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CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED

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**UNFC (2004) CLASSIFICATION OF
COAL RESOURCES OF CIL BLOCKS**

AS ON 01.04.2013

(Excluding 119 assigned blocks)

APRIL 2014

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CONTENTS

Sl No	Content	Page No
1	Introduction and Background of UNFC Classification (2004) System	1
2	UNFC Classification of Coal Resources in CIL Blocks as on 01.04.2013 (excluding 119 assigned blocks)	9
3	Coalfield-wise Summary of UNFC Classification of Coal Resources in CIL Blocks as on 01.04.2013 (excluding 119 assigned blocks)	10
4	Limitations of UNFC Classification (2004) for Coal Resources	11
5	Subsidiary-wise Block-wise UNFC Classification (2004) as on 01.04.2013 (excluding 119 assigned blocks)	12 – 32

UNFC (2004) CLASSIFICATION OF COAL RESOURCES OF CIL BLOCKS **AS ON 01.04.2013 (Excluding 119 assigned blocks)**

1.0 Reference:

In line with the decision taken in the 80th Meeting of CMDs held on 11.11.2013, CMPDI undertook the work of coal resource & reserve estimation of CIL blocks as on 01.04.2013 based on UNFC 2004 system. Accordingly, this report has been prepared after collecting the block-wise information from the regional institutes of CMPDI.

2.0 Introduction

Although the systematic exploration for coal in India started about 65 years back, sometimes in the year 1945, coal did not play a leading role in the country's economy for quite some time, and no attempt was made to standardize the related terminology and resource classification till late 1950s. The erstwhile Ministry of Production, by a resolution No. 25-CI (12) / 56 dated the 28th August 1956, set up "Coal Council of India" (CCI) to supervise and guide the development of the coal resources of the country.

The Committee on Assessment of Resources (CAR) of the CCI drew up the "Indian Standard Procedure for Coal Reserve Estimation" (ISP) in 1957 defining a procedure for coal reserve estimation in existing and closed mines and in virgin leased and un-leased areas. The ISP system classified the coal resources on the basis of increasing confidence of geological studies (Inferred, Indicated, and Proved), thickness and depth ranges, and coal rank and quality considerations. The ISP also made stipulations for assessment for opencast and underground mining extractability and depletion.

No administrative and statutory structure for the implementation of the ISP was, however, identified. While the Govt. and Public Sector organizations involved in coal exploration at the time, namely, Geological Survey of India (GSI), Indian Bureau of Mines (IBM) and National Coal Development Corporation Ltd. (NCDC), adopted the ISP for classification of coal resources explored by them, there was hardly any information about the resources being exploited by the numerous private entrepreneurs of the time and no central organization was there for collating and inventorying the same. As a result, comprehensive estimation of the country's coal resources inventory could not be made by any organization.

The Planning Commission eventually set up a Task Force on Coal and Lignite in 1972 to arrive at an estimate of coal resources of the country, for the first time, on the lines of ISP.

This was the time prior to the nationalization of coal industry in India. Central Mine Planning and Design Institute Ltd. (CMPDI) was constituted under the newly formed Coal India Ltd. (CIL) for assessment and detailed exploration of the coal resources to aid the envisaged leap in coal production. Collating the data from CMPDI and Singareni Collieries Co. Ltd. (SCCL), the GSI brought out the coal resource inventory of the country in 1976, 1978, 1984, 1986 and annually from 1988 onwards.

With the experience gained from the ISP and the practical limitations noticed, the Committee on Assessment of Coal Resources (CACR), reconstituted by the Coal Controller of India, headed by representative from CMPDI from the coal industry, proposed fundamental changes to the structure of the coal resources classification system in May 1981. The basic issues discussed and incorporated were the probabilities associated with estimation of resources of different categories and the bifurcation of coal resources into economically mineable "reserves" and other "resources". Modifications were suggested on quality and thickness classes, recoverable resources were highlighted and specific densities of drilling were proposed on different bases including likely structural complexity.

Concurrently, the Committee on Standardization of Terminology and Classification of Ore and Mineral Resources (CSTCOMR) of the GSI brought out a system of coal reserve classification in June 1981 which was more or less identical with the CACR system. Neither the CACR nor the CSTCOMR systems could, however, be utilized for inventorying purpose and, therefore, remained theoretical in scope.

The Task Force on Assessment of Coal Resources constituted in 1989 by the Central Geological Programming Board (CGPB) of GSI, however, redefined the ISP criteria for indicated and inferred resources as well as the depth, thickness and quality classes. The inventory of coal resources of India as maintained by GSI, regularly from 1988 onwards, is based on this revision of the ISP (1957).

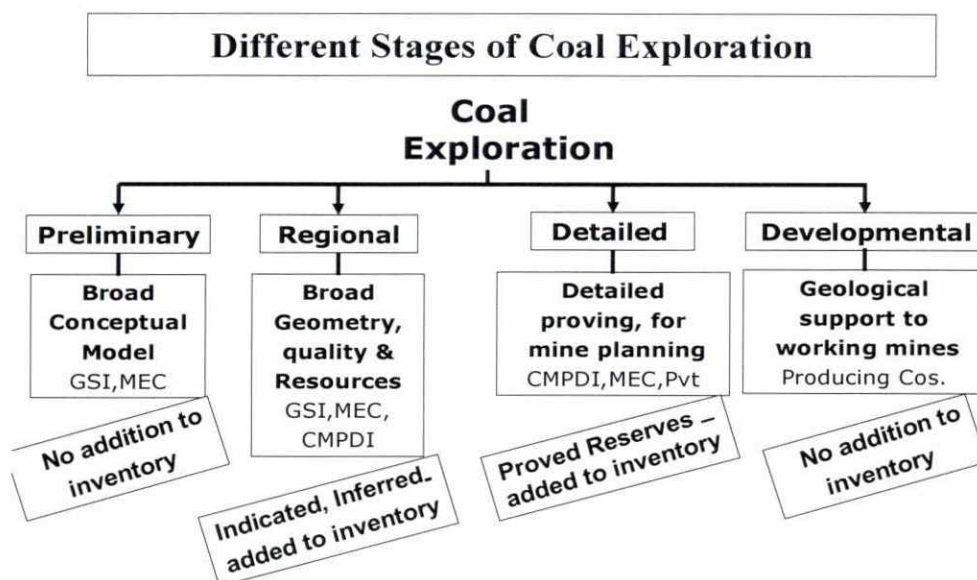
As per Indian Standard Procedure (ISP) the coal resources are classified into

- ✓ **Proved:** The coal resources of an area falling within 200 m radius from a borehole point (or observation point).
- ✓ **Indicated:** Those resources occurring in the area falling between radii of 200m and 1km from a borehole point.
- ✓ **Inferred:** Those resources occurring in the area falling between radii of 1km and 2km from a borehole point.

The other parameters of the classification are thickness (more than 0.9m), depth (down to 1200m from surface) and quality (grade) of the coal in a seam.

Exploration Stages vis-a-vis Resource Classes

CMPDI



The ISP addresses only the volume and tonnage, i.e. the resource of coal but not the accuracy of structural delineation; the resource of the 'Proved' category are more or less assured to be available in the ground, but the deciphered geological structure of the proved block may not have the same level of assurance.

The ISP provides a firm framework to the study and assessment of coal resources and development of exploration practices. The different stages of coal resource assessment and exploration that eventually evolved with more-or-less well-defined functions are given below:

The Scope of Different Stages of Coal Exploration

Sr. No.	Exploration Stages	Purpose	Contribution to Coal Inventory – Categorize
1	Preliminary	Broad identification of coal occurrences	None
2	Regional	Firm identification of coal occurrences with 1-2 drill holes per sq .km	Indicated and Inferred Resource
3	Detailed	Detailed proving of deposit with more than 8-9 drill holes per sq. km	Proved Reserves
4	Developmental	Geological support to working mines	None

3.0 Need for Review of Resource Classification System:

The Indian Standard Procedure (1957) considered only the basic criterion of geological certainty for classifying coal resources with associated classes for thickness, quality and depth.

Internationally, different countries evolved and followed their own coal reserve classification systems, which were not mutually related. In the 80s and 90s, the Committee on Sustainable Energy (CSE) of the Economic Commission for Europe (ECE), under the aegis of UNESCO, developed a coal reserve classification system titled United Nations Framework Classification (UNFC) which was adopted by all the European countries.

There are two basic precepts of the UNFC for mineral reserve / resource classification as contained in its guidelines, the attempted universality of application and the activity-linked approach for resource/reserve classification. The UNFC type of classification system has the obvious advantage of providing a ready and well defined picture of coal occurrences for investments and exploitation.

In November 2000, a meeting was organized at Agra, India, by the Ministry of Mines, Govt. of India, on the subject and decision was taken to evolve UNFC-compatible reserve classification system in India.

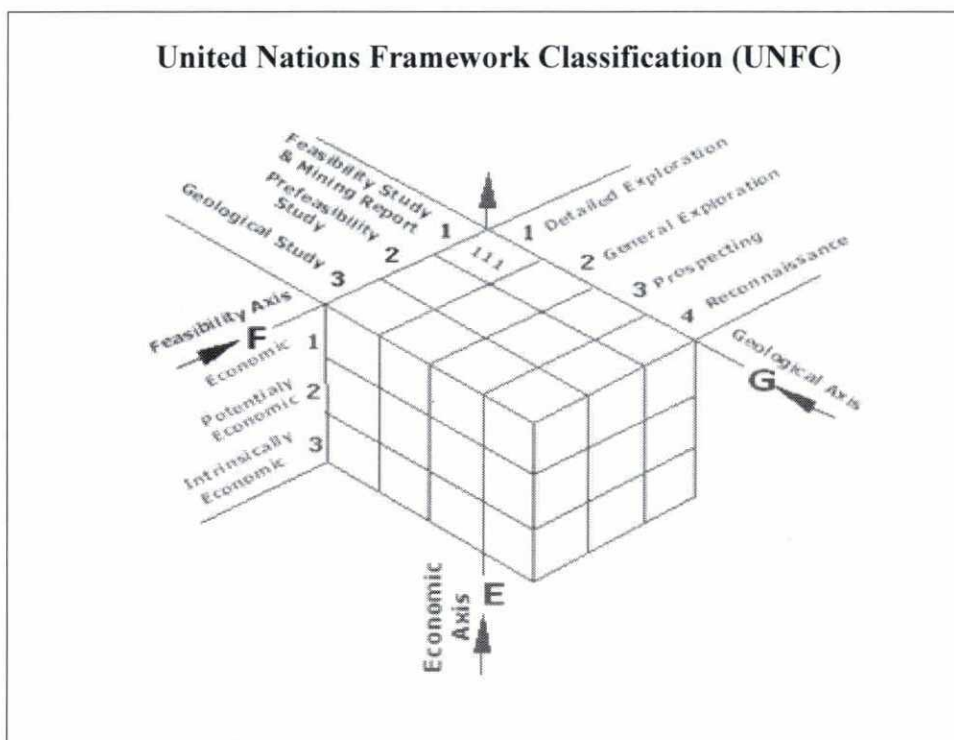
In December 2001 a conclave of serving and retired senior technical officials of the Indian coal industry was held at Delhi at the instance of the Ministry of Coal (MoC), organized by CMPDI. Amongst the issues discussed was the concern about the recoverable resources out of the relatively large coal inventory of the country and the sustainability of coal production, underlining the need for UNFC-type classification of coal resources in the country.

The Sub-Group II of the Working Group on Coal and Lignite of the MoC for the drawal of the Xth Plan (2002-03 to 2006-07) document also proposed funding for a five year project for creation of coal resource data base on the lines of UNFC under the Promotional (Regional) Exploration program of MoC which was approved in 2004.

4.0 The UNFC and the Indian Perspective

4.1 United Nations Framework Classification (UNFC): As per binary system of coal resource classification system introduced in USA in 1982 which incorporated the degree of reliability of knowledge of the deposits (viz. Proved, Indicated, etc. of the ISP) as well as the criterion of the economic mineability, only the economically mineable occurrences were termed as Reserves while the rest were considered as Resources. This has also been updated by the **United Nations Framework Classification (UNFC)** system, adopted in

India, which adds a third dimension, viz. status of the mining feasibility study of the deposits, to the classification system to provide codification as depicted below:



4.2 The UNFC consists of a three dimensional system with three axes: Geological Assessment, Feasibility Assessment and Economic Viability.

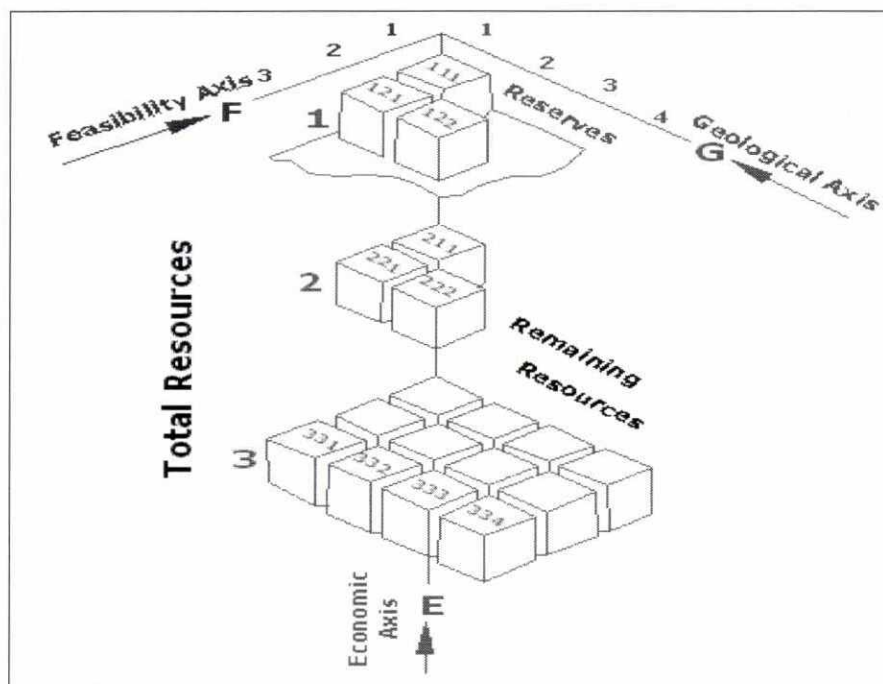
4.3 The process of geological assessment is generally conducted in stages of increasing details. The typical successive stages of geological investigation i.e. reconnaissance, prospecting, general exploration and detailed exploration, generate resource data with clearly defined degrees of geological assurance. These four stages are, therefore, used as geological assessment categories in the classification.

4.4 Feasibility assessment studies form an essential part of the process of assessing a mining project. The typical successive stages of feasibility assessment, i.e. geological study as initial stage followed by pre-feasibility study and finally the feasibility study / mining report are well defined.

4.5 The degree of economic viability (economic or sub-economic) is assessed in the course of pre-feasibility and feasibility studies. A pre-feasibility study provides a preliminary assessment with a lower level of accuracy than that of the feasibility study in which economic viability is assessed in detail.

4.6 The three categories of economic viability have codes 1,2 and 3 in decreasing order, similarly the three categories of feasibility study have also codes 1,2 and 3 while the four stages of geological assessment are represented by 4 codes i.e. 1 (detailed exploration), 2 (general exploration), 3 (prospecting) and 4 (reconnaissance).

4.7 The UNFC is, therefore, a three digit code based on system wherein the first digit represent economic viability axis, second digit represent feasibility axis & third digit represent geologic axis. Each of these axes has further codes in decreasing order. The Economic viability has codes 1, 2 and 3 in decreasing order. Similarly the feasibility assessment has codes 1, 2 and 3. The geological assessment has 4 codes i.e. 1- Detailed Exploration 2- Regional Exploration 3- Prospecting & 4- Reconnaissance. Thus the highest category of resources under UNFC system will have the code (111) and the lowest category will have the code (334).



Codification of Resources as per United Nations Framework Classification (UNFC)

ECONOMIC AXIS (E)	FEASIBILITY AXIS (F)	GEOLOGICAL AXIS (G)		
		Proved(1)	Indicated(2)	Inferred(3)
Economical (1)	PR Available (1)	111	112	113
	Pre-feasibility study (2)	121	122	123
	PR not available (3)	131	132	133
Marginally Economical (2)	PR Available (1)	211	212	213
	Pre-feasibility study (2)	221	222	223
	PR not available (3)	231	232	233
Sub-Economical (3)	PR Available (1)	311	312	313
	Pre-feasibility study (2)	321	322	323
	PR not available (3)	331	332	333

4.8 Therefore, the code 111 is used for a deposit with Proved reserves economically mineable presently as established by a detailed mine feasibility study.

5.0 Codes of Different Categories:

5.1 Codes of Economic (E) Category:

5.1.1 Economic (E1): Feasibility or pre-feasibility study shows that the deposit which can be profitably mined or extracted under the present economic, technological and political conditions are termed as economic deposit.

The term economic comprises both normal economic and exceptional economic as defined below.

- **Normal Economic Reserves:** Normal economic reserves are reserves that justify economic extraction under normal market conditions. Thus, the average value of the commodity mined per year must be such as to satisfy the required return on investment.
- **Exceptional (conditional) Economic Reserves:** Exceptional (conditional) economic reserves are reserves which are not economic at present under normal market conditions but can be made economic by other means like increasing the sale value, government subsidies and/or other supportive measures etc.

5.1.2 Potentially Economic (E2): Feasibility or pre-feasibility study indicates that the deposits which can not be mined or extracted economically at present are termed as potentially economic.

The term potentially economic comprises both marginal and sub-marginal as defined below.

- **Marginally Economic:** Marginal economic resources are resources which at the time of determination are not economic, but border on being so. They may become economic in the near future as a result of changes in technological, economic, environmental and/or other relevant conditions.
- **Sub-marginal Economic:** Sub-marginal economic resources are resources that would require a substantially higher commodity price or a major cost-reducing advance in technology to render them economic.

5.1.3 Intrinsically economic (E3): The deposits for which, neither a feasibility study nor a pre-feasibility study have been conducted and only the results of geological study are available, are termed as intrinsically economic.

5.2 Codes of Feasibility Study (F) Category:

5.2.1 Feasibility Study (F1): A Feasibility Study assesses in detail the technical soundness and economic viability of a mining project, and serves as the basis for the investment decision and as a bankable document for project financing. The study constitutes an audit of all geological, engineering, environmental, legal and economic information accumulated on the project. Generally, a separate environmental impact study is required.

5.2.2 Pre-feasibility Study (F1): Pre-feasibility Study provides a preliminary assessment of the Economic Viability of a deposit and forms the basis for justifying further investigations (detailed exploration and feasibility study). The Pre-feasibility Study addresses the items listed under the feasibility study, although not in as much details.

5.2.3 Geological Report (F3): The deposits for which neither feasibility study nor pre-feasibility has been conducted only geological reports are available.

5.3 Codes of Geological (G) Category:

5.3.1 G1 Category: Quantity of known mineral deposits which has been estimated with high level of confidence. The proved reserve in ISP classification may be categorized in this group.

5.3.2 G2 Category: Quantity of known mineral deposits which has been estimated with moderate level of confidence. The indicated reserve in ISP classification may be categorized in this group.

5.3.3 G3 Category: Quantity of known mineral deposits which has been estimated with low level of confidence. The inferred reserve in ISP classification may be categorized in this group.

5.3.4 G4 Category: Quantity of potential mineral deposits based primarily on indirect evidence (Reconnaissance).

6.0 Classification of Coal Resources under CIL as per UNFC

The Controller General of Indian Bureau of Mines has issued comprehensive Guidelines under MCDR for United Nations Framework Classification of Mineral Reserves/Resources (Annexure I). These guidelines, apart from the definition of terms and codes on reserves and resources under United Nations Framework Classification (UNFC) also provide the field guidelines for adoption of UNFC and accordingly Indian coal resource/reserve has been codified as given in the table below:

Code	Code Description
A. Coal Reserve	
1,1,1	The resource is of G1 category, feasibility study (F1) has been made and economically viable (E1). The balance Mineable Reserve (excluding that of losing mines) as on date will be in this category
1,2,1	The resource is of G1 category and pre-feasibility study has been made only. But, it indicates that the exploitation will be economic
1,2,2	The resource is of indicated (G2) category and pre-feasibility study (F2) has been made only & indicates that the exploitation will be economic (E1)
B. Remaining Resource	
2,1,1	The resource is of G1 category, feasibility study (F1) has been made and found potentially economic (E2).
2,2,1	The resource is of G1 category, pre-feasibility study has been made and found potentially economic. In our case the losses during mining operation has been included in this category & can be computed by deducting the estimated mineable reserve from the geological reserve considered in PR.
2,2,2	The resource is G2 category, pre-feasibility study (F2) has been made and found potentially economic (E2).
3,3,1	The resource is of G1 category, no study has been made but GR is available & hence economic criteria not determined (E3).
3,3,2	The resource is of G2 category, no study has been made & hence economic criteria not determined.
3,3,3	The resource is of G3 category, no study has been made & hence economic criteria not determined

Summary of UNFC Classification of CIL Blocks as on 01.04.2013, excluding 119 assigned blocks, is given below and the subsidiary-wise block-wise details are enclosed:

UNFC Classification as on 01.04.2013 (Excluding 119 assigned blocks)												
Comp- any	Coal Resource (Mt)							Coal Reserve (Mt)				
	UNFC Code											
	3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	Total	1,2,2	1,2,1	1,1,2	1,1,1	Total
ECL	1285.86	1918.66	5951.24	0.00	2633.77	894.37	12683.90	0.00	0.00	0.00	1056.374	1056.37
BCCL	271.85	1914.07	6138.38	0.00	2585.67	1035.54	11945.50	0.00	0.00	0.00	1031.25	1031.25
CCL	14.48	3439.92	5552.91	0.00	2046.22	311.41	11364.94	0.00	0.00	0.00	3630.29	3630.29
WCL	184.94	1018.93	1545.71	227.09	2240.10	204.23	5420.99	0.00	0.00	0.00	1494.94	1494.94
SECL	217.52	6122.94	4649.37	0.00	1615.03	291.47	12896.32	0.00	0.00	0.00	3759.63	3759.63
MCL	780.61	2252.79	4417.58	17.58	2235.02	38.63	9742.20	0.00	0.00	0.00	6969.93	6969.93
NCL	0.00	2354.85	1206.51	0.00	472.02	227.02	4260.40	0.00	0.00	0.00	1767.95	1767.95
NEC	0.00	26.86	204.69	0.00	60.76	5.19	297.49	0.00	0.00	0.00	94.63	94.63
CIL	2755.26	19049.01	29666.38	244.67	13888.57	3007.86		0.00	0.00	0.00	19805.01	
	68611.75							19805.01				

UNFC Classification Coalfield-wise:

Comp- any	Coalfield	Resource as on 01.04.2013 in Mt						Reserve as on 01.04.2013 in Mt			
		UNFC Code									
		3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
ECL	Deogarh	0.00	0.00	208.94	0.00	11.79	0.00	0.00	0.00	0.00	106.10
	Rajmahal	827.48	545.56	498.22	0.00	274.08	0.00	0.00	0.00	0.00	488.51
	Raniganj	458.38	1373.10	5244.07	0.00	2347.91	894.37	0.00	0.00	0.00	461.76
ECL Sub Total		1285.86	1918.66	5951.24	0.00	2633.77	894.37	0.00	0.00	0.00	1056.37
BCCL	Jharia	126.72	1495.47	5691.36	0.00	2531.11	1027.34	0.00	0.00	0.00	1013.44
	Raniganj	145.13	418.60	447.02	0.00	54.55	8.19	0.00	0.00	0.00	17.82
BCCL Sub Total		271.85	1914.07	6138.38	0.00	2585.67	1035.54	0.00	0.00	0.00	1031.25
CCL	East Bokaro	0.00	1567.64	1179.45	0.00	500.06	41.04	0.00	0.00	0.00	683.79
	Daltonganj	0.00	0.24	17.09	0.00	2.57	0.00	0.00	0.00	0.00	0.00
	Giridih	0.00	0.00	0.00	0.00	6.50	12.87	0.00	0.00	0.00	0.00
	Hutar	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
	N. Karanpura	1.37	1366.40	1460.64	0.00	726.72	21.24	0.00	0.00	0.00	2199.67
	Ramgarh	0.00	24.91	367.68	0.00	56.67	0.00	0.00	0.00	0.00	133.50
	S. Karanpura	0.00	214.47	1529.80	0.00	358.57	192.08	0.00	0.00	0.00	174.37
	West Bokaro	13.11	266.26	998.26	0.00	388.14	44.17	0.00	0.00	0.00	438.96
CCL Sub Total		14.48	3439.92	5552.91	0.00	2046.22	311.41	0.00	0.00	0.00	3630.29
WCL	Wardha Valley	121.94	645.00	946.27	180.44	806.67	200.28	0.00	0.00	0.00	812.33
	Umrer Nand Bander	0.00	1.00	82.51	0.00	269.96	0.00	0.00	0.00	0.00	218.37
	Kamptee	0.00	171.93	296.24	2.24	399.32	0.00	0.00	0.00	0.00	196.78
	Pench Kanhan	63.00	181.00	218.74	34.41	572.08	3.95	0.00	0.00	0.00	201.74
	Patherkhera	0.00	20.00	1.95	10.00	192.07	0.00	0.00	0.00	0.00	65.73
WCL Sub Total		184.94	1018.93	1545.71	227.09	2240.10	204.23	0.00	0.00	0.00	1494.94
SECL	Johilla	0.00	3.23	48.06	0.00	41.32	3.05	0.00	0.00	0.00	14.92
	Umaria	0.00	3.59	120.38	0.00	3.40	0.00	0.00	0.00	0.00	9.96
	Jhilimili	13.52	15.62	84.36	0.00	43.44	0.00	0.00	0.00	0.00	21.62
	Bisrampur	10.00	64.97	182.31	0.00	412.95	32.44	0.00	0.00	0.00	107.02
	Lakhanpur	0.00	69.01	295.39	0.00	62.48	0.00	0.00	0.00	0.00	88.39
	Sendurgarh	0.00	58.00	0.24	0.00	74.15	0.00	0.00	0.00	0.00	21.65
	Korba	64.00	1472.33	1601.15	0.00	489.24	0.08	0.00	0.00	0.00	2498.64
	Mand Raigarh	0.00	3094.58	1355.41	0.00	86.62	198.07	0.00	0.00	0.00	589.80
	Tatapani Ramkola	0.00	483.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sohagpur	130.00	749.86	847.43	0.00	347.85	31.73	0.00	0.00	0.00	312.00
	Sonhat	0.00	104.53	41.65	0.00	9.70	0.00	0.00	0.00	0.00	34.06
	Chirimiri	0.00	3.55	73.00	0.00	43.87	26.10	0.00	0.00	0.00	61.58
SECL Sub Total		217.52	6122.94	4649.37	0.00	1615.03	291.47	0.00	0.00	0.00	3759.63
NCL	Singrauli	0.00	2354.85	1206.51	0.00	472.02	227.02	0.00	0.00	0.00	1767.95
NCL Sub Total		0.00	2354.85	1206.51	0.00	472.02	227.02	0.00	0.00	0.00	1767.95
MCL	Ib Valley	80.16	986.10	1105.94	0.00	978.54	24.13	0.00	0.00	0.00	3393.38
	Talcher	700.45	1266.69	3311.64	17.58	1256.48	14.49	0.00	0.00	0.00	3576.54
MCL Sub Total		780.61	2252.79	4417.58	17.58	2235.02	38.63	0.00	0.00	0.00	6969.93
NEC	Makum	0.00	9.66	191.39	0.00	36.24	5.19	0.00	0.00	0.00	77.43
	Dilli Jeypore	0.00	17.20	13.30	0.00	24.52	0.00	0.00	0.00	0.00	17.20
NEC Sub Total		0.00	26.86	204.69	0.00	60.76	5.19	0.00	0.00	0.00	94.63
CIL TOTAL		2755.26	19049.01	29666.38	244.67	13888.57	3007.86	0.00	0.00	0.00	19805.01
		68611.75						19805.01			

7.0 Limitations:

- As per the UNFC classification, coal which cannot be mined economically as per present study, will be termed as 'Coal Resource' and will not be included in 'Coal Reserve'. Accordingly, balance mineable coal of running mines which are at present incurring losses have been included in the category of 'Coal Resource' although we are still winning it.
- Coal lost during mining (both under ground and open cast) and left in-situ has been included as a part of 'Coal Resource' (categorized as UNFC Code 2,2,1) although majority of it may not be mineable / extractable in future.
- Geological Reports are not available for some old mines which were taken over from private owners during nationalization. Project Reports were also not prepared for these mines. Balance mineable reserve have been estimated by Regional Institutes of CMPDI and included in the report.

-- X --

Eastern Coalfields Limited (ECL)

Sl.No.	Coalfield	Block/GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
1	Deogarh	Chitra*		0.00	208.94		11.79					106.10
Sub-Total (Deogarh CF)			0.00	0.00	208.94	0.00	11.79	0.00	0.00	0.00	0.00	106.10
2	Rajmahal	Simlong OC*		26.21	15.69		6.89					40.37
3	Rajmahal	Lalmatia A & B					244.55					231.34
4	Rajmahal	Deoghar (Hura'C')			332.88		9.96					90.04
5	Rajmahal	Chuperbhita OCP	827.48	84.35	149.65		12.68					126.76
6	Rajmahal	Dip side of Lalmatia A & B		435.00								0.00
Sub-Total (Rajmahal CF)			827.48	545.56	498.22	0.00	274.08	0.00	0.00	0.00	0.00	488.51
7	Raniganj	Madhaipur Patch			10.37							
8	Raniganj	Avirampur Patch			2.33							
9	Raniganj	Avirampur			13.00							
10	Raniganj	Manderboni			22.84		11.15	0.27				
11	Raniganj	Pandaveswar-Dalurband*			110.54		238.90	97.92				
12	Raniganj	Samla			2.12							
13	Raniganj	Kumardih*			140.86		35.42	21.44				
14	Raniganj	Tilaboni		14.82	165.21		30.95	32.92				
15	Raniganj	Shankarpur*			78.56		28.15					45.960
16	Raniganj	Bahula			19.08		50.48	18.34				
17	Raniganj	Kenda west*			46.58		17.82	13.60				
18	Raniganj	C.L.Jambad			22.61		2.16	0.13				
19	Raniganj	Belbaid-Parasea-Jambad		7.24	174.08		84.71	36.73				
20	Raniganj	Chora		3.10	95.34		31.98	14.47				
21	Raniganj	Chora East		7.52	46.60		4.59	0.69				
22	Raniganj	Bansra OCP			4.79		2.88					
23	Raniganj	Bansra Deep	98.99	28.08	9.83		35.45	22.84				
24	Raniganj	North Searsole *			83.75		3.83	30.17				
25	Raniganj	Bansra-Searsole			42.03							
26	Raniganj	Bansra-Searsole (West)		7.53	80.49							
27	Raniganj	Topsi (Sector-A)			4.02							
28	Raniganj	Topsi (Sector-B)			14.80		4.46					
29	Raniganj	Seikhpur Sector			11.40		0.72					
30	Raniganj	Ikra Sector			17.80							
31	Raniganj	Nandi Sector		0.70	16.10							
32	Raniganj	East-Satgram			55.08		10.22	1.69				
33	Raniganj	Satgram		8.67	12.53		19.14	5.86				
34	Raniganj	Satgram Extn.			13.75		5.50					
35	Raniganj	Nimcha		2.40	35.41		11.53	57.01				
36	Raniganj	J.K.Nagar		44.49	6.03		31.01					13.082
37	Raniganj	Jemehari-Mahabir		32.00	77.48		13.40	1.30				
38	Raniganj	Damra-Kuandih			101.87		20.37	0.50				
39	Raniganj	Kalipahari		29.00	29.69		10.49	2.26				
40	Raniganj	Ningah-Taltore			136.55		8.18	0.05				
41	Raniganj	Sripur (Taltore)			26.60		5.58					
42	Raniganj	Adjoy-II (TAD Girmint)		49.45	74.06		5.66	1.54				
43	Raniganj	Ratibati		15.13	0.00		18.99	4.71				
44	Raniganj	Chinakuri-Sodepur			7.93		35.12	9.96				
45	Raniganj	Chinakuri-Bejdih			147.98		21.20	1.82				
46	Raniganj	Chinakuri North		9.29	2.92		10.77	0.31				
47	Raniganj	Parbelia			26.48		15.21	0.06				

Eastern Coalfields Limited (ECL)

Sl.No.	Coalfield	Block/GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
48	Raniganj	Ranipur-Puapur		3.80	7.99		2.93					
49	Raniganj	Dabor *			22.67		6.30	15.73				
50	Raniganj	Central Salanpur-A		21.52	60.34		1.34					
51	Raniganj	Sangramgarh		2.99	14.03		9.25					
52	Raniganj	Gourangdih-D			158.23		12.65	3.71				
53	Raniganj	Barmondia-B		9.20	32.68		16.91					
54	Raniganj	Kanyapur			20.02		2.15	0.46				
55	Raniganj	Nirsha			112.20		3.70	8.30				
56	Raniganj	Badjna-Chapapur Sector-A			65.21		11.26	0.02				
57	Raniganj	Badjna-Chapapur Sector-B		0.68	24.71		2.44	0.20				
58	Raniganj	Badjna-Chapapur Sector-C		19.30	45.20		15.68	5.22				
59	Raniganj	Shampur		89.05	43.48		9.70	2.47				
60	Raniganj	Mandman			4.98		9.20	0.00				
61	Raniganj	Kapasara			13.62		1.65					
62	Raniganj	Kumardhubi		17.05	45.13		6.37	0.00				
63	Raniganj	Lakshimata-Kapasara A			25.80		78.97	0.00				
64	Raniganj	Lakshimata-Kapasara B			14.99		49.82	0.00				
65	Raniganj	Lakshimata-Kapasara C		0.00	20.32		26.59	0.00				
66	Raniganj	Gourangdih (South)	292.00				0.00	0.00				
67	Raniganj	Gourangdih Extn.		0.00	117.88		1.37	0.00				
68	Raniganj	Kasta West		0.00	51.42		46.28	0.00				
69	Raniganj	Kasta Central		2.00			52.43	0.00				
70	Raniganj	Dhemomain		45.76	10.24		18.41	0.82				
71	Raniganj	Jhanjra-Jamagora & Jhanjra-Kalipur *		0.00	190.91		185.05					64.83
72	Raniganj	Mohanpur		0.00	14.53		2.97					6.57
73	Raniganj	Parbelia South		0.00	35.75		6.35	1.32				
74	Raniganj	Kottadih Recon. Block		0.00	0.00		28.94					15.849
75	Raniganj	Quarriable Potentiality of Kottadih Block					5.33	12.08				
76	Raniganj	Amritnagar Amkola (Deep)	35.96	28.09	59.63		17.73	1.50				
77	Raniganj	Shyamsundarpur-South Bankola		0.00	188.26		59.30					27.065
78	Raniganj	Kalidaspur-Kalikapur (Deep)		74.50	66.18		4.91	0.58				
79	Raniganj	Sonepur-Bazari Sector-I & Sector-II Extn.					30.58					131.272
80	Raniganj	Sonepur-Bazari Sector II					31.81					64.340
81	Raniganj	Sonepur Bazari Sector-III					1.84					4.180
82	Raniganj	Bakulia Extension			91.44							
83	Raniganj	Bhanora (West)			38.98		16.80	2.21				
84	Raniganj	Rangamati-A		42.74	46.91		66.58	94.12				
85	Raniganj	Gourbazar Sector (Rangamati-B)*		0.00	22.97		21.07	33.47				
86	Raniganj	Moir-Madhujore North		0.00	110.87		22.59	8.07				
87	Raniganj	Moir-Madhujore South		0.00	177.70		32.63					
88	Raniganj	Andal Central		0.00	75.20		5.02					
89	Raniganj	Ardhagram Extension		44.62	0.00		0.00					
90	Raniganj	Ardhagram -Kalikapur OCP		0.00	4.34		0.16					
91	Raniganj	Purushottampur-Nakrakonda		17.90	98.46		14.46	5.57				

Eastern Coalfields Limited (ECL)

Sl.No.	Coalfield	Block/GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
92	Raniganj	Khas Kajora-Mukundapur	18.65	22.80	45.57		26.86	34.11				
93	Raniganj	Khas Kajora (South)	4.29	10.32	0.00		80.88					35.171
94	Raniganj	Ghusick (Phase-I) & Ghusick Extension *		26.44	43.42		47.80	58.41				
95	Raniganj	New Ghusick		64.90	46.10		2.64	0.00				
96	Raniganj	Haripur & Haripur Extn			19.12		14.52	4.57				
97	Raniganj	Merah-I			0.84		0.68	0.00				
98	Raniganj	Lachipur			71.98		28.37	11.79				
99	Raniganj	Merah-II		0.84	0.73		1.01	0.00				
100	Raniganj	Sadhana		49.23	4.55		0.00	0.00				
101	Raniganj	Afzalpur			7.95		0.53	0.00				
102	Raniganj	Sarisatali (South)		170.00	0.00		0.00	0.00				
103	Raniganj	Shampur (Deep)			48.97		6.49	0.00				
104	Raniganj	Bonjemehari			11.95		3.58	0.00				
105	Raniganj	Kunustoria Block			5.86		14.58	11.09				
106	Raniganj	Gopalpur			12.47		1.93	0.00				
107	Raniganj	Chatabar		9.18	17.60		15.85	0.00				
108	Raniganj	Itapara *			0.00		10.00	70.18				
109	Raniganj	Kanchanpur Sector (Rangamati B)*			67.89		18.17					26.010
110	Raniganj	Tumni Sector (Rangamati B)*			71.59		19.16					27.440
111	Raniganj	Krishnanagar			20.83		0.00					
112	Raniganj	Ghusick Extn.			0.00		0.00					
113	Raniganj	Siduli *		41.04	106.02		89.49	40.01				
114	Raniganj	Nabakajora-Madharpur *		0.00	263.57		123.33	35.79				
115	Raniganj	North and Central Bankola	8.49	132.73	37.36		28.43	24.84				
116	Raniganj	Tilaboni Extn.		167.00	77.13		48.22	31.15				
117	Raniganj	Nakrakonda Extn.		0.00	139.93							
Sub-Total (Raniganj CF)			458.38	1373.10	5244.07	0.00	2347.91	894.37	0.00	0.00	0.00	461.76
TOTAL OF ECL (Mt)			1285.86	1918.66	5951.24	0.00	2633.77	894.37	0.00	0.00	0.00	1056.37
GRAND TOTAL (Mt)			12683.90						1056.37			

Bharat Coking Coal Ltd (BCCL)

Sl.No.	Coal field	Block/ GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
1	Jharia	Damuda Block (1984)	0.00	28.06	144.60	0.00	11.64	4.89	0.00	0.00	0.00	4.95
2	Jharia	Block-II (1983)	0.00	0.00	263.16	0.00	31.26	0.00	0.00	0.00	0.00	112.93
3	Jharia	Block-III(1982)	0.00	0.36	0.00	0.00	90.21	26.00	0.00	0.00	0.00	182.64
4	Jharia	Block-IV (Coking)(1986)										
5	Jharia	Block-IV (VIII & I seams) (1998)	0.00	22.10	34.97	0.00	208.25	96.55	0.00	0.00	0.00	160.21
6	Jharia	Kuman OCP(1986)	0.00	0.00	651.49	0.00	409.72	225.24	0.00	0.00	0.00	286.68
7	Jharia	OCP - VII (1993)	0.00	0.00	185.35	0.00	123.40	40.19	0.00	0.00	0.00	4.19
8	Jharia	Kusunda Block (Part of OCP-VII & VIII) (1984)	0.00	0.00	422.88	0.00	5.61	37.60	0.00	0.00	0.00	0.00
9	Jharia	OCP - VIII(1999)	0.00	46.20	64.58	0.00	253.28	29.18	0.00	0.00	0.00	47.05
10	Jharia	Mukunda (1981)	0.00	276.32	438.06	0.00	458.37	106.63	0.00	0.00	0.00	182.50
11	Jharia	Madhuband (1982)	90.09	6.82	485.73	0.00	51.90	22.85	0.00	0.00	0.00	0.00
12	Jharia	Kharkharee (1981)	0.00	0.00	351.66	0.00	11.95	2.82	0.00	0.00	0.00	0.00
13	Jharia	Dharmaband (1986)	0.00	125.83	364.34	0.00	28.19	10.61	0.00	0.00	0.00	0.00
14	Jharia	Katras-Choitudi (1998)	0.00	37.35	74.20	0.00	39.86	13.43	0.00	0.00	0.00	0.00
15	Jharia	Pootkee Bulliary (1990)	0.00	330.29	383.74	0.00	252.85	108.09	0.00	0.00	0.00	19.33
16	Jharia	Kustore (1986)	0.00	0.00	204.20	0.00	44.04	18.18	0.00	0.00	0.00	0.00
17	Jharia	Hurladih-Burragarh(1980)	0.00	16.10	132.47	0.00	45.80	0.00	0.00	0.00	0.00	12.51
18	Jharia	Bhailgora (1983)										
19	Jharia	Bhowrah (1987)	0.00	0.00	498.17	0.00	200.14	69.83	0.00	0.00	0.00	0.45
20	Jharia	Amlabad (3.80)	36.63	96.96	132.10	0.00	15.00	10.90	0.00	0.00	0.00	0.00
21	Jharia	Patherdih (1983)	0.00	76.13	174.30	0.00	3.09	0.90	0.00	0.00	0.00	0.00
22	Jharia	Lohapatti (W) (Production Support)1997	0.00	0.00	8.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Jharia	Bhurungia, Kalyanpur & Kunjo-Nutandih Sub block (Mahuda)1979	0.00	15.74	123.69	0.00	27.21	4.42	0.00	0.00	0.00	0.00
24	Jharia	Murulidh Sub Block(1978)	0.00	9.84	38.52	0.00	6.48	0.03	0.00	0.00	0.00	0.00
25	Jharia	Sudamdih-Bhowrah Extn. Block (1978)	0.00	68.70	7.34	0.00	22.57	38.26	0.00	0.00	0.00	0.00
26	Jharia	Moonidih-Jarma Sector (1990)	0.00	32.30	98.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	Jharia	Moonidih Sector(1997)	0.00	0.00	18.91	0.00	55.60	120.31	0.00	0.00	0.00	0.00
28	Jharia	Kapurja(1987)	0.00	0.00	50.28	0.00	108.69	37.49	0.00	0.00	0.00	0.00
29	Jharia	Dharmaband-Kharkharee Extn. Block (1986)	0.00	109.26	279.24	0.00	26.00	2.95	0.00	0.00	0.00	0.00
30	Jharia	Gouri(1992)		2.59	9.82		0.00					
31	Jharia	Singra(1983)		186.39	13.71		0.00					
32	Jharia	Chandrapura sub-basin (1984)		8.14	36.55		0.00					
	Sub-Total of Jharia		126.72	1495.47	5691.36		2531.11	1027.34	0.00	0.00	0.00	1013.44
33	Raniganj	Ramkrishna(1989)	8.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00
34	Raniganj	Victoria West (1987)	0.00	62.00	41.24	0.00	6.13	1.69	0.00	0.00	0.00	0.00
35	Raniganj	Victoria (1987)	0.00	0.00	93.70	0.00	20.11	2.65	0.00	0.00	0.00	0.00
36	Raniganj	Indikatta (1989)			27.325		0.00					
36	Raniganj	Indikatta (1989)	0.00	0.00	27.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	Raniganj	Begunia (1984)	112.13	0.00	32.12	0.00	0.71	0.29	0.00	0.00	0.00	0.00
38	Raniganj	Dahibari-Basantimata (1986)	0.00	0.00	75.08	0.00	21.17	1.60	0.00	0.00	0.00	17.82
39	Raniganj	Chanch (1987)	0.00	351.60	157.20	0.00	5.50	1.97	0.00	0.00	0.00	0.00
40	Raniganj	New Laikdih (Revised) (1990)	25.00	5.00	20.36	0.00	0.27	0.00	0.00	0.00	0.00	0.00
	Sub-Total of Raniganj		145.13	418.60	447.02	0.00	54.55	8.19	0.00	0.00	0.00	17.82
	Total		271.85	1914.07	6138.38	0.00	2585.67	1035.54	0.00	0.00	0.00	1031.25

Central Coalfields Ltd (CCL)

Sl No.	Coalfield	Block / GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
1	East Bokaro	Tarmi Block	0.00	0.00	33.39		2.96					8.590
2	East Bokaro	Konar Block		1.76	0.00		40.05	2.702				110.953
3	East Bokaro	Kaveri (Karo. II) Block										
4	East Bokaro	Karo Eastern Sec.		80.10	77.79		14.86					94.343
5	East Bokaro	Jarangdih Opencast	0.00	0.00	35.87		5.75					4.445
6	East Bokaro	Jarangdih UG	0.00	0.00	0.00		19.94	2.629				
7	East Bokaro	Govindpur North Block	0.00	0.29	31.11		0.00					0.000
8	East Bokaro	Sawang (South) Block	0.00	346.78	0.00		0.00					0.000
9	East Bokaro	Pipradih Block			8.31		17.23					9.940
10	East Bokaro	Tisri Block			13.80							
11	East Bokaro	Kathara Block		95.24	123.65		14.11					26.800
12	East Bokaro	Gobindpur Block		110.50	151.17		19.32	10.765				11.714
13	East Bokaro	Jarangdih Shaft Area	0.00	0.00	0.00		94.45					0.000
14	East Bokaro	Godo Block	0.00	0.00	122.27		12.64					34.400
15	East Bokaro	Pichri	0.00	168.18	0.28		31.20					23.800
16	East Bokaro	Dhori		4.38	131.66		43.86					39.493
17	East Bokaro	Makoli	0.00	0.00	5.00							0.000
18	East Bokaro	Selected Dhori	0.00	0.00	22.70		22.50					0.000
19	East Bokaro	New Selected Dhori	0.00				3.25					
20	East Bokaro	DRD		578.05	337.22		130.49	24.941				292.880
21	East Bokaro	Uchitdih			10.70							
22	East Bokaro	Sawang	0.00	182.36	74.56		27.44					26.430
	Sub-Total		0.00	1567.64	1179.45	0.00	500.06	41.04	0.00	0.00	0.00	683.79
23	Daltonganj	North Lohari			3.62							0.000
24	Daltonganj	Rajhara N W Sector		0.24	13.47		2.57					
	Sub-Total		0.00	0.24	17.09	0.00	2.57	0.00	0.00	0.00	0.00	0.00
25	Giridih	Giridih			0.00		3.51					0.000
26	Giridih	Kabriabad			0.00		2.99	12.873				
	Sub-Total		0.00	0.00	0.00	0.00	6.50	12.87	0.00	0.00	0.00	0.00
27	Hutar	Hutar			0.00		7.00					
	Sub-Total		0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
28	N. Karanpura	Rohini Block			59.06		9.46					10.332
29	N. Karanpura	Piparwar Block										
		Mangardaha			28.94		31.94					55.165
30	N. Karanpura	Churi Block										
		Benti Block			31.11		23.91					18.010
31	N. Karanpura	Karkata Block		43.28	243.00		7.01	21.228				
32	N. Karanpura	Dumargarh Block										
33	N. Karanpura	Karimati Block										
34	N. Karanpura	Tandwa Block										
35	N. Karanpura	Magadh Block		53.69	495.89		62.00					351.000
36	N. Karanpura	Magadh North East			166.73							0.000
37	N. Karanpura	Ashok Block			13.62		74.56					354.251
38	N. Karanpura	Ray Block	1.37		29.74		10.52	0.011				
39	N. Karanpura	Hesalong										
40	N. Karanpura	K.D South Block			2.05		72.25					95.233
41	N. Karanpura	Pumadih Block			4.75		17.28					53.765
42	N. Karanpura	Chano-Rikba										
43	N. Karanpura	Chano-Rikba - B		52.92	0.00		39.11					
44	N. Karanpura	Saradhu Block										
45	N. Karanpura	Saradhu South W.			0.00		28.54					177.970

Central Coalfields Ltd (CCL)

Sl No.	Coalfield	Block / GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
46	N. Karanpura	Manatu Block										
47	N. Karanpura	Koyad			0.00		104.93					241.260
48	N. Karanpura	Pachra South										
49	N. Karanpura	Pachra Block			0.15		181.81					527.300
50	N. Karanpura	Kishanpur Block										
51	N. Karanpura	Kumamg (Amrapali)			347.41		51.30					291.100
52	N. Karanpura	Kasiadih Block										
53	N. Karanpura	Tetariakhar										
54	N. Karanpura	Dakra		1216.510	38.190		12.100					24.286
55	N. Karanpura	Manki										
56	N. Karanpura	Ashok Karkata West(Promotional)										
	Sub-Total		1.370	1366.396	1460.637	0.000	726.719	21.239	0.000	0.000	0.000	2199.671
57	Ramgarh	Block I & IV										
58	Ramgarh	Eastern Part Block-II		4.11	20.38		38.40					74.059
59	Ramgarh	Kaitha Block	0.00	6.62	4.48		7.27					13.748
60	Ramgarh	Block-III	0.00	0.00	264.32		0.00					0.000
61	Ramgarh	Western Part Block-II	0.00	0.00	0.00		11.00					45.690
62	Ramgarh	Block II North	0.00	14.18	78.51		0.00					0.000
	Sub-Total		0.000	24.910	367.680	0.000	56.669	0.000	0.000	0.000	0.000	133.497
63	S. Karanpura	Urimari		7.00	1.32		50.97	13.222				77.650
64	S. Karanpura	Potanga			75.60							0.000
65	S. Karanpura	Hesalong		0.00	0.00		47.11	39.430				
66	S. Karanpura	Associated Karanpura			37.29		12.00					
67	S. Karanpura	Sayal- A			4.97							
68	S. Karanpura	Sayal- D	0	0	0		14.29					24.533
69	S. Karanpura	Saunda -D			9.41		20.2	19.770				
70	S. Karanpura	Khas Karanpura		8.37	54.76		14.00					
71	S. Karanpura	Central Saunda		0	0.00		25.11	12.877				
72	S. Karanpura	Religara Block			31.96		7.97	3.465				
73	S. Karanpura	Argada Block	0.00	0.00	321.36		11.53	6.510				
74	S. Karanpura	Sirka Block	0.00	0.00	67.91		3.31	4.345				
75	S. Karanpura	Sirka Block Southern limb	0.00	0.00	0.00		35.29	33.406				
76	S. Karanpura	Bhurkunda Block		96.37	185.13		20.39	9.839				
77	S. Karanpura	Gidi-C Block			117.30							
78	S. Karanpura	Gidi-A Colliery			0.00		65.19	49.220				
79	S. Karanpura	Lapanga Ext.		13.61	62.24							
80	S. Karanpura	Aswa North Block		0.00	48.83		0					0.000
81	S. Karanpura	Aswa (South) Block		33.43	14.08		14.23					47.020
82	S. Karanpura	Gidi 'C' (NE) Block		0.14	45.22		12.82					11.270
83	S. Karanpura	Gidi 'C' (SW) Block		4.76	59.09		4.17					13.900
84	S. Karanpura	Bhurkunda North Extn.		2.00	20.43		0					0.000
85	S. Karanpura	Asnagara Block		0.93	51.44		0					0.000
86	S. Karanpura	Bhurkunda (SW) Block		25.62	0.00		0					0.000
87	S. Karanpura	Chordhara + lapanga		0.00	118.86		0					0.000
88	S. Karanpura	South Sayal		22.23	202.61		0					0.000
	Sub-Total		0.000	214.473	1529.795	0.000	358.566	192.084	0.000	0.000	0.000	174.373
89	West Bokaro	Ara Block		30.17	136.61		10.10	22.593				
90	West Bokaro	Sarubera Block	0.07	5.96	1.61		4.87	5.754				2.693
91	West Bokaro	Kuju Block		73.92	121.29		86.84	8.348				9.600
92	West Bokaro	Tapin Block		11.90	81.71		22.34					69.317
93	West Bokaro	Loiyo Block	13.04	58.08	2.14		5.28	6.600				
94	West Bokaro	Jharkhand Block		7.52	116.59		6.45					7.961
95	West Bokaro	Parej East Block			77.68		15.42					37.17
96	West Bokaro	Gose Block		7.20	0.04		48.02					26.300
97	West Bokaro	Gose East Block		26.77	72.92							
98	West Bokaro	Parej West Block			45.51		21.69					46.560

Central Coalfields Ltd (CCL)

Sl No.	Coalfield	Block / GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
99	West Bokaro	Pindra Colliery			19.27		32.42					21.57
100	West Bokaro	Pundi Block			94.74		10.20					0.000
101	West Bokaro	Hesagora Block		33.16	184.92							
102	West Bokaro	Kedia Block			0.00		96.56					173.85
103	West Bokaro	Topa		11.59	43.24		27.96	0.88				43.93
	Sub-Total		13.11	266.26	998.26	0.00	388.14	44.17	0.00	0.00	0.00	438.96
	Total		14.48	3439.92	5552.91	0.00	2046.22	311.41	0.00	0.00	0.00	3630.29

Western Coalfields Ltd (WCL)

SL NO	Coalfield	Block/GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
1	W V	BALLARPUR	31.79	0.00	0.00		55.96					16.52
2	W V	BALLARPUR EAST	0.00	0.00	61.78		0.52					0.00
3	W V	BALLARPUR N.W. EXTN.	0.00	0.00	35.00		0.80					2.42
4	W V	DHUPTALA			4.63		12.78					6.23
5	W V	DHUPTALA DEEP			0.00		10.40					54.60
6	W V	DHUPTALA DEEP EXTN.	15.00	57.00	0.00		0.00					0.00
7	W V	SASTI										
8		MATHRA			40.92		9.30					14.71
9	W V	MATHRA DIPSIDE		109.00	0.00							0.00
10, 11, 12	W V	PAUNI COMBINED (Gauri+Pauni Extn+Pauni III)			89.07		26.43					86.87
13	W V	GAURI DEEP (GAURI CENTRAL)		47.00	9.40		39.94	52.00				7.64
14	W V	WIRUR CHINCHOLI			32.46		3.43					2.11
15	W V	HINDUSTAN LALPETH/ MAHAKALI / RAYATWARI			0.00		79.57	14.54				17.19
16	W V	DURGAPUR		0.00	0.00		0.00	36.44				32.16
17	W V	DURGAPUR EXTN		0.00	0.00	139.83	24.50	47.67				
18	WV	Padmapur Motaghat			0.00	6.00	18.81					35.91
19	WV	Visapur			0.00		10.15					22.18

Western Coalfields Ltd (WCL)

SL NO	Coalfield	Block/GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
20	WV	BHATADI										
	WV	BHATADI NORTH WEST										
		BHATADI NORTH WEST EXTN.		0.00	29.03	1.61	13.56	29.89				68.18
21	WV	MUGOLI EXTN.			0.00		10.84					44.06
22	WV	MUGOLI										
	WV	MUGOLI NIRGUDA COMBINED		108.95	0.00		62.42					48.69
23	WV	KOLGAON SAWANGI		99.51								0.00
24	WV	KOLGAON		5.00	3.47		2.04					15.85
25	W V	NAKODA			22.85		2.06					18.57
26	WV	GHUGHUS/ NAKODA			1.14		55.16	18.57				3.38
27	WV	BELLORA										
	W V	BELLORA DEEP			72.92		7.88					23.42
28	W V	NILJAI			0.00		19.15					8.68
29	W V	NILJAI DIPSIDE		19.35	32.79		10.63					45.30
30	W V	UKNI			0.00		10.55					0.00
31	W V	UKNI DEEP EXTN.										
32		UKNI EXTN. SOUTH		0.00	0.00	30.00	6.10					21.95
33	W V	PIMPALGAON										
	W V	PIMPALGAON DEEP			40.33		6.85					13.92
34	W V	KOLAR PIMPRI										
	W V				0.00		17.84					37.56
35	W V	JUNAD		14.00	57.92		1.69					4.46

Western Coalfields Ltd (WCL)

SL NO	Coalfield	Block/GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
36	W V	RAJUR	17	55.86	36.63		142.81					61.59
37	W V	PISGAON										
38	W V	CHINCHALA										
39	W V	CHICKALGAON										
40,41	W V	WANI-MANDAR		10.11	47.035							
42	W V	GHONSA		0.00	0.00	3.00	33.26					13.89
	W V	GHONSA DIP SIDE EXTN.										
	W V	GHONSA NW										
43	WV	PARSODA			3.07		1.96					8.33
44	WV	BORDA & BORDA EXTN. COMBINED			212.09							0.00
45	WV	TELWASA			7.90		2.02					2.67
46	WV	DHURWASA & EXTN.			0.00		0.45					2.78
47	WV	JUNA KUNADA		8.00	1.71		9.59					5.10
	WV											
48	WV	KUNADA (CHARGAON OC)			0.00		1.87					0.00
49	WV	CHARGAON (SIRNA OC)			0.00		2.27					0.00
50	WV	NAVIN KUNADA AND EXPANSION			0.00		6.30					1.85
51	WV	NEW MAJRI			0.00		77.26	1.16				22.55
52	WV	BHANDAK / BHANDAK EAST	58.15	8.22								0.00
53	WV	YEKONA - I	0.00	0.00	17.65		1.18					5.32
54	WV	YEKONA - I EXTN.	0.00	0.00	16.78		1.40					6.05
55	WV	YEKONA - II	0.00	45.00	22.55		2.52					10.75
56	WV	YEKONA - II EXTN.	0.00	0.00	27.14		4.43					18.90
57	WV	KONDA HARDOLAI	0.00	55.00	0.00		0.00					0.00
58	WV	TAKLI-JENA - BELLORA (W)	0.00	3.00	20.00		0.00					0.00
SUB-TOTAL WARDHA VALLEY			121.94	645.00	946.27	180.44	806.67	200.28	0.00	0.00	0.00	812.33
59	BANDER	Murpar & Murpar Extn.		1.00	7.90		4.10					1.62
60	BANDER	Murpar West			0.00		198.77					62.00
61	BANDER	Bhansuli										
62	BANDER	Suramanjiri (East)										
63	BANDER	Gokul(Nand-II)	0.00	0.00	10.00		3.26					13.74
64	BANDER	Nand-I	0.00	0.00	0.00		32.94					14.06

Western Coalfields Ltd (WCL)

SL NO	Coalfield	Block/GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
65	BANDER	Makardhokra-I	0.00	0.00	20.00		2.26					22.74
66	BANDER	Makardhokra-II										
	BANDER				12.57		1.38					1.65
67	BANDER	Makardhokra-III			32.04		9.20					82.76
68	UMRER	Umrer & Umrer South			0.00		18.05					19.79
SUB-TOTAL BANDER/UMRER			0.00	1.00	82.51	0.00	269.96	0.00	0.00	0.00	0.00	218.37
69	KAMPTEE	KAMPTEE COLLIERY			0.00		67.75					24.85
70	KAMPTEE	KAMPTEE OC			8.00		34.83					0.00
71	KAMPTEE	INDER			38.66		26.03					7.88
72	KAMPTEE	GONDEGAON- GHATROHAN										
	KAMPTEE			0.00	0.00		25.19					24.41
73	KAMPTEE	BINA	0.00	8.00	51.58		3.31					14.11
74	KAMPTEE	SINGHORI	0.00	20.00	56.62		2.73					11.65
75	KAMPTEE	SILEWARA	0.00	78.09	45.14		34.76					13.35
76	KAMPTEE	PIPLA/KANHAN/ WALNI	0.00	17.00	50.48		9.52					4.62
77	KAMPTEE	PATANSAONGI	0.00	29.00	31.50		9.64					11.80
78	KAMPTEE	SAONER PHASE-I & EXTENSION										
79	KAMPTEE	SAONER PHASE-III (NILGAON)		0.00	0.00	1.08	105.16					61.57
80	KAMPTEE	SAONER PHASE-II (WAGHODA)	0.00	0.00	4.26		29.09					18.65
81	KAMPTEE	SAONER IV	0.00	12.00	10.00		0.00					0.00
82	KAMPTEE	ADASA	0.00	7.84	0.00	1.16	8.30					3.88
83	KAMPTEE	ADASA EXTN.	0.00	0.00	0.00		43.00					0.00
SUB-TOTAL KAMPTEE			0.00	171.93	296.24	2.24	399.32	0.00	0.00	0.00	0.00	196.78
84	P K	Eklehra UG		0.00	5.00		16.25					0.03
85	P K	Pench OC Patches		0.00	0.00	0.35	2.80					0.00
86	P K	Newton Chikli A&B	0.00	0.00	0.00		11.00					0.00
87	P K	Barkui	0.00	0.00	0.00		4.66					1.27
88	P K	Chandameta	0.00	0.00	0.00		1.00					
89	P K	East Donger Chikli (EDC)	0.00	0.00	0.00	3.00	4.00					
90	P K	Ganpati Incline	0.00	0.00	0.00		8.00	0.37				
91	P K	Mahadeopuri	0.00	0.00	4.09		0.81					1.92
92	P K	Sial Ghogri	0.00	0.00	30.39		0.00					
93	P K	Khirshado Extn	0.00	0.00	50.00		0.00					
94	P K	Gajandoh	0.00	0.00	3.54		5.46					

Western Coalfields Ltd (WCL)

SL NO	Coalfield	Block/GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
95	P K	Rawanwara Khas										
96	P K	Rawanwara North (CIL PART)										
97	P K	Sirgori Khurd			0.00		79.67	2.54				
98	P K	BRAHMPURI (CIL PART)			0.00		38.15					5.07
99	P K	Vishnupuri-I&II			0.00		51.77					14.98
100	P K	Sirgora (Shivpuri UG)		0.00	0.00	12.03	48.34					3.02
101	P K	Haranbhata & Extn.			0.00		7.00					0.00
102	P K	Thesgora block-A										
				3.00	15.21		38.71					13.20
103	P K	Thesgora-C	40.00									
104	P K	Urdhan										
105	P K	Magrahi										
	P K	Jamunia		0.00	0.00	9.03	27.29					77.59
106	P K	Jamunia		0.00	7.01		47.54					22.76
107	P K	Naheria	0.00	0.00	17.74		21.60					9.87
108	P K	Dhankasa	0.00	0.00	15.86		30.43					17.71
109	P K	Dhanwa	0.00	164.00	0.00		0.00					0.00
110	P K	Tandsi North										
111	P K	Tandsi South	3.00		20.47		18.86					13.17
112	P K	Damua Rakhikol Kalichappar			0.00		19.00					0.00
113	P K	Nandan			6.05		8.91					
114	P K	Bansi/Hardol patch										
	P K				0.00		6.42					0.57
115	P K	Bhakra			6.38		7.32					3.30
116	P K	Jharna & Jharna Extn										
117	P K	Datla West			0.00		33.19					0.87
118	P K	Datla East										
119	P K	Ghorawari					6.02					2.19
120	P K	Damua East	0.00	0.00	0.00		3.75					3.55
121	P K	New Chikalmaw	0.00	9.00	10.00		0.00					0.00
122	P K	Sukri	0.00	0.00	27.00		0.00					0.00
123	P K	Sharda	0.00	0.00	0.00	10.00	1.46					7.54
124	P K	Tatarwara		5.00								0.00
	P K	Ambara										
125	P K				0.00		10.00	1.05				1.54
126	P K	Mohan Incline			0.00		11.00					0.00
127	P K	Dhau Extension	20.00									0.00
128	P K	Maori			0.00		1.67					1.58
129	P K	Ambara Surkri (N)										
SUB-TOTAL PENCH KANHAN			63.00	181.00	218.74	34.41	572.08	3.95	0.00	0.00	0.00	201.74

Western Coalfields Ltd (WCL)

SL NO	Coalfield	Block/GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
130	PKD	Sarni & Sarni Extn (Dhasar)										
	PKD				1.95		21.47					1.94
131	PKD	Pathakhera	0.00	0.00	0.00		29.81					0.00
132	PKD	Satpura	0.00	0.00	0.00		20.16					
133	PKD	Chattarpur-II	0.00	0.00	0.00		6.76					1.51
134	PKD	Chattarpur-I & Extn.	0.00	0.00	0.00	6.00	25.01					7.50
135	PKD	Shobhapur	0.00	0.00	0.00	4.00	4.43					2.25
136	PKD	Tawa	0.00	0.00	0.00		17.15					8.53
137	PKD	Tawa Extn.										
	PKD				0.00		33.08					16.37
138	PKD	Gandhigram		20.00	0.00		34.20					27.63
	SUB-TOTAL PATHAKHERA		0.00	20.00	1.95	10.00	192.07	0.00	0.00	0.00	0.00	65.73
	TOTAL		184.94	1018.93	1545.71	227.09	2240.10	204.23	0.00	0.00	0.00	1494.94

South Eastern Coalfields Ltd (SECL)

Sl No	Coalfield	Block(GR)	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
1	JOHILLA	Pinoura			17.80		5.62					4.10
2	JOHILLA	Lohangi			0.00		1.43					4.74
3	JOHILLA	Kanchan			4.48		0.65					2.15
4	JOHILLA	Kanchan West			11.04		0.00					0.00
5	JOHILLA	Pali *		1.78	2.74		7.22					2.45
6	JOHILLA	Birsingpur		1.45	10.99		20.90					1.49
7	JOHILLA	Nawrajabad Colly.		0.00	0.10		2.80	3.05				
8	JOHILLA	NW of Nowrozabad Colliery *		0.00	0.91		2.70	0.00				
	Sub-Total		0.00	3.23	48.06	0.00	41.32	3.05	0.00	0.00	0.00	14.92
9	UMARIA	Piparia			57.93		1.21					2.73
10	UMARIA	Umaria(N)		3.59	62.45		2.19					7.23
	Sub-Total		0.00	3.59	120.38	0.00	3.40	0.00	0.00	0.00	0.00	9.96
11	JHILIMILI	Katkona	13.52	15.62	54.81		11.68					13.82
12	JHILIMILI	Katkona Southern Sub-Block										
13	JHILIMILI	Girjapur										
					29.55		31.76					7.80
	Sub-Total		13.52	15.62	84.36	0.00	43.44	0.00	0.00	0.00	0.00	21.62
14	BISRAPUR	Badauli		0.26	3.17		6.11	16.00				
15	BISRAPUR	Amba		0.00	5.03		1.48	2.44				
16	BISRAPUR	Balrampur Incline Extn. Block			0.04		12.06					5.22
17	BISRAPUR	Bisrampur OC *		0.00	0.00		18.00					0.00
18	BISRAPUR	Nawapara		0.00	30.42		13.78					5.99
19	BISRAPUR	Bhatgaon Colly.			1.05		7.20					7.90
20	BISRAPUR	Bhatgaon Dipside			0.88		33.12					11.10
21	BISRAPUR	Sendupara			67.32		13.06					9.04
22	BISRAPUR	Pathakpur		35.27	13.89		7.27	14.00				
23	BISRAPUR	Khanookulhari South(Badauli-III) *		23.15	0.00		0.00					0.00
24	BISRAPUR	CHAURA (Mahan II)		1.42	18.91		1.69					11.88
25	BISRAPUR	Jagannathpur Sub Block (MahanIII&IV)		0.00	11.18		6.11					55.89
26	BISRAPUR	Nawapara E *		4.87	30.42		0.00					0.00
27	BISRAPUR	Shivsagar Block	10.00	0.00	0.00		0.00					0.00
28	BISRAPUR	Madan Nagar Block		0.00	0.00		123.28					0.00
29	BISRAPUR	Madan Nagar North Sub block, Mahan-I&II Block		0.00	0.00		136.88					0.00
30	BISRAPUR	Tulsi Bolck-A (Gangapur)		0.00	0.00		32.91					0.00
	Sub-Total		10.00	64.97	182.31	0.00	412.95	32.44	0.00	0.00	0.00	107.02
31	LAKHANPUR	Amgaon		0.00	56.10		2.69					23.03
32	LAKHANPUR	Ketki		0.00	69.09		4.30					10.99
33	LAKHANPUR	Rehar West(Mani&Jogi)			46.52		51.52					21.83

South Eastern Coalfields Ltd (SECL)

SI No	Coalfield	Block(GR)	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
34	LAKHANPUR	Rehar East(Binkara)		2.66	9.56		1.47					10.88
35	LAKHANPUR	Amera		3.35	3.54		2.50					21.67
36	LAKHANPUR	Jamdai-Gumgara		0.00	110.58		0.00					0.00
37	LAKHANPUR	Pendarki-Parsodikalan		63.00	0.00		0.00					0.00
	Sub-Total		0.00	69.01	295.39	0.00	62.48	0.00	0.00	0.00	0.00	88.39
38	SENDURGARH	Vijay West			0.24		74.15					21.65
39	SENDURGARH	Vijay East		58.00								
	Sub-Total		0.00	58.00	0.24	0.00	74.15	0.00	0.00	0.00	0.00	21.65
40	KORBA	Banki & surakachar *										
41	KORBA	South of Surakachar										
42	KORBA	Southern Extn of Surakachhar Colliery			57.65		39.40					1.95
43	KORBA	Area South West of Banki Colliery										
44	KORBA	Balgi *										
45	KORBA	South of Balgi		8.09	40.07		17.00					6.91
46	KORBA	Balgi (New Surakachar) Mine										
47	KORBA	Dhelwadih		18.69	139.23		11.00					11.26
48	KORBA	Bagdeva		0.00	26.46		23.75					10.04
49	KORBA	Saraipali(Bud-bud)		0.00	47.19		3.50					31.50
50	KORBA	Kartali		0.00	30.93		0.84					7.60
51	KORBA	Manikpur Quarry Extension Area		0.00	94.67		18.17					91.15
52	KORBA	Malgaon Sector Dipka (DIPKA Block)		8.96	200.47		84.85					469.47
53	KORBA	Hardi(Dipside of Dipka)										
54	KORBA	Gevra										
55	KORBA	Ponri		14.54	45.08		148.64					851.38
56	KORBA	Naraibodh-I										
57	KORBA	Eastern Sector of Jatraj (Kusmunda OC)										
58	KORBA	Resdi(Dipside of Kusmunda)			141.95		130.00					963.24
59	KORBA	Sonpuri										
60	KORBA	Kesla		9.12	11.33		0.00					0.00
61	KORBA	Thakurkheta		60.12								0.00
62	KORBA	Kartali East Block		1.56	6.54		5.33					47.99
63	KORBA	Jhagraha Dumardih Area			23.06							0.00
64	KORBA	Lachhmanband Block		1.23	9.39							0.00
65	KORBA	Rajgamar		12.48	12.00		6.76	0.08				6.15
66	KORBA	Dipside Of Kusminda To Dipika		1000.00								0.00
67	KORBA	Naraibodh-II	0.00	0.00	670.57							0.00
68	KORBA	East Of Manikpur	32.00	168.00	0.00							0.00
69	KORBA	South Of Manikpur	32.00	168.00	0.00							0.00
	KORBA	Noonbirra (Area between Hardi & Kartali)	0.00	1.54	44.56							0.00
	Sub-Total		64.00	1472.33	1601.15	0.00	489.24	0.08	0.00	0.00	0.00	2498.64

South Eastern Coalfields Ltd (SECL)

SI No	Coalfield	Block(GR)	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
70	MAND-RAIGARH	Chhal		40.13	0.00		14.61					151.36
71	MAND-RAIGARH	Barod			85.27		3.50					19.24
72	MAND-RAIGARH	Rai East Block *		22.97	140.04		21.93	198.07				
73	MAND-RAIGARH	Rai West Block										
74	MAND-RAIGARH	Bijari	0.00	0.00	52.19		1.95					17.55
75	MAND-RAIGARH	Durgapur-Shahpur	0.00	0.00	35.47		15.61					140.50
76	MAND-RAIGARH	Singhmouza-Jampali	0.00	0.00	111.46		3.48					31.30
77	MAND-RAIGARH	Kusumghat	0.00	0.00	99.19		0.00					0.00
78	MAND-RAIGARH	Pelma *	0.00	40.43	147.24		25.54					229.85
79	MAND-RAIGARH	Porda *	0.00	66.39	238.44		0.00					0.00
80	MAND-RAIGARH	Chimtapani	0.00	10.05	234.74		0.00					0.00
81	MAND-RAIGARH	EAST OF BASIN FATEHPUR	0.00	899.89	0.00		0.00					0.00
82	MAND-RAIGARH	BASIN FATEHPUR	0.00	1364.72	0.00		0.00					0.00
83	MAND-RAIGARH	BAISI	0.00	150.00	0.00		0.00					0.00
84	MAND-RAIGARH	SHERBAND	0.00	150.00	0.00		0.00					0.00
85	MAND-RAIGARH	WEST OF BAISI	0.00	350.00	0.00		0.00					0.00
86	MAND-RAIGARH	TARAIMAR	0.00	0.00	211.37		0.00					0.00
	Sub-Total		0.00	3094.58	1355.41	0.00	86.62	198.07	0.00	0.00	0.00	589.80
87	TATAPANI-RAMK	Duba		87.81								0.00
88	TATAPANI-RAMK	Amartipur		45.86								0.00
89	TATAPANI-RAMK	Mitgain Bhormi (Tatapani)		350.00								0.00
	Sub-Total		0.00	483.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	SOHAGPUR	Bakulmuni			0.00		13.75	5.97				
91	SOHAGPUR	Amadand(East)			46.58		0.00					
92	SOHAGPUR	Amadand(West)			40.58		0.00					
93	SOHAGPUR	Amadand OC			9.83		1.90					33.65
94	SOHAGPUR	Bartarai			2.20		9.62					8.85
95	SOHAGPUR	Amlai Colly & part of Amlai A		10.91	8.81		7.08					0.00
96	SOHAGPUR	Amlai Colly & its Extn.										
97	SOHAGPUR	Eastern Part of Amlai Colliery		0.60	1.29		4.21					0.00
98	SOHAGPUR	Bakaho		0.00	0.00		7.70					8.20
99	SOHAGPUR	Bangwar		1.10	5.34		14.78					6.68
100	SOHAGPUR	Bhadra Colly & Extn.		0.00	4.00		1.24					10.13
101	SOHAGPUR	Kapildhara		0.00	0.05		0.54					9.17
102	SOHAGPUR	Sheetaldhara		0.00	0.00		17.21					7.18
103	SOHAGPUR	Bijuri Colly. Area		3.57	2.47		8.20					0.85
104	SOHAGPUR	Dhanpuri (OC & UG)										
				1.68	0.00		8.73					30.69
105	SOHAGPUR	Dhanpuri Minor Scheme of Burhar No.1 & No.2			5.90		3.05					0.00
106	SOHAGPUR	Kotma Colly. adjoining southern portion of Jamuna Colly. *		7.92	5.06		7.60					0.00

South Eastern Coalfields Ltd (SECL)

Sl No	Coalfield	Block(GR)	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
107	SOHAGPUR	Rajnagar, Dola, West & north JKD			77.81		22.71					22.91
108	SOHAGPUR	Karkati East			17.57		0.00					0.00
109	SOHAGPUR	Kulharia Nala		0.00	0.00		3.14					27.50
110	SOHAGPUR	Rungta Coll. W. Extn.		6.34	0.00		1.89					0.00
111	SOHAGPUR	Meera Incline *		0.00	0.00		2.62					1.08
112	SOHAGPUR	Govinda Colliery *		0.00	0.00		2.65					0.00
113	SOHAGPUR	Area West of Jamuna OC *		0.00	5.51		1.71					0.00
114	SOHAGPUR	Jamuna UG *		0.00	0.00		5.16					3.66
115	SOHAGPUR	Beheraband North Extn.(Beheraband II & III)		0.00	74.69		21.87					22.71
116	SOHAGPUR	Beheraband		0.00	55.49		0.00					0.00
117	SOHAGPUR	Damini		0.00	0.00		4.59					10.67
118	SOHAGPUR	Jhiria		4.35	0.00		11.47					12.30
119	SOHAGPUR	West JKD *		4.48	0.00		13.33	3.74				
120	SOHAGPUR	Haldibari		6.32	24.59		6.96					11.14
121	SOHAGPUR	Khairaha		0.00	8.80		20.44					10.22
122	SOHAGPUR	West karkati		5.08	48.02		9.86					1.37
123	SOHAGPUR	S.JKD seam-4		0.00	6.57		9.80					6.68
124	SOHAGPUR	Khodri		0.00	31.01		0.00					0.00
125	SOHAGPUR	Ura		0.00	63.07		0.00					0.00
126	SOHAGPUR	No Man's Land & adjoining area of Kotma Colly.		0.00	0.00		37.12					0.00
127	SOHAGPUR	Batura U/G		0.00	5.35		0.00					0.00
128	SOHAGPUR	Batura West Extn.		0.00	20.60		0.00					0.00
129	SOHAGPUR	Batura OC		0.00	-32.27		8.03					65.50
130	SOHAGPUR	Batura Extn. Block		0.00	32.27		0.00					0.00
131	SOHAGPUR	Bodri Block			13.70		19.83	22.02				
132	SOHAGPUR	Bodri North Block										
133	SOHAGPUR	Bijuri Extn Block	0.00	0.00	51.60		15.84					0.86
134	SOHAGPUR	Rungta Colliery	0.00	0.00	0.00		7.08					0.00
135	SOHAGPUR	Dulhara	0.00	30.00	0.00		0.00					0.00
136	SOHAGPUR	Jarwahi Area	0.00	3.18	0.00		0.00					0.00
137	SOHAGPUR	Kanchanpur Area	0.00	30.00	0.00		0.00					0.00
138	SOHAGPUR	Pakaria East	0.00	50.00	0.00		0.00					0.00
139	SOHAGPUR	Pakaria West	0.00	50.00	0.00		0.00					0.00
140	SOHAGPUR	Keshwahi-Gerua Area	30.00	0.00	0.00		0.00					0.00
141	SOHAGPUR	Patra	50.00	0.00	0.00		0.00					0.00
142	SOHAGPUR	Manpura	0.00	50.00	0.00		0.00					0.00
143	SOHAGPUR	Baratara	50.00	0.00	0.00		0.00					0.00
144	SOHAGPUR	Dhanpura	0.00	100.00	0.00		0.00					0.00
145	SOHAGPUR	Changera	0.00	14.34	0.00		0.00					0.00
146	SOHAGPUR	Western part of Rungta Coll. And its W Ext.		0.00	0.00		16.14					0.00

South Eastern Coalfields Ltd (SECL)

SI No	Coalfield	Block(GR)	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
147	SOHAGPUR	Singhpur	0.00	20.00	0.00		0.00					0.00
148	SOHAGPUR	Mithauri	0.00	120.00	0.00		0.00					0.00
149	SOHAGPUR	Kalmania	0.00	120.00	0.00		0.00					0.00
150	SOHAGPUR	Kewai	0.00	30.00	0.00		0.00					0.00
151	SOHAGPUR	Behraband(West)	0.00	80.00	0.00		0.00					0.00
152	SOHAGPUR	AMADAND OC	0.00	0.00	160.59		0.00					0.00
153	SOHAGPUR	DHANPURA EAST	0.00	0.00	24.70		0.00					0.00
154	SOHAGPUR	Karkati North	0.00	0.00	25.65		0.00					0.00
	Sub-Total		130.00	749.86	847.43	0.00	347.85	31.73	0.00	0.00	0.00	312.00
155	SONHAT	(i)Churcha Thick Zone			39.77		9.70					34.06
156	SONHAT	(ii)Churcha Thin Zone										
157	SONHAT	Churcha West										
158	SONHAT	Churcha North										
159	SONHAT	Shivpuri		4.53	0.00		0.00					0.00
160	SONHAT	Nagar Block		100.00	0.00		0.00					0.00
161	SONHAT	Thin Zone of Plateau Block		0.00	1.88		0.00					0.00
	Sub-Total		0.00	104.53	41.65	0.00	9.70	0.00	0.00	0.00	0.00	34.06
162	CHIRIMIRI	West Chirimiri Colly.		0.00	0.83		3.50					0.00
163	CHIRIMIRI	Chirimiri Hill			12.19		8.11					58.40
164	CHIRIMIRI	Chirimiri Colly. Leasehold										
165	CHIRIMIRI	North Chirimiri		2.10	0.00		2.32					0.00
166	CHIRIMIRI	NCPH West		1.45	0.00		2.52					3.18
167	CHIRIMIRI	Bartunga Hill		0.00	0.00		12.16	18.77				
168	CHIRIMIRI	Anjan Hill										
169	CHIRIMIRI	New Chirimiri Ponri Hill (NCPH) Leasehold										
170	CHIRIMIRI	Kurasia-sonawani			15.35		15.26	7.33				0.00
171	CHIRIMIRI	Duman			44.63							0.00
	Sub-Total		0.00	3.55	73.00	0.00	43.87	26.10	0.00	0.00	0.00	61.58
	Total		217.52	6122.94	4649.37	0.00	1615.03	291.47	0.00	0.00	0.00	3759.63

Northern Coalfields Limited(NCL)

Sl.No.	Coal Field	Block/GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
1	SINGRAULI	Jhingurdah Top seam / Dec'1977										
	SINGRAULI	Jhingurdah Bottom Seam / Jun'2006										
	SINGRAULI	Jhingurda Deep** / UE		345.00	0.00		7.03	15.1				4.13
2	SINGRAULI	Gorbi / Dec'70										
	SINGRAULI	Gorbi (re-assessment of Turra seam) / Dec'96										
3	SINGRAULI	Block B / Jun'89			5.30		6.19					66.54
4	SINGRAULI	Block B Extn / Jan'09			270.31		80.46					78.40
	SINGRAULI	Block B Extension Ph-II / UE		20.00	0		0.00					0.00
5	SINGRAULI	Semaria / Dec'89			0		9.46	12.82				
6	SINGRAULI	Amlohri / Nov'86			0		14.09					214.74
7	SINGRAULI	Nigahi / Jul'81										
8	SINGRAULI	Nigahi North Extn / Mar'2003			0.00		78.70					317.51
9	SINGRAULI	Nigahi Dip Extn / Nov'2010			283.75							0.00
10	SINGRAULI	Jayant / Dec'1975										
11	SINGRAULI	Mehrauli E & W / Mar'2002			315.22		42.12					315.42
12	SINGRAULI	Mehrauli North / Jan'1996			89.82							0.00
13	SINGRAULI	Dudhichua / 1979										
14	SINGRAULI	Bundela / Feb'1998			36.22		41.90					370.21
15	SINGRAULI	Khadia / Oct'1980										
16	SINGRAULI	Ruhela**/ Feb'2011			141.30		62.32	15.55				229.12
17	SINGRAULI	Marrak / Nov'1999			39.59		21.85	2.26				81.89
18	SINGRAULI	Northern & Central Part of UP Block / Dec'1973					8.88					5.54
19	SINGRAULI	Chandela / Jan'1999										
20	SINGRAULI	Kakri North / Feb'2009			25.00		63.50	141.66				84.45
22	SINGRAULI	Tipa-Jharia** / UE		764.85	0		35.52	39.63				
23	SINGRAULI	Bijul** / UE		980.00	0		0.00					0.00
24	SINGRAULI	Morwa** / UE		245.00	0		0.00					0.00
Sub-Total			0.00	2354.85	1206.51	0.00	472.02	227.02	0.00	0.00	0.00	1767.95
TOTAL OF NCL (Mt)			0.00	2354.85	1206.51	0.00	472.02	227.02	0.00	0.00	0.00	1767.95

Mahanadi Coalfields Limited(MCL)

Sl No	Coalfield	Block/GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
1	Ib- Valley	Basundhara East					51.87					5.99
2	Ib- Valley	Basundhara West										
3	Ib- Valley	Belpahar-I ,II & III		0.00	0.00		395.43					1168.26
4	Ib- Valley	Block-IV and adjoining area		103.41	20.9		2.15	3.26				
		Northern Part of Orient										
5	Ib- Valley	Dip Side of Kulda			542.53							
6	Ib- Valley	Garjanbahal					33.5					229.25
8	Ib- Valley	Kulda					99.34					317.44
9	Ib- Valley	Lajkura OCP & Dip Extn.*		505.10	51.46		18.82					62.32
10	Ib- Valley	Madhupur		70.44								
11	Ib- Valley	Orient Leasehold		87.9	48.88		8.53					47.69
12	Ib- Valley	Orient West (Gautam Dhara)			72.42							
	Ib- Valley	Samleshwari & Kudopalli Comb. (including Rampur, Rampur West Extn. & Kudopalli)-GR in 2012-13*	80.16	219.25	369.75		12.22	14.47				
13	Ib- Valley						4.88	6.40				
14	Ib- Valley						5.25					42.16
15	Ib- Valley	Siarmal & Siarmal Extension					346.55					1520.27
16		Banapatra										
	Sub-Total		80.16	986.10	1105.94	0.00	978.54	24.13	0.00	0.00	0.00	3393.38
17	Talcher	Ananta										
18		Ananta Extn.		6.53	361.43		93.88					346.46
19		Subhadra East										
20	Talcher	Arkhapal-A			578.94							
21	Talcher	Balabhadra			857.08							
22	Talcher	Bharatpur (North)										
23		Padma		72.35	0.00		82.88					229.36
24		Bharatpur (South)										
25	Talcher	Jagannath (Seam-II and above)	0.00	0	0		15.82					0.00
26	Talcher	Bhubaneswari	0.00	0	344.24		13.09					339.76
27	Talcher	Chendipada OCP & Baitarni East	0.00	375	21.83		1.27					0.15
28	Talcher	Deulbera	0.45	2.45	0		2.09					0.00
29	Talcher	Gopalprasad (East) & Eastern part of Gopalprasad West	0.00	0	0		263.99					492.11
30	Talcher	Handidua	0.00	0	0		1.52					0.00
31	Talcher	Jagannath Seam-I	0.00	0	20.78		34.32					25.51
32	Talcher	Kalinga East										
33	Talcher	Revised Kalinga West	0.00	0	0		491.37					916.83
34	Talcher	Konark	700.00	0	0		0					0.00
35	Talcher	Kaniah	0.00	73.85	11.83		97.42					657.51
36	Talcher	Lingaraj	0.00	0	0		30.29					286.50
37	Talcher	Nandira	0.00	0	0	17.58	17.38	7.70				
38	Talcher	Nataraj	0.00	27.5	8.09		12.81					14.87
39	Talcher	Neelachal(Kaniah-II)	0.00	15.83	550.65		82.5					267.50
40	Talcher	Sakhigopal-A	0.00	0	556.77		0					0.00
41	Talcher	South Balanda	0.00	0	0		4.05					0.00
42	Talcher	Subhadra West	0.00	693.18	0		0					0.00
43	Talcher	Talcher	0.00	0	0		11.8	6.79				
	Sub-Total		700.45	1266.69	3311.64	17.58	1256.48	14.49	0.00	0.00	0.00	3576.54
	TOTAL (Mt)		780.61	2252.79	4417.58	17.58	2235.02	38.63	0.00	0.00	0.00	6969.93
	GRAND TOTAL (Mt)		9742.20						6969.93			

North Eastern Coalfields (NEC)

Sl. No.	Coal Field	Block/GR	Coal Resource (Million Tonnes)						Coal Reserve (Million Tonnes)			
			3,3,3	3,3,2	3,3,1	2,2,2	2,2,1	2,1,1	1,2,2	1,2,1	1,1,2	1,1,1
1	MAKUM	Ledo			0.00		4.54					1.19
2	MAKUM	Tirap			24.57		13.53					18.31
3	MAKUM	Tipong			42.87		10.25					19.02
4	MAKUM	Lekhapani			14.48		1.22	5.19				
5	MAKUM	Tikak Opencast			94.97		2.70					23.91
6	MAKUM	Jagun		9.66	14.50		4.00					15.00
	Sub Total of Makum		0.00	9.66	191.39	0.00	36.24	5.19	0.00	0.00	0.00	77.43
7	Dilli-Jeypore	Dilli Sector										
8	Dilli-Jeypore	Jeypore Sector	0.00	17.2	13.30		24.30					16.21
9	Dilli-Jeypore	PQ			0.00		0.22					0.99
	Sub Total Dilli-Jeypore		0.00	17.20	13.30	0.00	24.52	0.00	0.00	0.00	0.00	17.20
			0.00	26.86	204.69	0.00	60.76	5.19	0.00	0.00	0.00	94.63
	GRAND TOTAL (Mt)		297.49						94.63			