 lakh) on the land belonging to other subsidiaries of the Holding Company.

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.

2.0 STOCK OF STORES & SPARE PARTS

2.1 As 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 value of obsolete and surplus items of stores was last estimated in 1998-99 at Rs. 58.08 lakh against which full provision was made in that Financial Year 1998-99. Out of this material valuing Rs. 8.75 Lakhs has been issued/used and the provision has been reduced accordingly. Additional provision of Rs. 41.86 Lakh has been made against non-moving items in the current year at the rate of 50%.

3.0 LOANS & ADVANCES/DEBTORS

3.1 Current Accounts and Sundry Debtors Accounts with CIL Subsidiaries

1. Reconciliation of inter-company transactions in Current Accounts with other Subsidiaries of CIL has been carried out upto 31/03/2003. The agreed Current Account balances with the CIL Subsidiaries as on 31/03/2003 were transferred to

CIL Current Account in the month of April, 2003. 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 31/03/2003 is charged to Subsidiary Suspense Account.

2. Sundry Debtors include Rs. 7543.41 lakh due from CIL Subsidiaries. Since 01/04/1993 the system of acceptances of bills by CIL Subsidiaries has been introduced for adjustment of accounts with CIL. Balances upto 01/04/1993 amounting to Rs. 78 lakh in total is under reconciliation. Acceptances of bills are regularly monitored. Bills in the process of acceptance amount to Rs. 8090.22 Lacs on 31.03.2003. No provision is considered necessary for outstanding bills of companies under the same management barring a few specific cases.

3. Letters have been issued to 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. 631.69 lakh includes payments under protest against assessments for the years upto Assessment year 1998-99. Income tax provisions of Rs. 322.78 lakh represents provisions for pending assessments relating to Assessment Year 2000-01 to 2002-03.

4.0 CORRENT 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 balance as on 31.03.2003 have been reconciled.

4.2 Liabilities under Coal Mines Pension Scheme

1. Monthly contributions & deductions with respect to CMPF members are being regularly remitted to the authorities. For COLPF/CMALPF members the monthly contributions/deductions are regularly remitted w.e.f. Oct., '02 after they were included in the Pension scheme.
2. Current Liabilities include Rs. 86.15 lakh deductions which could not be remitted due to certain employees being non-CMPF members.
3. There is also a liability for Rs. 58.37 lakh payable to the Scheme being the additional increments granted by the Company w.e.f. 01/07/1995.
4. The above amounts of liabilities are inclusive of interest at the rate applicable to CMPF.
5. As against these liabilities Rs. 58.66 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. 304.00 lakhs has been made in respect of arrear salary payable to Non-Executives on account of wages/pay revision w.e.f. 01/07.01 under NCWA VII.
- 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.
- 4.3.4 No amount of Rs. 1.0 lakh or more was overdue to SSI units for more than 30 days as on 31.03.03.

5.0 THEFT & SNATCHING CASES

Theft cases involving an amount of Rs. 1.35 lakh (Previous Year 0.72 lakh) have been reported during the year. These are under investigation of the police department. 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 except in the case of a CPU for which adequate provision has been made. On finalisation/confirmation from the police regarding recovery or otherwise of these cash/materials, adjustment if required, shall be made.

6.0 DIRECTORS' REMUNERATION

	Rs. in lakh	
	Current Year 2002-2003	Previous Year 2001-2002
(i) Salary & Allowances including LTC/Leave Encashment	26.17	12.55
(ii) Provident Fund	3.07	1.62
(iii) Medical Expenses	8.41	0.92
(iv) Value of Perquisites	0.06	0.82
(v) Gratuity Paid	-	3.63

7.0 EARNINGS, EXPENDITURE ETC. IN FOREIGN CURRENCY**7.1 Expenditure in Foreign Currency**

	Rs. in lakh	
	Current Year 2002-2003	Previous Year 2001-2002
(i) Foreign training/tour/travel & others	9.56	1.45
(ii) Consultancy fee	0.00	0.00
TOTAL	9.56	1.45

7.2 Value of Imports Calculated on CIF Basis.

	Rs. in lakh	
	Current Year	Previous Year
	2002-2003	2001-2002
(i) Capital Goods	7.20	74.33
(ii) Spares & Components	5.43	0.25
TOTAL	12.63	74.58

7.3 Earnings in Foreign Exchange.

	Rs. in lakh	
	Current Year	Previous Year
	2002-2003	2001-2002
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	
	2002-2003		2001-2002	
	Value	Percentage	Value	Percentage
Imported	0.26	0.04	3.92	0.63
Indigenous	606.91	99.96	619.34	99.37
TOTAL	607.17	100.00	623.26	100.00

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. In absence of agreement no provision for rent receivable has been made.

9.0 CONTINGENT LIABILITY**9.1 Claims against the Company not acknowledged as debt**

9.1.1	Income tax matters : In respect of completed assessment pending in appeal Rs. 274.22 lakh (Previous Year Rs. 182.66 lakh)
9.1.2	Service tax matters : In respect of completed assessment pending in appeal Rs. 40.24 lakh (Previous Year Rs. 40.24 lakh)
9.1.3	Other disputed claims pending in the courts and not provided for amount to Rs. 629.50 lakh (Previous Year Rs. 1177.81 lakh).

9.2 Other matters

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. 81.67 lakh (Previous Year Rs. 29.13 lakh) issued by the Company in favour of Bank for issuing Bank Guarantee on behalf of the Company.

10.0 CAPITAL COMMITMENT

Estimated value of contracts remaining to be executed on capital account and not provided for amounts to Rs. 99.93 lakh (Previous Year Rs. 34.17 lakh).

10.1 Impact on Profit due to Changes in basis of Accounting

Profit for the year has been affected to the following extent because of changes in the basis of accounting.

	Amount Involved	Rs. in Lakh Impact on Profit
Printing & Stationary not taken in Stock	20.10	+2.37

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 01.04.2002 has been commuted at Rs. 858.74 Lakhs and Rs. 679.07 lakhs respectively and is charged to revenue reserves. Net Deferred tax as at 31/03/2003 comprises of the following :

		Rs. in Lakhs
(A) Deferred Tax Asset		
Difference in WDV of software	17.34	
Provision for obsolescence	54.24	
Provision for doubtful debts	27.38	
Provision for Leave Encashment, Gratuity, VRS	1910.89	2009.85
Tubulars, Loans & Advances and loss of assets		
(B) Deferred Tax Liability		
Difference in WDV of Assets	1377.67	
(C) Provision for Deferred Tax Asset (Net)	632.18	

12.0 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.

13.0 PREVIOUS YEAR'S FIGURES

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

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

V. Prakasa Rao
Company Secretary

N.P. Dhar
General Manager (Finance)

J.P. Singh
Director

M.N. Jha
Chairman-cum-Managing
Director

In terms of our report of even date attached

For S. K. Basu & Co.
Chartered Accountants

(S. K. Chakravarti)

Place : Ranchi

Dated : 28th June, 2003

**SEGMENT-WISE PROFIT ANNEXED TO PROFIT & LOSS ACCOUNT
FOR THE YEAR ENDED 31ST MARCH, 2003**

Rs. In Lakh

Sl. No.	Particulars	P&D	Exploration	Environment	Common	Total
Segment-wise Income :-						
1.	Segment-wise sale of services	5191.60	6466.21	681.22	-	12339.03
2.	Segment-wise Misc. Income	50.02	12.08	0.93		63.03
3.	Segment-wise total income (1+2)	5241.62	6478.29	682.15		12402.06
Semgent-wise Expenditures :-						
4.	Salaries & Wages	3111.47	3484.86	322.19	1952.97	8871.49
5.	Other Expenses	1079.04	1518.64	147.01	706.38	3451.07
6.	Total Expenditure (incl. Dep. but excl. Interest, PP adj. and Provisions) (4+5)	4190.51	5003.50	469.20	2659.35	12322.56
7.	Share of Common Cost	1190.28	1341.01	128.06	-2659.35	
8.	Total Expenses with share of Common Cost (6+7)	5380.79	6344.51	597.26	-	12322.56
9.	Segment-wise Profit (+)/Loss (-) before Interest, PP Adj. & Tax (3 - 8)	-139.17	133.78	84.89	-	79.50
10.	Interest	18.22	10.91	0.12	-	29.25
11.	PP Adjustment Credit (-)/Debit (+)	-181.43	-1.53	-1.48		-1.84.44
12.	Segment-wise Profit (+)/Loss (-) before Tax & Provisions (9-10-11)	24.04	124.40	86.25	-	234.69
13.	Provisions					35.48
14.	Net Profit (+)/Loss (-) Before Tax (12-13)					199.21
15.	Provision For Taxation					367.00
16.	Provision For Deferred Tax					-632.18
17.	Net Profit after Tax (+)/Loss (-) (14-15-16)					464.39

CASH FLOW STATEMENT ANNEXED TO THE BALANCE SHEET
FOR THE PERIOD APRIL 2002, MARCH, 2003

Rs. In Lakh

	<u>Current Year</u>	<u>Previous Year</u>
CASH FLOW FROM OPERATING ACTIVITIES		
Net Profit before taxation and extraordinary Items	14.77	220.58
Prior Period Adjustment (Credit)	184.44	59.77
Wealth Tax Provision	0.13	0.00
Decrease in Misc. Exp. not Written off	86.01	0.00
Increase in Misc. Exp. not Written off	0.00	(5.99)
Net Profit before Taxation	285.35	274.36
Adjustments for :-		
Depreciation	434.57	410.62
Foreign Exchange Fluction Gain	(0.10)	0.00
Foreign Exchange Fluction Loss	0.00	0.00
Interest Income	(34.30)	(42.13)
Interest Expenses	29.25	28.07
Operating Profit before Working Capital Changes	714.77	671.08
Decrease in Sundry Debtors	571.51	1000.93
Increase in Loan & Advances	(224.52)	(2.29)
(Excl. Income Tax & Wealth Tax)		
Increase in Other Current Assets	(0.00)	(99.14)
Decrease in Other Current Assets	59.79	0.00
Decrease In Inventories	80.87	30.72
Decrease in Sundry Creditors	(2426.43)	(0.84)
(Current Liab & Prov. excl. Income Tax & Wealth Tax)		
Cash Generated From Operation c/f	1224.01	1600.46
Income Tax Paid	(247.96)	(83.03)
Wealth Tax Paid	0.00	0.00
Cash Flow before Extraordinary Items	(1471.97)	1517.43
Extraordinary Items	0.00	0.00
Net Cash from Operating Activities	(1471.97)	1517.43

Note : Figures in brackets indicate outflow of cash

CASH FLOW STATEMENT ANNEXED TO THE BALANCE SHEET
FOR THE PERIOD APRIL 2002 - MARCH, 2003

	Rs. In Lakh	
	Current Year	Previous Year
CASH FLOW FROM INVESTING ACTIVITIES		
Purchase of Fixed Assets (incl. WIP)	(400.56)	(522.45)
Interest Received	34.30	42.13
Net Cash from Investing Activities	(366.26)	(480.32)
CASH FLOW FROM FINANCING ACTIVITIES		
Repayment of Long-term borrowings	(2.81)	0.00
Govt. Grants	180.15	382.29
Foreign Exchange Fluctuation Gain	0.10	0.00
Foreign Exchange Fluctuation Loss	0.00	(0.16)
Interest Paid	(29.25)	(28.07)
Net Cash from Financing Activities	148.19	354.06
Net Increase/Decrease in Cash & Cash Equivalents	(1690.04)	1391.17
Cash & Cash Equivalents At The Beginning of The Period	3725.53	2334.36
Cash & Cash Equivalents At the End of The Period	2035.49	3725.53

Note : Figures in brackets indicate outflow of cash

**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)

1. REGISTRATION DETAILS :

Registration No. :

0 0 1 2 2 3

State Code :

0 3

Balance Sheet :

Date

3 1

Date

0 3

Month

2 0 0 3

Year

II. CAPITAL RAISED DURING THE YEAR

(Amount in Rs. '000)

Public Issue

0 0 0 0 0 0 N I L

Rights Issue

0 0 0 0 0 0 N I L

Bonus Issue

0 0 0 0 0 0 N I L

Private Placement

0 0 0 0 0 0 N I L

III. POSITION OF MOBILISATION AND DEPLOYMENT OF FUNDS (Amount in Rs. '000)

Total Liabilities

6 3 8 0 6 2

Total Assets

6 3 8 0 6 2

Sources of Fund :

Paid-up Capital

1 9 0 4 0 0

Reserve & Surplus

4 2 9 7 9 9

Secured Loans

0 0 0 0 N I L

Unsecured Loans

1 7 8 6 3

Application of Funds :

Net Fixed Assets

6 2 3 7 1 2

Investments

0 0 0 0 N I L

Net Current Assets

(-) 7 5 7 3 1

Misc. Expenditure

2 6 8 6 3

Accumulated losses

0 0 0 0 N I L

Deferred Tax

6 3 2 1 8

IV. PERFORMANCE OF COMPANY (Amount in Rs. '000)

Turnover							Total Expenditure								
1	2	3	3	9	0	3	1	2	1	3	9	8	2		
+/-		Profit/Loss before Tax					+/-		Profit/Loss after Tax						
+			1	9	9	2	1	-			1	6	7	7	9
(+ for Profit, - for Loss)															
Earning per share in Rs.							Dividend								
				N	I	L	N	A							

V. GENERIC NAMES OF THREE PRINCIPAL PRODUCTS/SERVICES OF COMPANY
(As per monetary terms)

Item Code No. (ITC Code) NOT AVAILABLE

Product Description MINE PLANNING &
DESIGN

Item Code No. (ITC Code) NOT AVAILABLE

Product Description GEOLOGY &
DRILLING

Item Code No. (ITC Code) NOT AVAILABLE

Product Description NATURAL RESOURCE
MANAGEMENT AND
FIELD SERVICES

Signed for Schedules A To O and 1 to 18.

V. Prakasa Rao
Company SecretaryN.P. Dhar
General Manager (Finance)J.P. Singh
DirectorM.N. Jha
Chairman-cum-Managing
Director

ANNEXURE FORMING PART OF DIRECTOR'S REPORT

FOR THE YEAR ENDED 31.03.2003 INFORMATION

AS PER SECTION 217 (2A) OF THE COMPANIES ACT, 1956

READ WITH COMPANIES (PARTICULARS OF EMPLOYEES) RULES 1988.

Sl. No.	Name	Designation/ Nature of work	Remuneration during they yr. (Rs.)	Nature of employment permanent/ temporary	Qualification	Experience (Yrs.)	Date of commen- cement	Age on 31st Mar. 2003 (Yrs.)	Last employ- ment 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/-

.....

- (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.

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