सत्यमेव जयते

कोल डाईरेक्टरी ऑफ इंडिया

COAL DIRECTORY OF INDIA

2012-13

कोयला सांख्यिकी

Coal Statistics

भारत सरकार
कोयला मंत्रालय
कोयला नियंत्रक का कार्यालय
कोलकाता

Government of India
Ministry of Coal
Coal Controller's Organisation
Kolkata





COAL DIRECTORY OF INDIA
2012 – 2013

Coal Statistics

GOVERNMENT OF INDIA
MINISTRY OF COAL
COAL CONTROLLER'S ORGANISATION
KOLKATA

COAL DIRECTORY OF INDIA 2012-13

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FOREWORD

Coal, a fossil fuel, is the largest source of energy, primarily used to produce electricity and heat through combustion. Coal gasification can be used to produce syn-gas, which can be further transformed into transportation fuel like gasoline and diesel. Coal can also be directly liquefied into diesel though highly sophisticated techniques. Coal liquefaction is one of the backstop technologies that could potentially limit escalation of oil prices and also coal will have a key role to discharge in the global energy mix.

The goal of coal mining is to economically remove coal from the ground. In a developing country like India, growth in energy consumption is entwined with the economic growth. Coal, being a relatively cheap energy resource in contrast to a very low hydrocarbon resource potential, remains the focus of attention of the energy planners ever since the oil crunch of the early seventies. For making a strategic coal sector plan for the country on a continuing basis, a sound data base is essential.

Coal controller's Organisation has been carrying out for the past several years the task of collection and dissemination of data related to the coal and lignite sector of the country to meet data requirement of the Ministry of Coal, related Ministries and Government Organisations, different research bodies etc. through its publications namely 'The Coal Directory of India' and 'Provisional Coal Statistics'. Coal Directory of India provides Coal and Lignite Statistics spreading over eleven sections covering some general economy data, brief history of coal sector in India, present status, reserve, production, dispatches, pit head closing stock, price, export and import, trends of coal consumption in power, steel and cement production, captive coal and lignite blocks, world coal statistics and brief colliery statistics.

The data presented in this Directory have been collected from different coal/lignite companies through a format designed by the Coal Controller's Organisation. We are grateful to different data supply agencies viz., all CIL Subsidiaries, SCCL and other coal companies, SAIL Units, International Energy Agency (IEA), Geological Survey of India(GSI), Directorate General of Commercial Intelligence and Statistics(DGCI&S), Central Statistical Organization (CSO), Central Electricity Authority, and Cement Manufacturer's Association for providing useful information so as to make the Coal Directory of India 2012-13 an exhaustive data-base related to coal & lignite.

The maintenance of relevant data, subsequent validation and updating and preparation of tables in a more presentable and concise form have been carried out by the Statistics Wing of the Coal Controller's Organisation.

Suggestions for further improvement are most welcome.

Kolkata :
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Section I

A. Historical Perspective

1.1 Coal Sector in India

1.1.1 Commercial use of coal in India is said to have started about two thousand years ago at places close to coal regions in the eastern part of the country. In 1774, Summer & Heatley applied to M/s. East India Company to raise coal in Raniganj coalfield along the Western Bank of river Damodar. However, coal mining did not receive adequate attention due to its inferior quality as compared to the quality of coal in UK. For some time, coal mining activities in India were at low ebb. However, coal mining received a thrust with the setting up of a rail link between Howrah and Raniganj in 1853.

1.1.2 The monopoly of M/s. East India Company was abolished in 1813 and this paved way for rapid inroad of private commercial organizations in coal sector too. In 1843, M/s. Bengal Coal Company Limited was registered as a first joint stock company. Steam engines were introduced during this period and demand of coal continued to grow.

1.1.3 Since 1920, a number of commissions & committees made observations on the question of conservation and winning of coal, safety of mines etc. which led to introduction of regulations and controls of the coal industry, in some form or other, in India. All the regulations and controls were directed towards state ownership of the coal mines in the country. Singareni Collieries Company Limited (SCCL) established in 1920 as a public limited company, has the distinction of being the first Government owned Coal Company in the country in 1945. In fact, in 1945, Nizam of Hyderabad bought majority of the shares of the company and brought the company under the State of Hyderabad. From 1945 to 1949, the Hyderabad Construction Company Limited worked as Managing Agent of SCCL. In 1949 this function was entrusted to Industrial Trust Fund by the then Government of Hyderabad. Pursuant to the reorganization of States in 1956, the controlling interest of the company devolved on the Government of Andhra Pradesh. Thus, SCCL became a Government

Company under the Companies Act in 1956. SCCL is now a joint undertaking of Government of Andhra Pradesh and Government of India sharing its equity in 51:49 ratio.

1.1.4 In 1956, National Coal Development Corporation (NCDC) came into existence as a Government of India Undertaking with the collieries owned by the railways as its nucleus. During the sixties, the coal industry passed through a period of cheap availability of oil. The situation, however, took a radical turn in the seventies due to spiraling up of oil prices resulting in hike in coal demand.

1.2 Nationalisation of Coal Mines.

1.2.1 Coal mines in India were nationalised in 1972-73 with the objectives of reorganising and restructuring of coal mines in the back drop of the then existing unsatisfactory mining conditions, violation of mine safety norms, industrial unrest, inadequate capital investments in mine development, reluctance to mechanise the mining, etc. It also aimed at meeting the long range coal requirements of the country.

1.2.2 The nationalisation was done in two phases, the first with the nationalization of the coking coal mines in 1971-72 and then with the nationalization of the non-coking

coal mines in 1973. The Coking Coal Mines (Emergency Provisions) Ordinance was promulgated by the Government of India on 16.10.1971 under which except the captive mines of TISCO and IISCO, the management of all coking coal mines was taken over by the Government. A new company called Bharat Coking Coal Limited was formed as a subsidiary company of Steel Authority of India Limited to manage the taken over mines. These mines were subsequently nationalisedw.e.f. 1.5.1972. Later on the management of 711 coal mines was also taken over by the Government with effect from 31.1.1973 and they were nationalisedw.e.f. 1.5.1973 and a new Government Company namely, Coal Mines Authority Limited (CMAL) with headquarters at Calcutta, was set up by the Government in May, 1973 to manage the non-coking coal mines. The CMAL was organised as a unitary structure on divisional pattern with four Divisions, the Central Division, the Eastern Division, the Western Division and the CMPDIL. The mines of erstwhile National Coal Development Corporation were brought under the Central Division of the CMAL. In September, 1975 Coal India Limited (CIL) was formed as a Holding Company with five subsidiaries namely Bharat Coking Coal Limited (BCCL), Central Coalfields Limited (CCL), Eastern Coalfields Limited (ECL), Western Coalfields Limited (WCL) and Central Mine Planning and Design Institute Limited (CMPDIL).

1.2.3 In view of the projected increase in production and investment contemplated for CCL and WCL group of coal mines and in view of their extensive geographical spread resulting in day to day administrative, technical and communication problems etc. two more coal companies, namely, Northern Coalfields Limited (NCL) with headquarters at Singrauli (Madhya Pradesh) and South Eastern Coalfields Limited (SECL) with headquarters at Bilaspur (Chhattisgarh) were formed w.e.f. 28.11.1985.

1.2.4 Considering the prospects of Orissa Coalfields, being the growth centre for the VIII and IX Plan periods, a new coal company was formed bifurcating South Eastern Coalfields Limited (SECL). The new company, Mahanadi Coalfields Limited (MCL) was incorporated on 3rd April, 1992 with its headquarters at Sambalpur (Orissa) as fully owned subsidiary of Coal India Limited to manage the Talcher and IB-Valley Coalfields in Orissa.

1.2.5 CIL have now 8 subsidiaries viz. Bharat Coking Coal Limited (BCCL), Central Coalfields Limited (CCL), Eastern Coalfields Limited (ECL), Western Coalfields Limited (WCL), South Eastern Coalfields Limited (SECL), Northern Coalfields Limited (NCL), Mahanadi Coalfields Limited (MCL) and Central Mine Planning and Design Institute Limited (CMPDIL). The CMPDIL is an engineering, design and exploration company set up for preparing perspective plan(s), rendering consultancy services and undertaking exploration and drilling work to establish coal reserves in the country and collection of detailed data for preparation of projects for actual mining. The other seven subsidiaries of CIL are coal producing companies.

1.2.6 CIL and its subsidiaries are incorporated under the Companies Act, 1956 and are wholly owned by the Central Government. The coal mines in Assam and its neighbouring areas are controlled directly by CIL under the unit North Eastern Coalfields.

1.3 Captive Coal Mining

1.3.1 Coal Mines (Nationalisation) Act, 1973 already excluded from its purview the captive coal mines of TISCO, IISCO & DVC. Further, considering the need to provide boost to thermal power generation and for creating additional thermal power capacity during VIIIth Five year Plan, the Government decided to allow private participation in the power sector. The Coal Mines (Nationalisation) Act, 1973 was amended on

9th June 1993 to allow coal mining by both private and public sectors for captive consumption for production of iron and steel, generation of power, washing of coal obtained from a mine and other end use, which would be notified by the Government from time to time. While cement production was allowed as an end use on w.e.f 05.03.1996, latest amendment on 12.07.2007 made production of Syn-gas obtained from coal gasification and coal liquefaction also as an end use. The restriction of captive mining does not apply to state-owned coal/mineral development undertakings like CIL, SCCL, Neyveli Lignite Corporation (NLC) coal blocks etc. and Mineral Development Corporations of the State Governments.

1.3.2 Till date coal mining is kept under the purview of public sector except captive mining for the approved end use industries viz., iron and steel, power, cement, washing of coal and coal gasification and liquefaction. Role and contribution of private sector captive coal mining, which has been very insignificant till recent past, has now acquired significance. Government further decided in its new mining policy to allow the State Government companies and undertakings to go for coal and lignite mining without the earlier restriction of isolated small pockets only.

1.4 Special dispensations to set up associated coal companies by coal blocks allocatees.

1.4.1 An end user having captive coal block can mine coal from the block either directly or through the following dispensations:

(a) A company engaged in any of the approved end-uses can mine coal from a captive block through an associated coal company formed with the sole objective of mining coal and supplying the coal on exclusive basis from the captive coal block to the end-user company, provided the end-user company has at least 26% equity ownership in the associated coal company at all times.

(b) There can be a holding company with two subsidiaries i.e. (i) a company engaged in any of the approved end-uses and (ii) an associated coal company formed with the sole objective of mining coal and supplying the coal on exclusive basis from the captive coal block to the end-user company, provided the holding company has at least 26% equity ownership in both the end-user company and the associated coal company.

1.4.2 till 31.3.2013, 218 coal blocks were allocated to different companies. Out of these 218 coal blocks, 47 have been de-allocated for non-performance and 7 blocks have been reallocated making effecting allocation of 178 coal blocks as on 31.3.2013.

1.5 Distribution and Marketing of Coal

1.5.1 A new coal distribution policy (NCDP) has been notified on 18.10.2007 with an objective to meet the demand of coal from consumers of different sectors of the economy, both on short and long term basis, in an assured, sustained, transparent and efficient manner with built-in commercial discipline. Apart from meeting the requirement up to a satisfaction level through commercially enforceable Fuel Supply Agreement (FSA), it also provides for dedicated source of supply through State Government nominated agencies, for consumers in small and medium sector, whose annual requirement does not exceed 4200 metric tonne. E-auction scheme has also been introduced to cater to some demands through e-auction.

1.5.2 Salient features of the New Coal Distribution Policy:

1. Existing classification of core and non-core sector is dispensed with. Each sector/ consumers would be treated on merit keeping in view regulatory provision applicable thereto and coal will be

supplied by CIL/SCCL through Fuel Supply agreement (FSA), a *legally enforceable buyer-seller coal supply agreements*.

2. Requirement of Defence and Railways will be made in full at notified price.
3. While for Power (utilities), including Independent Power Producers/ CPP and Fertiliser Sector, 100% of normative requirement of coal at notified price will be supplied, for other consumers this will be 75%.
4. Supply of coal to steel plants would be based on FSA and pricing would be on import parity pricing.
5. Consumers in small and medium sector, requiring coal less than 4200 tonnes annually will take coal either from state govt. notified agencies/NCCF//NSIC or from CIL/SCCL through FSA. CIL/SCCL will supply coal to the nominated agencies for such distribution.
6. Linkage system will be replaced by FSA.
7. New consumers of Power (U) /IPP/CPP/ Fertiliser/ Cement/ DRI plant will be issued Letter of Assurance (LOA), with a validity of 24 months, subject to prevailing norm, recommendation of concerned Ministry and 5% Earnest money deposit. On necessary progress of the plants, consumer may approach to CIL/SCCL for converting LOA into FSA.
8. Existing Standing Linkage Committee would continue to recommend LOA in respect of Power (U)/ IPP /CPP, Cement and Sponge Iron Plants including Steel.

1.6 Import of Coal

1.6.1 Present import policy allows coal to be freely imported under Open General License by the consumers themselves considering their needs. Coking coal is imported by Steel sector and coke manufacturers mainly on availability and quality consideration. Coast based power stations and cement plants are also importing non-coking coal on consideration of transport logistics, commercial prudence. In spite of hardening prices of both coking and non coking coal internationally and increase in ocean freight, large amount of coal continued to be imported.

1.7 Notified Price of Coal

1.7.1 Under the Colliery Control Order, 1945, the Central Government was empowered to fix the prices of coal grade-wise and colliery-wise. As per recommendations of Bureau of Industrial Costs and Prices and the Committee on Integrated Coal Policy, prices of different grades of coal had been subjected to deregulation since 22.3.96, in a phased manner. The pricing of coal has been fully deregulated after the notification of the Colliery Control Order, 2000 in place of Colliery Control Order, 1945.

B. Concepts, Definitions and Practices

1.8 Coal: Coal is a combustible sedimentary rock formed from ancient vegetation which has been consolidated between other rock strata and transformed by the combined effects of microbial action, pressure and heat over a considerable time period. This process is commonly called 'coalification'. Coal occurs as layers or seams, ranging in thickness from millimeters to many tens of metres. It is composed mostly of carbon (50–98 per cent), hydrogen (3–13 per cent) and oxygen, and smaller amounts of nitrogen, sulphur and other elements. It also contains water and particles of other inorganic matter. When burnt, coal releases energy as heat which has a variety of uses.

1.9 Classification of Coal

1.9.1 Coal refers to a whole range of combustible sedimentary rock materials spanning a continuous quality scale. For

convenience, this continuous series is often divided into two main categories, namely **Hard Coal** and **Brown Coal**. These are further divided into two subcategories as given below.

- **Hard Coal**
  - Anthracite
  - Bituminous coal
    - Coking coal
    - Other bituminous coal
- **Brown coal**
  - Sub-bituminous coal
  - Lignite

1.9.2 In practice, hard coal is calculated as the sum of anthracite and bituminous coals. Anthracite is a high-rank, hard coal used mainly for industrial and residential heat raising. Bituminous coal is a medium-rank coal used for gasification, industrial coking and heat raising and residential heat raising. Bituminous coal that can be used in the production of a coke capable of supporting a blast furnace charge is known as **coking coal**. Other bituminous coal, not included under coking coal, is also commonly known as **thermal coal**. This also includes recovered slurries, middling and other low-grade, higher-rank coal products not further classified by type.

1.9.3 Classifying different types of coal into practical categories for use at an international level is difficult because divisions between coal categories vary between classification systems, both national and international, based on calorific value, volatile matter content, fixed carbon content, caking and coking properties, or some combination of two or more of these criteria.

1.9.4 Although the relative value of the coals within a particular category depends on the degree of dilution by moisture and ash and contamination by sulphur, chlorine, phosphorous and certain trace elements, these factors do not affect the divisions between categories.

1.9.5 The International Coal Classification of the Economic Commission for Europe (UNECE) recognizes two broad categories of coal:

i) **Hard coal** – Coal of gross calorific value not less than 5700 kcal/kg (23.9 GJ/t) on an ash-free but moist basis and with a mean random reflectance of vitrinite of at least 0.6.

ii) **Brown coal** - Non-agglomerating coal with a gross calorific value less than 5700 kcal/kg (23.9 GJ/t) containing more than 31% volatile matter on a dry mineral matter free basis.

1.9.6 It should be stressed that the above classification system is based on the inherent qualities of the coal in question and not on the final use of the coal. In this way the classification system attempts to be objective and simple to apply.

1.10 Classification of Coal in India

1.10.1 In India coal is broadly classified into two types – Coking and Non-Coking. The former constitute only a small part of the total coal resources of the country. These two are further subdivided as follows on the basis of certain physical and chemical parameter as per the requirement of the industry.

1.10.2 **Coking Coal:**Coking coal, when heated in the absence of air, form coherent beads, free from volatiles, with strong and porous mass, called coke. Coking coal has coking properties and is mainly used in steel making and metallurgical industries.

1.10.3 **Semi Coking Coal:**Semi Coking Coal, when heated in the absence of air, form coherent beads not strong enough to be directly fed into the blast furnace. Such coal is blended with coking coal in adequate proportion to make coke. Clearly, Semi

Coking Coal has comparatively less coking properties than coking coal. It is mainly used as blendable coal in steel making, merchant coke manufacturing and other metallurgical industries.

1.10.4 **Non-Coking Coal:**Non-Coking Coal does not have coking properties and is mainly used for power generation. It is also used for cement, fertilizer, glass, ceramic, paper, chemical and brick manufacturing, and for other heating purposes.

1.10.5 **Washed Coal:** Processing of coal through water separation mechanism to improve the quality of coal by removing denser material (rocks) and high ash produces washed coal which has less ash, higher moisture, better sizing, better consistency, less abrasive, etc. The washed coking coal is used in manufacturing of hard coke for steel making. Washed non-coking coal is used mainly for power generation but is also used by cement, sponge iron and other industrial plants.

1.10.6 **Middlings and Rejects**: In the process of coal washing, apart from Clean Coal we also get two by-products, namely, Middlings and Rejects. Clean coal has low density whereas rejects have high density. Middlings have intermediate density. Rejects contain high ash, mineral impurities, fraction of raw coal feed, etc. and are used for Fluidized Bed Combustion (FBC) Boilers for power generation, road repairs, briquette (domestic fuel) making, land filling, etc. Middlings are fraction of raw coal feed having values of classificatory parameters between that of clan coals and rejects. It is used for power generation. It is also used by domestic fuel plants, brick manufacturing units, cement plants, industrial plants, etc.

1.10.7 **Hard Coke**: Solid product obtained from carbonaisation of coal, used mainly in the iron & steel industry.

1.11 Categorisation of Coal in India

1.11.1 In India, **coking coal** has been categorized or graded on the basis of ash content as per following scheme:

Grade	Ash Content
Steel Gr I	Ash content < 15%
Steel Gr II	15%< = Ash content < 18%.
Washery Gr.I	18%< = Ash content < 21%.
Washery Gr.II	21%< = Ash content < 24%
Washery Gr. III	24%< = Ash content < 28%
Washery Gr. IV	28%< = Ash content < 35%

1.11.2 In India, **semi coking coal** has been categorized or graded on the basis of ash and moisture content as per following scheme:

Grade	Ash + Moisture content
Semi coking Gr. I	less than 19%
Semi coking Gr. II	Between 19% and 24%

1.11.3 In India, **non-coking coal** had been categorized or graded on the basis of Useful Heat Value (UHV) as per following scheme:

Grade	Useful Heat Value
A	UHV.> 6200 kCal/Kg
B	6200 >=UHV(KCal/Kg)>5600
C	5600 >=UHV(KCal/Kg)>4940

Grade	Useful Heat Value
D	4940 >=UHV(KCal/Kg)>4200
E	4200 >=UHV(KCal/Kg)>3360
F	3360 >=UHV(KCal/Kg)>2400
G	2400 >=UHV(KCal/Kg)>1300

N.B:

1. "Useful heat value" is defined as:

UHV = 8900- 138 (A + M)

Where UHV = Useful heat value in kCal/kg,

A = Ash content (%),

M = Moisture content (%).

2. In the case of coal having moisture less than 2 percent and volatile content less than 19 percent the useful heat value shall be the value arrived as above reduced by 150 kilo calories per kilogram for each 1 percent reduction in volatile content below 19 percent fraction pro-rata.

3. Both moisture and ash is determined after equilibrating at 60 percent relative humidity and 40 degree C temperature.

4. Ash percentage of coking coals and hard coke shall be determined after air drying as per IS1350 -1959. If the moisture so determined is more than 2 per cent, the determination shall be after equilibrating at 60 percent relative humidity at 40 degree C temperature as per IS : 1350 - 1959.

1.11.4 In order to adopt the best international practices, India decided to switch over from the grading based on Useful Heat Value (UHV) to the grading based on Gross Calorific Value (GCV) and therefore on 16.01.2011 the Ministry of Coal notified the switch over. As per the new system, following nomenclature has been introduced for gradation of **non-coking coal.**

Grades	GCV Range (Kcal/Kg)
G1	GCV exceeding 7000
G2	GCV between 6701 and 7000
G3	GCV between 6401 and 6700
G4	GCV between 6101 and 6400
G5	GCV between 5801 and 6100
G6	GCV between 5501 and 5800
G7	GCV between 5201 and 5500
G8	GCV between 4901 and 5200
G9	GCV between 4601 and 4900
G10	GCV between 4301 and 4600
G11	GCV between 4001 and 4300
G12	GCV between 3700 and 4000
G13	GCV between 3400 and 3700
G14	GCV between 3101 and 3400
G15	GCV between 2801 and 3100
G16	GCV between 2501 and 2800
G17	GCV between 2201 and 2500

1.11.5 Based on the GCV ranges of proposed gradation and erstwhile gradation, a concordance table is generated for better understanding. However, it may be noted that this concordance does not depict exact one-to-one relation between the two systems.

Table 5: Concordance Table	
Old Grading based on UHV	New Grading based on GCV
A	G1
	G2
	G3
B	G4
	G5
C	G6
D	G7
	G8
E	G9
	G10
F	G11
	G12
G	G13
	G14
Non-coking Coal Ungraded	G15
	G16
	G17

1.12 Some General Concepts

1.12.1**Run-of-mine (ROM) coal**: The coal delivered from the mine to the Coal Preparation Plant (CPP) is called run-of-mine (ROM) coal. This is the raw material for the CPP and consists of coal, rocks, middlings, minerals and contamination. Contamination is usually introduced by the mining process and may include machine parts, used consumables and parts of ground engaging tools. ROM coal can have a large variability of moisture and particle size.

1.12.2**Opencast Mining:** Open-pit mining, open-cut mining or opencast mining is a surface mining technique of extracting rock or minerals from the earth by their removal from an open pit or borrow. This form of mining differs from extractive methods that require tunneling into the earth such as long wall mining. Open-pit mines are used when deposits of commercially useful minerals or rock are found near the surface; that is, where the overburden (surface material covering the valuable deposit) is relatively thin or the material of interest is structurally unsuitable for tunneling (as would be the case for sand, cinder, and gravel). For minerals that occur deep below the surface - where the overburden is thick or the mineral occurs as veins in hard rock - underground mining methods extract the valued material.

1.12.3**Underground Mining of Coal**: It refers to a group of underground mining techniques such as Longwall Mining, Room-And-Pillar Mining, etc.used to extract coal from sedimentary ("soft") rocks in which the overlying rock is left in place, and the mineral(coal) is removed through shafts or tunnels.

1.12.4 **Despatch and Off-take**: The term "Despatches" (say, of raw coal) is used in this compilation to mean all the despatches to different sectors but exclude collieries' own consumption (boiler coal used in collieries and supply to employee). On the other hand "Off-take" means total quantity of raw coal lifted for consumption and naturally includes colliery consumption. Therefore,

Off-take = Despatches + Colliery Consumption

1.12.5 **Change of Stock**: Change of Stock means the difference between opening and closing stock of an item.

1.12.6 **Pit-Head Stock:** The term "Pit-head Closing Stock" of raw coal is used in this compilation to mean all the raw coal stock at pit- head of collieries.

1.12.7 **Pit-head Value**: Pit-head Value of coal is the value of coal at pit-head of the colliery. It is computed on the basis of basic price and therefore it does not involve any cost of loading, transportation from pit-head, Cess, Royalty, Sales tax, Stowing Excise Duty etc. This approach is followed by all non-captive coal companies, viz., CIL

Subsidiaries, Singareni Collieries Companies Ltd. (SCCL), Jharkhand State Mineral Development Corporation Ltd. (JSMDCL) and Jammu & Kashmir Mineral Ltd. (JKML).

1.12.7.1 In case of captive collieries, pit-head value of coal depends upon their accounting policy. If the costing of coal is done on no-profit-no-loss basis then pit-head value is calculated accordingly. This practice is found to be followed in captive collieries of public sector units.

1.12.7.2 On the other hand, if the captive colliery is treated as independent commercial unit then pit-head value is calculated on the basis of unit value of realisation, which includes cost price and profit/loss per unit but excludes any transportation cost from pit-head, Cess, Royalty, Sales tax, Stowing Excise Duty etc. This is particularly followed in private captive colliery which is in contract to supply coal to any priority sector for which captive colliery is permitted (Steel, Iron, Power, Cement, etc.).

1.12.7.3 Even there are private sector collieries being managed by the parent company engaged in manufacturing of Steel and Iron, Power, Cement for which captive collieries are allowed. Due to non-availability of value figures from these companies, pit-head value of coal is determined on the basis of nearest Coal India Subsidiary price rate considering comparable grade and location. Though this may not be a correct price and would not depict a true picture, yet we use it because this is one of the acceptable estimates.

1.12.7.4 While using value data it is to be kept in mind that these data are useful for macro-level study or trend study. However, the quality of coal has been deteriorating over the years, quite inversely proportional to the open cast production share in the total production. Thus the comparison of unit value over the years would not reflect correct picture of inflation until this deteriorating effect of quality is not considered and that effect is removed.

1.12.7.5 It may be concluded that, in India, unit value (Rs.) of coal in terms per kilo calorie useful heat value has been increasing more rapidly than being exhibited by simple unit value comparison over the years.

1.13Commodity Classification

1.13.1 For export import data, the 8-digit codes of Indian Trade Classification (based on Harmonised Coding System) have been adopted by DGCI&S in classifying the various grades of coal and coal products. For Coking coal the only 8-digit code is “27011910” and all other codes of coal are taken as non-coking coal (Mainly pertains to remaining part of 2701, some parts of 2702 & 2703). Similarly for all items in 2704 group has been taken under coke. The effect of retort carbon is negligible and included under coke.

Highlights

(A) Production

1. In the year 2012-13, the total production of raw coal in India increased by 3.0% (from 539.950 MT in 2011-12 to 556.402 MT in 2012-13) whereas the corresponding increase in the production of lignite was 9.7% (from 42.332 MT in 2011-12 to 46.453 MT in 2012-13).
2. The contribution of public sector and private sector in the production of Raw Coal in 2012-13 was as follows:

Production of Raw Coal in 2012-13 (MT)			
Sector	Coking	Non-Coking	Total Coal
Public	44.274	464.966	509.240
Private	7.308	39.854	47.162
All India	51.582	504.820	556.402

3. The production of coking coal in 2012-13 in India was 51.582 MT (0.2% decrease over 11-12) whereas the corresponding figure for non-coking coal was 504.820 MT (3.4% growth over 11-12).
4. The production of washed (coking) coal in 2012-13 was 6.550 MT (increase by 0.8% over 11-12) and middling (coking) was 5.464 MT (increase by 48.7% over 11-12).
5. During 2012-13, Chhattisgarh registered highest coal production of 117.830 MT (21.2%) followed by Jharkhand 111.274 MT (20.0%) and Orissa 110.132 MT (19.8%). Tamil Nadu was the largest producer of lignite 24.844 MT (53.5%).
6. The contribution of Coal India Limited in the coal production in 2012-13 was 452.200 MT (81.27%) and that of SCCL 53.190 MT (9.56%). During the period 2012-13, Neyveli Lignite Corporation contributed 26.223 MT (56.45%) of lignite production.
7. Highest coking coal producing state of India was Jharkhand (51.065 MT i.e. 99.0%) whereas highest non-coking coal producing state was Chhattisgarh (117.673 MT i.e. 23.31%).
8. Around 90.62% of coal production of India in 2012-13 was from open-cast mines (504.195 MT).
9. During 2012-13, SECL produced highest quantity of coal from underground i.e. 16.869 MT (32.31%) followed by SCCL which produced 11.597 MT (22.21%).
10. Overall Stripping Ratio for the year 2012-13 was 2.12 (Stripping Ratio is defined as the ratio of Over Burden Removal to Coal produced in Open Cast mining.)
11. Productivity (OMS) of underground mines for the year 2012-13 was 0.77 for CIL and 1.13 for SCCL. During 2012-13, OMS for opencast mines for CIL and SCCL was 11.68 and 11.87 respectively.

    (OMS is the output measured in tones per unit of man-shift).

(B) Despatch

1. During 2012-13, despatch of indigenous raw coal was 567.136 MT against the corresponding figure of 535.299 MT during 2011-12 (increase of 5.95% over 2011-12). Lignite despatch was 46.313 MT in 2012-13 against the corresponding figure of 41.883 MT during 2011-12 (increase of 10.58% over 11-12). Despatches of solid fossil fuel increased from 577.182 MT in 2011-12 to 613.449 MT in 2012-13 registering an increase of 6.28% over the previous year.

2. The contribution of public sector and private sector in the dispatch of Raw Coal in 2012-13 was as follows:

Despatches of Raw Coal in 2012-13 (MT)			
Sector	Coking	Non-coking	Total Coal
Public	48.557	471.769	520.326
Private	7.302	39.508	46.810
All India	55.859	511.277	567.136

3. Despatches of coking coal increased to 55.859 MT in 2012-13 from 51.723 MT in 2011-12 (increase of 8% over the previous year).
4. Despatches of Metallurgical coal reduced to 14.799 MT in 2012-13 from 15.903 MT in 2011-12, registering a decrease of 6.94% over previous year.
5. Despatches of non-coking coal grew to 511.277 Mt in 2012-13 from 483.576 MT in 2011-12, registering an increase of 5.73% over previous year.
6. During 2012-13 despatches of washed coal (coking) and middling (coking) were 6.614 MT and 5.403 MT respectively against corresponding despatch of 6.532 MT and 3.802 MT in 2011-12.
7. All coal producing states except Assam, J&K, Madhya Pradesh, Meghalaya, Arunachal Pradesh showed a positive growth in coal despaches resulting into a 5.95% growth in coal despatch across India during 2012-13.
8. In terms of coal despatch, Chhattisgarh had highest share of 121.058 MT (21..35%) followed by Jharkhand of 119.276 MT (21.03%) and Orissa of 114.213 MT (20.14%).
9. In case of lignite despatch, Tamil Nadu had the largest share of 52.49% (24.312 MT).
10. CIL despatched 464.537 MT and SCCL 52.025 MT of coal in 2012-13.
11. Among other PSUs largest share in coal despatch was of DVC Emta (1.844 MT).
12. Private sector despatched 46.810 MT of coal in which TISCO had largest share of 7.314 MT.
13. Powerhouses (Utility) continued to be the largest coal receiver. This sector received 387.766 MT (68.37%) in 2012-13 against 367.761 MT (68.70%) in 2011-12 of total despatches.
14. Cement sector received 13.113 MT in 2012-13 against 13.179 MT in 2011-12.
15. Despatch to Steel Sector in 2012-13 was 16.145 MT against 16.054 MT in 2011-12.
16. During the year 2012-13 despatch of raw coal by rail was 275.531 MT (48.587%) and by road was 163.838 MT (28.89%).

(C) Pit Head Closing Stock

1. Pit-head Closing Stock of raw coal, as on 31-03-2013, was 63.049 MT against 74.040 MT in 11-12. The same for lignite was 1.493 MT in 2012-13 against 1.051 MT in 11-12.
2. Pit-head closing stock of coking coal was 8.036 MT in 2012-13 against 7.969 MT in 2011-12.
3. Pit-head closing stock of non-coking coal was 55.013 MT in 2012-13 against 62.908 MT in 2011-12.
4. Out of total closing stock of 63.049 MT as on 31-03-2013, Public Sector accounted for 61.347 MT.

(D) Import and Export

1. Import of coking coal was 35.557 MT in 2012-13 against 31.801 MT in 2011-12 resulting into an increase of 11.81% over 2011-12. Import of Non-coking coal was 110.228 MT in 2012-13 against 71.052 MT in 2011-12, an increase of 55.14% over 2011-12.
2. Main exporter of coal to India was Indonesia followed by Australia and South Africa.
3. Coal was mainly imported through Paradip and Krishnapatnam ports.
4. Export of coal during 2012-13 was 2.443 MT against 2.014 MT in 2011-12.
5. Coal is mainly exported to Bangladesh and Nepal.
6. Main ports for coal exports are Borsorah and Panitanki.

(E) Comparison between Provisional and Final figures

The following statement shows comparison between Provisional and Final figures of Production and Despatch of Coal and Lignite during last Five Years.

Year		Production (Quantity in Million Tonnes)				Despatch (Quantity in Million Tonnes)			
		Coking Coal	Non-coking Coal	**Total Coal**	Lignite	Coking Coal	Non-coking Coal	**Total Coal**	Lignite
2008-09	Provisional	33.309	459.636	**492.945**	32.421	35.674	453.321	**488.995**	31.793
	Final	34.809	457.948	**492.757**	32.421	35.724	453.448	**489.172**	31.793
	Change(A-F)	4.50%	-0.37%	**-0.04%**	0.00%	0.14%	0.03%	**0.04%**	0.00%
2009-10	Provisional	44.256	487.806	**532.062**	34.071	42.627	470.592	**513.219**	34.431
	Final	44.413	487.629	**532.042**	34.071	42.469	471.323	**513.792**	34.430
	Change(A-F)	0.35%	-0.04%	**0.00%**	0.00%	-0.37%	0.16%	**0.11%**	0.00%
2010-11	Provisional	49.533	483.543	**533.076**	37.735	48.936	474.311	**523.247**	37.516
	Final	49.547	483.147	**532.694**	37.733	48.950	474.515	**523.465**	37.685
	Change(A-F)	0.03%	-0.08%	**-0.07%**	-0.01%	0.03%	0.04%	**0.04%**	0.45%
2011-12	Provisional	51.654	488.286	**539.940**	43.105	51.528	483.624	**535.152**	42.500
	Final	51.660	488.290	**539.950**	42.332	51.723	483.576	**535.299**	41.883
	Change(A-F)	0.01%	0.00%	**0.00%**	-1.79%	0.38%	-0.01%	**0.03%**	-1.45%
2012-13	Provisional	51.834	505.873	**557.707**	46.598	55.212	514.555	**569.767**	46.312
	Final	51.582	504.820	**556.402**	46.453	55.859	511.277	**567.136**	46.313
	Change(A-F)	-0.49%	-0.21%	**-0.23%**	-0.31%	1.17%	-0.64%	**-0.46%**	0.00%

N.B : P=Provisional, F=Final

Chart 1.1: Trend of Production of Primary Conventional Energy Forms in India

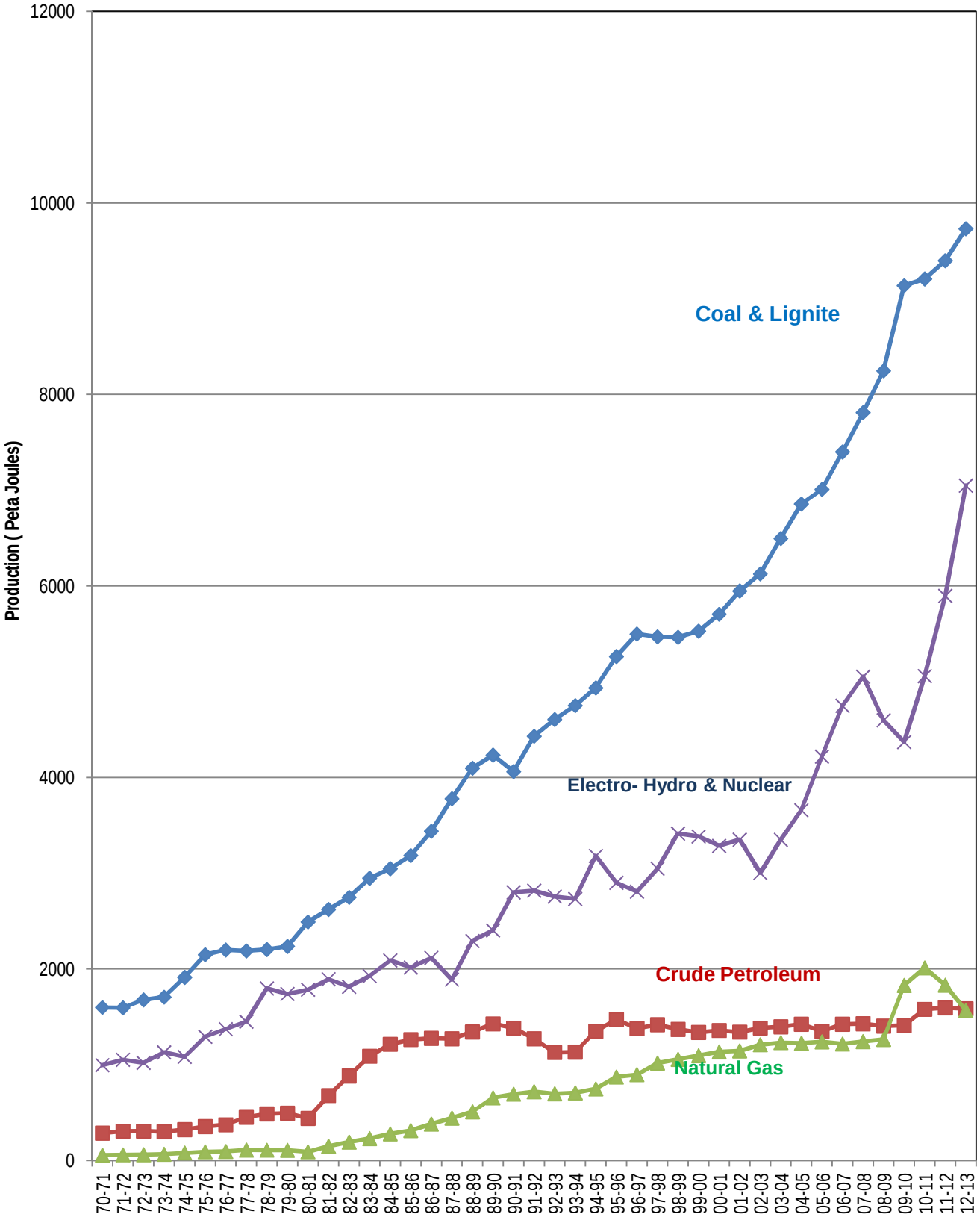


Table 1.1: INDIAN ECONOMY - SELECTED INDICATORS

Sl. No.	Indicator	Unit/base	2008-09	2009-10	2010-11	2011-12	2012-13
	1	2	3	4	5	6	7
1.	Geographical Area	M.Sq.Km.	3.29	3.29	3.29	3.29	3.29
2.	Population	Million	1154	1170	1186	1222	1262
3.	Gross Domestic Product at factor cost :						
	(i) At current prices	Rs.Billion	56301R	64573R	71574Q	82800	93881
	(ii) At constant prices	"	53036R	60915R	48860	52220	54821
4.	Net National Income at factor cost :						
	(i) At current prices	Rs.Billion	50319R	57615R	63250	73289	82559
	(ii) At constant prices	"	47054R	53959R	42699	45682	47287
5.	Per Capita Net National Product :						
	(i) At current prices	Rupees	40775R	46117R	53331Q	60972	67839
6.	Foreign Exchange Reserves						
	(i) Gold	US $ Million	9577	17986	22972	28128	293360
	(ii) SDR	Mn. Of SDR	1.0	5006	4569	4449	4342
	(iii) Foreign Exchange	US $ Million	241426	254685	274330	259741	260415
7.	Foreign Trade :						
	(i) Import	Rs.Billion	13744.36	13564.7	16834.67	20559.19	26691.62
	(ii) Export	"	8407.55	8451.25	11426.49	12747.75	16343.19
	(iii) Balance of Trade	"	-5336.81	-5113.44	-5408.18	-7811.44	-10348.43
8.	Index of Production :						
	(i) Industrial	2004-05=100	145.2	152.9	165.5	170.4	169.6
9.	Wholesale Price Index :	2004-05=100	125.0	131.0	143.0	156.0	168.0
10.	Consumer Price Index:						
	(i) Industrial Workers #	2001=100	145	163	180	195	215
	(ii) Agricultural Labourers	1986-87=100	450	513	564	611	672
	(iii) Urban non-manual workers	1984-85=100	577	634	-	-	-
11.	Fuel (gross)						
	Coal	Mn.Tonne	492.76	532.042	532.694	539.950	556.402
	Lignite	"	32.42	34.071	37.733	42.332	46.453
	Natural Gas	Bn.Cub.Mtr.	32.849	47.51	52.221	47.539	40.680
	Crude Oil	Mn.Tonne	33.506	33.691	37.712	38.090	37.860
	Petroleum Products(Incl RBF)	"	164.59	163.505	164.85	170.15	182.316
12.	Electricity Generated (Gr.)						
	(i) Utilities						
	Hydel	B.KWH	110.1	106.7	114.3	130.5	114.0
	Thermal	"	616.1	677.0	665.0	709.0	761.0
	Nuclear	"	14.92	19.0	26.3	32.0	33.0
	Total	"	741.2	802.7	805.5	871.5	908.0
	(ii) Non-utilities	"	99.7	106.0	120.9	134.0	148.0
	Grand Total	"	840.9	908.7	926.4	1005.5	1056.0

: calender year basis, Q : Quick Estimates.

Source: M/o SPI, Economic Survey, M/o Industry,RBI, M/o Petroleum & Natural Gas

b2:Linked all-India CPI(UNME) is discontinued since Jan,2011.

TABLE -1.2: GROWTH OF INDIAN COAL SECTOR AT A GLANCE

Sl. No.	Item	Unit	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
	1	2	3	4	8	6	7	8
1	**Reserves (Proved)**							
	(i) Coking Coal	Mn.Tonne	17404	17545	17,669	17,669	17,933	18,365
	(ii) Non Coking	"	84425	88175	92,129	96,333	1,00,211	1,04,816
	(iii) Lignite	"	4824	5363	6146	6146	6181	6181
2	**Consumption**							
	(i) Coal	Mn.Tonne	453.491	549.567	620.389	589.874	638.923	710.433
	(ii) Lignite	"	34.657	31.846	33.733	37.688	41.883	46.313
	(iii) Coal Products*	"	41.825	42.878	44.441	42.069	43.865	43.867
3	**Production :**							
	(i) Coal	Mn.Tonne	457.082	492.757	532.042	532.694	539.950	556.402
	(ii) Lignite	"	33.980	32.421	34.071	37.733	42.332	46.453
	(iii) Coal Products*	"	41.825	41.908	41.964	40.244	39.241	41.723
4	**Imports**							
	(a) Qty : Coal	Mn.Tonne	49.794	59.003	73.255	68.918	102.853	145.785
	Coal Products	"	4.248	1.881	2.355	1.490	2.365	3.081
	Total (a)	"	54.042	60.884	75.610	70.408	105.218	148.866
	(b) Value: Coal	Rs.Million	207384	413408	391800	415496	788376	868455
	Coal Products	"	51231	46051	33311	31204	47585	56919
	Total (b)	"	258615	459459	425111	446699	835961	925374
5	**Exports**							
	(a) Qty : Coal	Mn.Tonne	1.627	1.655	2.454	4.409	2.032	2.443
	Coal Products	"	0.097	1.338	0.178	0.650	0.613	1.201
	Total (a)		1.724	2.994	2.632	5.059	2.645	3.644
	(b) Value: Coal	Rs.Million	2,768	3,485	5045	12641	5900	8651
	CoalProducts	"	987	7,246	2264	9912	11525	6017
	Total (b)		3,755	10,731	7309	22554	17425	14668
6	Unit Value of coal imports (gr.)	Rs./Tonne	4165	7007	5348	6029	7665	5957
7	India's Total Exports	Rs.Million	6558635	8407551	8455336	11426489.7	13970200	16343188
8	India's Total Imports	Rs.Million	10123117	13744356	13637355	16834669.6	22475600	26691620
9	(i) Coal imports as percentage of India's total import	%	2.6	3.3	3.1	2.7	3.7	3.5
	(ii) Coal exports as percentage of India's total export	%	0.1	0.1	0.1	0.2	0.1	0.1

* Coal Products includes Washed coal, Middlings and Hard coke produced from washeries owned by collieries and integated steel plant.

Source: DGCI&S, Kolkata /Coal Companies/GSI

TABLE -1.3: PRODUCTION OF PRIMARY SOURCES OF CONVENTIONAL ENERGY IN INDIA

Year	Coal & Lignite*		Crude Petroleum		Natural Gas		Electricity-hydro & Nuclear		Total Energy
	(Th. Tonnes)	(Peta joules)	(Th. Tonnes)	(Peta joules)	(Mill. Cum.)	(Peta joules)	(GWH)	(Peta joules)	(Peta joules)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
70-71	76340	1598	6822	286	1445	56	27665	996	2936
71-72	76140	1594	7299	306	1538	59	29213	1052	3011
72-73	80110	1677	7321	307	1565	60	28329	1020	3064
73-74	81490	1706	7189	301	1713	66	31368	1129	3202
74-75	91350	1912	7684	322	2041	79	30081	1083	3396
75-76	102660	2149	8448	354	2368	91	35928	1293	3887
76-77	105010	2198	8898	373	2428	94	38088	1371	4036
77-78	104560	2188	10763	451	2839	109	40279	1450	4198
78-79	105250	2203	11633	487	2812	108	49929	1797	4595
79-80	106840	2236	11766	493	2767	107	48354	1740	4576
80-81	119020	2491	10507	440	2358	91	49543	1784	4806
81-82	131240	2622	16194	678	3851	148	52586	1893	5341
82-83	137530	2748	21063	882	4936	192	50396	1814	5636
83-84	147539	2948	26020	1089	5961	230	53500	1926	6193
84-85	155277	3047	28990	1214	7241	279	58023	2089	6629
85-86	162336	3185	30168	1263	8134	313	56003	2016	6777
86-87	175290	3439	30480	1276	9853	380	58862	2116	7211
87-88	192551	3778	30357	1271	11467	442	52479	1889	7380
88-89	208820	4097	32040	1342	13217	509	63685	2293	8241
89-90	215724	4233	34087	1427	16988	654	66741	2403	8717
90-91	228131	4063	33021	1383	17998	693	77782	2800	8939
91-92	248805	4431	30346	1271	18645	718	78281	2818	9238
92-93	258615	4606	26950	1128	18060	696	76596	2757	9187
93-94	266785	4751	27026	1132	18335	706	75860	2731	9320
94-95	277080	4935	32239	1350	19468	747	88360	3181	10213
95-96	295561	5264	35167	1472	22642	872	80561	2900	10508
96-97	308720	5498	32900	1378	23256	896	77972	2807	10579
97-98	320221	5469	33858	1418	26401	1017	84665	3048	10952
98-99	319927	5464	32722	1370	27428	1057	94846	3414	11305
99-00	326578	5529	31949	1338	28446	1096	94005	3384	11347
00-01	337943	5705	32426	1358	29477	1135	91264	3286	11484
01-02	352600	5948	32032	1341	29714	1145	93054	3350	11784
02-03	367290	6126	33044	1383	31389	1209	83404	3003	11721
03-04	389204	6496	33373	1397	31962	1231	93022	3349	12473
04-05	413026	6856	33981	1423	31763	1224	101621	3658	13161
05-06	437267	7009	32190	1348	32202	1240	117195	4219	13816
06-07	462117	7400	33988	1423	31747	1217	131920	4749	14789
07-08	491062	7811	34117	1429	32274	1243	140346	5052	15535
08-09	525178	8247	33506	1403	32849	1265	127720	4598	15513
09-10	566113	9137	33691	1411	47496	1830	125680	4370	16747
10-11	570427	9207	37712	1579	52221	2012	140523	5059	17856
11-12	582282	9398	38090	1595	47539	1831	163797	5897	18721
12-13	602855	9730	37860	1585	40680	1567	195801	7049	19931

* Revised since 1998-99. Coal data is based on UHV Concept, not GCV/NCV concept.

Source : Energy Statistics, CSO; Reports from Coal Controllers Organisation, Central Electricity Authority, Ministry of Petroleum

TABLE-1.4: TOTAL PRIMARY SUPPLY (TPS) OF COAL & LIGNITE : 2003-04 to 2012-13 (Mill Tonnes)

Year	Fuel type	Production	Imports	Exports	Net Import	Opening Stock	Closing Stock	Stock Change	T P S
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Coal	361.246	21.683	1.627	20.056	19.394	21.291	-1.897	379.405
2003-04	Lignite	27.958			0.000	0.731	0.212	0.519	28.477
	Total	389.204	21.683	1.627	20.056	20.125	21.503	-1.378	407.882
	Coal	382.615	28.950	1.374	27.576	21.291	23.969	-2.678	407.513
2004-05	Lignite	30.411			0.000	0.212	0.536	-0.324	30.087
	Total	413.026	28.950	1.374	27.576	21.503	24.505	-3.002	437.600
	Coal	407.039	38.586	1.989	36.597	23.969	34.334	-10.365	433.271
2005-06	Lignite	30.228			0.000	0.536	0.525	0.011	30.239
	Total	437.267	38.586	1.989	36.597	24.505	34.859	-10.354	463.510
	Coal	430.832	43.081	1.554	41.527	34.334	44.348	-10.014	462.345
2006-07	Lignite	31.285			0.000	0.525	1.002	-0.477	30.808
	Total	462.117	43.081	1.554	41.527	34.859	45.350	-10.491	493.153
	Coal	457.082	49.794	1.627	48.167	44.348	46.779	-2.431	502.818
2007-08	Lignite	33.980			0.000	1.002	0.328	0.674	34.654
	Total	491.062	49.794	1.627	48.167	45.350	47.107	-1.757	537.472
	Coal	492.757	59.003	1.655	57.348	46.779	47.317	-0.538	549.567
2008-09	Lignite	32.421			0.000	0.328	0.903	-0.575	31.846
	Total	525.178	59.003	1.655	57.348	47.107	48.220	-1.113	581.413
	Coal	532.042	73.255	2.454	70.801	47.317	64.863	-17.546	585.297
2009-10	Lignite	34.071				0.903	0.565	0.338	34.409
	Total	566.113	73.255	2.454	70.801	48.220	65.428	-17.208	619.706
	Coal	532.694	68.918	4.409	64.509	64.863	72.192	-7.329	589.874
2010-11	Lignite	37.733				0.565	0.610	-0.045	37.688
	Total	570.427	68.918	4.409	64.509	65.428	72.802	-7.374	627.562
	Coal	539.950	102.853	2.014	100.839	72.192	74.040	1.848	642.637
2011-12	Lignite	42.332				0.610	1.051	0.441	42.773
	Total	582.282	102.853	2.014	100.839	72.802	75.091	2.289	685.410
	Coal	556.402	145.785	2.443	143.342	74.040	63.049	-10.991	688.753
2012-13	Lignite	46.453				1.051	1.493	0.442	46.895
	Total	602.855	145.785	2.443	143.342	75.091	64.542	-10.549	735.648

Note: Total Primary Supply is estimated as sum of indegenous production, Net Import & Stock Change.
For simplicity, only stock change of pit head stock is taken.

Section II

Resources & Exploration

2.1 **Indian coal deposits:** The Indian coal deposits are primarily concentrated in the Gondwana sediments (Upper Paleozoic to Mesozoic systems) located in the Eastern and Central parts of Peninsular India and also in parts of North Eastern Regions Viz., Sikkim, Assam and Arunachal Pradesh. The coal is of bituminous to sub-bituminous rank and is restricted to the sediments of Permian age.

2.1.1 Seams of these coalfields generally range in thickness from 1.0 m to 30.0 m, with exceptionally thick seams of 134.0 m found in Singrauli coalfield. The coalfields have been faulted but otherwise are not highly tectonised.

2.1.2 The Tertiary coal bearing sediments are found in North-Eastern India, spreading over the states of Assam, Arunachal Pradesh, Nagaland and Meghalaya of which the Assam Coal fields are the prominent ones. Here coalfields are highly disturbed tectonically and sub-bituminous to high volatile bituminous with high sulphur contents.

2.2 **Indian lignite deposits**: Indian lignite deposits are in the Tertiary sediments in the Southern & Western parts of the peninsular shield, particularly in Tamil Nadu, Pondicherry, Gujarat, Rajasthan and Jammu & Kashmir. It is also available, in minor quantity, in Kerala & West Bengal.

2.3 **Exploration**: Exploration of coal resources in the country is carried out in two stages. In the first stage, Geological Survey of India (GSI) and various State Directorates of Geology & Mining undertake regional exploration with one or two Borehole per sq. km for locating potential coal and lignite bearing areas on a regular basis under the funding from the Ministry of Mines, Government of India. This effort is supplemented by Mineral Exploration Corporation Ltd. (MECL), Geological Survey of India, Central Mine Planning and Design Institute Ltd. (CMPDIL) through promotional regional exploration under funding from the Ministry of Coal.

2.3.1 In the 2nd stage, detailed exploration is carried out by CMPDIL, a subsidiary of Coal India Ltd. directly as well as through MECL, State Governments and private agencies for the purpose of mine planning and exploitation of coal resources for meeting the demand of different sectors of the economy. The detailed exploration in the command area of SCCL is carried out by SCCL itself. Nowadays, many private exploration agencies have also been undertaking detailed exploration in regionally explored coal blocks mainly under the supervision of CMPDIL.

2.3.2 CMPDIL acts as a nodal agency for distribution of funds provided by the Ministry of Coal for exploration besides supervising the work of MECL in the area of promotional exploration of coal.

2.3.3 Priorities of various projects/ blocks, taken up for detailed exploration, are decided taking into account factors like emerging demand and its locations, availability of infrastructure for coal evacuation and techno-economic feasibility of the mine development including the coal quality.

2.4 **Coal Reserves**: Detailed data on Coal resources, as on 1st April 2013, by type of coal for different coal bearing States, field-wise and grade-wise are provided in tables 2.1 to 2.5.

2.4.1 As per GSI compilation of resources as on 1st April 2012, in situ geological resources of coal in India up to a depth of 1200 meters is 293.497 Billion Tonnes (BT) which includes proved, indicated and inferred resources. Out of the total geological resources, 95.33% of the geological resources are accounted by six states, namely, Jharkhand (27.38%), Orissa (24.34%), Chhattisgarh (17.32%), West Bengal (10.43%), Madhya Pradesh (8.31%) and Andhra Pradesh (7.55%).

2.4.2 Out of the total resource of 293.497 BT as on 1st April, 2012, the share of proved, indicated and inferred resources are 118.145 BT (40.25%), 142.169 BT (48.44%) and 33.182 BT (11.31%).

2.4.3 In the total resources, the share of Prime Coking, Medium Coking, Blendable / Semi Coking and Non Coking (Including High Sulphur) are 1.81 %, 9.09%, 0.58% and 88.52%. It is to be noted that the increase in the total resource from 2011 to 2012 has been noticed mainly in the case of Non coking coal.

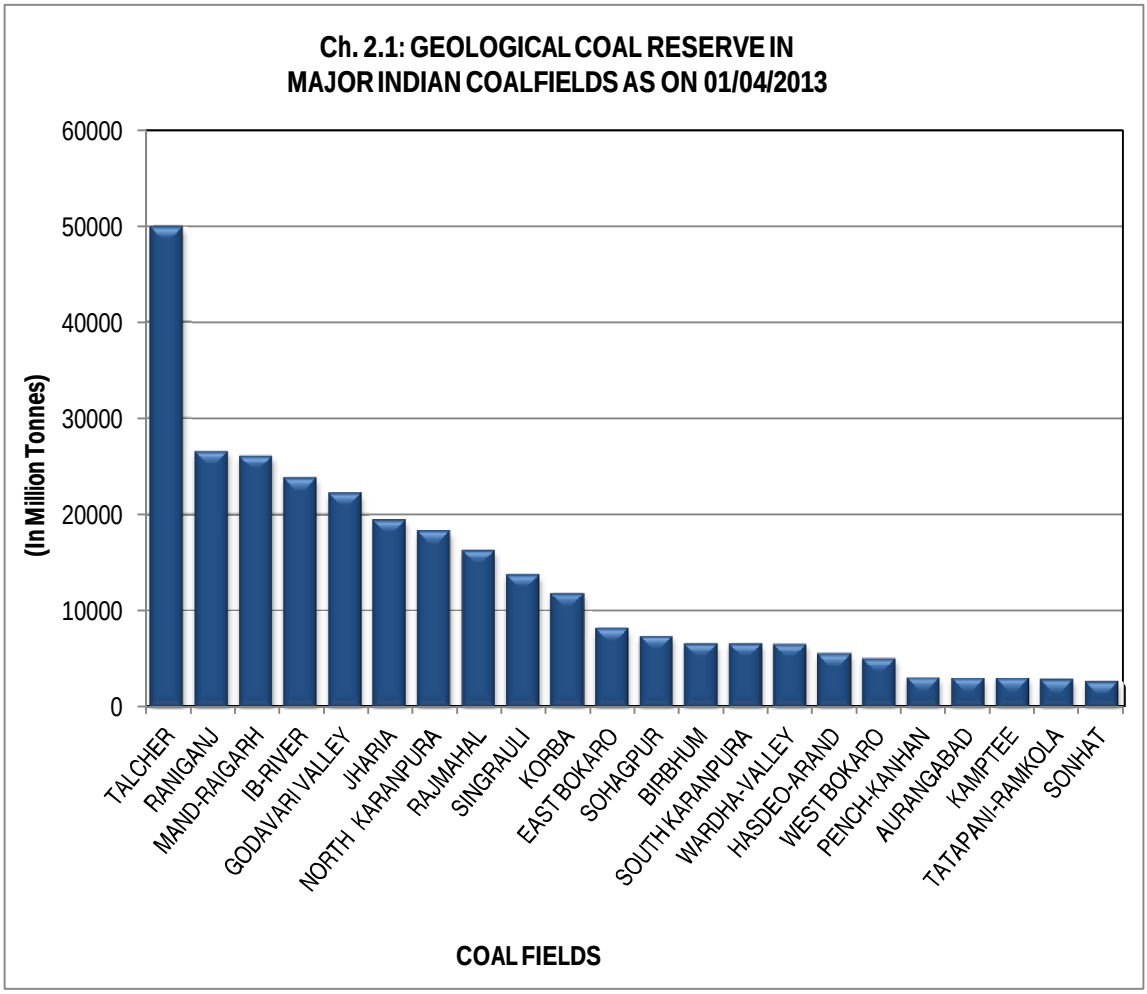
2.5 **Lignite Reserves:** Neyveli Lignite Corporation (NLC) programmes, coordinates and reviews the regional exploration work concerning lignite resources. Detailed data on lignite resources are available in Table 2.6 & Table 2.7.

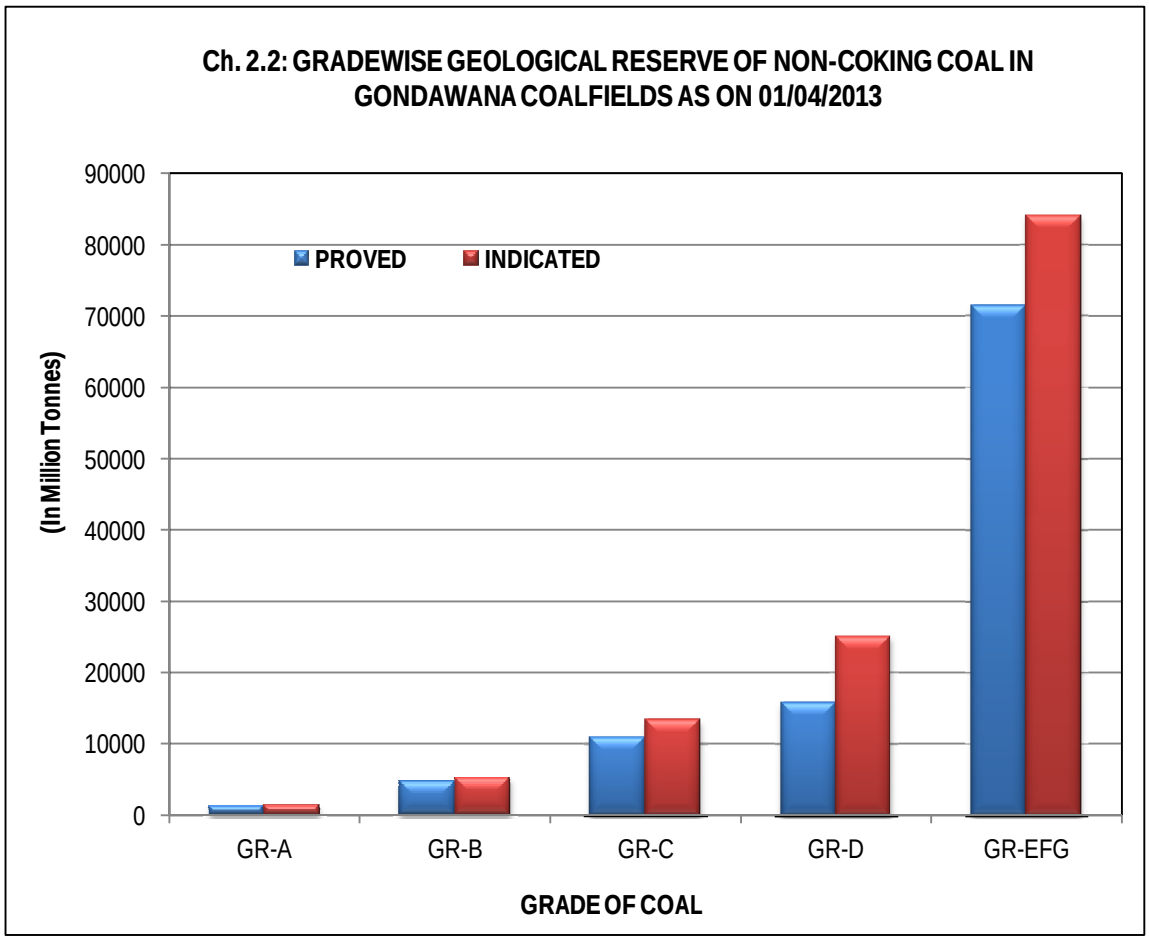
2.5.1 Total lignite resources in the country as on 1st April 2012 was 41.96 BT which includes proved, indicated and inferred resources. In the total lignite resources, three major states, namely, Tamil Nadu (80.73%), Rajasthan (11.69%) and Gujarat (6.49%) accounted for 98.91% of the resources.

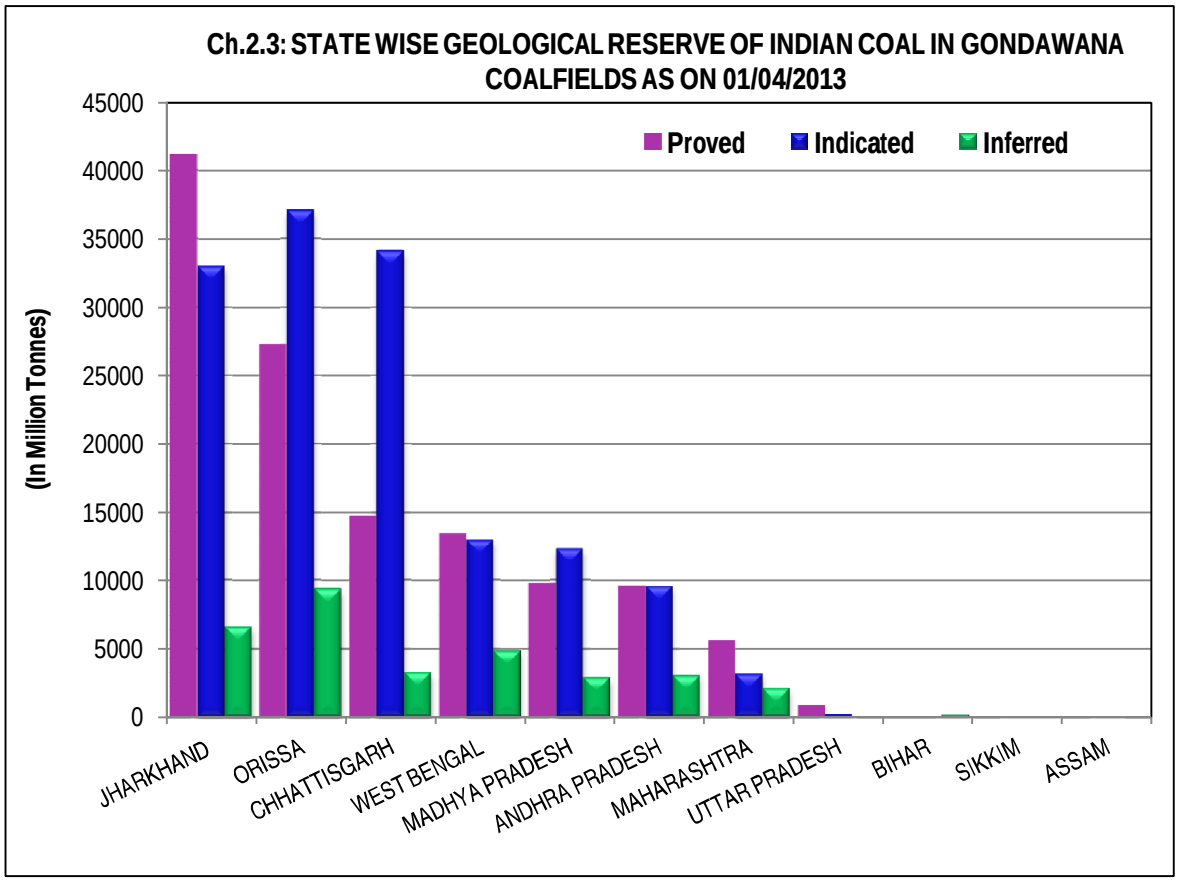
2.5.2 Information on agency wise and Coal Company command area wise promotional drilling and detailed drilling achievement during the IXth, Xth and XIth plan period are reported in Tables 2.8 and Table 2.9. While the discussion above is based on data as on 01.04.2012, Reserve as on 01.04.2013 have been presented in the tables attached here.

2.6 The different exploration stages and agencies involved in the exercise are summarized below for easy comprehension of the readers.

Exploration Stage: Regional (funded by Ministry of Mines)	
Exploration Agencies	
1.	Geological Survey of India
2.	State Directorates of Geology & Mining
Exploration Stage: Regional (Promotional funded by Ministry of Coal)	
Exploration Agencies	
1.	Geological Survey of India
2.	Mineral Exploration Corporation Ltd.
3.	Central Mine Planning and Design Institute Ltd.
Exploration Stage: Detailed	
Exploration Agencies	
1.	Central Mine Planning and Design Institute Ltd.
2.	Singareni Collieries Company Ltd.
3.	Mineral Exploration Corporation Ltd.
4.	Neyveli Lignite Corporation Ltd.
5.	State Directorates of Geology & Mining.
6.	Private Agencies.
Exploration Stage: Developmental	
Exploration Agencies	
1.	Coal India Limited's Subsidiaries including Central Mine Planning and Design Institute Ltd.
2.	Singareni Collieries Company Ltd.
3.	Neyveli Lignite Corporation Ltd.
4.	Private Parties/ Coal Mine Owners.


Ch. 2.1: GEOLOGICAL COAL RESERVE IN MAJOR INDIAN COALFIELDS AS ON 01/04/2013
(In Million Tonnes)
60000
50000
40000
30000
20000
10000
0
TALCHER
RANIGANJ
MAND-RAIGARH
IB-RIVER
GODAVARI VALLEY
JHARIA
NORTH KARANPURA
RAJMAHAL
SINGRAULI
KORBA
EAST BOKARO
SOHAGPUR
BIRBHUM
SOUTH KARANPURA
WARDHA-VALLEY
HASDEO-ARAND
WEST BOKARO
PENCH-KANHAN
AURANGABAD
KAMPTEE
TATAPANI-RAMKOLA
SONHAT
COAL FIELDS


Ch. 2.2: GRADEWISE GEOLOGICAL RESERVE OF NON-COKING COAL IN GONDAWANA COALFIELDS AS ON 01/04/2013
(In Million Tonnes)
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
PROVED
INDICATED
GR-A
GR-B
GR-C
GR-D
GR-EFG
GRADE OF COAL


Ch.2.3: STATE WISE GEOLOGICAL RESERVE OF INDIAN COAL IN GONDAWANA COALFIELDS AS ON 01/04/2013
(In Million Tonnes)
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
Proved
Indicated
Inferred
JHARKHAND
ORISSA
CHHATTISGARH
WEST BENGAL
MADHYA PRADESH
ANDHRA PRADESH
MAHARASHTRA
UTTAR PRADESH
BIHAR
SIKKIM
ASSAM

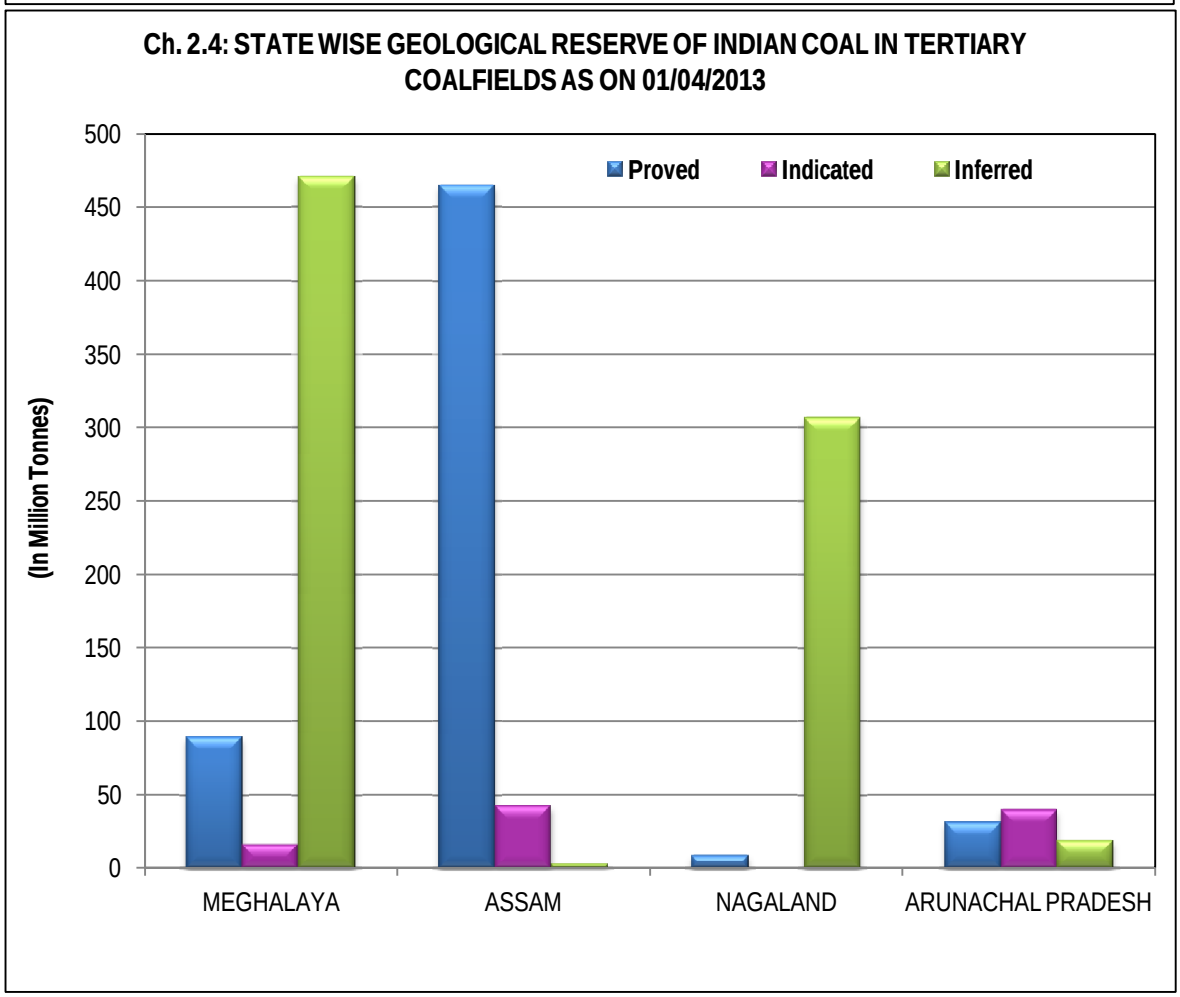
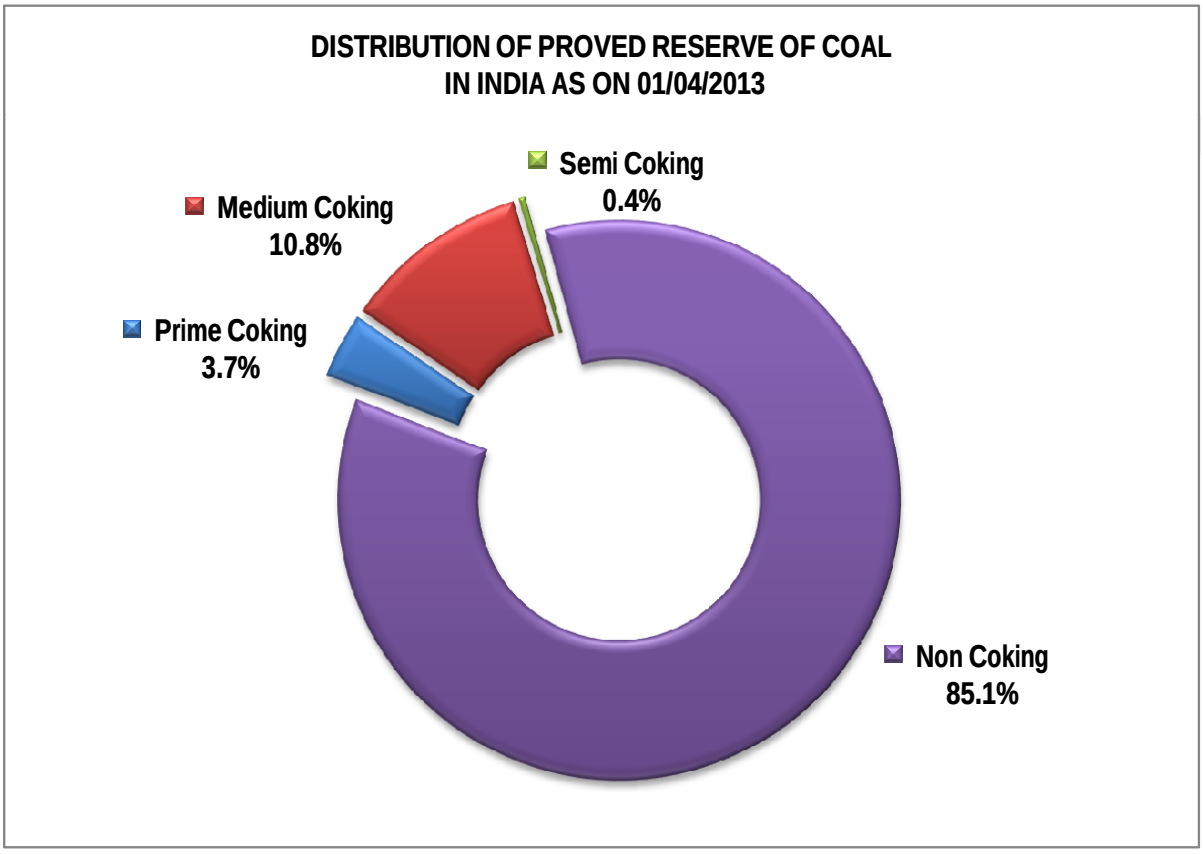

Ch. 2.4: STATE WISE GEOLOGICAL RESERVE OF INDIAN COAL IN TERTIARY COALFIELDS AS ON 01/04/2013
(In Million Tonnes)
500
450
400
350
300
250
200
150
100
50
0
Proved
Indicated
Inferred
MEGHALAYA
ASSAM
NAGALAND
ARUNACHAL PRADESH

TABLE - 2.1: INVENTORY OF GEOLOGICAL RESERVE OF COAL BY TYPE AS ON 1st APRIL 2011, 2012 & 2013

Type of Coal	As on	Reserve (Quantity in Million Tonnes)			
		Proved	Indicated	Inferred	*Total*
(1)	(2)	(3)	(4)	(5)	*(6)*
Prime Coking	01/04/2011	4,614	699	0	***5,313***
	01/04/2012	4,614	699	0	***5,313***
	01/04/2013	4,614	699	0	***5,313***
Medium Coking	01/04/2011	12,573	12,001	1,880	***26,454***
	01/04/2012	12,837	11,951	1,880	***26,669***
	01/04/2013	13,269	11,893	1,879	***27,041***
Blendable / Semi Coking	01/04/2011	482	1,003	222	***1,707***
	01/04/2012	482	1,003	222	***1,707***
	01/04/2013	482	1,003	222	***1,707***
Non Coking (Including	01/04/2011	96,333	1,23,768	32,287	***2,52,387***
High Sulphur)	01/04/2012	1,00,211	1,28,515	31,081	***2,59,807***
	01/04/2013	1,04,816	1,29,037	30,999	***2,64,852***
Total	***01/04/2011 ****	***1,14,002***	***1,37,471***	***34,389***	***2,85,862***
	01/04/2012 *	***1,18,145***	***1,42,169***	***33,182***	***2,93,497***
	01/04/2013 *	***1,23,182***	***1,42,632***	***33,100***	***2,98,914***



**** Including Sikkim***

Source: Geological Survey of India

TABLE - 2.2: STATEWISE INVENTORY OF GEOLOGICAL RESOURCES OF COAL AS ON 1st APRIL 2011, 2012 & 2013

(Quantity in Million Tonnes)

State	As on	Resources			
		Proved	Indicated	Inferred	***Total***
(1)	(2)	(3)	(4)	(5)	***(6)***
GONDAWANA COALFIELDS					
ASSAM	1/4/2011	0	3	0	***3***
	1/4/2012	0	3	0	***3***
	1/4/2013	0	3	0	***3***
ANDHRA PRADESH	1/4/2011	9,297	9,728	3,029	***22,055***
	1/4/2012	9,567	9,554	3,034	***22,155***
	1/4/2013	9,604	9,554	3,049	***22,207***
JHARKHAND	1/4/2011	39,761	32,592	6,584	***78,936***
	1/4/2012	40,163	33,609	6,584	***80,356***
	1/4/2013	41,155	32,986	6,559	***80,701***
BIHAR	1/4/2011	0	0	160	***160***
	1/4/2012	0	0	160	***160***
	1/4/2013	0	0	160	***160***
MADHYA PRADESH	1/4/2011	8,871	12,192	2,063	***23,126***
	1/4/2012	9,309	12,291	2,777	***24,376***
	1/4/2013	9,818	12,355	2,889	***25,061***
CHHATTISGARH	1/4/2011	12,879	32,390	4,011	***49,280***
	1/4/2012	13,988	33,448	3,410	***50,846***
	1/4/2013	14,779	34,107	3,283	***52,169***
MAHARASHTRA	1/4/2011	5,490	3,094	1,950	***10,533***
	1/4/2012	5,667	3,104	2,110	***10,882***
	1/4/2013	5,667	3,186	2,110	***10,964***
ORISSA	1/4/2011	24,492	33,987	10,680	***69,159***
	1/4/2012	25,548	36,466	9,434	***71,447***
	1/4/2013	27,284	37,110	9,316	***73,710***
SIKKIM	1/4/2011	0	58	43	***101***
	1/4/2012	0	58	43	***101***
	1/4/2013	0	58	43	***101***
UTTAR PRADESH	1/4/2011	866	196	0	***1,062***
	1/4/2012	884	178	0	***1,062***
	1/4/2013	884	178	0	***1,062***
WEST BENGAL	1/4/2011	11,753	13,132	5,071	***29,955***
	1/4/2012	12,425	13,358	4,832	***30,616***
	1/4/2013	13,396	12,995	4,892	***31,283***
GONDAWANA	***1/4/2011***	***1,13,408***	***1,37,372***	***33,590***	***2,84,370***
	1/4/2012	***1,17,551***	***1,42,070***	***32,384***	***2,92,005***
	1/4/2013	***1,22,588***	***1,42,532***	***32,301***	***2,97,421***

State	As on	Resources			
		Proved	Indicated	Inferred	***Total***
(1)	(2)	(3)	(4)	(5)	***(6)***
TERTIARY COAL FIELDS					
ARUNACHAL PRADESH	1/4/2011	31	40	19	***90***
	1/4/2012	31	40	19	***90***
	1/4/2013	31	40	19	***90***
ASSAM	1/4/2011	465	43	3	***511***
	1/4/2012	465	43	3	***511***
	1/4/2013	465	43	3	***511***
MEGHALAYA	1/4/2011	89	17	471	***576***
	1/4/2012	89	17	471	***576***
	1/4/2013	89	17	471	***576***
NAGALAND	1/4/2011	9	0	307	***315***
	1/4/2012	9	0	307	***315***
	1/4/2013	9	0	307	***315***
TERTIARY Coalfields	1/4/2011	594	99	799	***1,493***
	1/4/2012	594	99	799	***1,493***
	1/4/2013	594	99	799	***1,493***
INDIA	***1/4/2011***	***1,14,002***	***1,37,471***	***34,390***	***2,85,862***
	1/4/2012	***1,18,145***	***1,42,169***	***33,183***	***2,93,497***
	1/4/2013	***1,23,182***	***1,42,632***	***33,100***	***2,98,914***

Singrimari coalfield of Assam (Non-Coking) is included in Gondawana coalfield, not considered in Tertiary coalfields.

Source: Geological Survey of India

Data may not add up to respective total due to rounding off.

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2013)

State	Field	Type of Coal	Depth (Mt.)	Reserve (Quantity in Million Tonnes)			
				Proved	Indicated	Inferred	**Total**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	**(8)**
WEST BENGAL	RANIGANJ	Medium Coking	0-300	202.89	0.00	0.00	**202.89**
		Medium Coking	300-600	72.66	0.00	0.00	**72.66**
		Medium Coking	600-1200	274.87	0.00	0.00	**274.87**
		Semi Coking	0-300	45.75	14.19	0.00	**59.94**
		Semi Coking	300-600	109.51	113.23	23.48	**246.22**
		Semi Coking	600-1200	32.79	305.07	144.75	**482.61**
		Non Coking	0-300	9930.83	1689.56	266.78	**11887.17**
		Non Coking	300-600	2306.22	3306.53	2099.81	**7712.56**
		Non Coking	600-1200	306.16	1845.26	1477.57	**3628.99**
		TOTAL		***13281.68***	***7273.84***	***4012.39***	***24567.91***
	BARJORA	Non Coking	0-300	114.27	0.00	0.00	**114.27**
	BIRBHUM	Non Coking	0-300	0.00	818.42	114.98	**933.40**
		Non Coking	300-600	0.00	3721.59	575.54	**4297.13**
		Non Coking	600-1200	0.00	1181.43	174.05	**1355.48**
		TOTAL		***0.00***	***5721.44***	***864.57***	***6586.01***
	DARJEELING	Non Coking	0-300	0.00	0.00	15.00	**15.00**
WEST BENGAL	***TOTAL***	***Medium Coking***	***0-1200***	***550.42***	***0.00***	***0.00***	***550.42***
WEST BENGAL	***TOTAL***	***Semi Coking***	***0-1200***	***188.05***	***432.49***	***168.23***	***788.77***
WEST BENGAL	***TOTAL***	***Non Coking***	***0-1200***	***12657.48***	***12562.79***	***4723.73***	***29944.00***
WEST BENGAL	***TOTAL***	***ALL***	***0-1200***	***13395.95***	***12995.28***	***4891.96***	***31283.19***
JHARKHAND	RANIGANJ	Medium Coking	0-300	220.00	8.87	0.00	**228.87**
		Medium Coking	300-600	49.23	8.30	0.00	**57.53**
		Semi Coking	0-300	51.40	0.00	0.00	**51.40**
		Semi Coking	300-600	0.00	40.00	0.00	**40.00**
		Non Coking	0-300	1111.53	89.32	29.55	**1230.40**
		Non Coking	300-600	106.03	320.07	2.00	**428.10**
		TOTAL		***1538.19***	***466.56***	***31.55***	***2036.30***
	JHARIA	Prime Coking	0-600	4039.41	4.01	0.00	**4043.42**
		Prime Coking	600-1200	574.94	694.70	0.00	**1269.64**
		Medium Coking	0-600	4064.18	2.82	0.00	**4067.00**
		Medium Coking	600-1200	296.30	1800.70	0.00	**2097.00**
		Non Coking	0-600	5657.14	444.86	0.00	**6102.00**
		Non Coking	600-1200	496.00	1355.00	0.00	**1851.00**
		TOTAL		***15127.97***	***4302.09***	***0.00***	***19430.06***
	EAST BOKARO	Medium Coking	0-300	2607.20	1269.94	18.71	**3895.85**
		Medium Coking	300-600	384.67	1203.06	58.53	**1646.26**
		Medium Coking	600-1200	255.93	1394.07	786.08	**2436.08**
		Non Coking	0-300	95.17	56.81	0.00	**151.98**
		Non Coking	300-600	8.90	5.69	0.00	**14.59**
		TOTAL		***3351.87***	***3929.57***	***863.32***	***8144.76***

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2013)

State	Field	Type of Coal	Depth (Mt.)	Reserve (Quantity in Million Tonnes)			
				Proved	Indicated	Inferred	**Total**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	**(8)**
JHARKHAND	WEST BOKARO	Medium Coking	0-300	2987.57	1116.32	28.66	**4132.55**
		Medium Coking	300-600	458.94	178.36	5.00	**642.30**
		Non Coking	0-300	268.57	9.37	0.00	**277.94**
		Non Coking	300-600	5.81	4.66	0.00	**10.47**
		TOTAL		***3720.89***	***1308.71***	***33.66***	***5063.26***
	RAMGARH	Medium Coking	0-300	531.52	37.55	0.00	**569.07**
		Semi Coking	0-300	171.94	95.33	0.55	**267.82**
		Semi Coking	300-600	0.00	336.22	52.90	**389.12**
		Non Coking	0-300	7.13	26.20	4.60	**37.93**
		TOTAL		***710.59***	***495.30***	***58.05***	***1263.94***
	NORTH KARANPURA	Medium Coking	0-300	485.08	1163.22	0.00	**1648.30**
		Medium Coking	300-600	23.59	1635.92	413.43	**2072.94**
		Non Coking	0-300	8388.03	2463.07	722.03	**11573.13**
		Non Coking	300-600	602.72	1626.64	729.50	**2958.86**
		Non Coking	600-1200	0.00	25.76	0.00	**25.76**
		TOTAL		***9499.42***	***6914.61***	***1864.96***	***18278.99***
	SOUTH KARANPURA	Medium Coking	300-600	0.00	248.04	32.83	**280.87**
		Medium Coking	600-1200	0.00	265.36	263.40	**528.76**
		Non Coking	0-300	2687.99	634.55	287.45	**3609.99**
		Non Coking	300-600	354.32	763.67	644.03	**1762.02**
		Non Coking	600-1200	0.00	136.94	252.51	**389.45**
		TOTAL		***3042.31***	***2048.56***	***1480.22***	***6571.09***
	AURANGABAD	Non Coking	0-300	352.05	1241.22	43.07	**1636.34**
		Non Coking	300-600	0.00	867.01	423.07	**1290.08**
		Non Coking	600-1200	0.00	33.42	37.27	**70.69**
		TOTAL		***352.05***	***2141.65***	***503.41***	***2997.11***
	HUTAR	Non Coking	0-300	190.79	14.22	32.48	**237.49**
		Non Coking	300-600	0.00	12.33	0.00	**12.33**
		TOTAL		***190.79***	***26.55***	***32.48***	***249.82***
	DALTONGUNJ DEOGARH	Non Coking	0-300	83.86	60.10	0.00	**143.96**
		Non Coking	0-300	326.24	73.60	0.00	**399.84**
		TOTAL		***410.10***	***133.70***	***0.00***	***543.80***
	RAJMAHAL	Non Coking	0-300	2978.84	7531.73	534.77	**11045.34**
		Non Coking	300-600	232.34	3656.87	1151.95	**5041.16**
		Non Coking	600-1200	0.00	30.46	5.10	**35.56**
		TOTAL		***3211.18***	***11219.06***	***1691.82***	***16122.06***
JHARKHAND	***TOTAL***	***Prime Coking***	***0-1200***	***4614.35***	***698.71***	***0.00***	***5313.06***
JHARKHAND	***TOTAL***	***Medium Coking***	***0-1200***	***12364.21***	***10332.53***	***1606.64***	***24303.38***
JHARKHAND	***TOTAL***	***Semi Coking***	***0-1200***	***223.34***	***471.55***	***53.45***	***748.34***
JHARKHAND	***TOTAL***	***Non Coking***	***0-1200***	***23953.46***	***21483.57***	***4899.38***	***50336.41***
JHARKHAND	***TOTAL***	***ALL***	***0-1200***	***41155.36***	***32986.36***	***6559.47***	***80701.19***

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2013)

State	Field	Type of Coal	Depth (Mt.)	Reserve (Quantity in Million Tonnes)			
				Proved	Indicated	Inferred	**Total**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	**(8)**
BIHAR	RAJMAHAL	Non Coking	0-300	0.00	0.00	160.00	**160.00**
BIHAR	***TOTAL***	***Non Coking***	***0-1200***	***0.00***	***0.00***	***160.00***	***160.00***
MADHYA PRADESH	JOHILLA	Non Coking	0-300	185.08	104.09	32.83	**322.00**
	UMARIA	Non Coking	0-300	177.70	3.59	0.00	**181.29**
	PENCH-KANHAN	Medium Coking	0-300	67.54	263.11	16.41	**347.06**
		Medium Coking	300-600	40.29	136.90	142.17	**319.36**
		Non Coking	0-300	1085.75	203.72	138.67	**1428.14**
		Non Coking	300-600	272.20	274.93	394.02	**941.15**
		Non Coking	600-1200	0.00	0.00	0.86	**0.86**
		TOTAL		***1465.78***	***878.66***	***692.13***	***3036.57***
	PATHAKHERA	Non Coking	0-300	261.08	51.70	0.00	**312.78**
		Non Coking	300-600	29.72	36.43	68.00	**134.15**
		TOTAL	***0-600***	***290.80***	***88.13***	***68.00***	***446.93***
	GURGUNDA	Non Coking	0-300	0.00	47.39	0.00	**47.39**
	MOHPANI	Non Coking	0-300	7.83	0.00	0.00	**7.83**
	SOHAGPUR	Medium Coking	0-300	184.57	211.38	2.01	**397.96**
		Medium Coking	300-600	62.09	866.78	90.54	**1019.41**
		Medium Coking	600-1200	0.00	81.94	21.70	**103.64**
		Non Coking	0-300	1503.63	2580.41	57.74	**4141.78**
		Non Coking	300-600	1.27	1532.47	18.19	**1551.93**
		Non Coking	600-1200	0.00	31.27	0.00	**31.27**
		TOTAL		***1751.56***	***5304.25***	***190.18***	***7245.99***
	SINGRAULI	Non Coking	0-300	5208.09	2328.65	1004.59	**8541.33**
		Non Coking	300-600	730.77	3458.78	823.87	**5013.42**
		Non Coking	600-1200	0.00	141.26	77.16	**218.42**
		TOTAL		***5938.86***	***5928.69***	***1905.62***	***13773.17***
MADHYA PRADESH	***TOTAL***	***Medium Coking***	***0-1200***	***354.49***	***1560.11***	***272.83***	***2187.43***
MADHYA PRADESH	***TOTAL***	***Non Coking***	***0-1200***	***9463.12***	***10794.69***	***2615.93***	***22873.74***
MADHYA PRADESH	***TOTAL***	***ALL***	***0-1200***	***9817.61***	***12354.80***	***2888.76***	***25061.17***

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2013)

State	Field	Type of Coal	Depth (Mt.)	Reserve (Quantity in Million Tonnes)			
				Proved	Indicated	Inferred	**Total**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	**(8)**
CHHATTISGARH	SOHAGPUR	*Non Coking*	0-300	94.30	10.08	0.00	**104.38**
	SONHAT	Semi Coking	0-300	70.77	16.45	0.00	**87.22**
		Semi Coking	300-600	0.00	82.80	0.00	**82.80**
		Non Coking	0-300	101.00	936.39	0.00	**1037.39**
		Non Coking	300-600	27.72	859.37	1.89	**888.98**
		Non Coking	600-1200	0.00	568.85	0.00	**568.85**
		TOTAL		***199.49***	***2463.86***	***1.89***	***2665.24***
	JHILIMILI	Non Coking	0-300	228.20	38.90	0.00	**267.10**
	CHIRIMIRI	Non Coking	0-300	320.33	10.83	31.00	**362.16**
	BISRAMPUR	Non Coking	0-300	1010.90	603.80	0.00	**1614.70**
	EAST BISRAMPUR	Non Coking	0-300	0.00	164.82	0.00	**164.82**
	LAKHANPUR	Non Coking	0-300	455.88	3.35	0.00	**459.23**
	PANCHBAHINI	Non Coking	0-300	0.00	11.00	0.00	**11.00**
	HASDEO-ARAND	Non Coking	0-300	1599.72	3599.34	256.37	**5455.43**
		Non Coking	300-600	0.00	66.06	7.33	**73.39**
		TOTAL		***1599.72***	***3665.40***	***263.70***	***5528.82***
	SENDURGARH	Non Coking	0-300	152.89	126.32	0.00	**279.21**
	KORBA	Non Coking	0-300	5087.19	3644.30	99.91	**8831.40**
		Non Coking	300-600	563.95	2292.20	68.11	**2924.26**
		TOTAL		***5651.14***	***5936.50***	***168.02***	***11755.66***
	MAND-RAIGARH	Non Coking	0-300	4588.37	12165.45	1974.87	**18728.69**
		Non Coking	300-600	427.53	5708.22	634.09	**6769.84**
		Non Coking	600-1200	0.00	610.40	0.00	**610.40**
		TOTAL		***5015.90***	***18484.07***	***2608.96***	***26108.93***
	TATAPANI-RAMKOLA	Non Coking	0-300	50.43	1094.17	24.85	**1169.45**
		Non Coking	300-600	0.00	1190.84	184.83	**1375.67**
		Non Coking	600-1200	0.00	302.67	0.00	**302.67**
		TOTAL		***50.43***	***2587.68***	***209.68***	***2847.79***
CHHATTISGARH	***TOTAL***	***Semi Coking***	***0-1200***	***70.77***	***99.25***	***0.00***	***170.02***
CHHATTISGARH	***TOTAL***	***Non Coking***	***0-1200***	***14708.41***	***34007.36***	***3283.25***	***51999.02***
CHHATTISGARH	***TOTAL***	***ALL***	***0-1200***	***14779.18***	***34106.61***	***3283.25***	***52169.04***

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2013)

State	Field	Type of Coal	Depth (Mt.)	Reserve (Quantity in Million Tonnes)			
				Proved	Indicated	Inferred	**Total**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	**(8)**
UTTAR PRADESH	SINGRAULI	Non Coking	0-300	884.04	177.76	0.00	**1061.80**
UTTAR PRADESH	***TOTAL***	***Non Coking***	***0-1200***	**884.04**	**177.76**	**0.00**	**1061.80**
UTTAR PRADESH	***TOTAL***	***ALL***	***0-1200***	***884.04***	***177.76***	***0.00***	***1061.80***
MAHARASHTRA	WARDHA-VALLEY	Non Coking	0-300	3570.32	745.28	298.17	**4613.77**
		Non Coking	300-600	34.53	738.87	1125.90	**1899.30**
		Non Coking	600-1200	0.00	13.37	0.00	**13.37**
		TOTAL		***3604.85***	***1497.52***	***1424.07***	***6526.44***
	KAMPTEE	Non Coking	0-300	1203.05	583.83	41.76	**1828.64**
		Non Coking	300-600	73.09	607.36	324.96	**1005.41**
		Non Coking	600-1200	0.00	13.69	138.72	**152.41**
		TOTAL		***1276.14***	***1204.88***	***505.44***	***2986.46***
	UMRER MAKARDHOKRA	Non Coking	0-300	308.41	0.00	65.53	**373.94**
		Non Coking	300-600	0.00	0.00	83.22	**83.22**
		Non Coking	600-1200	0.00	0.00	11.95	**11.95**
		TOTAL		***308.41***	***0.00***	***160.70***	***469.11***
	NAND BANDER	Non Coking	0-300	379.44	298.20	0.00	**677.64**
		Non Coking	300-600	88.64	168.99	0.00	**257.63**
		Non Coking	600-1200	0.00	16.76	0.00	**16.76**
		TOTAL		***468.08***	***483.95***	***0.00***	***952.03***
	BOKHARA	Non Coking	0-300	10.00	0.00	20.00	**30.00**
MAHARASHTRA	***TOTAL***	***Non Coking***	***0-1200***	***5667.48***	***3186.35***	***2110.21***	**10964.04**
MAHARASHTRA	***TOTAL***	***ALL***	***0-1200***	***5667.48***	***3186.35***	***2110.21***	***10964.04***
ORISSA	IB-RIVER	Non Coking	0-300	8748.69	5556.82	543.84	**14849.35**
		Non Coking	300-600	385.83	3928.27	4564.32	**8878.42**
		Non Coking	600-1200	0.00	27.52	0.00	**27.52**
		TOTAL		***9134.52***	***9512.61***	***5108.16***	***23755.29***
	TALCHER	Non Coking	0-300	17202.31	12393.23	2719.10	**32314.64**
		Non Coking	300-600	946.91	13822.16	1022.49	**15791.56**
		Non Coking	600-1200	0.00	1382.19	466.33	**1848.52**
		TOTAL		***18149.22***	***27597.58***	***4207.92***	***49954.72***
ORISSA	***TOTAL***	***Non Coking***	***0-1200***	***27283.74***	***37110.19***	***9316.08***	**73710.01**
ORISSA	***TOTAL***	***ALL***	***0-1200***	***27283.74***	***37110.19***	***9316.08***	***73710.01***

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2013)

State	Field	Type of Coal	Depth (Mt.)	Reserve (Quantity in Million Tonnes)			
				Proved	Indicated	Inferred	**Total**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	**(8)**
ANDHRA PRADESH	GODAVARI	Non Coking	0-300	6097.96	3403.97	152.24	**9654.17**
	VALLEY	Non Coking	300-600	3460.05	4708.23	618.62	**8786.90**
		Non Coking	600-1200	46.45	1441.71	2277.73	**3765.89**
		TOTAL	***0-1200***	***9604.46***	***9553.91***	***3048.59***	***22206.96***
ANDHRA PRADESH	***TOTAL***	***Non Coking***	***0-1200***	***9604.46***	***9553.91***	***3048.59***	**22206.96**
ANDHRA PRADESH	***TOTAL***	***ALL***	***0-1200***	***9604.46***	***9553.91***	***3048.59***	***22206.96***
SIKKIM	RANGIT VALLEY	Non Coking	0-300	0.00	58.25	42.98	**101.23**
SIKKIM	***TOTAL***	***Non Coking***	***0-1200***	***0.00***	***58.25***	***42.98***	***101.23***
ASSAM	SINGRIMARI	Non Coking	0-300	0.00	2.79	0.00	**2.79**
	MAKUM	High Sulphur	0-300	246.24	4.55	0.00	**250.79**
		High Sulphur	300-600	185.85	16.15	0.00	**202.00**
		TOTAL		***432.09***	***20.70***	***0.00***	***452.79***
	DILLI-JEYPORE	High Sulphur	0-300	32.00	22.02	0.00	**54.02**
	MIKIR HILLS	High Sulphur	0-300	0.69	0.00	3.02	**3.71**
ASSAM	***TOTAL***	***Non Coking***	***0-1200***	***0.00***	***2.79***	***0.00***	**2.79**
ASSAM	***TOTAL***	***High Sulphur***	***0-1200***	***464.78***	***42.72***	***3.02***	**510.52**
ASSAM	***TOTAL***	***ALL***	***0-1200***	***464.78***	***45.51***	***3.02***	***513.31***
ARUNACHAL PRADES	NAMCHIK-NAMPHUK	High Sulphur	0-300	31.23	40.11	12.89	**84.23**
ARUNACHAL PRADES	MIAO BUM	High Sulphur	0-300	0.00	0.00	6.00	**6.00**
ARUNACHAL PRADE	***TOTAL***	***High Sulphur***	***0-1200***	***31.23***	***40.11***	***18.89***	**90.23**
ARUNACHAL PRADE	***TOTAL***	***ALL***	***0-1200***	***31.23***	***40.11***	***18.89***	***90.23***
MEGHALAYA	WEST-DARANGIRI	High Sulphur	0-300	65.40	0.00	59.60	**125.00**
	EAST DARANGIRI	High Sulphur	0-300	0.00	0.00	34.19	**34.19**
	BALPHAKRAM-PENDENGURU	High Sulphur	0-300	0.00	0.00	107.03	**107.03**
	SIJU	High Sulphur	0-300	0.00	0.00	125.00	**125.00**
	LANGRIN	High Sulphur	0-300	10.46	16.51	106.19	**133.16**
	MAWLONG SHELIA	High Sulphur	0-300	2.17	0.00	3.83	**6.00**

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2013)

State	Field	Type of Coal	Depth (Mt.)	Reserve (Quantity in Million Tonnes)			
				Proved	Indicated	Inferred	**Total**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	**(8)**
MEGHALAYA	KHASI HILLS	High Sulphur	0-300	0.00	0.00	10.10	**10.10**
	BAPUNG	High Sulphur	0-300	11.01	0.00	22.65	**33.66**
	JAYANTI HILL	High Sulphur	0-300	0.00	0.00	2.34	**2.34**
MEGHALAYA	***TOTAL***	***High Sulphur***	***0-1200***	***89.04***	***16.51***	***470.93***	**576.48**
MEGHALAYA	***TOTAL***	***ALL***	***0-1200***	***89.04***	***16.51***	***470.93***	***576.48***
NAGALAND	BORJAN	High Sulphur	0-300	5.50	0.00	4.50	**10.00**
	JHANZI-DISAI	High Sulphur	0-300	2.00	0.00	0.08	**2.08**
	TIENSANG	High Sulphur	0-300	1.26	0.00	2.00	**3.26**
	TIRU VALLEY	High Sulphur	0-300	0.00	0.00	6.60	**6.60**
	DGM	High Sulphur	0-300	0.00	0.00	293.47	**293.47**
NAGALAND	***TOTAL***	***High Sulphur***	***0-1200***	***8.76***	***0.00***	***306.65***	***315.41***
NAGALAND	***TOTAL***	***ALL***	***0-1200***	***8.76***	***0.00***	***306.65***	***315.41***
INDIA	***TOTAL***	***Prime Coking***	***0-1200***	***4614.35***	***698.71***	***0.00***	***5313.06***
INDIA	***TOTAL***	***Medium Coking***	***0-1200***	***13269.12***	***11892.64***	***1879.47***	***27041.23***
INDIA	***TOTAL***	***Semi Coking***	***0-1200***	***482.16***	***1003.29***	***221.68***	***1707.13***
INDIA	***TOTAL***	***Non Coking***	***0-1200***	***104222.19***	***128937.66***	***30200.15***	***263360.00***
INDIA	***TOTAL***	***High Sulphur***	***0-1200***	***593.81***	***99.34***	***799.49***	***1492.64***
INDIA	***TOTAL***		***0-1200***	***123181.63***	***142631.64***	***33100.79***	***298914.06***
INDIA	***Total for Tertiary Coalfields***		***0-1200***	***593.81***	***99.34***	***799.49***	***1492.64***
INDIA	***Total for Gondwana Coalfields****		***0-1200***	***122587.82***	***142532.30***	***32301.30***	***297421.42***
INDIA	***GRAND TOTAL***		***0-1200***	***123181.63***	***142631.64***	***33100.79***	***298914.06***

** Including Sikkim*

TABLE 2.4: COAL RESERVE BY TYPE OF COAL AND DEPTH AS ON (as on 01-04-2013)

State	Field	Type of Coal	Depth (Metre)	Reserve (Quantity in Million Tonnes)			
				Proved	Indicated	Inferred	***Total***
(1)	(2)	(3)	(4)	(5)	(6)	(7)	***(8)***
INDIA	*TOTAL (Jharia)*	Prime Coking	0-600	4039.41	4.01	0.00	***4043.42***
INDIA	*TOTAL (Jharia)*	Prime Coking	600-1200	574.94	694.70	0.00	***1269.64***
INDIA	*TOTAL (Other than Jharia)*	Medium Coking	0-300	7286.37	4070.39	65.79	***11422.55***
INDIA	*TOTAL (Other than Jharia)*	Medium Coking	300-600	1091.47	4277.36	742.50	***6111.33***
INDIA	*TOTAL (Jharia)*	Medium Coking	0-600	4064.18	2.82	0.00	***4067.00***
INDIA	*TOTAL*	Medium Coking	600-1200	827.10	3542.07	1071.18	***5440.35***
INDIA	*TOTAL*	Semi Coking	0-300	339.86	125.97	0.55	***466.38***
INDIA	*TOTAL*	Semi Coking	300-600	109.51	572.25	76.38	***758.14***
INDIA	*TOTAL*	Semi Coking	600-1200	32.79	305.07	144.75	***482.61***
INDIA	*TOTAL*	High Sulphur	0-300	407.96	83.19	799.49	***1290.64***
INDIA	*TOTAL*	High Sulphur	300-600	185.85	16.15	0.00	***202.00***
INDIA	*TOTAL (Other than Jharia)*	Non Coking	0-300	87057.89	65656.60	9715.16	***162429.65***
INDIA	*TOTAL (Other than Jharia)*	Non Coking	300-600	10658.55	53678.24	15565.74	***79902.53***
INDIA	*TOTAL (Jharia)*	Non Coking	0-600	5657.14	444.86	0.00	***6102.00***
INDIA	*TOTAL*	Non Coking	600-1200	848.61	9157.96	4919.25	***14925.82***
INDIA	***TOTAL***	***Grand Total***	***0-1200***	***123181.63***	***142631.64***	***33100.79***	***298914.06***

Source: Data compiled by Geological Survey of India based on survey results available from GSI,

Central Mine Planning and Design Institute, Singareni Collieries Company Limited.

TABLE-2.5: GRADEWISE INVENTORY OF NON-COKING COAL RESERVE IN GONDWANA COALFIELDS OF INDIA (as on 01-04-2013)

(Quantity in Million Tonnes)

State/ Field	Depth Range(M)	PROVED						INDICATED						Inferred	Grand Total
		GR-A	GR-B	GR-C	GR-D	GR-EFG	Total	GR-A	GR-B	GR-C	GR-D	GR-EFG	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	**(8)**	(9)	(10)	(11)	(12)	(13)	**(14)**	(15)	**(16)**
WEST BENGAL															
Raniganj	0-300	68.78	1546.31	3477.81	2833.15	2004.78	**9930.83**	28.57	191.18	486.52	459.78	523.51	**1689.56**	266.78	**11887.17**
	300-600	55.88	601.41	665.58	483.33	500.02	**2306.22**	56.08	688.48	1209.82	710.53	641.62	**3306.53**	2099.81	**7712.56**
	600-1200	12.62	77.56	120.46	77.27	18.25	**306.16**	152.85	367.36	526.17	416.58	382.30	**1845.26**	1477.57	**3628.99**
	0-1200	137.28	2225.28	4263.85	3393.75	2523.05	**12543.21**	237.50	1247.02	2222.51	1586.89	1547.43	**6841.35**	3844.16	**23228.72**
Barjora	0-300	0.00	0.00	0.00	0.00	114.27	**114.27**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	**114.27**
Darjeeling	0-300	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	15.00	**15.00**
Birbhum	0-300	0.00	0.00	0.00	0.00	0.00	**0.00**	1.28	0.00	33.58	198.97	584.59	**818.42**	114.98	**933.40**
	300-600	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	45.10	1117.04	576.85	1982.60	**3721.59**	575.54	**4297.13**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	18.60	296.17	528.37	338.29	**1181.43**	174.05	**1355.48**
	0-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	1.28	63.70	1446.79	1304.19	2905.48	**5721.44**	864.57	**6586.01**
Total		**137.28**	**2225.28**	**4263.85**	**3393.75**	**2637.32**	**12657.48**	**238.78**	**1310.72**	**3669.30**	**2891.08**	**4452.91**	**12562.79**	**4723.73**	**29944.00**
Jharkhand															
Raniganj	0-300	0.00	3.04	51.03	190.45	867.01	**1111.53**	0.00	0.00	0.00	0.72	88.60	**89.32**	29.55	**1230.40**
	300-600	0.00	0.00	0.00	20.63	85.40	**106.03**	0.00	0.00	0.00	142.07	178.00	**320.07**	2.00	**428.10**
	600-1200	0.00	3.04	51.03	211.08	952.41	**1217.56**	0.00	0.00	0.00	142.79	266.60	**409.39**	31.55	**1658.50**
Jharia	0-600	63.39	42.84	86.85	462.04	5002.02	**5657.14**	6.08	2.27	0.99	7.60	427.92	**444.86**	0.00	**6102.00**
	600-1200	5.64	3.42	6.50	35.95	444.49	**496.00**	15.41	9.34	17.76	98.21	1214.28	**1355.00**	0.00	**1851.00**
	0-1200	69.03	46.26	93.35	497.99	5446.51	**6153.14**	21.49	11.61	18.75	105.81	1642.20	**1799.86**	0.00	**7953.00**
East	0-300	0.00	0.11	3.15	13.61	78.30	**95.17**	0.00	7.76	7.77	19.82	21.46	**56.81**	0.00	**151.98**
Bokaro	300-600	0.00	0.00	0.30	1.55	7.05	**8.90**	0.00	0.40	0.40	1.61	3.28	**5.69**	0.00	**14.59**
	0-600	0.00	0.11	3.45	15.16	85.35	**104.07**	0.00	8.16	8.17	21.43	24.74	**62.50**	0.00	**166.57**
West	0-300	0.00	1.26	14.15	45.93	207.23	**268.57**	0.00	0.02	0.11	0.11	9.13	**9.37**	0.00	**277.94**
Bokaro	300-600	0.00	0.00	0.38	1.44	3.99	**5.81**	0.00	0.00	0.30	1.15	3.21	**4.66**	0.00	**10.47**
	0-600	0.00	1.26	14.53	47.37	211.22	**274.38**	0.00	0.02	0.41	1.26	12.34	**14.03**	0.00	**288.41**
Ramgarh	0-300	0.00	0.00	0.00	3.50	3.63	**7.13**	0.00	0.00	0.00	13.10	13.10	**26.20**	4.60	**37.93**
North	0-300	37.21	66.56	143.92	968.35	7171.99	**8388.03**	6.56	1.19	4.05	308.19	2143.08	**2463.07**	722.03	**11573.13**
Karanpura	300-600	0.00	0.25	7.56	127.77	467.14	**602.72**	0.00	2.85	3.77	451.75	1168.27	**1626.64**	729.50	**2958.86**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.39	25.37	**25.76**	0.00	**25.76**
	0-1200	37.21	66.81	151.48	1096.12	7639.13	**8990.75**	6.56	4.04	7.82	760.33	3336.72	**4115.47**	1451.53	**14557.75**
South	0-300	149.61	123.15	337.46	605.77	1472.00	**2687.99**	0.06	46.00	113.39	214.21	260.89	**634.55**	287.45	**3609.99**
Karanpura	300-600	10.57	20.16	33.73	75.68	214.18	**354.32**	1.46	69.15	104.23	235.03	353.80	**763.67**	644.03	**1762.02**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	0.83	12.09	37.00	43.49	43.53	**136.94**	252.51	**389.45**
	0-1200	160.18	143.31	371.19	681.45	1686.18	**3042.31**	2.35	127.24	254.62	492.73	658.22	**1535.16**	1183.99	**5761.46**

TABLE-2.5: GRADEWISE INVENTORY OF NON-COKING COAL RESERVE IN GONDWANA COALFIELDS OF INDIA (as on 01-04-2013)

(Quantity in Million Tonnes)

State/ Field	Depth Range(M)	PROVED						INDICATED						Inferred	Grand Total
		GR-A	GR-B	GR-C	GR-D	GR-EFG	Total	GR-A	GR-B	GR-C	GR-D	GR-EFG	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Aurangabad	0-300	0.00	0.00	0.00	0.04	352.01	**352.05**	0.00	8.04	11.03	134.71	1087.44	**1241.22**	43.07	**1636.34**
	300-600	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	22.33	95.19	749.49	**867.01**	423.07	**1290.08**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	14.74	18.68	**33.42**	37.27	**70.69**
	0-1200	0.00	0.00	0.00	0.04	352.01	**352.05**	0.00	8.04	33.36	244.64	1855.61	**2141.65**	503.41	**2997.11**
Hutar	0-300	28.39	56.51	41.01	40.23	24.65	**190.79**	4.22	5.00	5.00	0.00	0.00	**14.22**	32.48	**237.49**
	300-600	0.00	0.00	0.00	0.00	0.00	**0.00**	3.17	3.83	3.83	0.72	0.78	**12.33**	0.00	**12.33**
	0-600	28.39	56.51	41.01	40.23	24.65	**190.79**	7.39	8.83	8.83	0.72	0.78	**26.55**	32.48	**249.82**
Daltonganj	0-300	10.00	20.00	29.00	4.00	20.86	**83.86**	7.14	14.28	20.71	2.86	15.11	**60.10**	0.00	**143.96**
Deogarh	0-300	0.87	25.19	70.81	90.03	139.34	**326.24**	0.20	5.68	15.97	20.31	31.44	**73.60**	0.00	**399.84**
Rajmahal	0-300	0.00	0.56	53.05	160.26	2764.97	**2978.84**	0.34	27.73	320.61	1634.64	5548.41	**7531.73**	534.77	**11045.34**
	300-600	0.00	0.00	3.82	35.20	193.32	**232.34**	0.00	30.45	380.07	1227.36	2018.99	**3656.87**	1151.95	**5041.16**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.71	29.75	**30.46**	5.10	**35.56**
	0-1200	0.00	0.56	56.87	195.46	2958.29	**3211.18**	0.34	58.18	700.68	2862.71	7597.15	**11219.06**	1691.82	**16122.06**
Total		**305.68**	**363.05**	**882.72**	**2882.43**	**19519.58**	**23953.46**	**45.47**	**246.08**	**1069.32**	**4668.69**	**15454.01**	**21483.57**	**4899.38**	**50336.41**
Bihar															
Rajmahal	0-300	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	160.00	**160.00**
Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**160.00**	**160.00**
Madhya Pradesh															
Johilla	0-300	0.31	36.17	70.29	44.33	33.98	**185.08**	0.00	32.52	32.59	17.25	21.73	**104.09**	32.83	**322.00**
Umaria	0-300	0.50	11.63	39.02	59.69	66.86	**177.70**	0.11	0.49	1.02	1.36	0.61	**3.59**	0.00	**181.29**
Pench-	0-300	53.94	153.23	292.84	276.99	308.75	**1085.75**	14.57	35.20	55.48	73.43	25.04	**203.72**	138.67	**1428.14**
Kanhan	300-600	17.61	41.15	66.51	72.97	73.96	**272.20**	15.99	88.26	110.15	12.36	48.17	**274.93**	394.02	**941.15**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.86	**0.86**
	0-600	71.55	194.38	359.35	349.96	382.71	**1357.95**	30.56	123.46	165.63	85.79	73.21	**478.65**	533.55	**2370.15**
Pathakhera	0-300	1.08	13.12	63.51	87.45	95.92	**261.08**	0.00	2.76	4.36	12.54	32.04	**51.70**	0.00	**312.78**
	300-600	0.00	0.22	4.73	13.63	11.14	**29.72**	0.00	0.00	2.72	14.68	19.03	**36.43**	68.00	**134.15**
	0-600	1.08	13.34	68.24	101.08	107.06	**290.80**	0.00	2.76	7.08	27.22	51.07	**88.13**	68.00	**446.93**
Gurgunda	0-300	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	47.39	**47.39**	0.00	**47.39**
Mohpani	0-300	0.00	0.00	0.00	0.00	7.83	**7.83**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	**7.83**
Sohagpur	0-300	114.59	238.54	428.30	360.70	361.50	**1503.63**	101.12	430.10	887.97	617.79	543.43	**2580.41**	57.74	**4141.78**
	300-600	0.00	0.00	0.40	0.27	0.60	**1.27**	112.47	389.54	493.60	284.97	251.89	**1532.47**	18.19	**1551.93**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	0.96	12.64	3.14	6.88	7.65	**31.27**	0.00	**31.27**
	0-1200	114.59	238.54	428.70	360.97	362.10	**1504.90**	214.55	832.28	1384.71	909.64	802.97	**4144.15**	75.93	**5724.98**

TABLE-2.5: GRADEWISE INVENTORY OF NON-COKING COAL RESERVE IN GONDWANA COALFIELDS OF INDIA (as on 01-04-2013)

(Quantity in Million Tonnes)

State/ Field	Depth Range(M)	PROVED						INDICATED						Inferred	Grand Total
		GR-A	GR-B	GR-C	GR-D	GR-EFG	Total	GR-A	GR-B	GR-C	GR-D	GR-EFG	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Singrauli	0-300	4.37	77.06	751.63	1138.10	3236.93	**5208.09**	42.54	222.34	750.90	560.92	751.95	**2328.65**	1004.59	**8541.33**
	300-600	0.02	0.46	64.41	236.19	429.69	**730.77**	39.29	356.16	781.75	1185.60	1095.98	**3458.78**	823.87	**5013.42**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	17.14	42.63	47.22	25.22	9.05	**141.26**	77.16	**218.42**
	0-1200	4.39	77.52	816.04	1374.29	3666.62	**5938.86**	98.97	621.13	1579.87	1771.74	1856.98	**5928.69**	1905.62	**13773.17**
Total		**192.42**	**571.58**	**1781.64**	**2290.32**	**4627.16**	9463.12	**344.19**	**1612.64**	**3170.90**	**2813.00**	**2853.96**	10794.69	**2615.93**	**22873.74**
Chhattisgarh															
Sohagpur	0-300	23.20	35.40	29.02	4.92	1.76	**94.30**	0.43	1.28	6.99	0.96	0.42	**10.08**	0.00	**104.38**
Sonhat	0-300	14.31	35.83	20.00	12.80	18.06	**101.00**	0.00	9.21	51.22	291.53	584.43	**936.39**	0.00	**1037.39**
	300-600	1.25	19.37	5.45	1.65	0.00	**27.72**	11.71	129.29	201.72	373.10	143.55	**859.37**	1.89	**888.98**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	0.10	46.09	105.85	176.77	240.04	**568.85**	0.00	**568.85**
	0-1200	15.56	55.20	25.45	14.45	18.06	**128.72**	11.81	184.59	358.79	841.40	968.02	**2364.61**	1.89	**2495.22**
Jhilimili	0-300	64.86	49.70	27.40	15.02	71.22	**228.20**	14.02	10.11	7.78	0.66	6.33	**38.90**	0.00	**267.10**
Chirimiri	0-300	66.14	116.11	116.09	11.00	10.99	**320.33**	0.76	5.04	5.03	0.00	0.00	**10.83**	31.00	**362.16**
Bisrampur	0-300	98.33	261.73	161.10	216.12	273.62	**1010.90**	15.37	136.95	118.24	127.23	206.01	**603.80**	0.00	**1614.70**
East of Bisrampur	0-300	0.00	0.00	0.00	0.00	0.00	**0.00**	14.95	5.59	28.17	77.54	38.57	**164.82**	0.00	**164.82**
Lakhanpur	0-300	4.22	44.21	125.23	135.25	146.97	**455.88**	0.00	0.00	0.03	0.79	2.53	**3.35**	0.00	**459.23**
Panchbahini	0-300	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.01	6.60	1.73	2.66	**11.00**	0.00	**11.00**
Hasdo-Arand	0-300	1.36	18.40	91.54	298.05	1190.37	**1599.72**	61.42	151.20	643.87	1656.43	1086.42	**3599.34**	256.37	**5455.43**
	300-600	0.00	0.00	0.00	0.00	0.00	**0.00**	8.69	28.80	12.12	14.14	2.31	**66.06**	7.33	**73.39**
	0-600	1.36	18.40	91.54	298.05	1190.37	**1599.72**	70.11	180.00	655.99	1670.57	1088.73	**3665.40**	263.70	**5528.82**
Sendurgarh	0-300	0.78	27.79	48.24	32.53	43.55	**152.89**	11.57	51.22	30.77	19.27	13.49	**126.32**	0.00	**279.21**
Korba	0-300	223.01	110.08	148.80	252.60	4352.70	**5087.19**	38.15	32.95	114.86	126.29	3332.05	**3644.30**	99.91	**8831.40**
	300-600	10.00	0.00	0.00	6.03	547.92	**563.95**	7.50	0.00	39.81	372.77	1872.12	**2292.20**	68.11	**2924.26**
	0-600	233.01	110.08	148.80	258.63	4900.62	**5651.14**	45.65	32.95	154.67	499.06	5204.17	**5936.50**	168.02	**11755.66**
Mand-Raigarh	0-300	26.74	38.62	197.08	442.12	3883.81	**4588.37**	78.71	32.91	253.47	1803.92	9996.44	**12165.45**	1974.87	**18728.69**
	300-600	40.42	24.33	51.94	88.33	222.51	**427.53**	96.79	92.51	494.89	1703.76	3320.27	**5708.22**	634.09	**6769.84**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	82.03	162.49	365.88	**610.40**	0.00	**610.40**
	0-1200	67.16	62.95	249.02	530.45	4106.32	**5015.90**	175.50	125.42	830.39	3670.17	13682.59	**18484.07**	2608.96	**26108.93**
Tatapani-	0-300	1.15	1.08	2.54	3.92	41.74	**50.43**	28.55	73.59	236.84	283.62	471.57	**1094.17**	24.85	**1169.45**
Ramkola	300-600	0.00	0.00	0.00	0.00	0.00	**0.00**	52.00	55.26	226.35	286.29	570.94	**1190.84**	184.83	**1375.67**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	17.73	12.42	30.74	49.79	191.99	**302.67**	0.00	**302.67**
	0-1200	1.15	1.08	2.54	3.92	41.74	**50.43**	98.28	141.27	493.93	619.70	1234.50	**2587.68**	209.68	**2847.79**
Total		**575.77**	**782.65**	**1024.43**	**1520.34**	**10805.22**	14708.41	**458.45**	**874.43**	**2697.38**	**7529.08**	**22448.02**	34007.36	**3283.25**	**51999.02**

TABLE-2.5: GRADEWISE INVENTORY OF NON-COKING COAL RESERVE IN GONDWANA COALFIELDS OF INDIA (as on 01-04-2013)

(Quantity in Million Tonnes)

State/ Field	Depth Range(M)	PROVED						INDICATED						Inferred	Grand Total
		GR-A	GR-B	GR-C	GR-D	GR-EFG	Total	GR-A	GR-B	GR-C	GR-D	GR-EFG	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Uttar Pradesh															
Singrauli	0-300	0.00	0.00	8.05	275.80	600.19	**884.04**	0.00	0.00	0.00	99.09	78.67	**177.76**	0.00	**1061.80**
Total	**0-300**	**0.00**	**0.00**	**8.05**	**275.80**	**600.19**	**884.04**	**0.00**	**0.00**	**0.00**	**99.09**	**78.67**	**177.76**	**0.00**	**1061.80**
Maharashtra															
Wardha Valley	0-300	0.00	31.47	297.86	1644.17	1596.82	**3570.32**	0.00	24.33	46.14	322.51	352.30	**745.28**	298.17	**4613.77**
	300-600	0.00	0.00	1.59	21.17	11.77	**34.53**	0.00	46.03	104.39	202.32	386.13	**738.87**	1125.90	**1899.30**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	11.09	2.28	**13.37**	0.00	**13.37**
	0-1200	0.00	31.47	299.45	1665.34	1608.59	**3604.85**	0.00	70.36	150.53	535.92	740.71	**1497.52**	1424.07	**6526.44**
Kamptee	0-300	1.86	53.12	327.66	339.31	481.10	**1203.05**	5.13	12.02	113.36	190.87	262.45	**583.83**	41.76	**1828.64**
	300-600	0.00	0.91	23.86	28.82	19.50	**73.09**	16.64	21.73	178.33	153.33	237.33	**607.36**	324.96	**1005.41**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	6.77	0.00	0.31	2.22	4.39	**13.69**	138.72	**152.41**
	0-1200	1.86	54.03	351.52	368.13	500.60	**1276.14**	28.54	33.75	292.00	346.42	504.17	**1204.88**	505.44	**2986.46**
Umrer-	0-300	0.00	0.53	42.18	127.29	138.41	**308.41**	0.00	0.00	0.00	0.00	0.00	**0.00**	65.53	**373.94**
Makardhokra	300-600	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	83.22	**83.22**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	11.95	**11.95**
	0-1200	0.00	0.53	42.18	127.29	138.41	**308.41**	0.00	0.00	0.00	0.00	0.00	**0.00**	160.70	**469.11**
Nand-Bander	0-300	2.80	45.41	88.14	94.31	148.78	**379.44**	0.00	9.84	77.52	110.84	100.00	**298.20**	0.00	**677.64**
	300-600	0.06	5.18	18.80	6.76	57.84	**88.64**	0.00	11.45	72.33	41.06	44.15	**168.99**	0.00	**257.63**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	5.40	9.00	1.72	0.64	**16.76**	0.00	**16.76**
	0-1200	2.86	50.59	106.94	101.07	206.62	**468.08**	0.00	26.69	158.85	153.62	144.79	**483.95**	0.00	**952.03**
Bokhara	0-300	0.00	1.33	1.33	2.66	4.68	**10.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	20.00	**30.00**
Total		**4.72**	**137.95**	**801.42**	**2264.49**	**2458.90**	**5667.48**	**28.54**	**130.80**	**601.38**	**1035.96**	**1389.67**	**3186.35**	**2110.21**	**10964.04**
Orissa															
Ib-River	0-300	0.33	4.54	49.33	277.02	8417.47	**8748.69**	4.15	32.68	92.11	851.98	4575.90	**5556.82**	543.84	**14849.35**
	300-600	0.00	5.50	19.60	27.53	333.20	**385.83**	15.86	142.20	209.76	495.67	3064.78	**3928.27**	4564.32	**8878.42**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.63	0.19	13.34	13.36	**27.52**	0.00	**27.52**
	0-1200	0.33	10.04	68.93	304.55	8750.67	**9134.52**	20.01	175.51	302.06	1360.99	7654.04	**9512.61**	5108.16	**23755.29**
Talcher	0-300	24.87	205.38	235.62	475.94	16260.50	**17202.31**	61.61	185.52	381.13	1408.44	10356.53	**12393.23**	2719.10	**32314.64**
	300-600	1.37	2.95	10.16	43.07	889.36	**946.91**	48.06	199.25	343.57	1512.33	11718.95	**13822.16**	1022.49	**15791.56**
	600-1200	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	21.12	79.10	115.67	1166.30	**1382.19**	466.33	**1848.52**
Talcher	0-1200	26.24	208.33	245.78	519.01	17149.86	**18149.22**	109.67	405.89	803.80	3036.44	23241.78	**27597.58**	4207.92	**49954.72**
Total		**26.57**	**218.37**	**314.71**	**823.56**	**25900.53**	**27283.74**	**129.68**	**581.40**	**1105.86**	**4397.43**	**30895.82**	**37110.19**	**9316.08**	**73710.01**
Andhra Pradesh															
Godavari	0-300	45.13	230.04	1227.53	1264.51	3330.75	**6097.96**	46.51	99.35	290.73	454.14	2513.24	**3403.97**	152.24	**9654.17**
	300-600	25.76	175.34	684.59	1062.87	1511.49	**3460.05**	46.41	166.13	501.27	662.25	3332.17	**4708.23**	618.62	**8786.90**
	600-1200	2.17	3.56	1.66	17.66	21.40	**46.45**	8.19	150.48	230.39	361.74	690.91	**1441.71**	2277.73	**3765.89**
	0-1200	73.06	408.94	1913.78	2345.04	4863.64	**9604.46**	101.11	415.96	1022.39	1478.13	6536.32	**9553.91**	3048.59	**22206.96**
Total		**73.06**	**408.94**	**1913.78**	**2345.04**	**4863.64**	**9604.46**	**101.11**	**415.96**	**1022.39**	**1478.13**	**6536.32**	**9553.91**	**3048.59**	**22206.96**
Assam															
Singrimari	0-300	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	2.79	0.00	0.00	0.00	**2.79**	0.00	**2.79**
Total	**0-300**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.79**	**0.00**	**0.00**	**0.00**	**2.79**	**0.00**	**2.79**
Sikkim															
Rangit Valley	0-300	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	4.43	48.21	5.61	**58.25**	42.98	**101.23**
Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**4.43**	**48.21**	**5.61**	**58.25**	**42.98**	**101.23**
Grand Total		**1315.50**	**4707.82**	**10990.60**	**15795.73**	**71412.54**	**104222.19**	**1346.22**	**5174.82**	**13340.96**	**24960.67**	**84114.99**	**128937.66**	**30200.15**	**263360.00**

Source: Geological Survey Of India

TABLE - 2.6 : STATEWISE INVENTORY OF GEOLOGICAL RESERVE OF LIGNITE

AS ON 1st APRIL 2011, 2012 & 2013

State	As on	Resources (Quantiry in Million Tonnes)			
		Proved	Indicated	Inferred	***Total***
(2)	(1)	(3)	(4)	(5)	***(6)***
Gujarat	04-01-2011	1243.65	318.70	1159.70	***2722.05***
	04-01-2012	1278.65	283.70	1159.70	***2722.05***
	04-01-2013	1278.65	283.70	1159.70	***2722.05***
J & K	04-01-2011	0.00	20.25	7.30	***27.55***
	04-01-2012	0.00	20.25	7.30	***27.55***
	04-01-2013	0.00	20.25	7.30	***27.55***
Kerala	04-01-2011	0.00	0.00	9.65	***9.65***
	04-01-2012	0.00	0.00	9.65	***9.65***
	04-01-2013	0.00	0.00	9.65	***9.65***
Pondicherry	04-01-2011	0.00	405.61	11.00	***416.61***
	04-01-2012	0.00	405.61	11.00	***416.61***
	04-01-2013	0.00	405.61	11.00	***416.61***
Rajasthan	04-01-2011	1166.96	2148.72	1519.61	***4835.29***
	04-01-2012	1167.02	2152.59	1587.40	***4907.01***
	04-01-2013	1167.02	2671.93	1850.57	***5689.52***
Tamilnadu	04-01-2011	3735.23	22900.05	6257.64	***32892.92***
	04-01-2012	3735.23	22900.05	7242.85	***33878.13***
	04-01-2013	3735.23	22900.05	7712.43	***34347.71***
West Bengal	04-01-2011	0.00	0.93	0.86	***1.79***
	04-01-2012	0.00	0.93	0.86	***1.79***
	04-01-2013	0.00	1.13	1.64	***2.77***
All India	***04-01-2011***	***6145.84***	***25794.26***	***8965.76***	***40905.86***
	04-01-2012	***6180.90***	***25763.13***	***10018.76***	***41962.79***
	04-01-2013	***6180.90***	***26282.67***	***10752.29***	***43215.86***

Note: Figures compiled by Neyveli Lignite Corporation Ltd.

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2013)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	**Total**	***Grand Total***
(1)	(2)	(3)	(4)	(5)	(6)	**(7)**	***(8)***
Neyveli lignite field							
Pandicherry	Bahur	0-150	0.00	405.61	0.00	**405.61**	***405.61***
	West of Bahur	0-150	0.00	0.00	11.00	**11.00**	***11.00***
Total for Pandicherry			***0.00***	***405.61***	***11.00***	***416.61***	***416.61***
Tamil Nadu							
Cuddalore	*Bahur	0-150	0.00	168.78	0.00	**168.78**	***168.78***
	*West of Bahur	0-150	0.00	0.00	102.19	**102.19**	***102.19***
	Bhuvanagiri-Kullanchavadi	150-300	0.00	0.00	385.40	**385.40**	***385.40***
	Eastern part of Neyveli	150-300	0.00	218.65	37.68	**256.33**	
		>300	0.00	156.86	149.13	**305.99**	***562.32***
	Eastern part of NLC leasehold are	>150	0.00	0.00	55.00	**55.00**	***55.00***
	NLC Leasehold areas	0-150	2831.00	134.00	138.00	**3103.00**	
	(Mine-I & Expansion, Mine 1A, II &	150-300	0.00	0.00	24.00	**24.00**	***3127.00***
	Expansion,Mine III,Block B,						
	Devangudi & areas locked up between						
	Mine I, Mine II, Mine III and river)						
	Kudikadu	0-150	0.00	0.00	133.38	**133.38**	***133.38***
	Kullanchavadi	>150	0.00	0.00	175.00	**175.00**	***175.00***
	South of Vellar(Srimushnam)	0-150	0.00	501.00	0.00	**501.00**	
		150-300	0.00	9.00	0.00	**9.00**	***510.00***
	Veeranam(Lalpettai)	150-300	0.00	1341.17	0.00	**1341.17**	
		>300	0.00	1.28	0.00	**1.28**	***1342.45***
Ariyalur	Meensuruti	0-150	0.00	0.00	458.00	**458.00**	***458.00***
	Jayamkondamcholapuram	0-150	904.23	302.50	0.00	**1206.73**	***1206.73***
	Michaelpatti	0-150	0.00	0.00	23.07	**23.07**	***23.07***
	Neyveli Lignite Fields		***3735.23***	***3238.85***	***1691.85***	***8665.93***	***8665.93***
	(Both Bahur and West of Bahur blocks cover parts of Tamil Nadu and Pondicherry state)						

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2013)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	**Total**	***Grand Total***
(1)	(2)	(3)	(4)	(5)	(6)	**(7)**	***(8)***
Mannargudi lignite field							
Thanjavur & Thiruvarur	Mannargudi-Central	150-300	0.00	3159.00	0.00	**3159.00**	
		>300	0.00	1843.55	0.00	**1843.55**	***5002.55***
	Mannargudi-NE	150-300	0.00	275.26	0.00	**275.26**	
		>300	0.00	5867.28	0.00	**5867.28**	***6142.54***
	Mannargudi-NE extn.	>300	0.00	0.00	3057.95	**3057.95**	***3057.95***
	Mannargudi-SE	150-300	0.00	553.00	0.00	**553.00**	
		>300	0.00	5505.37	0.00	**5505.37**	***6058.37***
	Melnattam-Agraharam	150-300	0.00	44.60	65.51	**110.11**	***110.11***
Thanjavur	Mannargudi -NW	150-300	0.00	575.57	0.00	**575.57**	
		>300	0.00	421.10	0.00	**421.10**	***996.67***
	Mannargudi -SW	150-300	0.00	481.80	0.00	**481.80**	***481.80***
	Maharajapuram	150-300	0.00	23.95	0.00	**23.95**	***23.95***
	Orattanadu-Pattukottai	150-300	0.00	10.80	44.31	**55.11**	***55.11***
	Vadaseri(Orattanadu-Pattukottai)	0-150	0.00	9.37	0.00	**9.37**	
		150-300	0.00	745.83	0.00	**745.83**	***755.20***
	Madukkur-Anaikkadu	150-300	0.00	17.41	28.35	**45.76**	***45.76***
	Veppanagulam-Kasangadu	150-300	0.00	4.88	0.00	**4.88**	***4.88***
Thanjavur & Nagappattinam	Alangudi	150-300	0.00	24.98	48.01	**72.99**	
		>300	0.00	29.31	55.72	**85.03**	***158.02***
	Pandanallur	150-300	0.00	6.48	12.94	**19.42**	
		>300	0.00	18.14	36.11	**54.25**	***73.67***
	Thirumangalam	>300	0.00	233.22	295.30	**528.52**	***528.52***
	Tiruumangaichcheri	150-300	0.00	21.05	43.90	**64.95**	
		>300	0.00	26.03	42.21	**68.24**	***133.19***
Thiruvarur & Nagappattinam	Nachiyarkudi	>300	0.00	0.00	574.05	**574.05**	***574.05***
	Mannargudi lignite Field		***0.00***	***19897.98***	***4304.36***	***24202.34***	***24202.34***

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2013)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	**Total**	***Grand Total***
(1)	(2)	(3)	(4)	(5)	(6)	**(7)**	***(8)***
	Ramanathapuram lignite field						
Ramanathapuram	Bogalur	>300	0.00	48.28	76.34	**124.62**	***124.62***
	Misal	>301	0.00	23.92	28.79	**52.71**	***52.71***
	Tiyanur	>302	0.00	96.63	167.30	**263.93**	***263.93***
	Bogalur East	>300	0.00	0.00	469.58	**469.58**	***469.58***
Ramnad	Rajasing Mangalam	>300	0.00	0.00	964.97	**964.97**	***964.97***
Ramnad & Sivaganga	Sattanur	>300	0.00	0.00	20.24	**20.24**	***20.24***
	Ramanathapuram lignite field		***0.00***	***168.83***	***1727.22***	***1896.05***	***1896.05***
Total for Tamil Nadu			***3735.23***	***22900.05***	***7712.43***	***34347.71***	***34347.71***
Rajasthan							
Bikaner	Ambasar-Gigasar	0-150	0.00	12.33	0.00	**12.33**	***12.33***
	Badhnu	0-150	0.00	0.00	1.87	**1.87**	***1.87***
	Bangarsar-Jaimalsar	0-150	0.00	0.00	13.74	**13.74**	
		150-300	0.00	0.00	5.37	**5.37**	***19.11***
	Bania	0-150	0.00	0.49	0.00	**0.49**	***0.49***
	Bapeau	0-150	0.00	0.00	35.58	**35.58**	***35.58***
	Barsinghsar	0-150	77.83	0.00	0.00	**77.83**	***77.83***
	Bholasar	0-300	0.00	0.00	3.90	**3.90**	***3.90***
	Bigga-Abhaysingpura	0-300	0.00	0.00	25.26	**25.26**	
		150-300	0.00	0.00	19.38	**19.38**	***44.64***
	Bithnok East(Ext.)	0-300	0.00	39.44	0.00	**39.44**	***39.44***
	Bithnok Main	0-300	43.28	0.00	0.00	**43.28**	
		150-300	55.84	0.00	0.00	**55.84**	***99.12***

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2013)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	**Total**	***Grand Total***
(1)	(2)	(3)	(4)	(5)	(6)	**(7)**	***(8)***
	Borana	0-150	0.00	0.10	0.41	**0.51**	***0.51***
	Chak-Vijaisinghpura	0-150	2.80	0.00	0.00	**2.80**	***2.80***
	Deshnok-Ramsar-Sinthal	0-150	0.00	0.00	52.85	**52.85**	
		150-300	0.00	0.00	0.92	**0.92**	***53.77***
	Diyatra	0-150	0.00	57.53	0.00	**57.53**	
		150-300	0.00	67.34	0.00	**67.34**	***124.87***
Rajasthan	East of Riri	0-150	0.00	0.00	1.76	**1.76**	***1.76***
Bikaner	Gadiyala	0-300	0.00	0.00	36.98	**36.98**	***36.98***
	Gigasar-Kesardesar	0-150	0.00	0.65	0.00	**0.65**	***0.65***
	Girirajsar	0-300	0.00	26.48	8.99	**35.47**	***35.47***
	Girirajsar Extn.	150-300	0.00	0.00	24.81	**24.81**	***24.81***
	Gurha East	0-150	33.81	0.00	0.00	**33.81**	
		150-300	4.30	0.00	0.00	**4.30**	***38.11***
	Gurha West	0-150	40.65	0.00	0.00	**40.65**	
		150-300	1.00	0.00	0.00	**1.00**	***41.65***
	Hadda	150-300	0.00	0.22	0.00	**0.22**	***0.22***
	Hadda North & West	0-150	0.00	2.82	7.35	**10.17**	
		150-300	0.00	1.06	2.44	**3.50**	***13.67***
	Hadla	0-150	59.30	0.00	0.00	**59.30**	***59.30***
	Hira Ki Dhani	0-150	0.00	0.00	0.66	**0.66**	***0.66***
	Kuchore (Napasar)	0-150	0.00	0.00	1.00	**1.00**	***1.00***
	Kuchaur-Athuni	0-150	0.00	0.18	0.00	**0.18**	***0.18***
	Lalamdesar Bada	0-150	0.00	2.00	0.00	**2.00**	***2.00***

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2013)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	**Total**	***Grand Total***
(1)	(2)	(3)	(4)	(5)	(6)	**(7)**	***(8)***
	Mandal Charman	0-150	0.00	17.70	0.00	**17.70**	***17.70***
	Palana	0-150	23.57	0.00	0.00	**23.57**	***23.57***
	Palana East	0-150	0.00	1.46	0.00	**1.46**	***1.46***
	Pyau	0-150	0.00	0.00	45.56	**45.56**	
		150-300	0.00	0.00	16.62	**16.62**	***62.18***
Rajasthan	Rneri	0-150	33.92	0.00	0.00	**33.92**	***33.92***
Bikaner							
	Riri	0-150	159.68	0.00	0.00	**159.68**	
		>150	22.75	0.00	0.00	**22.75**	***182.43***
	Sarupdesar-Palana west	0-150	0.00	0.67	0.00	**0.67**	***0.67***
	Kenya-ki-basti & S.	0-150	0.00	0.96	0.00	**0.96**	
	of Bhane-ka-gaon	150-300	0.06	0.00	0.00	**0.06**	***1.02***
Barmer	Kapurdi	0-150	150.40	0.00	0.00	**150.40**	***150.40***
	Jalipa	0-150	224.28	0.00	0.00	**224.28**	
		150-300	100.55	0.00	0.00	**100.55**	***324.83***
	Bothia(Jalipa N Ext.)	0-300	0.00	151.67	0.00	**151.67**	***151.67***
	Giral	0-150	20.00	81.90	0.00	**101.90**	***101.90***
	Jogeshwartala	0-150	0.00	31.52	0.00	**31.52**	
		150-300	0.00	3.00	0.00	**3.00**	***34.52***
	Sonari	0-300	0.00	43.59	0.00	**43.59**	***43.59***
	Sachha-Sauda	0-300	0.00	28.70	0.00	**28.70**	***28.70***
	Bharka	0-150	0.00	8.45	0.00	**8.45**	
		150-300	0.00	1.00	0.00	**1.00**	***9.45***
	Bothia-Bhakra- Dunga	0-300	0.00	9.35	0.00	**9.35**	***9.35***
	Sindhari East	>150	0.00	262.65	0.00	**262.65**	***262.65***
	Sindhari West	>150	0.00	894.93	339.25	**1234.18**	***1234.18***

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2013)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	**Total**	***Grand Total***
(1)	(2)	(3)	(4)	(5)	(6)	**(7)**	***(8)***
	Kurla	0-150	0.00	0.00	68.67	**68.67**	***68.67***
	Chokla North	0-300	0.00	0.00	234.77	**234.77**	***234.77***
	Mahabar-Shivkar	0-150	0.00	9.22	24.30	**33.52**	
		150-300	0.00	2.93	7.61	**10.54**	***44.06***
	Mithra	0-150	0.00	0.09	0.39	**0.48**	
		150-300	0.00	0.45	1.53	**1.98**	***2.46***
	Hodu	0-300	0.00	78.17	80.55	**158.72**	
		>300	0.00	0.00	6.85	**6.85**	***165.57***
	Nimbalkot	0-100	0.00	0.00	8.97	**8.97**	
		100-300	0.00	0.00	85.49	**85.49**	
		>300	0.00	0.00	15.14	**15.14**	***109.60***
	Nimbalkot North	0-100	0.00	0.00	1.93	**1.93**	
		100-300	0.00	0.00	22.34	**22.34**	
		>300	0.00	0.00	3.45	**3.45**	***27.72***
	Nagurda	0-150	0.00	103.68	0.00	**103.68**	
		150-300	0.00	127.87	0.00	**127.87**	
		>300	0.00	0.70	0.00	**0.70**	***232.25***
	Nagurda (East)	0-150	0.00	18.46	0.00	**18.46**	
		150-300	0.00	3.23	0.00	**3.23**	***21.69***
	Munabao	150-300	0.00	0.00	9.85	**9.85**	***9.85***
	Kawas Gravity Block	150-300	0.00	0.00	53.03	**53.03**	***53.03***
	South of Nimbla	0-150	0.00	0.00	96.39	**96.39**	
		150-300	0.00	0.00	13.21	**13.21**	***109.60***
	Magne-ki-Dhani	0-150	0.00	0.00	8.78	**8.78**	
		150-300	0.00	0.00	3.91	**3.91**	
		>300	0.00	0.00	0.04	**0.04**	***12.74***

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2013)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	**Total**	***Grand Total***
(1)	(2)	(3)	(4)	(5)	(6)	**(7)**	***(8)***
	Kurla East	0-150	0.00	11.47	0.00	**11.47**	
	(covering Kurla East North & South	150-300	0.00	48.47	0.00	**48.47**	
	sub blocks)	>300	0.00	458.44	250.13	**708.57**	***768.51***
Jaisalmer & barmer	Khuri	0-300	0.00	0.00	13.80	**13.80**	***13.80***
Jaisalmer	Ramgarh	0-150	0.00	0.00	40.96	**40.96**	
		150-300	0.00	0.00	4.30	**4.30**	***45.26***
Nagaur& Pali	Kasnau-Igiar	0-150	64.90	0.00	0.00	**64.90**	***64.90***
	Matasukh	0-150	10.10	0.00	0.00	**10.10**	***10.10***
	Mokala	0-150	0.00	29.00	0.00	**29.00**	***29.00***
	Nimbri-Chandawatan	0-150	9.00	0.00	0.00	**9.00**	***9.00***
	Kaprion-ka-Dhani	0-150	17.00	0.00	0.00	**17.00**	***17.00***
	Merta Road & Meeranagar	0-150	0.00	23.90	59.35	**83.25**	***83.25***
	Indawar	0-150	12.00	0.00	0.00	**12.00**	***12.00***
	Kuchera	0-150	0.00	0.00	1.00	**1.00**	***1.00***
	Lunsara	0-300	0.00	7.17	0.00	**7.17**	***7.17***
	Phalki	0-150	0.00	0.18	0.00	**0.18**	
		150-300	0.00	0.32	0.00	**0.32**	***0.50***
	Phalki North	0-150	0.00	0.00	1.98	**1.98**	
		150-300	0.00	0.00	11.06	**11.06**	***13.04***
Jalore	Sewara	150-300	0.00	0.00	33.43	**33.43**	
		>300	0.00	0.00	42.65	**42.65**	***76.08***
Total for Rajasthan			***1167.02***	***2671.93***	***1850.57***	***5689.52***	***5689.52***
Gujarat							
Kachchh	Panandhro	0-150	98.00	0.00	0.00	**98.00**	***98.00***
	Panandhro Ext.	0-150	0.00	0.00	14.45	**14.45**	***14.45***

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2013)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	**Total**	***Grand Total***
(1)	(2)	(3)	(4)	(5)	(6)	**(7)**	***(8)***
	Barkhan Dam	0-150	0.00	0.00	7.19	**7.19**	***7.19***
	Kaiyari Block-A	0-150	40.36	20.30	0.00	**60.66**	***60.66***
	Kaiyari Block-B	0-150	0.00	10.52	0.00	**10.52**	***10.52***
	Mata-No-Madh	0-150	34.00	0.00	0.00	**34.00**	***34.00***
	Umarsar	0-150	19.47	0.00	0.00	**19.47**	***19.47***
	Lakhpat-Dhedadi(Punahrajpur)	0-150	49.00	24.30	0.00	**73.30**	***73.30***
	Akrimota	0-150	91.78	0.00	0.00	**91.78**	***91.78***
	Jhularai-Waghapadar	0-150	3.00	0.00	0.00	**3.00**	***3.00***
	Hamla-Ratadia	0-150	0.00	0.00	3.00	**3.00**	***3.00***
	Pranpur	0-300	0.00	1.28	8.45	**9.73**	***9.73***
Bhavnagar	Kharsalia,Rampur,Hoidad, Bhuteshwar, Surka etc.	0-300	0.00	0.00	299.17	**299.17**	***299.17***
Bharuch	Bhuri	0-150	10.59	31.56	0.00	**42.15**	***42.15***
	Valia,Bhaga,Luna,Pansoli,	0-150	225.88	0.00	0.00	**225.88**	
	Nani Pardi etc.	>150	232.50	0.00	0.00	**232.50**	
		0-300	251.68	87.03	178.47	**517.18**	***975.56***
	Bhimpur	0-150	3.60	0.00	0.00	**3.60**	
		150-300	0.51	0.00	0.00	**0.51**	***4.11***
	Rajpardi (GMDC leasehold) byME	0-150	0.00	0.00	20.72	**20.72**	***20.72***
	Rajpardi (CGM) by MECL	0-300	0.00	0.00	292.04	**292.04**	***292.04***
Surat	Tadkeswar	0-300	0.00	0.00	123.10	**123.10**	***123.10***
	Dungra	0-300	0.00	0.00	92.52	**92.52**	***92.52***

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2013)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	**Total**	***Grand Total***
(1)	(2)	(3)	(4)	(5)	(6)	**(7)**	***(8)***
	East of Kamrej-Vesma	150-300	0.00	0.00	7.92	**7.92**	***7.92***
Surat	Tadkeswar Block-Mongrol, Mandvi, Vastan, Nani Naroli,Ghala etc.	0-300	218.28	108.71	112.67	**439.66**	***439.66***
Total for Gujarat			***1278.65***	***283.70***	***1159.70***	***2722.05***	***2722.05***
J & K							
Kupwara	Nichahom	0-150	0.00	20.25	0.00	**20.25**	***20.25***
	Nichahom-Budhasung	0-150	0.00	0.00	7.30	**7.30**	***7.30***
Total for J & K			***0.00***	***20.25***	***7.30***	***27.55***	***27.55***
Kerala							
Kannanur	Madayi	0-150	0.00	0.00	5.60	**5.60**	***5.60***
	Nileswaram	0-150	0.00	0.00	2.50	**2.50**	***2.50***
	Kadamkottumala	0-150	0.00	0.00	1.00	**1.00**	***1.00***
	Kayyur	0-150	0.00	0.00	0.55	**0.55**	***0.55***
Total for Kerala			***0.00***	***0.00***	***9.65***	***9.65***	***9.65***
West Bengal	Rakshitpur	0-150	0.00	0.29	0.86	**1.15**	***1.15***
	Mahalla	150-300	0.00	0.64	0.00	**0.64**	***0.64***
	Dhobbanpur	150-300	0.00	0.20	0.78	**0.98**	***0.98***
Total for West Bengal			***0.00***	***1.13***	***1.64***	***2.77***	***2.77***
Grand Total for all States			***6180.90***	***26282.67***	***10752.29***	***43215.86***	***43215.86***

Table 2.8: PROMOTIONAL EXPLORATION (DRILLING IN METRES) DURING 2005-06 TO 2012-13

Command Area →		CIL	SCCL	NLC	*TOTAL*
Year	Agency	(Coal)	(Coal)	(Lignite)	
(1)	(2)	(3)	(4)	(5)	*(6)*
2004-05	Geological Survey of India	11756	0	643	***12399***
2004-05	Mineral Exploration Corporation Ltd.	33781	15110	56383	***105274***
2004-05	Central Mine Planning & Design Inst.	16889	0	0	***16889***
2004-05	***All Agencies***	***62426***	***15110***	***57026***	***134562***
2005-06	Geological Survey of India	11686	0	385	***12071***
2005-06	Mineral Exploration Corporation Ltd.	39912	16786	58596	***115294***
2005-06	Central Mine Planning & Design Inst.	11123	0	0	***11123***
2005-06	***All Agencies***	***62721***	***16786***	***58981***	***138488***
2006-07	Geological Survey of India	11260	0	6529	***17789***
2006-07	Mineral Exploration Corporation Ltd.	33536	18212	25192	***76940***
2006-07	Central Mine Planning & Design Inst.	6879	0	0	***6879***
2006-07	***All Agencies***	***51675***	***18212***	***31721***	***101608***
2002-2007(X Plan)	Geological Survey of India	57652	0	7557	***65209***
2002-2007(X Plan)	Mineral Exploration Corporation Ltd.	161307	86022	255932	***503261***
2002-2007(X Plan)	Central Mine Planning & Design Inst.	55019	0	0	***55019***
2002-2007(X Plan)	***All Agencies***	***273978***	***86022***	***263489***	***623489***
2007-08	Geological Survey of India	11473	0	7487	***18960***
2007-08	Mineral Exploration Corporation Ltd.	38563	17154	37863	***93580***
2007-08	Central Mine Planning & Design Inst.	2992	0	0	***2992***
2007-08	***All Agencies***	***53028***	***17154***	***45350***	***115532***
2008-09	Geological Survey of India	15572	0	7963	***23535***
2008-09	Mineral Exploration Corporation Ltd.	28448	14730	54454	***97632***
2008-09	Central Mine Planning & Design Inst.	5646	0	0	***5646***
2008-09	***All Agencies***	***49666***	***14730***	***62417***	***126813***
2009-10	Geological Survey of India	13192	0	5920	***19112***
2009-10	Mineral Exploration Corporation Ltd.	20799	12303	55127	***88229***
2009-10	Central Mine Planning & Design Inst.	1992	0	0	***1992***
2009-10	***All Agencies***	***35983***	***12303***	***61047***	***109333***
2010-11	Geological Survey of India	13943	0	5607	***19550***
2010-11	Mineral Exploration Corporation Ltd.	20283	9638	51796	***81717***
2010-11	DGM (Nagaland)	83			***83***
2010-11	Central Mine Planning & Design Inst.	1318	0	0	***1318***
2010-11	***All Agencies***	***35627***	***9638***	***57403***	***102668***
2011-12	Geological Survey of India	17872	0	5814	***23686***
2011-12	Mineral Exploration Corporation Ltd.	16769	9228	43750	***69747***
2011-12	DGM (Nagaland)	289			***289***
2011-12	Central Mine Planning & Design Inst.	0	0	0	***0***
2011-12	***All Agencies***	***34930***	***9228***	***49564***	***93722***
2012-13	Geological Survey of India	14702	0	8379	***23081***
2012-13	Mineral Exploration Corporation Ltd.	21695	8899	59349	***89943***
2012-13	DGM (Nagaland)	328			***328***
2012-13	Central Mine Planning & Design Inst.	0	0	0	***0***
2012-13	***All Agencies***	***36725***	***8899***	***67728***	***113352***

Table 2.9 : DETAILED EXPLORATION (DRILLING IN METERS) DURING IX PLAN & 2002-2013

Command Area ⟶		CIL										SCCL
Year	Agency	Blocks	ECL	BCCL	CCL	NCL	WCL	SECL	MCL	NEC	TOTAL CIL	SCCL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1997-02 (IX Plan)	DEPARTMENTAL	CIL	134412		110201	56008	159302	218407	140531		818861	251379
1997-02 (IX Plan)	DEPARTMENTAL	Non-CIL			31576		11057	35219	40946		118798	
1997-02 (IX Plan)	MECL	Non-CIL	46339		13179	17906	7173	30205			114802	
1997-02 (IX Plan)	MP/Orissa Govt.	CIL						31646	21586		53232	
1997-02 (IX Plan)	*All Agencies*	*Total*	*195787*		*167294*	*73914*	*226882*	*371436*	*203063*	*2461*	*1240837*	*251379*
2002-2007(X Plan)	DEPARTMENTAL	CIL	98354	8391	63103	51783	96026	162116	166142	0	645915	**0**
2002-2007(X Plan)	DEPARTMENTAL	Non-CIL	0	0	61788	8392	19645	87775	53803	0	231403	**332173**
2002-2007(X Plan)	MECL	Non-CIL	0	0	4837	0	0	4797	22959	0	32593	**0**
2002-2007(X Plan)	CG/MP/Orissa Govt.	CIL	0	0	0	0	2744	28831	11727	0	41273	**0**
2002-2007(X Plan)	*All Agencies*	*Total*	*98354*	*8391*	*129728*	*60175*	*118415*	*283519*	*254631*	*0*	*951184*	*332173*
2007-08	DEPARTMENTAL	CIL	22353		26912	3072	26513	47032	27825	0	153707	
2007-08	DEPARTMENTAL	Non-CIL			5233	9396	5886	7763	16873		45151	78380
2007-08	MECL	Non-CIL									0	
2007-08	CG/MP/Orissa Govt.	CIL					1071	3831	2449		7351	
2007-08	*All Agencies*	*Total*	*22353*	*0*	*32145*	*12468*	*33470*	*58626*	*47147*	*0*	*206209*	*78380*
2008-09	DEPARTMENTAL	CIL	25666		27679	14104	23381	48358	23407	0	162595	
2008-09	DEPARTMENTAL	Non-CIL			9485		10705	7570	32176		59936	84686
2008-09	MECL	Non-CIL									0	
2008-09	CG/MP/Orissa Govt.	CIL						3321	5019		8340	
2008-09	*All Agencies*	*Total*	*25666*	*5259*	*37164*	*14104*	*37649*	*82538*	*60602*	*3733*	*266715*	*84686*
2009-10	DEPARTMENTAL	CIL	27749		24765	14993	28476	64441	22129	0	182553	
2009-10	DEPARTMENTAL	Non-CIL	1509		14372		10406	9158	44058		79503	92314
2009-10	MECL	Non-CIL									0	
2009-10	CG/MP/Orissa Govt.	CIL						3421	5680		9101	
2009-10	*All Agencies*	*Total*	*48701*	*19751*	*39137*	*32371*	*41784*	*202667*	*71867*	*10906*	*467184*	*92314*
2010-11	DEPARTMENTAL	CIL	31779		40504	17954	21724	73999	15056	0	201016	
2010-11	DEPARTMENTAL	Non-CIL					21238	0	45805		67043	101903
2010-11	**DEPARTMENTAL**	**Total**	31779		40504	17954	42962	73999	60861		268059	**101903**
2010-11	MECL	CIL		3588		4012		11486			19086	
2010-11	MECL	Non-CIL				9074					9074	
2010-11	CG/MP/Orissa Govt.	CIL						3661	3546		7207	
2010-11	Private /Contractual	CIL		14046						536	14582	
2010-11	Private /Contractual	Non-CIL	23571					150213			173784	
2010-11	**Private /Contractual**	**Total**	23571	14046	0	0	0	150213	0	536	188366	
2010-11	All Agencies	CIL	31779	17634	40504	21966	21724	89146	18602	536	241891	
2010-11	All Agencies	Non-CIL	23571	0	0	9074	21238	150213	45805	0	*249901*	101903
2010-11	*All Agencies*	*Total*	*55350*	*17634*	*40504*	*31040*	*42962*	*239359*	*64407*	*536*	*491792*	*101903*
2011-12	DEPARTMENTAL	CIL	28920		44631	18435	13655	83654	24290	0	213585	
2011-12	DEPARTMENTAL	Non-CIL					27309	0	27921		55230	100325
2011-12	DEPARTMENTAL	Pvt. Blocks							4204		4204	
2011-12	**DEPARTMENTAL**	**Total**	28920		44631	18435	40964	83654	56415		273019	**100325**
2011-12	MECL	CIL		3466		0		30872			34338	
2011-12	MECL	Non-CIL				23081		38788			61869	9228
2011-12	CG/MP/Orissa Govt.	CIL						3152	3663		6815	
2011-12	Private /Contractual	CIL	3875	13731							17606	
2011-12	Private /Contractual	Non-CIL			20138			84641			104779	
2011-12	**Private /Contractual**	**Total**	3875	13731	20138	0	0	84641	0	0	122385	
2011-12	All Agencies	CIL	32795	17197	44631	18435	13655	117678	27953	0	272344	
2011-12	All Agencies	Non-CIL	0	0	20138	23081	27309	123429	32125	0	226082	109553
2011-12(XI Plan)	*All Agencies*	*Total*	*32795*	*17197*	*64769*	*41516*	*40964*	*241107*	*60078*	*0*	*498426*	*109553*
2012-13	DEPARTMENTAL	CIL	18794		43510	6851	15138	90629	23818	0	198740	
2012-13	DEPARTMENTAL	Non-CIL	10356			14353	26729	3923	22097		77458	120105
2012-13	DEPARTMENTAL	Pvt. Blocks									0	
2012-13	**DEPARTMENTAL**	**Total**	29150		43510	21204	41867	94552	45915		276198	**120105**
2012-13	MECL	CIL		9433		0		28851			38284	
2012-13	MECL	Non-CIL				32734	3214	64529			100477	8899
2012-13	CG/MP/Orissa Govt.	CIL						3409	3989		7398	
2012-13	Private /Contractual	CIL	450	24316	42359		23653				90778	
2012-13	Private /Contractual	Non-CIL	8167		37888			287	3431		49773	
2012-13	**Private /Contractual**	**Total**	8617	24316	80247	0	23653	287	3431	0	140551	
2012-13	All Agencies	CIL	19244	33749	85869	6851	38791	122889	27807	0	335200	
2012-13	All Agencies	Non-CIL	18523	0	37888	47087	29943	68739	25528	0	227708	129004
2012-13(XI Plan)	*All Agencies*	*Total*	*37767*	*33749*	*123757*	*53938*	*68734*	*191628*	*53335*	*0*	*562908*	*129004*

Section III

Production & Productivity

3.1 Production

3.1.1 Coal production in India (including lignite) in the year 2012-13 reached 602.855 MT and registered an increase of 3.5% over the last year. The production of coal (excluding lignite) was 556.402 MT and the increase in this case over the last year was 3.0%. In case of lignite, the production increased from 42.332 MT in 11-12 to 46.453 MT in 12-13 registering an increase of 9.7% over the last year.

3.1.2 Statement 3.1 shows production of coal in 2012-13 by different companies.

Statement 3.1: Coal Production in India by Company

Company	Coal Production (2012-13) [MT]		
	Coking	Non-coking	Total
ECL	0.043	33.858	33.901
BCCL	26.970	4.241	31.211
CCL	16.181	31.880	48.061
NCL		70.021	70.021
WCL	0.330	41.957	42.287
SECL	0.157	118.062	118.219
MCL		107.895	107.895
NEC		0.605	0.605
CIL	**43.681**	**408.519**	**452.200**
SCCL		53.190	53.190
Other Public	0.593	3.257	3.850
Total Public	44.274	464.966	509.240
Total Private	7.308	39.854	47.162
ALL INDIA	**51.582**	**504.820**	**556.402**

It can be seen that the Coal India Ltd. accounted for 81.27% of coal production in the country. The share of SCCL in the coal production was 9.56% and the contribution of private sector was 8.48%. In the CIL group, the major contributors were SECL, MCL and NCL with share of 21.25%, 19.39%, and 12.58% respectively at all India level. These companies collectively accounted for 53.22% of the total coal production at all India level.

3.1.3 From Statement 3.1 it can be seen that the major share in the total coal is accounted by non-coking coal (90.73%). Statement 3.2 shows that almost all coking coals were produced in the state of Jharkhand which accounted for 99.0% of the total coking coal production. From Table 3.2 it can be seen that in 2012-13 the production of coking coal registered a decrease of 0.2% over the previous year whereas there was increase in the case of non-coking coal by 3.4% over 2011-12. In case of coking coal, Metallurgical coal with the production of 14.547 MT registered a decrease of 10.4% and non-metallurgical coal with the production of 37.035 MT registered an increase of 4.6%.

3.1.4 Statement 3.2 shows the coal production in India in 2012-13 by states. It is observed that the three major players are Chhattisgarh (21.2%), Jharkhand (20.0%) and Orissa (19.8%) which together accounted for about 60.97% of the total coal production in the country.

Statement 3.2: Coal Production in India by State

States	Coal Production (2012-13) [MT]		
	Coking	Non Coking	Total
Andhra Pradesh		53.190	53.190
Arunachal Pradesh		0.073	0.073
Assam		0.605	0.605
Chhattisgarh	0.157	117.673	117.830
Jammu & Kashmir		0.019	0.019
Jharkhand	51.065	60.209	111.274
Madhya Pradesh	0.330	75.618	75.948
Maharashtra		39.134	39.134
Meghalaya		5.640	5.640
Orissa		110.132	110.132
Uttar Pradesh		16.090	16.090
West Bengal	0.030	26.437	26.467
Total Public	44.274	464.966	509.240
Total Private	7.308	39.854	47.162
All India	51.582	504.820	556.402

3.1.5 If one examines the production from the technology point of view then it is seen that the

total production under open cast system accounted for 90.62% of the total coal production and the rest 9.38% was accounted by underground system. It is interesting to note that the share of OC mining in total coal production has been steadily increasing over time and in the last ten years it has increased from 82.63% (2003-04) to 90.62% (2012-13).

3.1.6 The production of coal products increased from 39.24 MT in 2011-12 to 41.72 MT in 2012-13. From Table 3.3, it can be seen that in 2012-13, production of Washed Coal (Coking), Middlings (Coking), Middlings (Non-coking) registered an increase of 0.8%, 48.7% and 4.3% respectively while Washed Coal (Non-Coking) and Hard Coke registered a decline by 8.1% and 18.4% respectively over the previous year. It is important to note that in 2012-13, the production of Washed Coal was 20.74 MT (Coking 6.550 MT and Non-coking 14.190 MT) against the total raw coal production of 556.402 MT (Coking 51.582 MT and Non-coking 504.820 MT).

3.1.7 Stripping Ratio defined as the ratio of OBR to coal produced in Open Cast mining has been of interest to the researchers. In 2012-13, the stripping ratio at all India level was 2.12 while the corresponding figure for the year 2011-12 was 2.22. The stripping ratio of CIL in 2012-13 was 1.80. The corresponding figure for the public sector as a whole was 2.05 and the same for the private sector was 2..97. In case of CIL companies, MCL reported the lowest stripping ratio of 0.85 against the production (OC) of 106.216 MT of coal whereas NEC reported the highest stripping ratio of 7.86 with the production (OC) of 0.602 MT of coal. In case of CIL companies, WCL reported the second highest stripping ratio of 3.34 with the production (OC) of 34.087 MT.

3.1.8 Output per man shift (OMS) is one of the measures of efficiency in the production. Statement 3.3 depicts the OMS for the current year as well as last year for two major players in the public sectors namely CIL and SCCL by type of mining. It is observed that during 2012-13, in respect of opencast mining, OMS of CIL was 11.68 and SCCL 11.87 against 10.40 and 13.26 respectively in 2011-12. In case of underground mining the trend is almost static. From Table 3.20 it can be seen that the OMS for open cast mining has shown an increasing trend in last ten years. In case of CIL it has increased from 6.67 in 2003-04 to 11.68 in 2012-13. The corresponding increase in case of SCCL has been from 7.67 in 2011-12 to 11.87 in 2012-13. Further details on the issue can be seen from the details tables (table 3.20 and 3.21).

Statement 3.3: OMS (Tonne) in OC & UG MINES in 2011-12 and 2012-13 (CIL & SCCL)

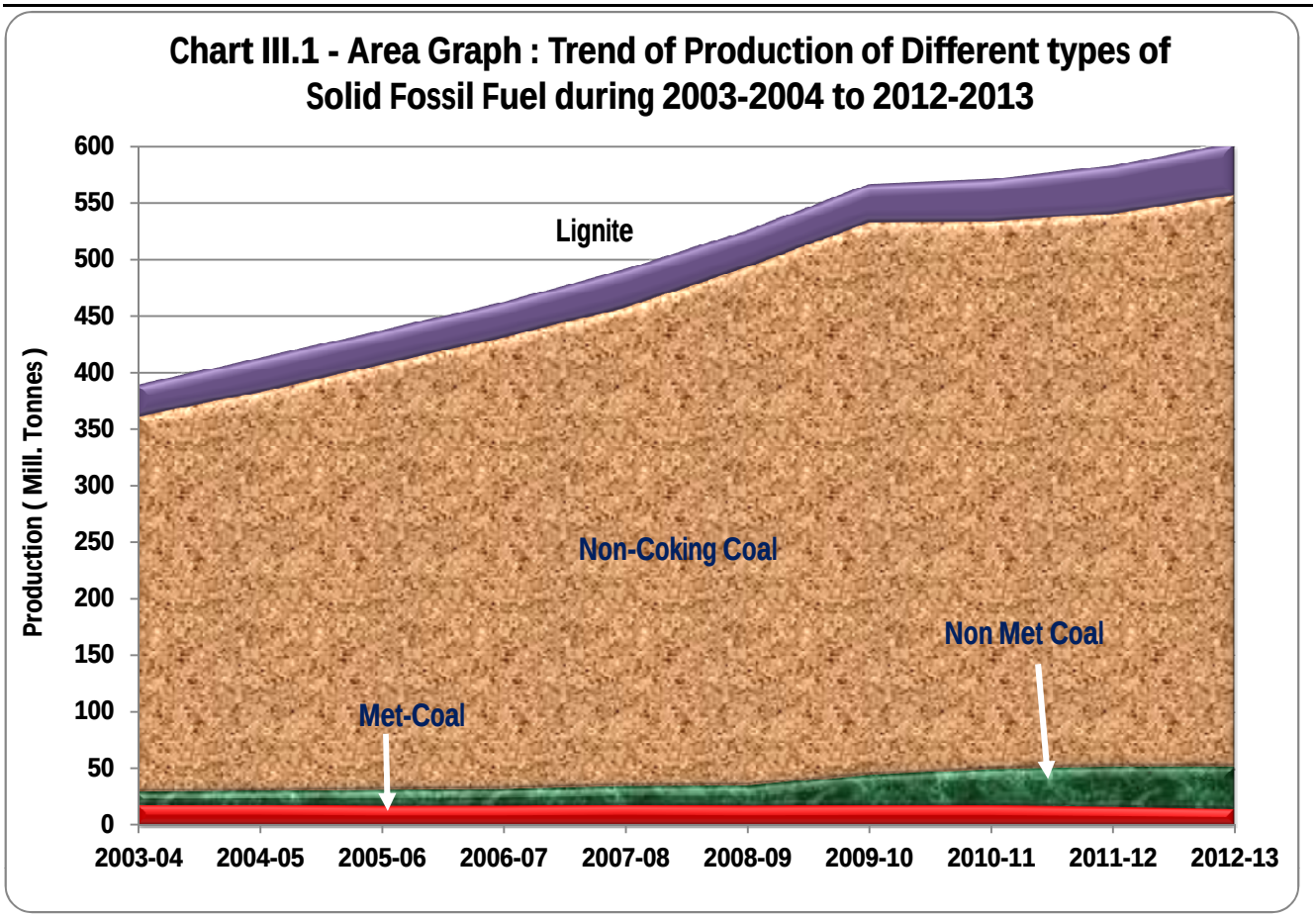
Year		2011-12	2012-13
OMS (OC)	CIL	10.40	11.68
	SCCL	13.26	11.87
OMS (UG)	CIL	0.75	0.77
	SCCL	1.10	1.13
OMS (OVERALL)	CIL	4.92	5.32
	SCCL	3.94	3.14

3.1.9 Lignite Production: In case of lignite the two major players were NLC and GMDCL with contribution of 56.45% and 23.48% respectively. The increase of 9.7% in the lignite production in 2012-13 was in succession of the 12.2% increase in production in the year 2011-12. During the year 2012-13, the major player, NLC registered an increase of 6.64% over the last year. The second major player GMDCL, however, registered a decline of 3.86% over last year. RSMML also registered a decline in production by 34.58% over 2011-12. The overall increase of 9.7% in 2012-13 was due to better contribution from GIPCL and new entrant BLMCL which alone contributed 3.500 MT in total lignite production.

Statement 3.4 shows production of lignite by different companies in 2011-12 and 2012-13.

Statement 3.4: Lignite Production(MT) in India by Company in 2011-12 and 2012-13

Company	2011-12	2012-13
NLC	24.590	26.223
GMDCL	11.343	10.905
GIPCL	3.042	3.326
RSMML	2.120	1.387
GHCL	0.394	0.297
VS LIGNITE	0.843	0.815
BLMCL		3.500
All India	42.332	46.453

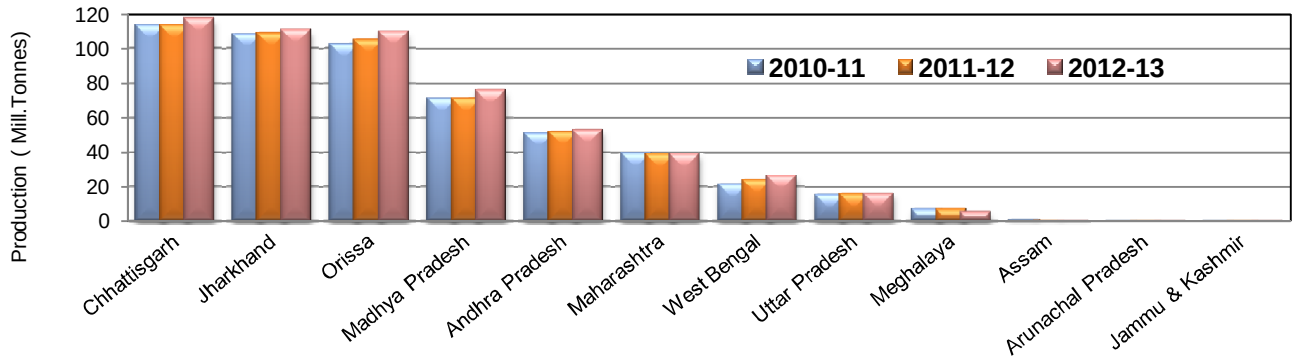


Production of different types of solid fossil fuels during 2003-04 TO 2012-13 (Quantity in Mill.Tonnes).

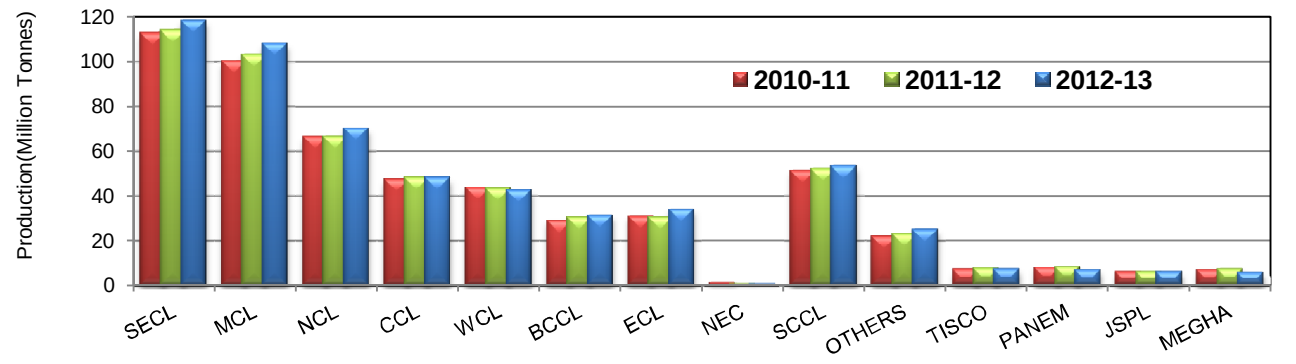
Year -->	Met Coal	Non Met Coal	Total Coking	Non-Coking	Total Raw Coal	Lignite
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2003-04	18.268	11.133	29.401	331.845	361.246	27.958
2004-05	18.194	12.030	30.224	352.391	382.615	30.411
2005-06	17.123	14.388	31.511	375.528	407.039	30.066
2006-07	17.231	14.866	32.097	398.735	430.832	31.285
2007-08	18.065	16.390	34.455	422.627	457.082	33.980
2008-09	17.301	17.508	34.809	457.948	492.757	32.421
2009-10	17.731	26.682	44.413	487.629	532.042	34.071
2010-11	17.695	31.852	49.547	483.147	532.694	37.733
2011-12	16.239	35.421	51.660	488.290	539.950	42.332
2012-13	14.547	37.035	51.582	504.820	556.402	46.453

Note: This is an area graph. Area in between bottom & top boundary for each item shows contribution of that item to total solid fossil fuel.

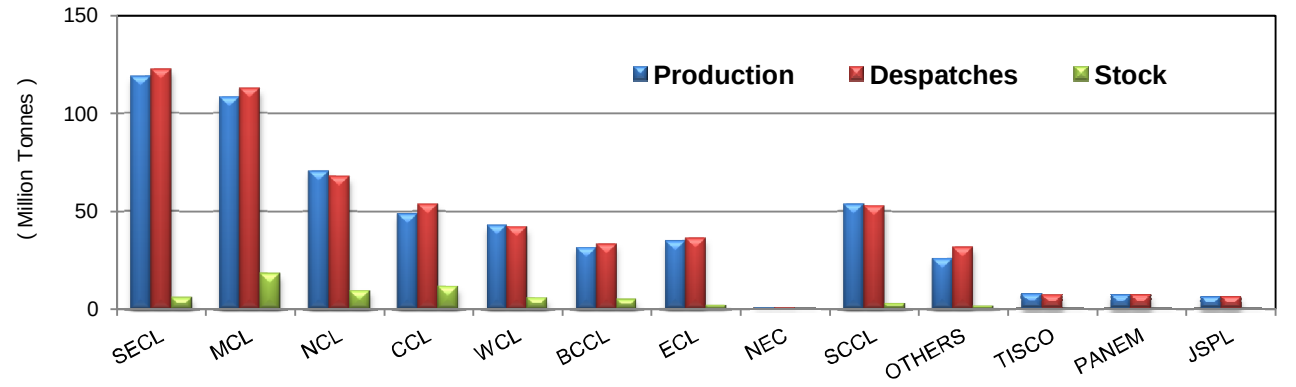
Ch-III.2: Statewise Production of Raw Coal in last Three Years



Ch-III.3 Companywise Production of Raw Coal in last Three Years



Ch-III.4: Production, Despatches & Stock Companywise in 2012-13



Ch-III.5: Company Share of Production of Raw Coal in 2012-13

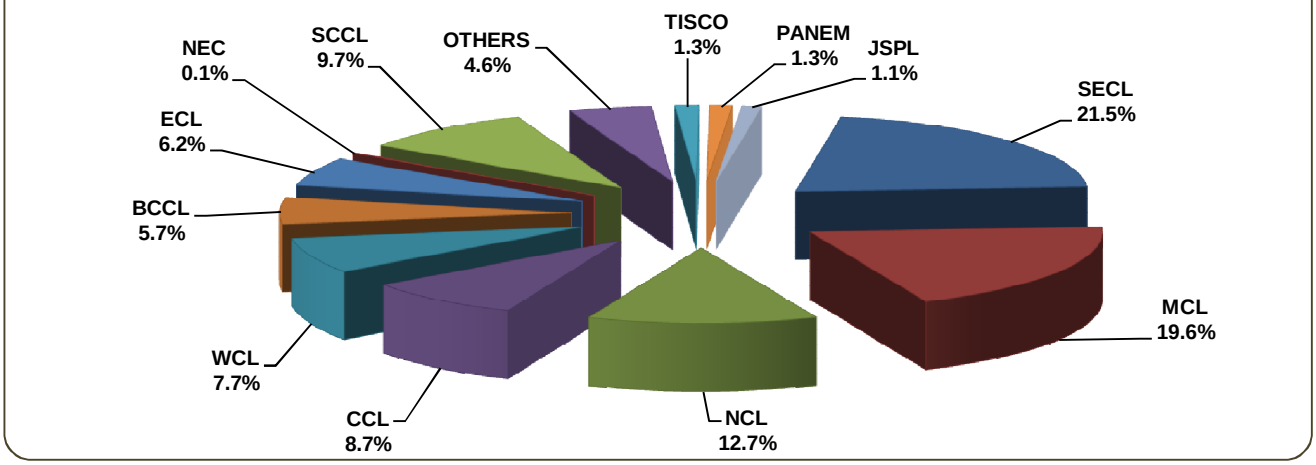
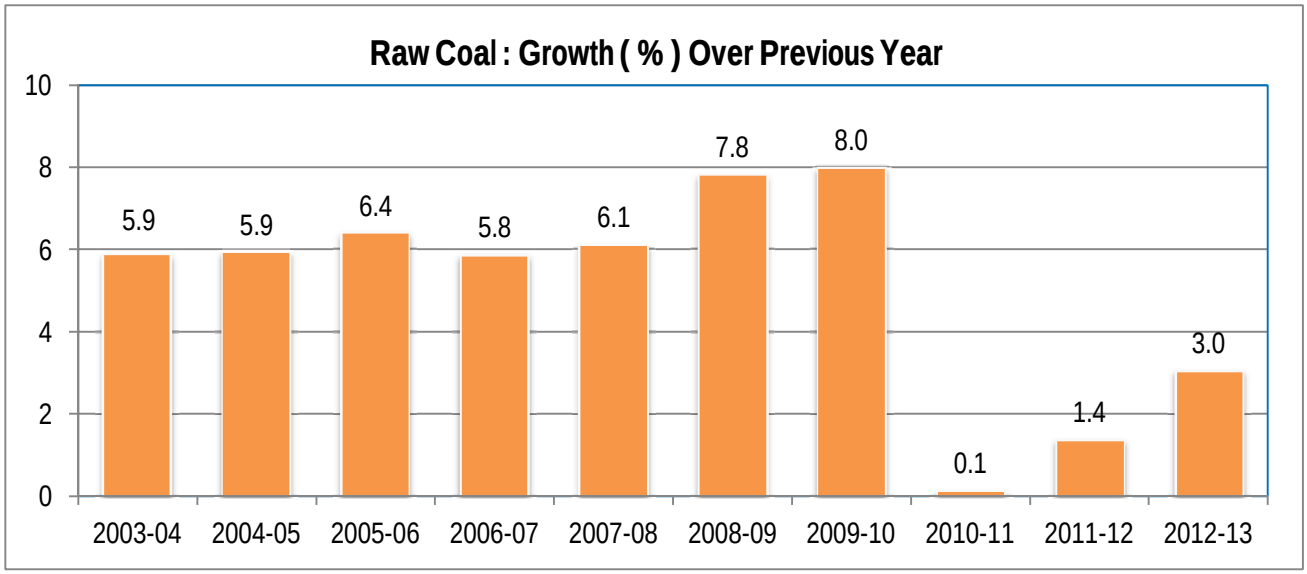


TABLE 3.1: TRENDS OF PRODUCTION OF DIFFERENT SOLID FOSSIL FUELS DURING LAST TEN YEARS

[Quantity in Million Tonnes]

Year	Raw Coal			Lignite			**Total Solid Fossil Fuel**	
	Production	Share in total solid fossil fuel (%)	Growth over previous year (%)	Production	Share in total solid fossil fuel (%)	Growth over previous year (%)	**Production**	**Growth over previous year (%)**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2003-04	361.246	92.8	5.9	27.958	7.2	7.5	**389.204**	**6.0**
2004-05	382.615	92.6	5.9	30.411	7.4	8.8	**413.026**	**6.1**
2005-06	407.039	93.1	6.4	30.228	6.9	-0.6	**437.267**	**5.9**
2006-07	430.832	93.2	5.8	31.285	6.8	3.5	**462.117**	**5.7**
2007-08	457.082	93.1	6.1	33.980	6.9	8.6	**491.062**	**6.3**
2008-09	492.757	93.8	7.8	32.421	6.2	-4.6	**525.178**	**6.9**
2009-10	532.042	94.0	8.0	34.071	6.0	5.1	**566.113**	**7.8**
2010-11	532.694	93.4	0.1	37.733	6.6	10.7	**570.427**	**0.8**
2011-12	539.950	92.7	1.4	42.332	7.3	12.2	**582.282**	**2.1**
2012-13	556.402	92.3	3.0	46.453	7.7	9.7	**602.855**	**3.5**



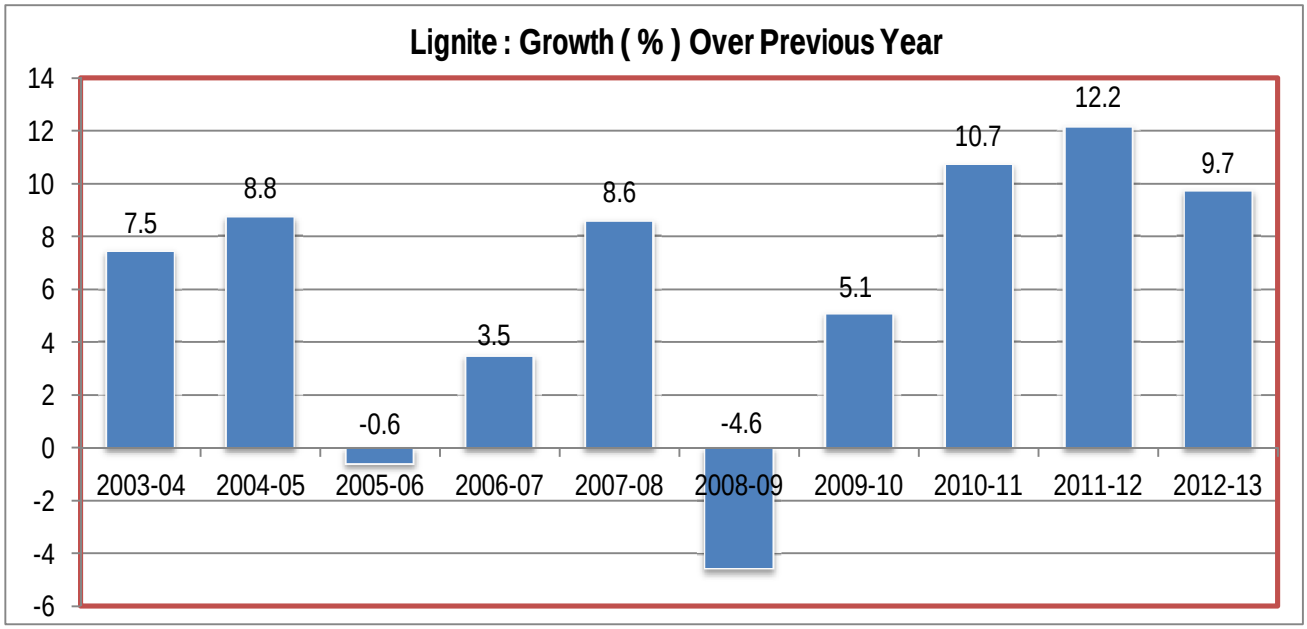
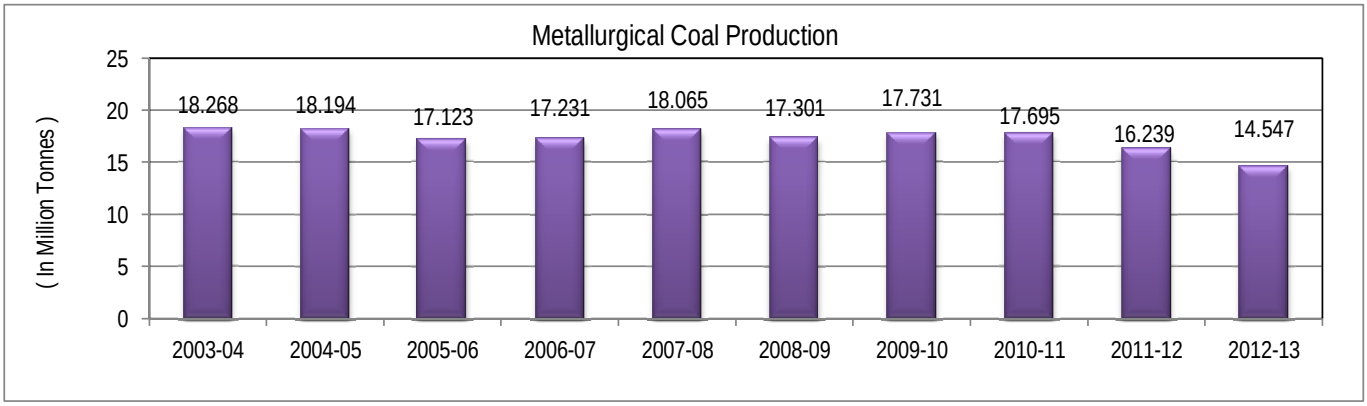
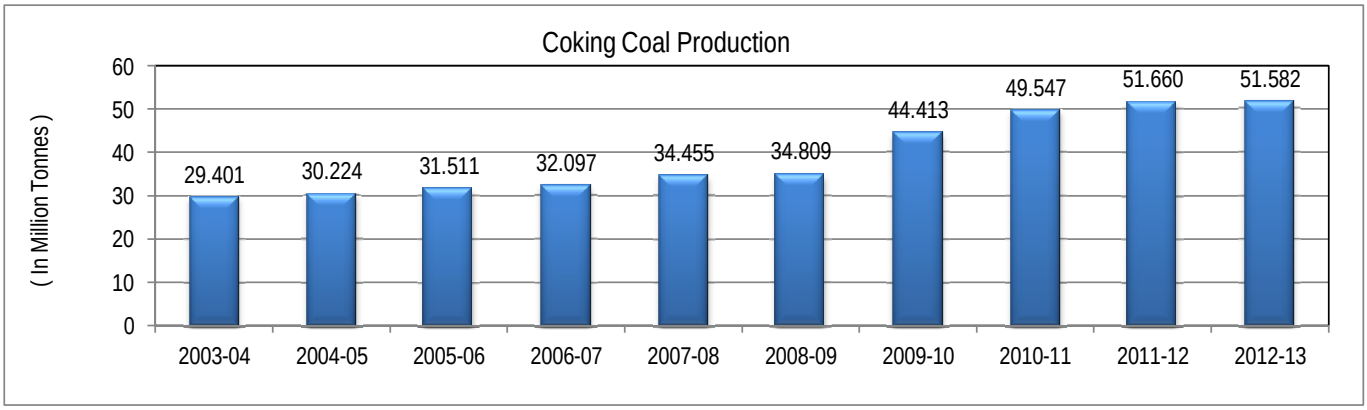


TABLE 3.2: TRENDS OF PRODUCTION OF DIFFERENT TYPES OF RAW COAL DURING LAST TEN YEARS

(Quantity in Million Tonnes)

Year	Coking Coal									Non Coking Coal			**Raw Coal**	
	Metallurgical Coal			Non Metallurgical Coal			Total Coking Coal							
	Production	Share in coking coal(%)	Growth over previous year (%)	Production	Share in coking coal(%)	Growth over previous year (%)	Production	Share in raw coal(%)	Growth over previous year (%)	Production	Share in raw coal(%)	Growth over previous year (%)	**Production**	**Growth over previous year (%)**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	**(14)**	**(15)**
2003-04	18.268	62.1	-0.5	11.133	37.9	-6.0	29.401	8.1	-2.6	331.845	91.9	6.7	**361.246**	**5.9**
2004-05	18.194	60.2	-0.4	12.030	39.8	8.1	30.224	7.9	2.8	352.391	92.1	6.2	**382.615**	**5.9**
2005-06	17.123	54.3	-5.9	14.388	45.7	19.6	31.511	7.7	4.3	375.528	92.3	6.6	**407.039**	**6.4**
2006-07	17.231	53.7	0.6	14.866	46.3	3.3	32.097	7.5	1.9	398.735	92.5	6.2	**430.832**	**5.8**
2007-08	18.065	52.4	4.8	16.390	47.6	10.3	34.455	7.5	7.3	422.627	92.5	6.0	**457.082**	**6.1**
2008-09	17.301	49.7	-4.2	17.508	50.3	6.8	34.809	7.1	1.0	457.948	92.9	8.4	**492.757**	**7.8**
2009-10	17.731	39.9	2.5	26.682	60.1	52.4	44.413	8.3	27.6	487.629	91.7	6.5	**532.042**	**8.0**
2010-11	17.695	35.7	-0.2	31.852	64.3	19.4	49.547	9.3	11.6	483.147	90.7	-0.9	**532.694**	**0.1**
2011-12	16.239	31.4	-8.2	35.421	68.6	11.2	51.660	9.6	4.3	488.290	90.4	1.1	**539.950**	**1.4**
2012-13	14.547	28.2	-10.4	37.035	71.8	4.6	51.582	9.3	-0.2	504.820	90.7	3.4	**556.402**	**3.0**





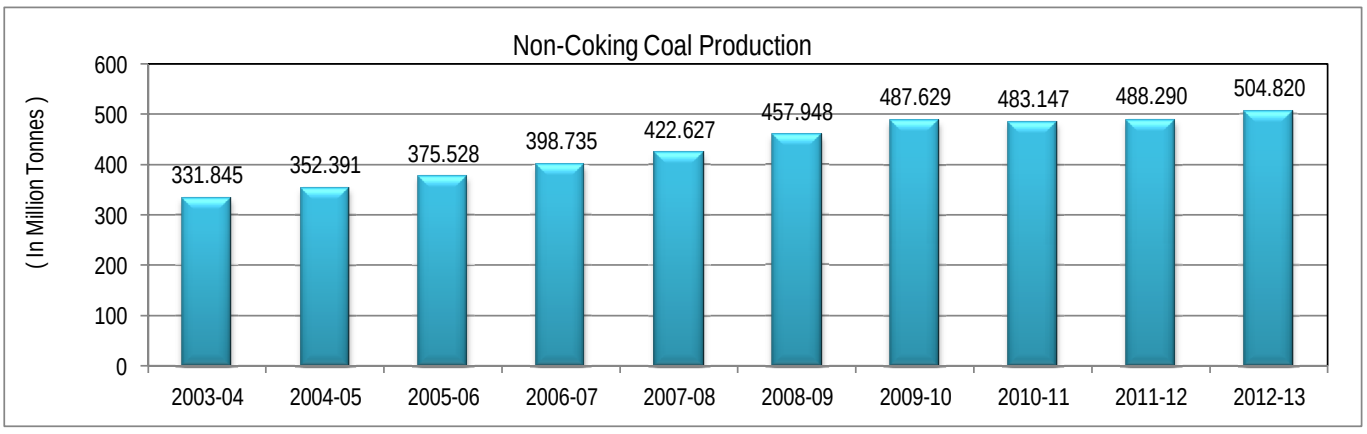
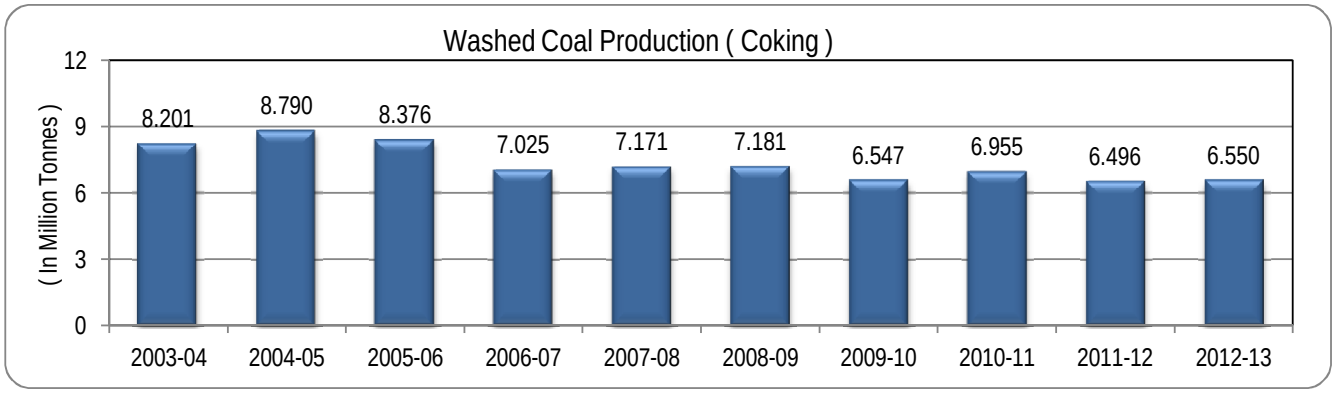
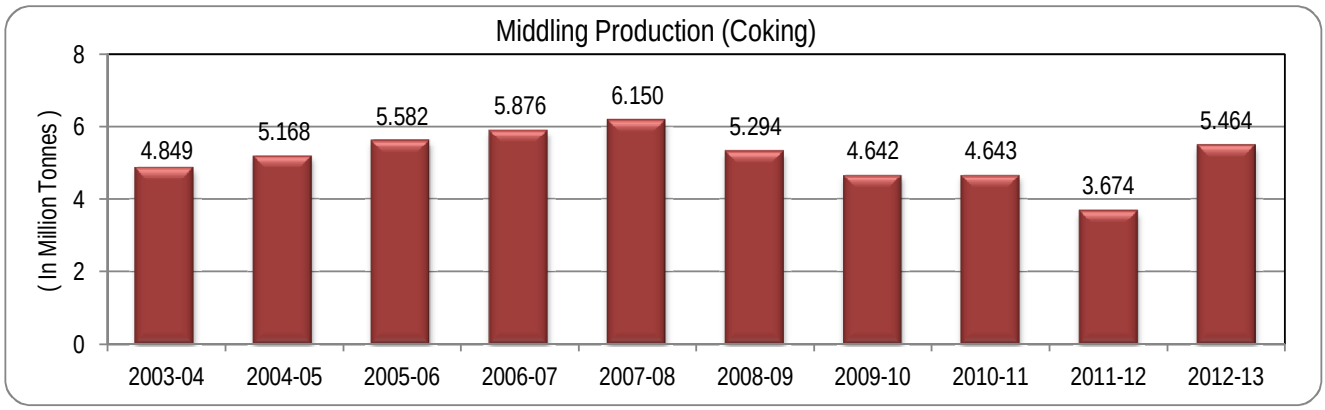


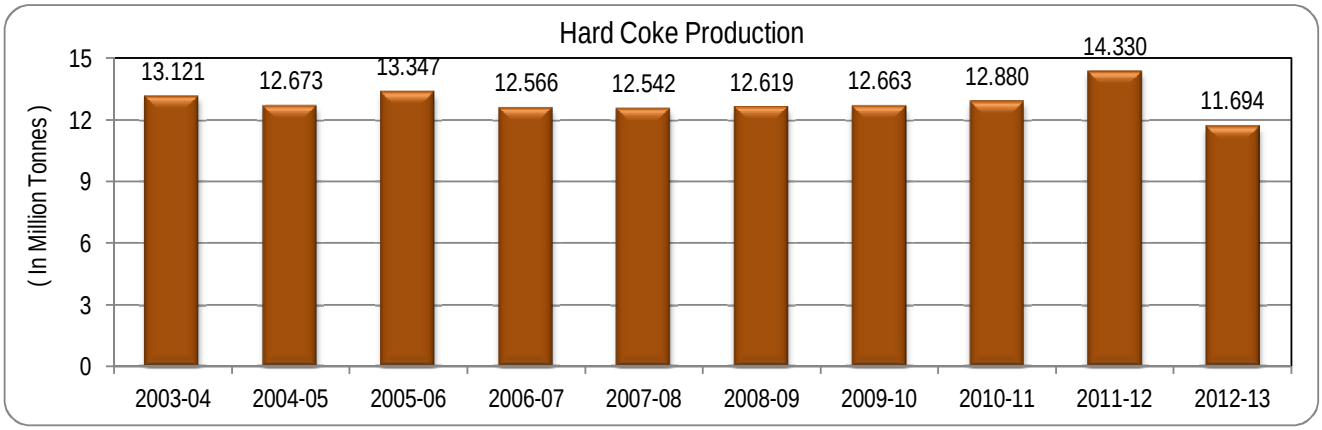
TABLE 3.3: TRENDS OF PRODUCTION OF DIFFERENT TYPES OF COAL PRODUCTS IN LAST TEN YEARS

(Quantity in Million Tonnes)

Year	Washed Coal (Coking)		Washed Coal (N-Coking)		Middlings (Coking)		Middlings (N-Coking)		Hard Coke	
	Production	Growth over previous year (%)	Production	Growth over previous year (%)	Production	Growth over previous year (%)	Production	Growth over previous year (%)	Production (Coking)	Growth over previous year (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2003-04	8.201	0.0			4.849	-2.3			13.121	-5.7
2004-05	8.790	7.2	10.556	N.A.	5.168	6.6	1.605	N.A.	12.673	-3.4
2005-06	8.376	-4.7	12.555	18.9	5.582	8.0	2.793	74.0	13.347	5.3
2006-07	7.025	-16.1	12.688	1.1	5.876	5.3	2.858	2.3	12.566	-5.9
2007-08	7.171	2.1	12.686	0.0	6.150	4.7	3.276	14.6	12.542	-0.2
2008-09	7.181	0.1	13.550	6.8	5.294	-13.9	3.264	-0.4	12.619	0.6
2009-10	6.547	-8.8	13.963	3.0	4.642	-12.3	3.264	0.0	12.663	0.3
2010-11	6.955	6.2	14.532	4.1	4.643	0.0	3.589	10.0	12.880	1.7
2011-12	6.496	-6.6	15.437	6.2	3.674	-20.9	3.669	2.2	14.330	11.3
2012-13	6.550	0.8	14.190	-8.1	5.464	48.7	3.825	4.3	11.694	-18.4







Note: 1. All the above figures of Washed Coal & Middling relate to coal companies (private& public). Washeries not owned by coal companies are not included here.

2. Hard Coke data relate to steel plants only. There are Private sector, specially in small scale, data of which are not readily available.

TABLE 3.4 : QUARTERLY PRODUCTION OF DIFFERENT TYPES OF COAL, LIGNITE & COAL PRODUCTS IN LAST THREE YEARS

(Quantity in Million Tonnes)

Year & Quarter	Coking Coal			Non Coking Coal			Raw Coal			Lignite		
	Prdn	Growth*	Share**	Prdn	Growth*	Share**	**Prdn**	Growth*	Share**	Prdn	Growth*	Share**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	**(8)**	(9)	(10)	(11)	(12)	(13)
2010-11												
April-June	11.053	19.4	22.3	109.354	-1.4	22.6	**120.407**	0.2	22.6	10.872	15.5	28.8
July-Sept.	10.476	12.8	21.1	102.216	0.2	21.2	**112.692**	1.3	21.2	7.606	5.0	20.2
Oct-Dec.	12.866	15.6	26.0	127.174	0.9	26.3	**140.040**	2.1	26.3	8.019	4.7	21.3
Jan-Mar.	15.152	2.8	30.6	144.403	-2.8	29.9	**159.555**	-2.3	30.0	11.236	15.2	29.8
TOTAL	**49.547**	**11.6**	**100.0**	**483.147**	**-0.9**	**100.0**	**532.694**	**0.1**	**100.0**	**37.733**	**10.7**	**100.0**
2011-12												
April-June	11.123	0.6	21.5	109.825	0.4	22.5	**120.948**	0.4	22.4	11.883	9.3	28.1
July-Sept.	9.429	-10.0	18.3	92.495	-9.5	18.9	**101.924**	-9.6	18.9	8.132	6.9	19.2
Oct-Dec.	13.408	4.2	26.0	127.340	0.1	26.1	**140.748**	0.5	26.1	9.317	16.2	22.0
Jan-Mar.	17.700	16.8	34.3	158.630	9.9	32.5	**176.330**	10.5	32.7	13.000	15.7	30.7
TOTAL	**51.660**	**4.3**	**100.0**	**488.290**	**1.1**	**100.0**	**539.950**	**1.4**	**100.0**	**42.332**	**12.2**	**100.0**
2012-13												
April-June	11.679	5.0	22.6	116.740	6.3	23.1	**128.419**	6.2	23.1	12.248	3.1	26.4
July-Sept.	10.651	13.0	20.6	100.987	9.2	20.0	**111.638**	9.5	20.1	9.895	21.7	21.3
Oct-Dec.	12.857	-4.1	24.9	130.789	2.7	25.9	**143.646**	2.1	25.8	10.440	12.1	22.5
Jan-Mar.	16.395	-7.4	31.8	156.304	-1.5	31.0	**172.699**	-2.1	31.0	13.870	6.7	29.9
TOTAL	**51.582**	**-0.2**	**100.0**	**504.820**	**3.4**	**100.0**	**556.402**	**3.0**	**100.0**	**46.453**	**9.7**	**100.0**

Note: (1) *Growth (%) is calculated over similar period of last year.

(2)** Share (%) is caculated as ratio to yearly production.

TABLE 3.4 : QUARTERLY PRODUCTION OF DIFFERENT TYPES OF COAL, LIGNITE & COAL PRODUCTS IN LAST THREE YEARS

(Quantity in Million Tonnes)

Year & Quarter	Washed Coal(Coking)			Washed Coal(Non-coking)			Middling(Coking)			Middling(Non-Coking)			Hard Coke		
	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
2010-11															
April-June	1.753	12.6	25.2	3.129	2.6	21.5	1.136	-5.7	24.5	0.985	34.2	27.4	3.191	6.7	24.8
July-Sept.	1.781	17.3	25.6	3.599	9.6	24.8	1.024	-12.7	22.1	0.990	27.9	27.6	3.162	1.1	24.6
Oct-Dec.	1.736	1.2	25.0	3.682	-2.4	25.3	1.155	-2.1	24.9	0.795	-13.2	22.2	3.309	0.7	25.7
Jan-Mar.	1.685	-4.1	24.2	4.122	6.9	28.4	1.328	19.2	28.6	0.819	-2.5	22.8	3.217	-1.3	25.0
TOTAL	**6.955**	**6.2**	**100.0**	**14.532**	**4.1**	**100.0**	**4.643**	**-0.6**	**100.0**	**3.589**	**10.0**	**100.0**	**12.880**	**1.7**	**100.0**
2011-12															
April-June	1.570	-10.4	24.2	3.663	17.1	23.7	0.899	-20.9	24.5	0.958	-2.7	26.1	3.646	-4.7	25.6
July-Sept.	1.562	-12.3	24.0	3.412	-5.2	22.1	0.902	-11.9	24.6	0.872	-11.9	23.8	3.651	-3.5	25.7
Oct-Dec.	1.595	-8.1	24.6	4.157	12.9	26.9	0.919	-20.4	25.0	0.894	12.5	24.4	3.575	-11.3	24.9
Jan-Mar.	1.769	5.0	27.2	4.205	2.0	27.2	0.954	-28.2	26.0	0.945	15.4	25.8	3.457	-12.6	23.7
TOTAL	**6.496**	**-6.6**	**100.0**	**15.437**	**6.2**	**100.0**	**3.674**	**-20.9**	**100.0**	**3.669**	**2.2**	**100.0**	**14.330**	**-8.1**	**100.0**
2012-13															
April-June	1.687	7.5	25.8	3.026	-17.4	21.3	1.388	54.4	25.4	0.911	-4.9	23.8	2.920	-19.9	25.0
July-Sept.	1.468	-6.0	22.4	3.271	-4.1	23.1	1.230	36.4	22.5	0.979	12.3	25.6	2.896	-20.7	24.8
Oct-Dec.	1.642	2.9	25.1	3.875	-6.8	27.3	1.381	50.3	25.3	0.931	4.1	24.3	2.908	-18.7	24.9
Jan-Mar.	1.753	-0.9	26.8	4.018	-4.4	28.3	1.465	53.6	26.8	1.004	6.2	26.2	2.970	-14.1	25.4
TOTAL	**6.550**	**0.8**	**100.0**	**14.190**	**-8.1**	**100.0**	**5.464**	**48.7**	**100.0**	**3.825**	**4.3**	**100.0**	**11.694**	**-18.4**	**100.0**

Note: (1) *Growth (%) is calculated over similar period of last year.

(2) **Share (%) is caculated as ratio to yearly production.

(3) All the above figures of Washed Coal & Middling relate to coal companies (private& public). Washeries not owned by coal companies are not included here.

(4) Hard Coke data relate to steel plants only.

TABLE 3.5: MONTHLY PRODUCTION OF DIFFERENT TYPES OF COAL, LIGNITE & COAL PRODUCTS IN 2012-13

(Million Tonnes)

MONTH	Coking Coal			Non-coking Coal			Raw Coal			Lignite		
	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2012-13												
Apr-12	3.799	16.3	7.4	38.185	1.1	7.6	41.984	2.4	7.5	4.165	5.5	9.0
May-12	3.996	2.8	7.7	40.690	9.5	8.1	44.686	8.8	8.0	4.117	-4.1	8.9
Jun-12	3.884	-2.1	7.5	37.865	8.5	7.5	41.749	7.4	7.5	3.966	8.9	8.5
1st Quarter	**11.679**	**5.0**	**22.6**	**116.740**	**6.3**	**23.1**	**128.419**	**6.2**	**23.1**	**12.248**	**3.1**	**26.4**
Jul-12	3.814	4.6	7.4	35.751	0.6	7.1	39.565	1.0	7.1	3.495	29.4	7.5
Aug-12	3.444	27.7	6.7	32.606	8.4	6.5	36.050	10.0	6.5	3.333	22.0	7.2
Sep-12	3.393	9.9	6.6	32.630	21.4	6.5	36.023	20.2	6.5	3.067	13.6	6.6
2nd Quarter	**10.651**	**13.0**	**20.6**	**100.987**	**9.2**	**20.0**	**111.638**	**9.5**	**20.1**	**9.895**	**21.7**	**21.3**
Oct-12	3.695	0.2	7.2	40.408	11.7	8.0	44.103	10.7	7.9	3.293	21.9	7.1
Nov-12	4.117	-10.7	8.0	41.871	-2.3	8.3	45.988	-3.1	8.3	3.242	6.7	7.0
Dec-12	5.045	-1.3	9.8	48.510	0.4	9.6	53.555	0.2	9.6	3.905	9.2	8.4
3rd Quarter	**12.857**	**-4.1**	**24.9**	**130.789**	**2.7**	**25.9**	**143.646**	**2.1**	**25.8**	**10.440**	**12.1**	**22.5**
Jan-13	5.192	-2.3	10.1	51.135	2.5	10.1	56.327	2.0	10.1	4.264	5.7	9.2
Feb-13	5.002	-4.8	9.7	46.433	-9.1	9.2	51.435	-8.7	9.2	4.194	-2.1	9.0
Mar-13	6.201	-13.0	12.0	58.736	1.9	11.6	64.937	0.2	11.7	5.412	15.6	11.7
4th Quarter	**16.395**	**-7.4**	**31.8**	**156.304**	**-1.5**	**31.0**	**172.699**	**-2.1**	**31.0**	**13.870**	**6.7**	**29.9**
2012-13	**51.582**	**-0.2**	**100.0**	**504.820**	**3.4**	**100.0**	**556.402**	**3.0**	**100.0**	**46.453**	**9.7**	**100.0**

Note: (1) *Growth (%) is calculated over similar period of last year.

(2) **Share (%) is caculated as ratio to yearly production.

Cont....

TABLE 3.5: MONTHLY PRODUCTION OF DIFFERENT TYPES OF COAL, LIGNITE & COAL PRODUCTS IN 2012-13

(Quantity in Million Tonnes)

MONTH	Washed Coal(Coking)			Washed Coal(N-coking)			Middlings(coking)			Middlings(N-coking)			Hard Coke		
	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
2012-13															
Apr-12	0.561	-0.2	8.6	1.020	-18.5	7.2	0.477	58.5	8.7	0.298	-3.2	7.8	0.983	12.3	8.4
May-12	0.589	23.5	9.0	1.003	-16.3	7.1	0.489	71.0	8.9	0.331	1.2	8.7	0.989	15.9	8.5
Jun-12	0.537	1.1	8.2	1.003	-17.3	7.1	0.422	35.3	7.7	0.282	-12.7	7.4	0.948	14.6	8.1
1st Quarter	**1.687**	**7.5**	**25.8**	**3.026**	**-17.4**	**21.3**	**1.388**	**54.4**	**25.4**	**0.911**	**-4.9**	**23.8**	**2.920**	**14.3**	**25.0**
Jul-12	0.488	-10.0	7.5	1.110	-10.4	7.8	0.421	34.9	7.7	0.331	2.5	8.7	0.981	11.6	8.4
Aug-12	0.474	-6.5	7.2	1.111	3.7	7.8	0.379	33.0	6.9	0.325	3.2	8.5	0.978	14.4	8.4
Sep-12	0.506	-1.4	7.7	1.050	-4.7	7.4	0.430	41.0	7.9	0.323	38.0	8.4	0.937	13.4	8.0
2nd Quarter	**1.468**	**-6.0**	**22.4**	**3.271**	**-4.1**	**23.1**	**1.230**	**36.4**	**22.5**	**0.979**	**12.3**	**25.6**	**2.896**	**13.1**	**24.8**
Oct-12	0.546	14.7	8.3	1.262	1.8	8.9	0.442	54.5	8.1	0.342	26.7	8.9	0.960	14.0	8.2
Nov-12	0.522	-4.9	8.0	1.310	-7.0	9.2	0.469	50.3	8.6	0.300	-5.7	7.8	0.944	15.7	8.1
Dec-12	0.574	0.7	8.8	1.303	-13.7	9.2	0.470	46.4	8.6	0.289	-5.6	7.6	1.004	21.5	8.6
3rd Quarter	**1.642**	**2.9**	**25.1**	**3.875**	**-6.8**	**27.3**	**1.381**	**50.3**	**25.3**	**0.931**	**4.1**	**24.3**	**2.908**	**17.1**	**24.9**
Jan-13	0.596	0.3	9.1	1.322	-10.1	9.3	0.481	43.6	8.8	0.295	0.7	7.7	1.017	25.9	8.7
Feb-13	0.549	-6.2	8.4	1.359	2.3	9.6	0.460	40.2	8.4	0.344	14.7	9.0	0.922	22.6	7.9
Mar-13	0.608	3.1	9.3	1.337	-4.9	9.4	0.524	80.1	9.6	0.365	3.7	9.5	1.031	27.9	8.8
4th Quarter	**1.753**	**-0.9**	**26.8**	**4.018**	**-4.4**	**28.3**	**1.465**	**53.6**	**26.8**	**1.004**	**6.2**	**26.2**	**2.970**	**25.5**	**25.4**
2012-13	**6.550**	**0.8**	**100.0**	**14.190**	**-8.1**	**100.0**	**5.464**	**48.7**	**100.0**	**3.825**	**4.3**	**100.0**	**11.694**	**17.4**	**100.0**

Note: (1) *Growth (%) is calculated over similar period of last year.

(2) **Share (%) is caculated as ratio to yearly production.

(3) All the above figures of Washed Coal & Middling relate to coal companies (private& public). Washeries not owned by coal companies are not included here.

(4) Hard Coke data relate to steel plants only.

TABLE 3.6 : SHARE OF RAW COAL PRODUCTION BY STATES IN LAST TEN YEARS

(Quantity in Million Tonnes)

Year	State: Andhra Pradesh			State: Assam			State: Chhattisgarh		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2003-04	33.854	9.4	1.9	0.733	0.2	15.8	61.505	17.0	8.4
2004-05	35.303	9.2	4.3	0.628	0.2	-14.3	69.253	18.1	12.6
2005-06	36.138	8.9	2.4	1.101	0.3	75.3	76.358	18.8	10.3
2006-07	37.707	8.8	4.3	1.050	0.2	-4.6	83.241	19.3	9.0
2007-08	40.604	8.9	7.7	1.101	0.2	4.9	90.172	19.7	8.3
2008-09	44.546	9.0	9.7	1.009	0.2	-8.4	101.922	20.7	13.0
2009-10	50.429	9.5	13.2	1.113	0.2	10.3	109.953	20.7	7.9
2010-11	51.333	9.6	1.8	1.101	0.2	-1.1	113.825	21.4	3.5
2011-12	52.211	9.7	1.7	0.602	0.1	-45.3	113.958	21.1	0.1
2012-13	53.190	9.6	1.9	0.605	0.1	0.5	117.830	21.2	3.4

Year	State: Jammu & Kashmir			State: Jharkhand			State: Madhya Pradesh		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)
(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2003-04	0.019	0.0	-24.0	79.526	22.0	1.1	49.826	13.8	8.9
2004-05	0.023	0.0	21.1	78.038	20.4	-1.9	52.511	13.7	5.4
2005-06	0.019	0.0	-17.4	85.423	21.0	9.5	55.579	13.7	5.8
2006-07	0.016	0.0	-15.8	88.764	20.6	3.9	59.726	13.9	7.5
2007-08	0.017	0.0	6.3	90.895	19.9	2.4	67.841	14.8	13.6
2008-09	0.011	0.0	-35.3	96.272	19.5	5.9	71.325	14.5	5.1
2009-10	0.023	0.0	109.1	105.917	19.9	10.0	74.074	13.9	3.9
2010-11	0.023	0.0	0.0	108.949	20.5	2.9	71.104	13.3	-4.0
2011-12	0.020	0.0	-13.0	109.566	20.3	0.6	71.123	13.2	0.0
2012-13	0.019	0.0	-5.0	111.274	20.0	1.6	75.948	13.6	6.8

Year	State: Maharashtra			State: Meghalaya		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)
(21)	(22)	(23)	(24)	(25)	(26)	(27)
2003-04	32.912	9.1	5.0	5.439	1.5	19.0
2004-05	34.529	9.0	4.9	5.345	1.4	-1.8
2005-06	36.119	8.9	4.6	5.566	1.4	4.0
2006-07	36.215	8.4	0.3	5.787	1.3	3.8
2007-08	36.403	8.0	0.5	6.541	1.4	11.5
2008-09	38.705	7.9	6.3	5.489	1.1	-19.2
2009-10	41.005	7.7	5.9	5.767	1.1	4.8
2010-11	39.336	7.4	-4.1	6.974	1.3	17.3
2011-12	39.159	7.3	-0.4	7.206	1.3	3.2
2012-13	39.134	7.0	-0.1	5.640	1.0	-27.8

Note: The State of Chhattisgarh is curved out of the state of Madhya Pradesh w.e.f 1st November 2000.

Note: The State of Jharkhand is curved out of the state of Bihar w.e.f 15th Nov.2000.

TABLE 3.6 : SHARE OF RAW COAL PRODUCTION BY STATES IN LAST TEN YEARS.

(Quantity in Million Tonnes)

Year	State: Orissa			State: Uttar Pradesh			State: West Bengal		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)
(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
2003-04	60.147	16.6	15.2	15.791	4.4	-11.2	21.494	5.9	5.0
2004-05	66.604	17.4	10.7	16.804	4.4	6.4	23.577	6.2	9.7
2005-06	70.540	17.3	5.9	15.721	3.9	-6.4	24.475	6.0	3.8
2006-07	81.160	18.8	15.1	12.228	2.8	-22.2	24.938	5.8	1.9
2007-08	89.482	19.6	10.3	11.426	2.5	-6.6	22.521	4.9	-9.7
2008-09	98.402	20.0	10.0	12.029	2.4	5.3	22.905	4.6	1.7
2009-10	106.409	20.0	8.1	13.968	2.6	16.1	23.133	4.3	1.0
2010-11	102.565	19.3	-3.6	15.526	2.9	11.2	21.659	4.1	-6.4
2011-12	105.476	19.5	2.8	16.178	3.0	4.2	24.230	4.5	11.9
2012-13	110.132	19.8	4.4	16.090	2.9	-0.5	26.467	4.8	9.2

Year	State: Arunachal Pradesh			Year	ALL INDIA	
	Quantity	Share (%)	Growth (%)		Quantity	Growth (%)
(41)	(42)	(43)	(44)	(45)	(46)	(47)
2003-04				2003-04	**361.246**	5.9
2004-05				2004-05	**382.615**	5.9
2005-06				2005-06	**407.039**	6.4
2006-07				2006-07	**430.832**	5.8
2007-08	0.079	0.0	0.0	2007-08	**457.082**	6.1
2008-09	0.142	0.0	79.7	2008-09	**492.757**	7.8
2009-10	0.251	0.0	76.8	2009-10	**532.042**	8.0
2010-11	0.299	0.1	19.1	2010-11	**532.694**	0.1
2011-12	0.221	0.0	-26.1	2011-12	**539.950**	1.4
2012-13	0.073	0.0	-67.0	2011-13	**556.402**	3.0

TABLE 3.7 : SHARE OF LIGNITE PRODUCTION BY STATES IN LAST TEN YEARS.

(Quantity in Million Tonnes)

Year	State: Tamilnadu			State: Gujarat			State: Rajasthan			ALL INDIA	
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)	**Quantity**	**Growth (%)**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(12)	(13)
2003-04	20.556	73.5	10.4	6.724	24.1	-2.8	0.678	2.4	43.3	**27.958**	7.5
2004-05	21.567	71.1	4.9	8.222	27.1	22.3	0.548	1.8	-19.2	**30.337**	8.5
2005-06	20.435	68.0	-5.2	8.944	29.7	8.8	0.687	2.3	25.4	**30.066**	-0.9
2006-07	21.014	67.2	2.8	9.808	31.4	9.7	0.463	1.5	-32.6	**31.285**	4.1
2007-08	21.586	63.5	2.7	11.788	34.7	20.2	0.606	1.8	30.9	**33.980**	8.6
2008-09	21.308	65.7	-1.3	10.114	31.2	-14.2	0.999	3.1	64.9	**32.421**	-4.6
2009-10	22.338	65.6	4.8	10.526	30.9	4.1	1.207	3.5	20.8	**34.071**	5.1
2010-11	23.144	61.3	3.6	13.064	34.6	24.1	1.525	4.0	26.3	**37.733**	10.7
2011-12	24.590	58.1	6.2	14.779	34.9	13.1	2.963	7.0	94.3	**42.332**	12.2
2012-13	24.844	53.5	1.0	14.528	31.3	-1.7	7.081	15.2	139.0	**46.453**	9.7

TABLE 3.8 : TRENDS OF COMPANY WISE PRODUCTION OF COAL & LIGNITE DURING LAST THREE YEARS

[Quantity in Milllion tonnes]

Company	2010-11			2011-12			2012-13		
	Coking	Non-coking	**Total**	Coking	Non-coking	**Total**	Coking	Non-coking	**Total**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ECL	0.046	30.757	**30.803**	0.051	30.507	**30.558**	0.043	33.858	**33.901**
BCCL	25.283	3.721	**29.004**	27.250	2.957	**30.207**	26.970	4.241	**31.211**
CCL	15.435	32.086	**47.521**	15.549	32.455	**48.004**	16.181	31.880	**48.061**
NCL		66.253	**66.253**		66.401	**66.401**		70.021	**70.021**
WCL	0.403	43.251	**43.654**	0.319	42.791	**43.110**	0.330	41.957	**42.287**
SECL	0.163	112.542	**112.705**	0.189	113.648	**113.837**	0.157	118.062	**118.219**
MCL		100.280	**100.280**		103.119	**103.119**		107.895	**107.895**
NEC		1.101	**1.101**		0.602	**0.602**		0.605	**0.605**
CIL	**41.330**	**389.991**	**431.321**	**43.358**	**392.480**	**435.838**	**43.681**	**408.519**	**452.200**
SCCL		51.333	**51.333**		52.211	**52.211**		53.190	**53.190**
JKML		0.024	**0.024**		0.020	**0.020**		0.019	**0.019**
JSMDCL		0.399	**0.399**		0.118	**0.118**			**0**
DVC	0.311		**0.311**	0.328	0	**0.328**		0.203	**0.203**
DVC EMTA		0.021	**0.021**		1.165	**1.165**		1.836	**1.836**
IISCO	0.855	0.227	**1.082**	0.434	0.164	**0.598**	0.560	0.155	**0.715**
APMDTCL		0.299	**0.299**		0.221	**0.221**		0.073	**0.073**
SAIL	0.014		**0.014**	0.040		**0.040**	0.033	0.069	**0.102**
WBPDCL		0.257	**0.257**		0.216	**0.216**		0.261	**0.261**
WBMDTCL								0.348	**0.348**
RRUVNL								0.293	**0.293**
Total Public	**42.510**	**442.551**	**485.061**	**44.160**	**446.595**	**490.755**	**44.274**	**464.966**	**509.240**
BECML		2.876	**2.876**		2.598	**2.598**		3.005	**3.005**
ICML		2.929	**2.929**		3.745	**3.745**		3.129	**3.129**
JSPL		5.999	**5.999**		5.998	**5.998**		5.999	**5.999**
HIL		2.285	**2.285**		2.357	**2.357**		2.237	**2.237**
Meghalaya		6.974	**6.974**		7.206	**7.206**		5.640	**5.640**
TISCO	7.003	0.023	**7.026**	7.394	0.067	**7.461**	7.214	0.081	**7.295**
MIL		0.952	**0.952**		0.851	**0.851**		0.795	**0.795**
BLA		0.297	**0.297**		0.299	**0.299**		0.300	**0.300**
CML			**0**			**0**			**0**
PANEM		8.031	**8.031**		8.301	**8.301**		6.926	**6.926**
PIL		1.000	**1.000**		1.000	**1.000**		1.000	**1.000**
JNL		0.406	**0.406**		0.480	**0.480**		0.480	**0.480**
JPL		5.688	**5.688**		5.250	**5.250**		5.250	**5.250**
SIL		0.114	**0.114**		0.160	**0.160**		0.248	**0.248**
ESCL	0.034		**0.034**	0.106		**0.106**	0.094	0.005	**0.099**
UML		0.300	**0.300**		0.351	**0.351**		0.560	**0.560**
KECML		2.275	**2.275**		2.189	**2.189**		2.506	**2.506**
SEML		0.432	**0.432**		0.774	**0.774**		0.976	**0.976**
BSIL		0.015	**0.015**		0.003	**0.003**		0.062	**0.062**
TUML					0.066	**0.066**		0.341	**0.341**
SPL								0.225	**0.225**
SOVA								0.089	**0.089**
GVK									**0**
Total Private	**7.037**	**40.596**	**47.633**	**7.500**	**41.695**	**49.195**	**7.308**	**39.854**	**47.162**
ALL INDIA	**49.547**	**483.147**	**532.694**	**51.660**	**488.290**	**539.950**	**51.582**	**504.820**	**556.402**
LIGNITE									
NLC			**23.144**			**24.590**			**26.223**
GMDCL			**10.232**			**11.343**			**10.905**
GIPCL			**2.521**			**3.042**			**3.326**
RSMML			**0.883**			**2.120**			**1.387**
GHCL			**0.311**			**0.394**			**0.297**
VSLPPL			**0.642**			**0.843**			**0.815**
BLMCL									**3.500**
ALL INDIA			**37.733**			**42.332**			**46.453**
COAL & LIGNITE			**570.427**			**582.282**			**602.855**

TABLE 3.9: STATEWISE PRODUCTION OF RAW COAL BY TYPES IN LAST FIVE YEARS

(Quantity in Million Tonnes)

State	2008-09	2009-10	2010-11	2011-12	2012-13
(1)	(2)	(3)	(4)	(5)	(6)
COKING					
Chhattisgarh	0.146	0.150	0.163	0.189	0.157
Jharkhand	33.877	43.666	48.945	51.108	51.065
Madhya Pradesh	0.730	0.545	0.403	0.319	0.330
West Bengal	0.056	0.052	0.036	0.044	0.030
Total Coking	**34.809**	**44.413**	**49.547**	**51.660**	**51.582**
NON-COKING					
Andhra Pradesh	44.546	50.429	51.333	52.211	53.190
Arunachal Pradesh	0.142	0.251	0.299	0.221	0.073
Assam	1.009	1.113	1.101	0.602	0.605
Chhattisgarh	101.776	109.803	113.661	113.769	117.673
Jammu & Kashmir	0.011	0.023	0.024	0.020	0.019
Jharkhand	62.395	62.251	60.004	58.458	60.209
Madhya Pradesh	70.595	73.529	70.701	70.804	75.618
Maharashtra	38.705	41.005	39.336	39.159	39.134
Meghalaya	5.489	5.767	6.974	7.206	5.640
Orissa	98.402	106.409	102.565	105.476	110.132
Uttar Pradesh	12.029	13.968	15.526	16.178	16.090
West Bengal	22.849	23.081	21.623	24.186	26.437
Total Non-Coking	**457.948**	**487.629**	**483.147**	**488.290**	**504.820**

TABLE 3.10: STATEWISE PRODUCTION OF LIGNITE IN LAST FIVE YEARS

Million Tonnes

State	2008-09	2009-10	2010-11	2011-12	2012-13
(1)	(3)	(4)	(5)	(6)	(6)
Gujarat	10.114	10.526	13.064	14.779	14.528
Rajasthan	0.999	1.207	1.525	2.963	7.081
Tamilnadu	21.308	22.338	23.144	24.590	24.844
TOTAL	**32.421**	**34.071**	**37.733**	**42.332**	**46.453**

TABLE 3.11: STATEWISE AND COMPANYWISE PRODUCTION OF RAW COAL BY TYPES IN LAST THREE YEARS

[Quantity in Million Tonnes]

STATES	COAL COMPANY	2010 - 2011			2011 - 2012			2012 - 2013		
		Coking	N-Coking	**Total**	Coking	N-Coking	**Total**	Coking	N-Coking	**Total**
(1)	(2)	(3)	(4)	**(5)**	(6)	(7)	**(8)**	(9)	(10)	**(11)**
Andhra Pradesh	**SCCL**		51.333	**51.333**		52.211	**52.211**		53.190	**53.190**
Arunachal Pradesh	**APMDTCL**		0.299	**0.299**		0.221	**0.221**		0.073	**0.073**
Assam	**NEC**		1.101	**1.101**		0.602	**0.602**		0.605	**0.605**
Chhattisgarh	SECL	0.163	99.184	**99.347**	0.189	99.416	**99.605**	0.157	102.880	**103.037**
Chhattisgarh	JSPL		5.999	**5.999**		5.998	**5.998**		5.999	**5.999**
Chhattisgarh	MIL		0.952	**0.952**		0.851	**0.851**		0.795	**0.795**
Chhattisgarh	PIL		1.000	**1.000**		1.000	**1.000**		1.000	**1.000**
Chhattisgarh	JPL		5.688	**5.688**		5.250	**5.250**		5.250	**5.250**
Chhattisgarh	JNL		0.406	**0.406**		0.480	**0.480**		0.480	**0.480**
Chhattisgarh	SEML		0.432	**0.432**		0.774	**0.774**		0.976	**0.976**
Chhattisgarh	CML			**0**			**0**			**0**
Chhattisgarh	RRUVNL								0.293	**0.293**
Chhattisgarh	**TOTAL**	0.163	113.661	**113.824**	0.189	113.769	**113.958**	0.157	117.673	**117.830**
Jammu & Kashmir	**JKML**		0.024	**0.024**		0.020	**0.020**		0.019	**0.019**
Jharkhand	ECL	0.039	15.444	**15.483**	0.041	14.209	**14.250**	0.033	16.290	**16.323**
Jharkhand	BCCL	25.254	3.721	**28.975**	27.216	2.957	**30.173**	26.950	4.195	**31.145**
Jharkhand	CCL	15.435	32.086	**47.521**	15.549	32.455	**48.004**	16.181	31.880	**48.061**
Jharkhand	JSMDCL		0.399	**0.399**		0.118	**0.118**		0	**0**
Jharkhand	DVC	0.311		**0.311**	0.328		**0.328**		0.203	**0.203**
Jharkhand	IISCOCJ	0.855		**0.855**	0.434		**0.434**	0.560		**0.560**
Jharkhand	TISCO	7.003	0.023	**7.026**	7.394	0.067	**7.461**	7.214	0.081	**7.295**
Jharkhand	PANEM		8.031	**8.031**		8.301	**8.301**		6.926	**6.926**
Jharkhand	UML		0.300	**0.300**		0.351	**0.351**		0.560	**0.560**
Jharkhand	ESCL	0.034		**0.034**	0.106		**0.106**	0.094	0.005	**0.099**
Jharkhand	SAIL	0.014		**0.014**	0.040		**0.040**	0.033	0.069	**0.102**
Jharkhand	GVK								0	**0**
Jharkhand	**TOTAL**	48.945	60.004	**108.949**	51.108	58.458	**109.566**	51.065	60.209	**111.274**
Madhya Pradesh	NCL		50.727	**50.727**		50.223	**50.223**		53.931	**53.931**
Madhya Pradesh	WCL	0.403	6.319	**6.722**	0.319	6.050	**6.369**	0.330	5.980	**6.310**
Madhya Pradesh	SECL		13.358	**13.358**		14.232	**14.232**		15.182	**15.182**
Madhya Pradesh	BLA		0.297	**0.297**		0.299	**0.299**		0.300	**0.300**
Madhya Pradesh	SPL								0.225	**0.225**
Madhya Pradesh	**TOTAL**	0.403	70.701	**71.104**	0.319	70.804	**71.123**	0.330	75.618	**75.948**
Maharashtra	WCL		36.932	**36.932**		36.741	**36.741**		35.977	**35.977**
Maharashtra	SIL		0.114	**0.114**		0.160	**0.160**		0.248	**0.248**
Maharashtra	BSIL		0.015	**0.015**		0.003	**0.003**		0.062	**0.062**
Maharashtra	KECML		2.275	**2.275**		2.189	**2.189**		2.506	**2.506**
Maharashtra	TUML					0.066	**0.066**		0.341	**0.341**
Maharashtra	**TOTAL**	0	39.336	**39.336**	0	39.159	**39.159**	0	39.134	**39.134**
Meghalaya	**MEG**		6.974	**6.974**		7.206	**7.206**		5.640	**5.640**
Orissa	MCL		100.280	**100.280**		103.119	**103.119**		107.895	**107.895**
Orissa	HIL		2.285	**2.285**		2.357	**2.357**		2.237	**2.237**
Orissa	**TOTAL**		102.565	**102.565**		105.476	**105.476**		110.132	**110.132**
Uttar Pradesh	**NCL**		15.526	**15.526**		16.178	**16.178**		16.090	**16.090**
West Bengal	ECL	0.007	15.313	**15.320**	0.010	16.298	**16.308**	0.010	17.568	**17.578**
West Bengal	BCCL	0.029	0	**0.029**	0.034	0	**0.034**	0.020	0.046	**0.066**
West Bengal	IISCOR		0.227	**0.227**		0.164	**0.164**		0.155	**0.155**
West Bengal	BECML		2.876	**2.876**		2.598	**2.598**		3.005	**3.005**
West Bengal	ICML		2.929	**2.929**		3.745	**3.745**		3.129	**3.129**
West Bengal	WBPDCL		0.257	**0.257**		0.216	**0.216**		0.261	**0.261**
West Bengal	DVC EMTA		0.021	**0.021**		1.165	**1.165**		1.836	**1.836**
West Bengal	WBMDTCL								0.348	**0.348**
West Bengal	SOVA								0.089	**0.089**
West Bengal	**TOTAL**	0.036	21.623	**21.659**	0.044	24.186	**24.230**	0.030	26.437	**26.467**
Total Public		**42.510**	**442.551**	**485.061**	**44.160**	**446.595**	**490.755**	**44.274**	**464.966**	**509.240**
Total Private	**TOTAL**	**7.037**	**40.596**	**47.633**	**7.500**	**41.695**	**49.195**	**7.308**	**39.854**	**47.162**
All India		**49.547**	**483.147**	**532.694**	**51.660**	**488.290**	**539.950**	**51.582**	**504.820**	**556.402**

TABLE 3.12: COMPANYWISE PRODUCTION OF DIFFERENT COAL PRODUCTS IN LAST THREE YEARS

(Quantity in Thousand Tonnes)

YEAR	Companies	Washed Coal (Coking)	Middling (Coking)	Hard Coke	CIL Coke	Coke Fines	Coal gas (Mill. NM3)	Coal fines
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2010-11	BCCL	1549	872					
	CCL	1453	1000					
	WCL	191	139					
	DCC				26	70	6	151
	SAIL	592	247	8874				
	RINL			2041				
	TISCO	3170	2385	1965				
	TOTAL	**6955**	**4643**	**12880**	**26**	**70**	**6**	**151**
2011-12	BCCL	1421						
	CCL	1334	914					
	WCL	137	97					
	DCC				28	31	42	145
	SAIL	339	197	9976				
	RINL			2414				
	TISCO	3266	2466	1940				
	TOTAL	**6497**	**3674**	**14330**	**28**	**31**	**42**	**145**
2012-13	BCCL	1329	1291					
	CCL	1239	1034					
	WCL	144	102					
	DCC				23	25	36	157
	SAIL	448	263	7411				
	RINL			2415				
	TISCO	3381	2763	1868				
	ESCL	9	11					
	TOTAL	**6550**	**5464**	**11694**	**23**	**25**	**36**	**157**

Coke production of RINL is included in this table.

TABLE 3.13: GRADEWISE PRODUCTION OF COKING COAL BY COMPANIES IN 2012-13

(Quantity in Thousand Tonnes)

Companies	PRODUCTION OF COKING COAL										
	Steel-I	Steel-II	SC-1	Wash-I	Wash-II	Wash-III	Wash-IV	SLV1	Met.Coal	Non Met	**Total Coking**
ECL			0.010			0.033			0.010	0.033	**0.043**
BCCL	0.072	1.370		0.260	1.157	7.691	16.420		3.435	23.535	**26.970**
CCL					0.121	2.644	13.416		2.901	13.280	**16.181**
NCL											**0**
WCL					0.330				0.330	0	**0.330**
SECL			0.157							0.157	**0.157**
MCL											**0**
NEC											**0**
CIL	**0.072**	**1.370**	**0.167**	**0.260**	**1.608**	**10.368**	**29.836**	**0.000**	**6.676**	**37.005**	**43.681**
SCCL											**0**
JKML											**0**
JSMDCL											**0**
DVC											**0**
DVC EMTA											**0**
IISCO						0.032	0.528		0.560	0.000	**0.560**
SAIL							0.033		0.033	0.000	**0.033**
APMDTCL											**0**
WBPDCL											**0**
RRUVNL											**0**
WBMDTCL											**0**
PUBLIC	**0.072**	**1.370**	**0.167**	**0.260**	**1.608**	**10.400**	**30.397**	**0**	**7.269**	**37.005**	**44.274**
BECML											**0**
ICML											**0**
JSPL											**0**
HIL											**0**
Meghalaya											**0**
TISCO					0.103	1.946	5.165		7.214	0.000	**7.214**
MIL											**0**
BLA											**0**
CML											**0**
PANEM											**0**
PIL											**0**
JNL											**0**
JPL											**0**
SIL											**0**
ESCL							0.094		0.064	0.030	**0.094**
UML											**0**
KECML											**0**
SEML											**0**
BSIL											**0**
TUML											**0**
SPL											**0**
SOVA											**0**
GVK											**0**
PRIVATE	**0.000**	**0.000**	**0.000**	**0.000**	**0.103**	**1.946**	**5.259**	**0.000**	**7.278**	**0.030**	**7.308**
India (12-13)	**0.072**	**1.370**	**0.167**	**0.260**	**1.711**	**12.346**	**35.656**	**0.000**	**14.547**	**37.035**	**51.582**

Contd....

TABLE 3.13: GRADEWISE PRODUCTION OF NON COKING COAL BY COMPANIES IN 2012-13

(Quantity in Thousand Tonnes)

Companies	PRODUCTION OF NON-COKING COAL																	Total N-coking	Total Coal
	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16	G17		
ECL		0.076	1.330	11.751	4.574	1.749	0.750	0.214			13.414							**33.858**	**33.901**
BCCL		0.077	0.949	0.193	0.340	2.524	0.041	0.107			0.010							**4.241**	**31.211**
CCL				0	1.882	1	1	1.026	19.392	3.080	3.858							**31.880**	**48.061**
NCL					0.915	0.122	15.804	9.094		44.086								**70.021**	**70.021**
WCL				0.033	0.497	1.702	3.153	8.826	27.746									**41.957**	**42.287**
SECL			3.343	4.543	6.054	8.981	4.707	1.141		9.403	72.079	7.811						**118.062**	**118.219**
MCL					0.118		0.035	0.229	1.307	2.240	11.644	25.339	66.983					**107.895**	**107.895**
NEC	0.259	0.279		0.067														**0.605**	**0.605**
CIL	**0.259**	**0.432**	**5.622**	**16.867**	**14.380**	**16.120**	**25.810**	**20.637**	**48.445**	**58.809**	**101.005**	**33.150**	**66.983**	**0.000**	**0.000**	**0.000**	**0.000**	**408.519**	**452.200**
SCCL		0.034			0.686		7.270		13.102	0.172	15.958		12.522		2.144		1.302	**53.190**	**53.190**
JKML																	0.019	**0.019**	**0.019**
JSMDCL																		**0**	**0**
DVC				0.203														**0.203**	**0.203**
DVC EMTA						**0.551**	**1.285**											**1.836**	**1.836**
IISCO		0.014		0.029					0.112									**0.155**	**0.715**
SAIL															0.069			**0.069**	**0.102**
APMDTCL																	0.073	**0.073**	**0.073**
WBPDCL				0.261														**0.261**	**0.261**
RRUVNL												**0.293**						**0.293**	**0.293**
WBMDTCL				**0.259**	**0.089**													**0.348**	**0.348**
PUBLIC	**0.259**	**0.480**	**5.622**	**17.619**	**15.155**	**16.671**	**34.365**	**20.637**	**61.659**	**58.981**	**116.963**	**33.443**	**79.505**	**0.000**	**2.213**	**0.000**	**1.394**	**464.966**	**509.240**
BECML						3.005												**3.005**	**3.005**
ICML											3.129							**3.129**	**3.129**
JSPL												0.888			1.414		3.697	**5.999**	**5.999**
HIL													1.523	0.714				**2.237**	**2.237**
Meghalaya	5.640																	**5.640**	**5.640**
TISCO																	0.081	**0.081**	**7.295**
MIL							0.421					0.374						**0.795**	**0.795**
BLA					0.007	0.048	0.056			0.137	0.052							**0.300**	**0.300**
CML																		**0**	**0**
PANEM						2.424		3.463	1.039									**6.926**	**6.926**
PIL									1.000									**1.000**	**1.000**
JNL									0.365			0.115						**0.480**	**0.480**
JPL												1.976		1.644		1.630		**5.250**	**5.250**
SIL									0.248									**0.248**	**0.248**
ESCL																	0.005	**0.005**	**0.099**
UML						0.560												**0.560**	**0.560**
KECML									2.506									**2.506**	**2.506**
SEML												0.136		0.810			0.03	**0.976**	**0.976**
BSIL													0.062					**0.062**	**0.062**
TUML															0.341			**0.341**	**0.341**
SPL											0.225							**0.225**	**0.225**
SOVA								0.089										**0.089**	**0.089**
GVK																		**0**	**0**
PRIVATE	**5.640**	**0.000**	**0.000**	**0.000**	**0.007**	**6.037**	**0.477**	**3.552**	**5.158**	**0.137**	**3.406**	**3.489**	**1.585**	**3.168**	**1.755**	**1.630**	**3.813**	**39.854**	**47.162**
India (12-13)	**5.899**	**0.480**	**5.622**	**17.619**	**15.162**	**22.708**	**34.842**	**24.189**	**66.817**	**59.118**	**120.369**	**36.932**	**81.090**	**3.168**	**3.968**	**1.630**	**5.207**	**504.820**	**556.402**

TABLE 3.14: GRADEWISE PRODUCTION OF COKING COAL AND NON COKING COAL BY STATES IN 2012-13

(Quantity in Million Tonnes)

Grade	Andhra Pradesh	Arunachal Pradesh	Assam	Chhattisgarh	Jammu & Kashmir	Jharkhand	Madhya Pradesh	Maharashtra	Meghalaya	Orissa	Uttar Pradesh	West Bengal	**India (2012-13)**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	**(14)**
Steel-I						0.052						0.020	**0.072**
Steel-II						1.370							**1.370**
SC				0.157								0.010	**0.167**
Wash-I						0.260							**0.260**
Wash-II						1.381	0.330						**1.711**
Wash-III						12.346							**12.346**
Wash-IV						35.656							**35.656**
SLV1													**0.000**
Met.Coal						14.187	0.330					0.030	14.547
Non Met	0.000	0.000	0.000	0.157	0.000	36.878	0.000	0.000	0.000	0.000	0.000	0.000	37.035
Tot Ckg.	**0.000**	**0.000**	**0.000**	**0.157**	**0.000**	**51.065**	**0.330**	**0.000**	**0.000**	**0.000**	**0.000**	**0.030**	**51.582**
G1			0.259						5.640				**5.899**
G2	0.034		0.279			0.077						0.090	**0.480**
G3				1.742		1.291	1.601					0.988	**5.622**
G4			0.067	2.865		0.676	1.711					12.300	**17.619**
G5	0.686			4.537		3.836	2.494	0.284		0.118	0.158	3.049	**15.162**
G6				2.623		6.970	7.218	0.890			0.122	4.885	**22.708**
G7	7.270			1.100		1.601	21.716	1.325		0.035		1.795	**34.842**
G8				1.141		4.810	2.870	7.168		0.229	7.882	0.089	**24.189**
G9	13.102			1.365		20.431	1.436	29.064		1.307		0.112	**66.817**
G10	0.172			9.403		3.080	36.295			2.240	7.928		**59.118**
G11	15.958			72.079		17.282	0.277			11.644		3.129	**120.369**
G12				11.593						25.339			**36.932**
G13	12.522							0.062		68.506			**81.090**
G14				2.454						0.714			**3.168**
G15	2.144			1.414		0.069		0.341					**3.968**
G16				1.630									**1.630**
G17	1.302	0.073		3.727	0.019	0.086							**5.207**
Tot. Nckg	**53.190**	**0.073**	**0.605**	**117.673**	**0.019**	**60.209**	**75.618**	**39.134**	**5.640**	**110.132**	**16.090**	**26.437**	**504.820**
Total Coal	**53.190**	**0.073**	**0.605**	**117.830**	**0.019**	**111.274**	**75.948**	**39.134**	**5.640**	**110.132**	**16.090**	**26.467**	**556.402**

Note: (1) Meghalaya coal has not been graded. For Statistical purpose grade may be treated as "A"/"B" non-coking coal.

TABLE 3.15: GRADEWISE PRODUCTION OF COKING COAL AND NON COKING COAL IN INDIA DURING LAST TEN YEARS

(Quantity in Million Tonnes)

Type	Grade	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Grade for 2012-13	2012-13
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)
PRODUCTION OF COKING COAL	Steel-I	0.199	0.147	0.139	0.127	0.083	0.075	0.109	0.263	0.083	Steel-I	0.072
	Steel-II	0.107	0.106	0.999	0.559	0.282	0.960	1.380	1.558	1.135	Steel-II	1.370
	SC-1	0.207	0.206	0.192	0.182	0.181	0.169	0.167	0.17	0.199	SC-1	0.167
	Wash-I	0.355	0.342	0.249	0.291	0.471	0.318	0.297	0.235	0.246	Wash-I	0.260
	Wash-II	4.391	3.827	4.641	3.171	2.085	1.717	1.868	1.757	1.815	Wash-II	1.711
	Wash-III	5.729	7.655	6.039	6.737	7.759	8.090	10.068	10.165	13.147	Wash-III	12.346
	Wash-IV	18.413	17.837	19.203	20.999	23.568	23.472	30.524	35.399	35.035	Wash-IV	35.656
	SLV1		0.104	0.050	0.031	0.026	0.008	0	0	0	SLV1	0
	Met.Coal	18.268	18.194	17.123	17.231	18.065	17.301	17.731	17.695	14.547	Met.Coal	14.547
	Non Met	11.133	12.030	14.389	14.866	16.390	17.508	26.682	31.852	37.113	Non Met	37.035
	Total Coking	**29.401**	**30.224**	**31.512**	**32.097**	**34.455**	**34.809**	**44.413**	**49.547**	**51.660**	**Total Coking**	**51.582**
PRODUCTION OF NON - COKING COAL	A	3.824	3.929	4.599	4.958	4.901	10.179	10.692	12.182	14.942	G1	5.899
	B	21.972	22.152	21.723	20.815	21.959	24.854	25.827	24.023	59.312	G2	0.480
	C	51.942	53.017	50.720	53.059	55.526	51.058	56.147	55.581	28.918	G3	5.622
	D	41.543	41.544	41.881	42.439	45.721	48.006	50.518	45.710	77.109	G4	17.619
	E	80.039	85.645	96.175	98.079	102.277	112.993	117.855	121.227	78.257	G5	15.162
	F	123.299	136.034	148.170	165.673	178.877	201.286	219.097	212.693	205.194	G6	22.708
	G	3.313	2.401	6.560	7.733	6.590	9.332	7.099	10.612	13.712	G7	34.842
	SLV2	0.277	0	0	0	0	0	0	0	0	G8	24.189
	Ungr	5.636	7.669	5.700	5.979	6.776	0.240	0.394	1.119	10.846	G9	66.817
											G10	59.118
											G11	120.369
											G12	36.932
											G13	81.090
											G14	3.168
											G15	3.968
											G16	1.630
											G17	5.207
	Total Non-Coking	**331.845**	**352.391**	**375.528**	**398.735**	**422.627**	**457.948**	**487.629**	**483.147**	**488.290**		**504.820**
TOTAL COAL		**361.246**	**382.615**	**407.040**	**430.832**	**457.082**	**492.757**	**532.042**	**532.694**	**539.950**		**556.402**

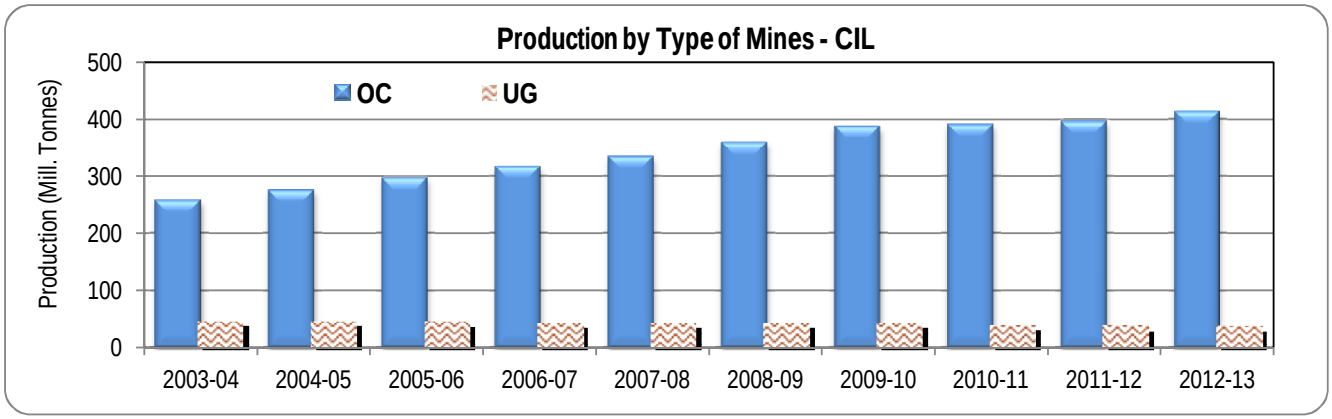
Note: (1) Meghalaya Coal has not been graded by Coal Controller. For Statistical purpose grade may be treated as "A" / "B" non-coking coal.

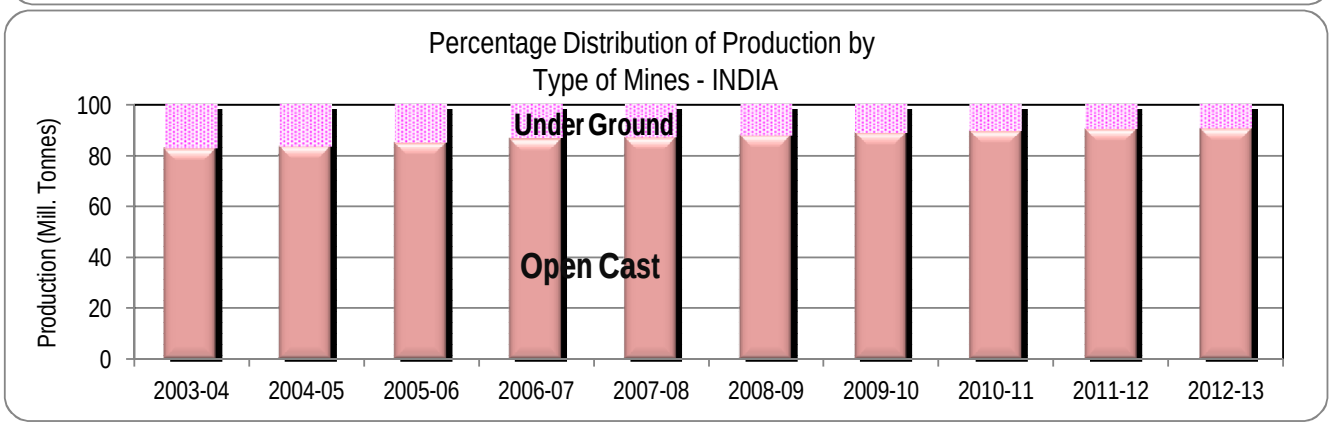
(2) For definition of grade please see page I.2

TABLE 3.16: TRENDS OF PRODUCTION OF RAW COAL FROM OPENCAST AND UNDERGROUND MINES IN LAST TEN YEARS

(Quantity in Million Tonnes)

YEAR	Open Cast					Under Ground					All India Raw Coal	
	Production			OC Share (%) in All India Total	OC Growth (%) (All India)	Production			UG Share (%) in All India Total	UG Growth (%) (All India)	Production	Growth (%)
	by CIL	by SCCL	All India			by CIL	by SCCL	All India				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2003-04	258.919	20.540	298.493	82.63	7.33	47.445	13.314	62.753	17.37	-0.64	361.246	5.85
2004-05	276.534	22.329	320.266	83.70	7.29	47.041	12.974	62.349	16.30	-0.64	382.615	5.92
2005-06	297.572	23.427	346.074	85.02	8.06	45.817	12.711	60.965	14.98	-2.22	407.039	6.38
2006-07	317.591	25.831	373.134	86.61	7.82	43.322	11.876	57.698	13.39	-5.36	430.832	5.85
2007-08	335.918	27.959	398.182	87.11	6.71	43.541	12.645	58.900	12.89	2.08	457.082	6.09
2008-09	359.771	32.459	433.785	88.03	8.94	43.959	12.087	58.972	11.97	0.12	492.757	7.80
2009-10	387.997	38.460	473.519	89.00	9.16	43.262	11.969	58.523	11.00	-0.76	532.042	7.97
2010-11	391.303	39.705	477.839	89.70	0.91	40.018	11.628	54.855	10.30	-6.27	532.694	0.12
2011-12	397.445	41.573	487.993	90.38	2.12	38.393	10.638	51.957	9.62	-5.28	539.950	1.36
2012-13	414.423	41.593	504.195	90.62	3.32	37.777	11.597	52.207	9.38	0.48	556.402	3.05





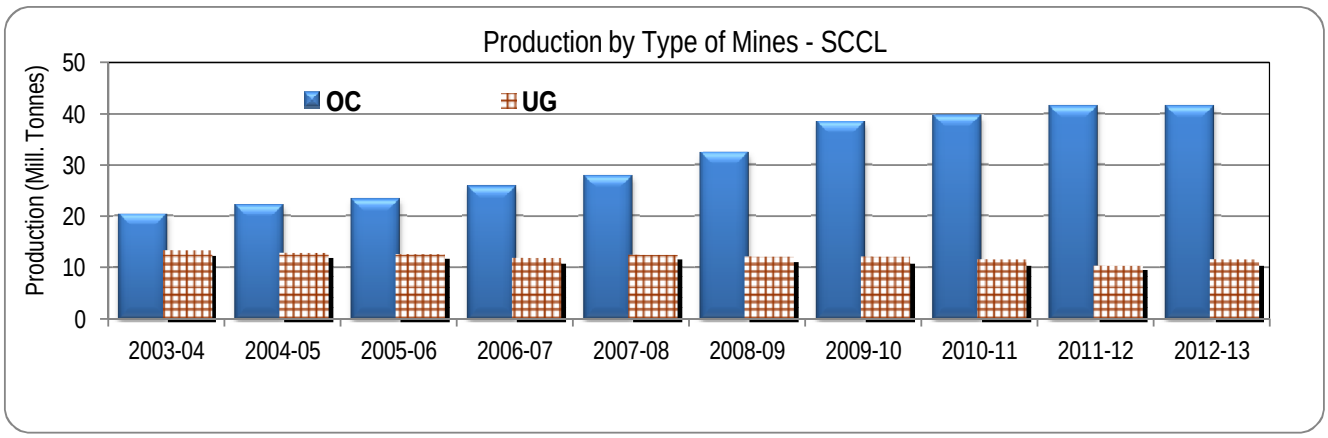


TABLE 3.17 : COMPANY WISE PRODUCTION OF RAW COAL FROM OPENCAST AND UNDER GROUND MINES IN TWO YEARS

(Quantity in Million Tonnes)

COMPANIES	Y E A R 2011 - 2012						Y E A R 2012 - 2013					
	OPENCAST			UNDER GROUND			OPENCAST			UNDER GROUND		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
ECL	23.725	77.64	1.25	6.833	22.36	-7.31	27.052	79.80	14.02	6.849	20.20	0.23
BCCL	26.725	88.47	5.60	3.482	11.53	-5.79	28.058	89.90	4.99	3.153	10.10	-9.45
CCL	46.914	97.73	1.44	1.090	2.27	-14.44	47.037	97.87	0.26	1.024	2.13	-6.06
NCL	66.401	100.00	0.22				70.021	100.00	5.45			
WCL	34.720	80.54	-0.66	8.390	19.46	-3.61	34.087	80.61	-1.82	8.200	19.39	-2.26
SECL	97.429	85.59	1.59	16.408	14.41	-2.35	101.350	85.73	4.02	16.869	14.27	2.81
MCL	100.933	97.88	2.87	2.186	2.12	0.88	106.216	98.44	5.23	1.679	1.56	-23.19
NEC	0.598	99.34	-45.59	0.004	0.66		0.602	99.50	0.67	0.003	0.50	
CIL	**397.445**	**91.19**	**1.57**	**38.393**	**8.81**	**-4.06**	**414.423**	**91.65**	**4.27**	**37.777**	**8.35**	**-1.60**
SCCL	41.573	79.62	4.70	10.638	20.38	-8.51	41.593	78.20	0.05	11.597	21.80	9.01
JKML				0.020	100.00	-16.67				0.019	100.00	-5.00
JSMDCL	0.118	100.00	-70.43									
DVC	0.328	100.00	5.47				0.203	100.00	-38.11			
DVC EMTA	1.165	100.00					1.836	100.00	57.60			
IISCO	0.469	78.43	-43.15	0.129	21.57	-49.81	0.604	84.48	28.78	0.111	15.52	-13.95
SAIL	0.040	100.00	185.71				0.102	100.00	155.00			
APMDTCL	0.221	100.00	-26.09				0.073	100.00	-66.97			
WBPDCL	0.216	100.00	-15.95				0.261	100.00	20.83			
WBMDTCL							0.348					
RRUVNL							0.293					
PUBLIC	**441.575**	**89.98**	**1.95**	**49.180**	**10.02**	**-5.29**	**459.736**	**90.28**	**4.11**	**49.504**	**9.72**	**0.66**
BECML	2.598	100.00	-9.67				3.005	100.00	15.67			
ICML	3.745	100.00	27.86				3.129	100.00	-16.45			
JSPL	5.998	100.00	-0.02				5.999	100.00	0.02			
HIL	2.357	100.00	3.15				2.237	100.00	-5.09			
Meghalaya	7.206	100.00	3.33				5.640	100.00	-21.73			
TISCO	5.975	80.08	9.85	1.486	19.92	-6.36	5.918	81.12	-0.95	1.377	18.88	-7.34
MIL				0.851	100.00	-10.61				0.795	100.00	-6.58
BLA	0.299	100.00	0.67				0.300	100.00	0.33			
CML	0						0			0		
PANEM	8.301	100.00	3.36				6.926	100.00	-16.56			
PIL	1.000	100.00	0.00				1.000	100.00	0.00			
JNL	0.200	41.67	52.67	0.280	58.33	1.82	0.200	41.67	0.00	0.280	58.33	0.00
JPL	5.250	100.00	-7.70				5.250	100.00	0.00			
SIL		0.00		0.160	100.00	40.35		0.00		0.248	100.00	55.00
UML	0.351	100.00	17.00				0.560	100.00	59.54			
KECML	2.189	100.00	-3.78				2.506	100.00	14.48			
ESCL	0.106	100.00	211.76				0.096	96.97	-9.43	0.003	0	
SEML	0.774	100.00	79.17				0.976	100.00	26.10			
BSIL	0.003	100.00					0.062	100.00	1966.67			
TUML	0.066	100.00					0.341	100.00	416.67			
SPL							0.225	100.00				
SOVA							0.089	100.00				
GVK												
PRIVATE	**46.418**	**94.36**	**3.83**	**2.777**	**5.64**	**-5.16**	**44.459**	**94.27**	**-4.22**	**2.703**	**5.73**	**-2.66**
INDIA	**487.993**	**90.38**	**2.12**	**51.957**	**9.62**	**-5.28**	**504.195**	**90.62**	**3.32**	**52.207**	**9.38**	**0.48**

Note: For Meghalaya it is assumed that the coal is being mined by open cast method.

TABLE 3.18 : COMPANYWISE PRODUCTION OF COAL FROM OPENCAST AND UNDERGROUND MINES BY TECHNOLOGY IN 2012-13

(Quantity in Million Tonnes)

Type of Mine	OPENCAST						UNDER GROUND												Total Quantity
Technology:	Mechanised		Manual		Total OC		Conven. B & P		Mecha. B & P		Conven. LW		Mecha. LW		Other Methods		Total UG		
Company	Quan-tity	% of OC	Quan-tity	% of OC	Quan- tity	% of Tot	Quan-tity	% of UG	Quan-tity	% of UG	Quan-tity	% of UG	Quan-tity	% of UG	Quan-tity	% of UG	Quan-tity	% of Tot	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
ECL	27.052	100.0			**27.052**	**79.8**	1.040	15.2	4.748	69.3					1.061	15.5	**6.849**	**20.2**	**33.901**
BCCL	28.058	100.0			**28.058**	**89.9**	0.050	1.6	2.966	94.1			0.036	1.1	0.101	3.2	**3.153**	**10.1**	**31.211**
CCL	46.626	99.1	0.411	0.9	**47.037**	**97.9**	0.550	53.7	0.474	46.3							**1.024**	**2.1**	**48.061**
NCL	70.021	100.0			**70.021**	**100.0**											**0**	**0.0**	**70.021**
WCL	34.087	100.0			**34.087**	**80.6**	0.213	2.6	7.882	96.1					0.105	1.3	**8.200**	**19.4**	**42.287**
SECL	101.350	100.0			**101.350**	**85.7**	0.246	1.5	14.676	87.0			0.118	0.7	1.829	10.8	**16.869**	**14.3**	**118.219**
MCL	106.216	100.0			**106.216**	**98.4**			1.679	100.0							**1.679**	**1.6**	**107.895**
NEC	0.602	100.0			**0.602**	**99.5**									0.003	100.0	**0.003**	**0.5**	**0.605**
CIL	**414.012**	**99.9**	**0.411**	**0.1**	**414.423**	**91.6**	**2.099**	**5.6**	**32.425**	**85.8**	**0.000**	**0.0**	**0.154**	**0.4**	**3.099**	**8.2**	**37.777**	**8.4**	**452.200**
SCCL	41.593	100.0			**41.593**	**78.2**	1.425	12.3	7.457	64.3			0.449	3.9	2.266	19.5	**11.597**	**21.8**	**53.190**
JKML					**0**	**0**	0.019	100.0									**0.019**	**100.0**	**0.019**
JSMDCL					**0**												**0**	**0**	**0**
DVC	0.203	100.0			**0.203**	**100.0**											**0**	**0**	**0.203**
DVC EMTA	1.836	100.0			**1.836**	**100.0**											**0**	**0**	**1.836**
IISCO	0.604	100.0			**0.604**	**84.5**	0.014	12.6			0.097	87.4					**0.111**	**15.5**	**0.715**
SAIL	0.102	100.0			**0.102**	**100.0**											**0**	**0**	**0.102**
APMDTCL	0.073	100.0			**0.073**	**100.0**											**0**	**0**	**0.073**
WBPDCL	0.261	100.0			**0.261**	**100.0**											**0**	**0**	**0.261**
WBMDTCL	0.348	100.0			**0.348**	**100.0**											**0**	**0**	**0.348**
RRUVNL	0.293	100.0			**0.293**	**100.0**											**0**	**0**	**0.293**
PUBLIC	**459.325**	**99.9**	**0.411**	**0.1**	**459.736**	**90.3**	**3.557**	**7.2**	**39.882**	**80.6**	**0.097**	**0.2**	**0.603**	**1.2**	**5.365**	**27.7**	**49.504**	**9.7**	**509.240**
BECML	3.005	100.0			**3.005**	**100.0**											**0**	**0**	**3.005**
ICML	3.129	100.0			**3.129**	**100.0**											**0**	**0**	**3.129**
JSPL	5.999	100.0			**5.999**	**100.0**											**0**	**0**	**5.999**
HIL	2.237	100.0			**2.237**	**100.0**											**0**	**0**	**2.237**
Meghalaya	5.640	100.0			**5.640**	**100.0**											**0**	**0**	**5.640**
TISCO	5.918	100.0			**5.918**	**81.1**	0.466	33.8	0.911	66.2							**1.377**	**18.9**	**7.295**
MIL					**0**	**0.0**			0.795	100.0							**0.795**	**100.0**	**0.795**
BLA	0.300	100.0			**0.300**	**100.0**											**0**	**0**	**0.300**
CML					**0**												**0**	**0**	**0**
PANEM	6.926	100.0			**6.926**	**100.0**											**0**	**0**	**6.926**
PIL	1.000	100.0			**1.000**	**100.0**											**0**	**0**	**1.000**
JNL	0.200	100.0			**0.200**	**41.7**			0.280	100.0							**0.280**	**58.3**	**0.480**
JPL	5.250	100.0			**5.250**	**100.0**											**0.000**	**0.0**	**5.250**
SIL					**0**				0.248	100.0							**0.248**	**100.0**	**0.248**
UML	0.560	100.0			**0.560**	**100.0**											**0**	**0**	**0.560**
KECML	2.506	100.0			**2.506**	**100.0**											**0**	**0**	**2.506**
ESCL	0.096	100.0			**0.096**	**97.0**			0.003	100.0							**0.003**	**3.0**	**0.099**
SEML	0.976	100.0			**0.976**	**100.0**											**0**	**0**	**0.976**
BSIL	0.062	100.0			**0.062**	**100.0**											**0**	**0**	**0.062**
TUML	0.341	100.0			**0.341**	**100.0**											**0**	**0**	**0.341**
SPL	0.225	100.0			**0.225**	**100.0**											**0**	**0**	**0.225**
SOVA	0.089	100.0			**0.089**	**100.0**											**0**	**0**	**0.089**
GVK					**0**												**0**		**0**
PRIVATE	**44.459**	**100.0**	**0**	**0.0**	**44.459**	**94.3**	**0.466**	**17.2**	**2.237**	**82.8**	**0**	**0**	**0**	**0**	**0**	**0.0**	**2.703**	**100.0**	**47.162**
India(12-13)	**503.784**	**99.9**	**0.411**	**0.1**	**504.195**	**90.6**	**4.023**	**7.7**	**42.119**	**80.7**	**0.097**	**0.2**	**0.603**	**1.2**	**5.365**	**10.3**	**52.207**	**9.4**	**556.402**
India(11-12)	**487.588**	**99.9**	**0.405**	**0.1**	**487.993**	**90.4**	**6.082**	**11.7**	**40.848**	**78.6**	**0**	**0.0**	**0.590**	**1.1**	**4.437**	**8.5**	**51.957**	**9.6**	**539.950**
India(10-11)	**470.460**	**98.5**	**7.379**	**1.5**	**477.839**	**89.7**	**8.045**	**14.7**	**42.501**	**77.5**	**0**	**0.0**	**1.048**	**1.9**	**3.261**	**5.9**	**54.855**	**10.3**	**532.694**

Note: B&P: Board & Pillar, LW: Long Wall

TABLE 3.19 : COMPANYWISE OVER BURDEN REMOVAL AND STRIPPING RATIO IN REVENUE MINES IN LAST THREE YEARS

(OBR in Million Cubic Meter, Coal Production in Million Tonnes)

COMPANIES	YEAR 2010 - 2011			YEAR 2011 - 2012			YEAR 2012 - 2013		
	Over Burden Removal	Production (OC)	Stripping Ratio	Over Burden Removal	Production (OC)	Stripping Ratio	Over Burden Removal	Production (OC)	Stripping Ratio
(1)	(2)	(3)	(4)	(5)	**(6)**	**(7)**	(8)	(9)	(10)
ECL	56.246	23.431	2.40	60.306	23.725	2.54	76.448	27.052	2.83
BCCL	83.226	25.308	3.29	81.361	26.725	3.04	84.259	28.058	3.00
CCL	62.522	46.247	1.35	65.677	46.914	1.40	63.308	47.037	1.35
NCL	182.216	66.253	2.75	201.664	66.401	3.04	195.706	70.021	2.79
WCL	115.824	34.950	3.31	122.490	34.720	3.53	113.685	34.087	3.34
SECL	137.565	95.902	1.43	113.494	97.429	1.16	118.202	101.350	1.17
MCL	88.702	98.113	0.90	85.668	100.933	0.85	90.421	106.216	0.85
NEC	5.810	1.099	5.29	4.475	0.598	7.48	4.730	0.602	7.86
CIL	**732.111**	**391.303**	**1.87**	**735.135**	**397.445**	**1.85**	**746.759**	**414.423**	**1.80**
SCCL	218.310	39.705	5.50	211.325	41.573	5.08	175.841	41.593	4.23
JKML									
JSMDCL	0.379	0.399	0.95	0.153	0.118	1.30			
DVC	0.890	0.311	1.30	0.890	0.328	2.71	0.058	0.203	0.29
DVC EMTA				5.211	1.165	4.47	6.564	1.836	3.58
IISCO	4.662	0.825	5.65	4.025	0.469	8.58	2.988	0.604	4.95
SAIL				0.201	0.040	5.03	0.204	0.102	2.00
APMDTCL	2.181	0.299	7.29	2.181	0.221	9.87	2.181	0.073	29.88
WBPDCL	0.934	0.257	3.63	1.461	0.216	6.76	1.969	0.261	7.54
WBMDTCL	0.272	0.014	19.41		0		2.921	0.348	8.39
RRUVNL					0		3.908	0.293	13.34
PUBLIC	**959.739**	**433.113**	**2.22**	**960.582**	**441.575**	**2.18**	**943.393**	**459.736**	**2.05**
BECML	10.025	2.876	3.49	9.410	2.598	3.62	12.356	3.005	4.11
ICML	7.679	2.929	2.62	10.511	3.745	2.81	9.117	3.129	2.91
JSPL	10.440	5.999	1.74	9.072	5.998	1.51	7.996	5.999	1.33
HIL	0.764	2.285	0.33	0.764	2.357	0.32	1.712	2.237	0.77
Meghalaya		6.974			7.206			5.640	0.00
TISCO	25.714	5.439	4.73	26.597	5.975	4.45	25.795	5.918	4.36
MIL									
BLA	1.149	0.297	3.87	2.612	0.299	8.74	1.621	0.300	5.40
CML									
PANEM	17.188	8.031	1.09	13.320	8.301	1.60	13.420	6.926	1.94
PIL	5.211	1.000	5.21	5.000	1.000	5.00	8.075	1.000	8.08
JNL	1.613	0.131	12.31	0.756	0.200	3.78	0.520	0.200	2.60
JPL	15.432	5.688	2.71	12.865	5.250	2.45	11.943	5.250	2.27
SIL									
UML	3.054	0.300	10.18	3.996	0.351	11.38	5.061	0.560	9.04
KECML	5.622	2.275	2.47	5.543	2.189	2.53	8.575	2.506	3.42
ESCL	1.937	0.034	56.97	3.996	0.106	37.70	2.587	0.096	26.95
SEML	2.576	0.432	5.96	2.303	0.774	2.98	2.295	0.976	2.35
BSIL	0.356	0.015	23.73	0.024	0.003	8.00	0.488	0.062	7.87
TUML				0.127	0.066	1.92	1.367	0.341	4.01
SPL							2.119	0.225	9.42
SOVA							0.434	0.089	4.88
GVK									
PRIVATE	**108.760**	**44.705**	**2.88**	**106.896**	**46.418**	**2.73**	**115.481**	**44.459**	**2.97**
INDIA	**1068.499**	**477.818**	**2.27**	**1067.478**	**487.993**	**2.22**	**1058.874**	**504.195**	**2.12**

Note: (1) Stripping ratio is defined as the ratio of OBR to Coal produced in Open Cast mining.

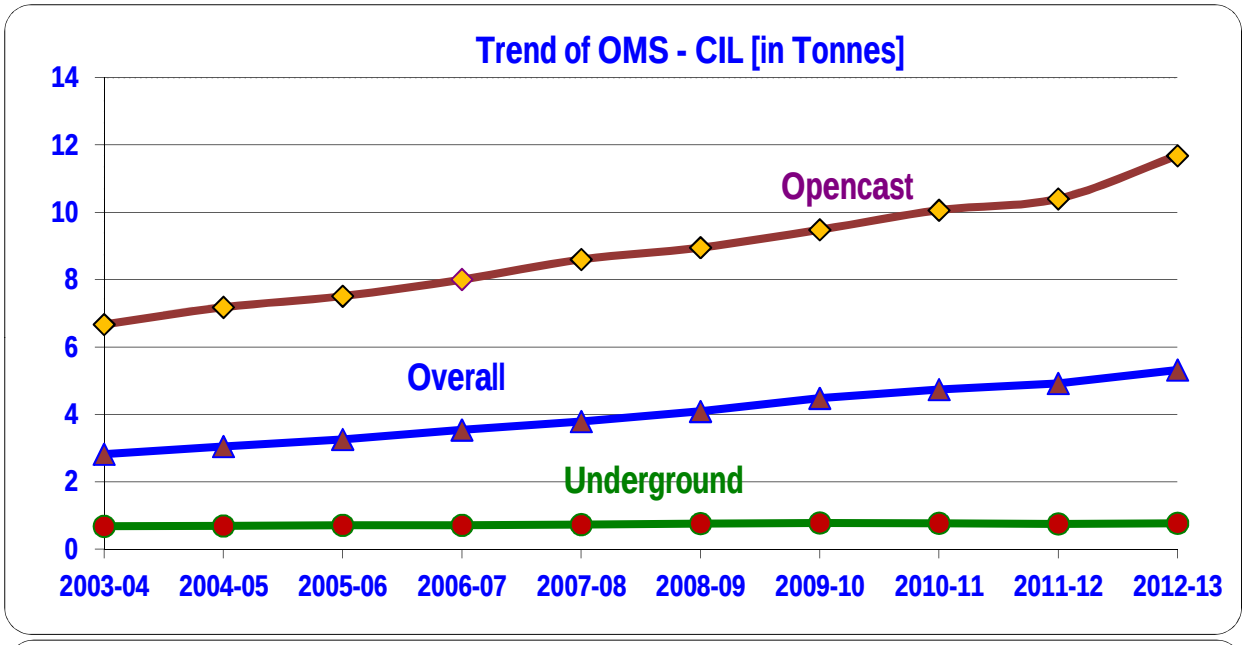
(2) Meghalaya OBR figures are not known and not reported.

(3) While calculating stripping ratio, if OBR not reported, corresponding production was excluded to find public/private sector OBR

TABLE 3.20: TRENDS OF OMS IN OC & UG MINES (CIL & SCCL) DURING LAST TEN YEARS

(in Tonnes)

Year	OMS (OPEN CAST)		OMS (UNDER GROUND)		OMS (OVERALL)	
	CIL	SCCL	CIL	SCCL	CIL	SCCL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2003-04	6.67	7.67	0.68	0.86	2.82	1.81
2004-05	7.18	8.83	0.69	0.85	3.05	1.62
2005-06	7.51	9.60	0.71	0.89	3.26	1.74
2006-07	8.00	9.50	0.71	0.90	3.54	1.91
2007-08	8.60	10.76	0.73	1.02	3.79	2.10
2008-09	8.95	10.60	0.76	1.05	4.09	3.01
2009-10	9.48	10.71	0.78	1.08	4.48	3.36
2010-11	10.06	11.98	0.77	1.10	4.74	3.59
2011-12	10.40	13.26	0.75	1.10	4.92	3.94
2012-13	11.68	11.87	0.77	1.13	5.32	3.14



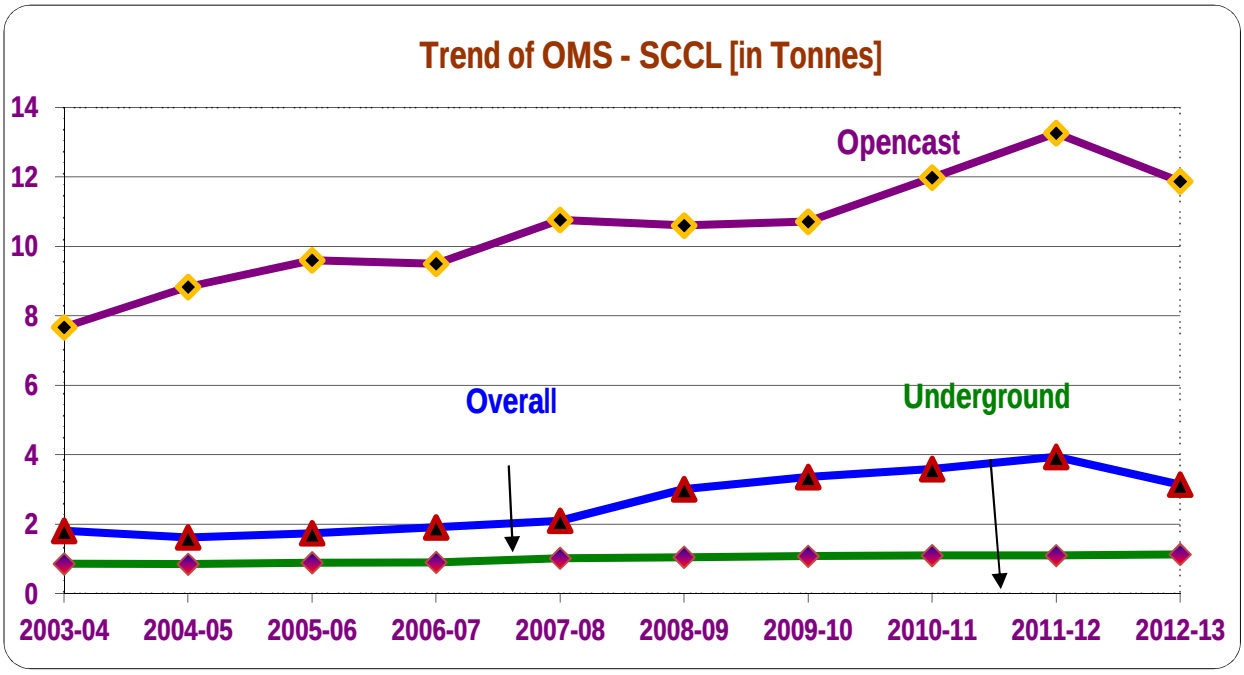


TABLE 3.21 : COMPANY WISE PRODUCTION, MANSHIFTS & OMS (CIL & SCCL) BY TYPE OF MINES DURING LAST THREE YEARS

Companies	Type of Mines	2010-2011			2011-2012			2013-2013		
		Production (Mill.Tons)	Manshift (Million)	OMS (Tonnes)	Production (Mill.Tons)	Manshift (Million)	OMS (Tonnes)	Production (Mill.Tons)	Manshift (Million)	OMS (Tonnes)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
ECL	OC	23.431	2.877	8.14	23.725	2.746	8.64	27.052	2.660	10.17
BCCL	OC	25.308	4.486	5.64	26.725	4.067	6.57	28.058	3.376	8.31
CCL	OC	46.247	8.386	5.51	46.914	7.021	5.79	47.037	7.720	6.09
NCL	OC	66.253	4.902	13.52	66.401	4.900	13.55	70.021	4.351	13.65
WCL	OC	34.950	8.438	4.14	34.720	8.227	4.22	34.087	6.778	5.03
SECL	OC	95.902	4.743	20.22	97.429	5.698	19.32	101.350	5.263	19.26
MCL	OC	98.113	4.786	20.50	100.933	4.936	20.38	106.216	4.946	21.34
NEC	OC	1.099	0.155	7.09	0.598	0.310	3.79	0.602	0.341	1.76
CIL	**OC**	**391.303**	**38.773**	**10.09**	**397.445**	**37.905**	**10.40**	**414.423**	**35.435**	**11.68**
SCCL	**OC**	**39.705**	**2.41**	**11.98***	**41.573**	**2.520**	**13.26**	**41.593**	**2.714**	**11.87**
ECL	UG	7.372	16.370	0.45	6.833	15.454	0.44	6.849	14.780	0.46
BCCL	UG	3.696	9.397	0.39	3.482	9.672	0.36	3.153	9.073	0.35
CCL	UG	1.274	3.758	0.34	1.090	3.353	0.32	1.024	3.150	0.33
NCL	UG									
WCL	UG	8.704	7.970	1.09	8.390	7.769	1.08	8.200	7.472	1.10
SECL	UG	16.803	12.669	1.33	16.408	11.823	1.30	16.869	12.322	1.37
MCL	UG	2.167	1.737	1.25	2.186	1.758	1.24	1.679	1.726	0.97
NEC	UG	0.002	0.355	0.01	0.004	0.333	0.01	0.003	0.305	0.01
CIL	**UG**	**40.018**	**52.256**	**0.77**	**38.393**	**50.162**	**0.75**	**37.777**	**48.828**	**0.77**
SCCL	**UG**	**11.628**	**11.000**	**1.06**	**10.638**	**9.407**	**1.10**	**11.597**	**9.831**	**1.13**
ECL	ALL	30.803	19.247	1.60	30.558	18.200	1.68	33.901	17.440	1.94
BCCL	ALL	29.004	13.883	2.09	30.207	13.739	2.20	31.211	12.449	2.50
CCL	ALL	47.521	12.144	3.91	48.004	10.374	4.19	48.061	10.870	4.42
NCL	ALL	66.253	4.902	13.52	66.401	4.900	13.55	70.021	4.351	13.65
WCL	ALL	43.654	16.408	2.65	43.110	15.996	2.70	42.287	14.250	2.97
SECL	ALL	112.705	17.412	6.47	113.837	17.521	6.44	118.219	17.585	6.72
MCL	ALL	100.280	6.523	15.37	103.119	6.694	15.36	107.895	6.672	16.07
NEC	ALL	1.101	0.510	2.16	0.602	0.643	1.23	0.605	0.646	0.94
CIL	**ALL**	**431.321**	**91.029**	**4.74**	**435.838**	**88.067**	**4.92**	**452.200**	**84.263**	**5.32**
SCCL	**ALL**	**51.333**	**13.414**	**3.59***	**52.211**	**11.927**	**3.94**	**53.190**	**12.545**	**3.14**

* Reported by SCCL.

TABLE 3.22: STATEWISE PRODUCTION OF RAW COAL BY TYPE OF MINES IN LAST THREE YEARS

(Quantity in Million Tonnes)

STATES	Production (2010-2011)			Production (2011-2012)			Production (2012-2013)		
	OC	UG	**TOTAL**	OC	UG	**TOTAL**	OC	UG	**TOTAL**
(1)	(2)	(3)	**(4)**	(5)	(6)	**(7)**	(8)	(9)	**(10)**
ANDHRA PRADESH	39.705	11.628	**51.333**	41.573	10.638	**52.211**	41.593	11.597	**53.190**
ARUNACHAL PRADESH	0.299		**0.299**	0.221		**0.221**	0.073		**0.073**
ASSAM	1.099	0.002	**1.101**	0.598	0.004	**0.602**	0.602	0.003	**0.605**
CHHATTISGARH	102.612	11.212	**113.824**	103.616	10.342	**113.958**	107.467	10.363	**117.830**
JAMMU & KASHMIR		0.024	**0.024**		0.020	**0.020**		0.019	**0.019**
JHARKHAND	101.743	7.206	**108.949**	102.947	6.619	**109.566**	105.168	6.106	**111.274**
MADHYA PRADESH	59.108	11.996	**71.104**	58.957	12.166	**71.123**	63.534	12.414	**75.948**
MAHARASHTRA	35.696	3.640	**39.336**	35.578	3.581	**39.159**	35.519	3.615	**39.134**
MEGHALAYA	6.974		**6.974**	7.206		**7.206**	5.640		**5.640**
ORISSA	100.398	2.167	**102.565**	103.290	2.186	**105.476**	108.453	1.679	**110.132**
UTTAR PRADESH	15.526		**15.526**	16.178		**16.178**	16.090		**16.090**
WEST BENGAL	14.679	6.980	**21.659**	17.829	6.401	**24.230**	20.056	6.411	**26.467**
ALL INDIA	**477.839**	**54.855**	**532.694**	**487.993**	**51.957**	**539.950**	**504.195**	**52.207**	**556.402**

Section IV

Despatch & Off-take

4.1.1 The concept of despatch as well as off-take has already been elaborated in Section I. The dispatch of Raw Coal in the year 2012-13 was 567.136 MT, 5.95% more than the previous year. The increase of 5.95% in despatch against the increase of 3.0% in the production indicates slightly better despatch mechanism than the previous year.

4.1.2 Statement 4.1 shows despatch as well as off-take of raw coal in 2012-13 by different companies.

Statement 4.1 Despatches / Off-take of Raw Coal in India in 2012-13 by Company [MT]

Company	Raw Coal	
	Despatches	Off-take
ECL	35.544	35.845
BCCL	32.997	33.073
CCL	52.886	52.892
NCL	67.021	67.021
WCL	41.539	41.546
SECL	121.973	121.988
MCL	111.959	111.964
NEC	0.618	0.618
CIL	**464.537**	**464.947**
SCCL	52.025	52..080
Other Public	3.764	3.765
Total Public	520.326	520.792
Total Private	46.810	46.812
ALL INDIA	**567.136**	**567.604**

It can be seen that the Coal India Ltd. accounted for 81.91% of coal despatches in the country. The share of SCCL in the coal despatches was 9.17% and the contribution of private sector was 8.25%. In the CIL group, the major contributors were SECL, MCL and NCL with share of 21.51%, 19.74% and 11.82% respectively at all India level. These companies collectively accounted for 53.07% of the raw coal despatches at all India level.

4.1.3 Statement 4.1 shows that the difference between the despatches and the off-takes was marginal (0.468 MT) and both followed the same trend. Therefore, the difference between the despatches and the off-takes remains only of academic interest.

4.1.4 Statement 4.2 depicts the Despatches as well as Off-take of Washed Coal in India in 2012-13 by different Companies which was 20.851 MT. It is observed that the private sector accounted for 29.29% of the total washed Coal despatches/ off take. In case of Raw Coal, the corresponding figure was 8.25% only.

Statement 4.2: Despatches / Off-take of Washed Coal in India in 2012-13 by Company [MT]

Company	Washed Coal	
	Despatches	Off-take
BCCL	1.347	1.347
CCL	8.622	8.622
NCL	3.957	3.957
WCL	0.145	0.145
CIL	**14.071**	**14.071**
IISCO	0.672	0.672
Total Public	14.743	14.743
Total Private	6.018	6.018
ALL INDIA	**20.851**	**20.851**

4.1.5 In case of Middling (Table 4.9), 10.587 MT of Middling was reported to be dispatched by various companies. The share of private companies was reported to be 71.36% against the corresponding figure of 28.64% for the public sector companies.

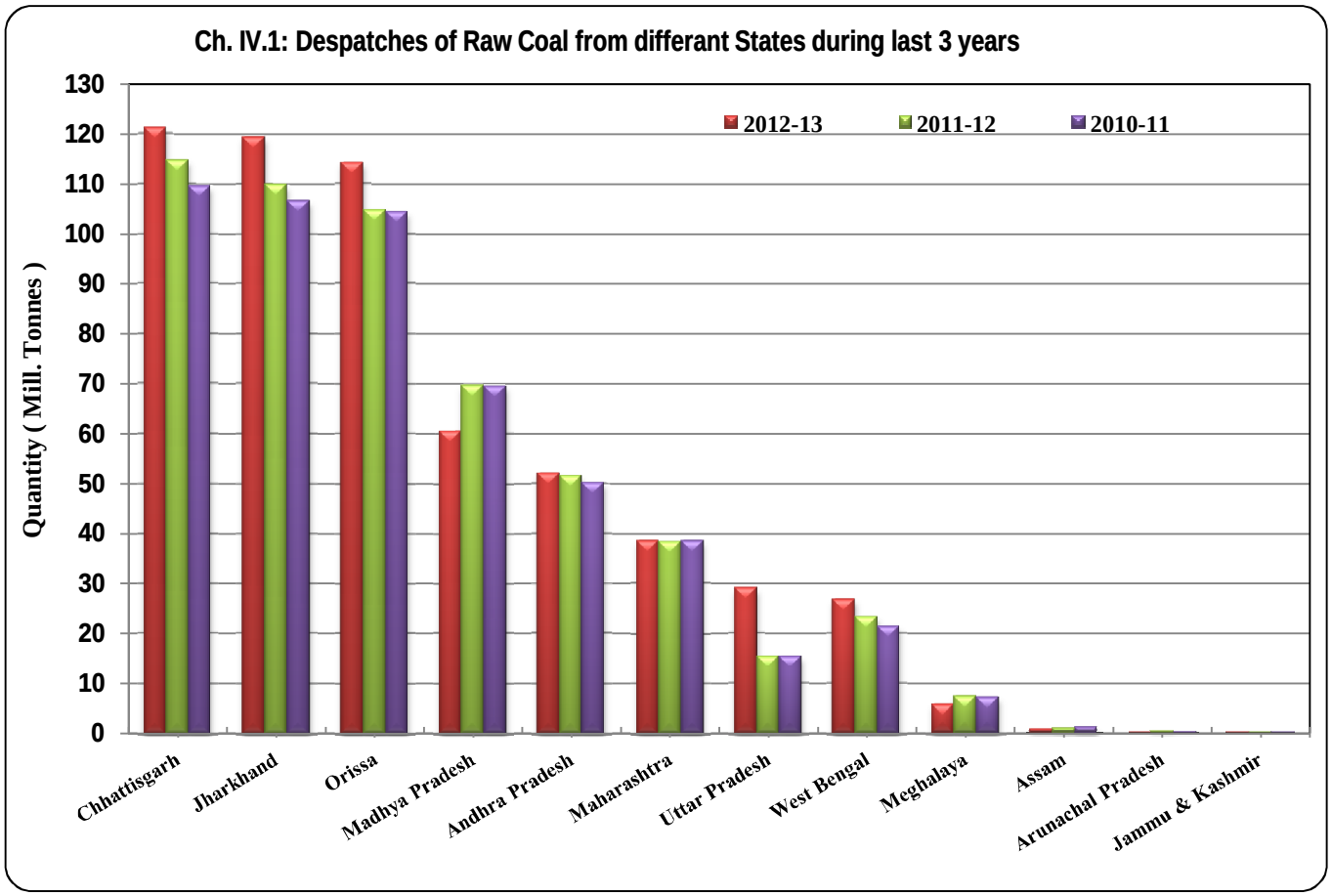
4.1.6 Statement 4.3 provides details on Off-take of Raw Coal in India in 2012-13 by different sectors of economy. Analysis of total off-take by different sector shows that power sector accounted for 81.71% of Raw Coal Off-take (Power Utilities: 68.32%; Captive Power: 13.39%). The share of Steel, Cement and Sponge Iron was reported to be 2.84%, 2.31%, 3.68% respectively. Further details on the issue can be seen from different tables attached with this section. The charts/graphs added in the section provide bird's eye view on the issue. As expected,

the difference between raw coal despatches and off-take, in case of Captive Blocks, has been almost nil.

Statement 4.3: Off-take of Raw Coal in India in 2012-13 by Sector [MT]	
Sector	Off-take [MT]
Power (Utility)	387.766
Power (Captive)	58.998
Metallurgical Use (Steel)	
Direct Feed	0.568
Steel (Coke Oven Palnts & Cokeries)	14.937
Steel Boilers	0.640
Cement	13.113
Fertilizers	2.511
Sponge Iron	20.903
Other basic-Metal	0.568
Chemical	0.350
Pulp & Paper	2.118
Textiles &Rayons	0.304
Bricks	2.006
Others	62.354
Total Despatches	**567.136**
Colliery Own - Consumption	0.454
Colliery Staff	0.014
Total Off-take	**567.604**

4.2.1 The despatch as well as off-take of Lignite in 2012-13 was 46.313 MT. From the statement 4.4 it is observed that power sector has taken the lion share of 80.32% of the total off-take of lignite in the current year 2012-13. This has been followed by Textiles & Rayons (8.76%) and Cement (2.42%). The share of bricks (2.34%) has been more or less same as that of cement here. Others in case of raw coal as well as lignite includes supply to defence, railway, private crockery, etc.

Statement 4.4: Despatch/ Off-take of Lignite in India in 2012-13 by Sector [MT]	
Sector	Despatch/ Off-take [MT]
Power (Utility)	23.533
Power (Captive)	13.666
Cement	1.097
Chemical	0.593
Pulp & Paper	0.694
Textiles & Rayons	3.468
Bricks	0.866
Other	2.396
Total Despatches	46.313


Ch. IV.1: Despatches of Raw Coal from differant States during last 3 years
Quantity (Mill. Tonnes)
2012-13
2011-12
2010-11
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Chhattisgarh
Jharkhand
Orissa
Madhya Pradesh
Andhra Pradesh
Maharashtra
Uttar Pradesh
West Bengal
Meghalaya
Assam
Arunachal Pradesh
Jammu & Kashmir

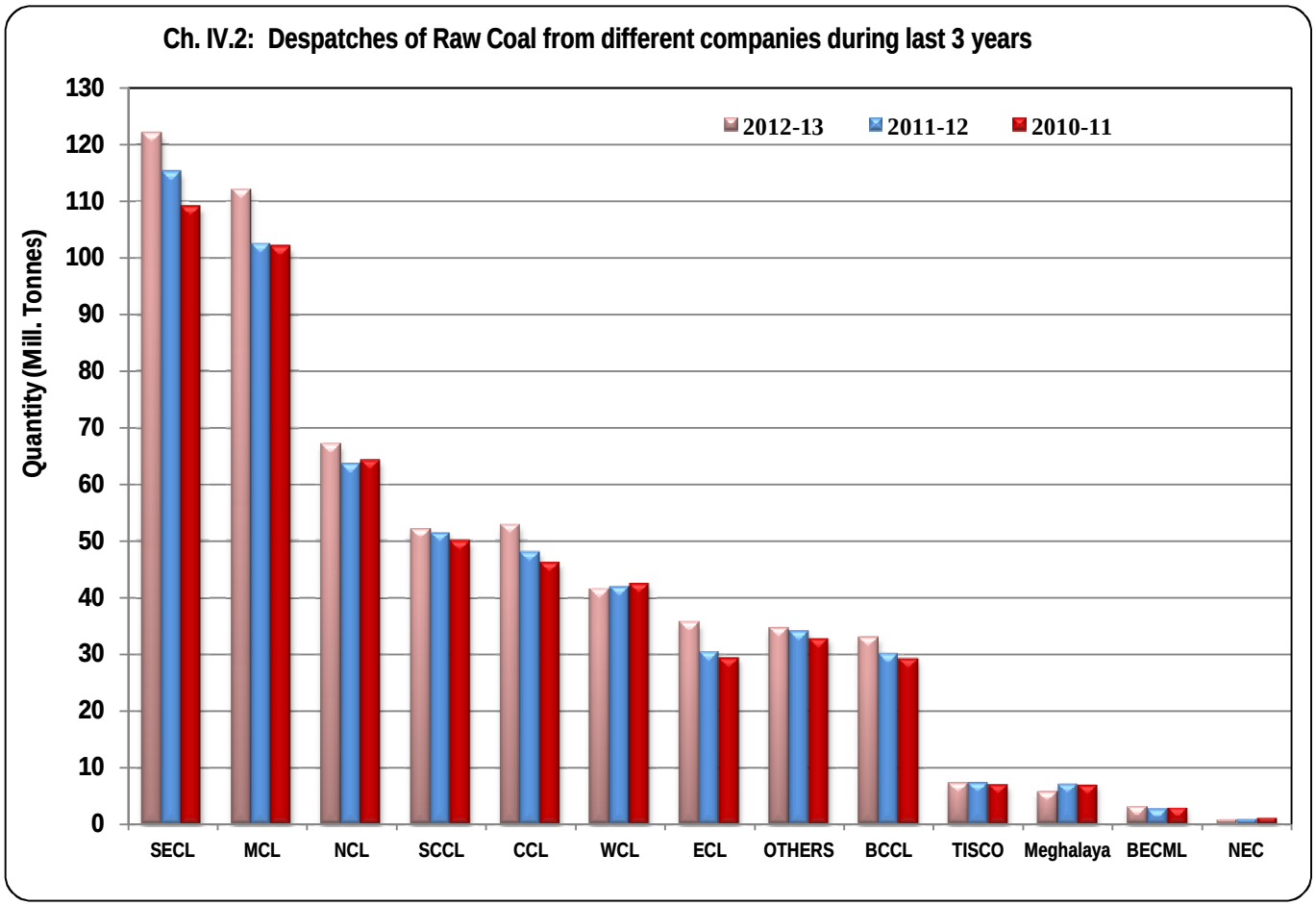
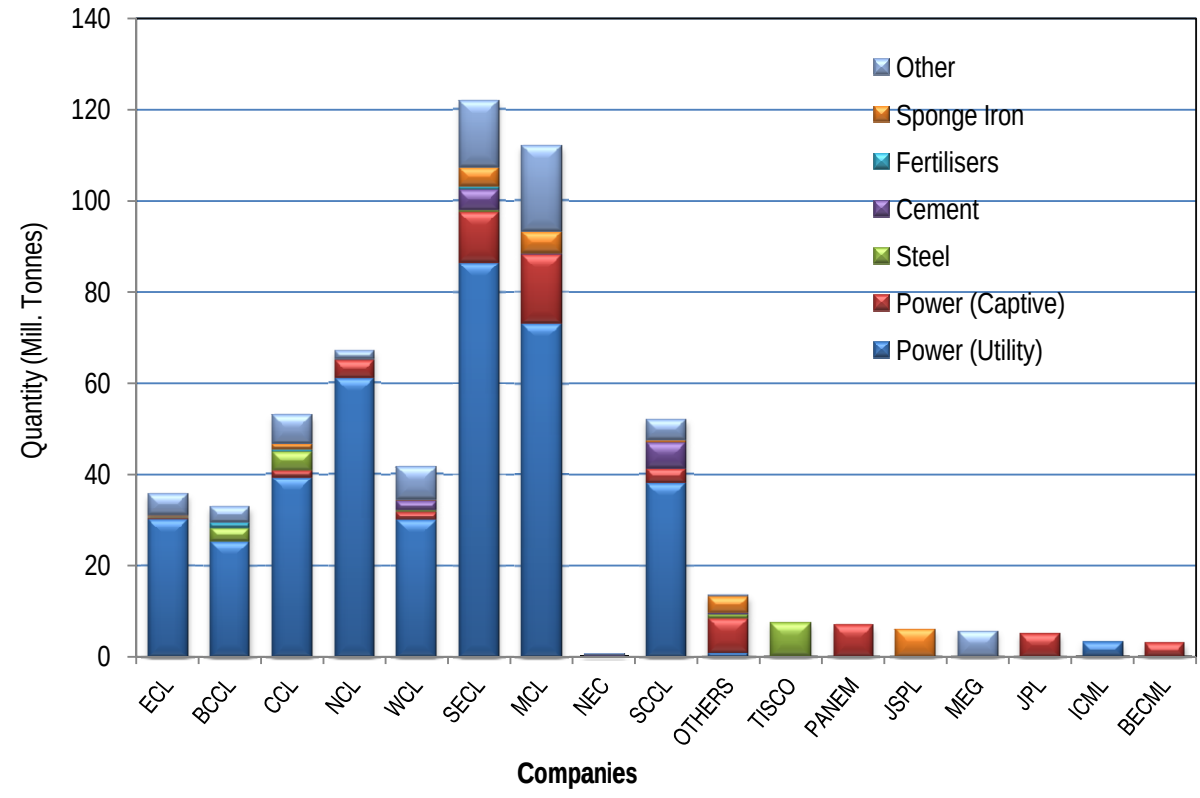

Ch. IV.2: Despatches of Raw Coal from different companies during last 3 years
Quantity (Mill. Tonnes)
2012-13
2011-12
2010-11
130
120
110
100
90
80
70
60
50
40
30
20
10
0
SECL
MCL
NCL
SCCL
CCL
WCL
ECL
OTHERS
BCCL
TISCO
Meghalaya
BECML
NEC

Chart 4.3: Sectorwise Despatches of Raw Coal from different companies in 2012-13



Ch.4.4: Share of diff. Grades of Raw Coal Despatched in 2012-13

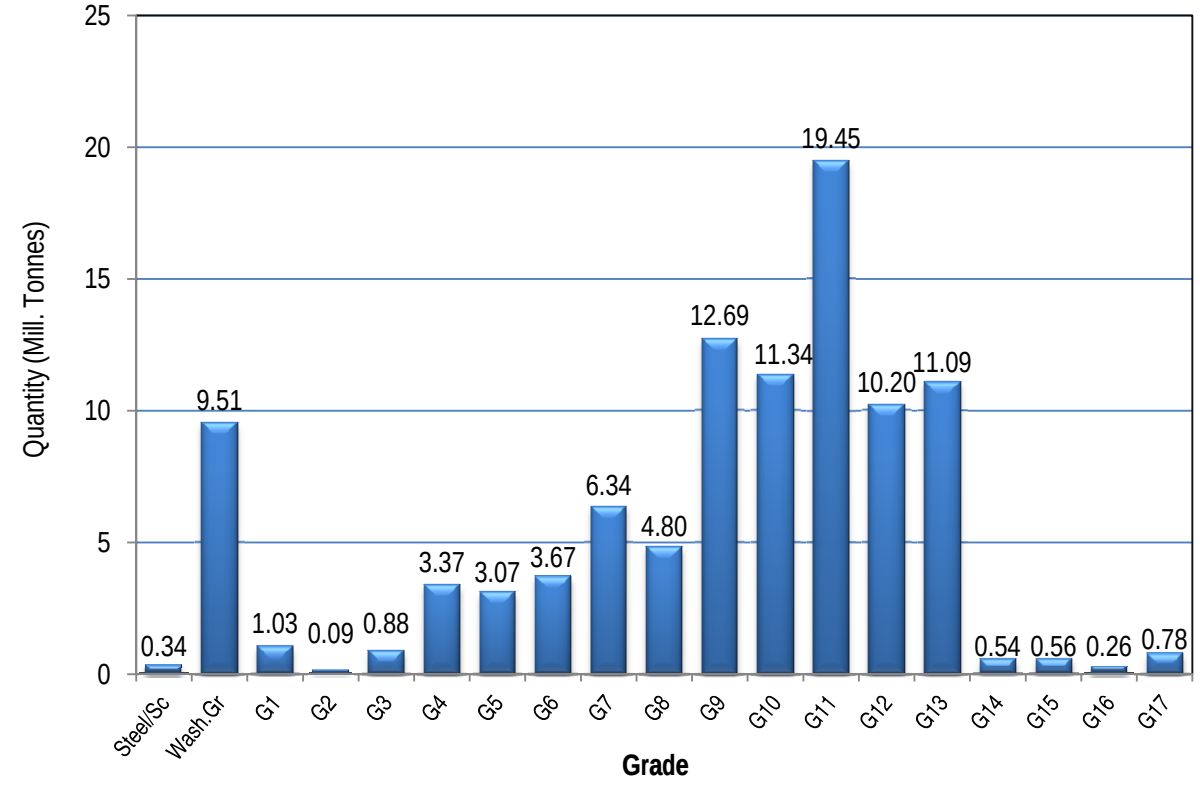
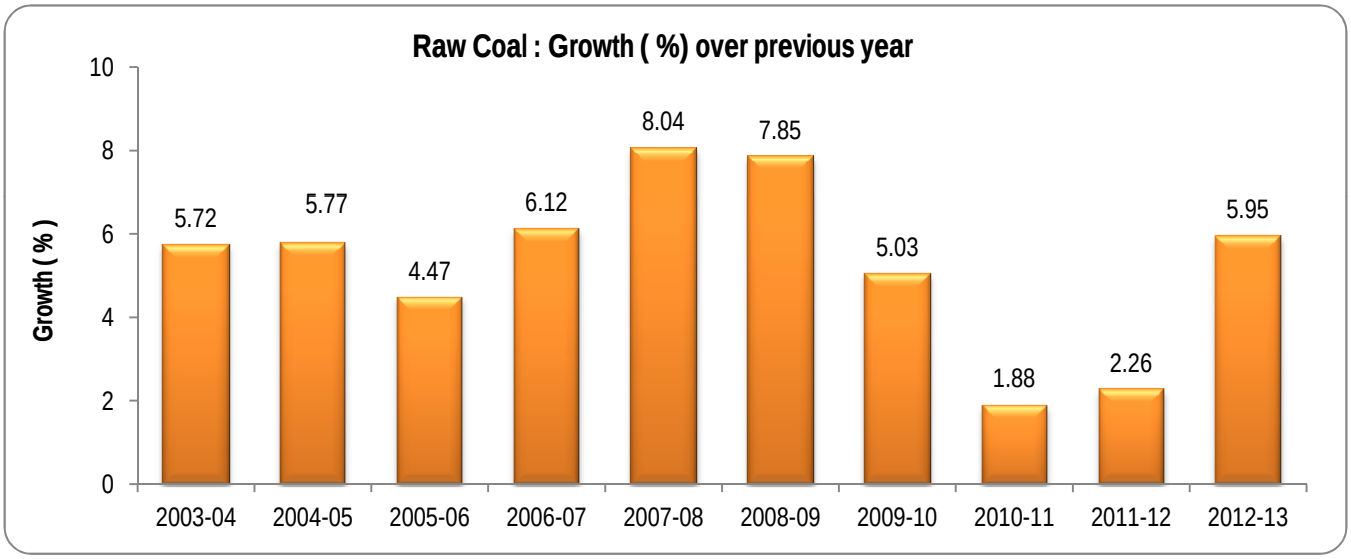


TABLE 4.1: TREND OF DESPATCHES OF DIFFERENT SOLID FOSSIL FUELS DURING LAST TEN YEARS

(Quantity in Million Tonnes)

Year	Raw coal			Lignite			Total solid fossil fuel	
	Despatches	Share in total solid fossil fuel (%)	Change over previous year (%)	Despatches	Share in total solid fossil fuel (%)	Change over previous year (%)	Despatches	Change over previous year (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2003-04	357.992	92.63	5.72	28.486	7.37	9.52	386.478	6.00
2004-05	378.658	92.64	5.77	30.087	7.36	5.62	408.745	5.76
2005-06	395.587	92.88	4.47	30.339	7.12	0.84	425.926	4.20
2006-07	419.800	93.17	6.12	30.797	6.83	1.51	450.597	5.79
2007-08	453.567	92.90	8.04	34.657	7.10	12.53	488.224	8.35
2008-09	489.172	93.90	7.85	31.793	6.10	-8.26	520.965	6.71
2009-10	513.792	93.72	5.03	34.430	6.28	8.29	548.222	5.23
2010-11	523.465	93.28	1.88	37.685	6.72	9.45	561.150	2.36
2011-12	535.299	92.74	2.26	41.883	7.26	11.14	577.182	2.86
2012-13	567.136	92.45	5.95	46.313	7.55	10.58	613.449	6.28



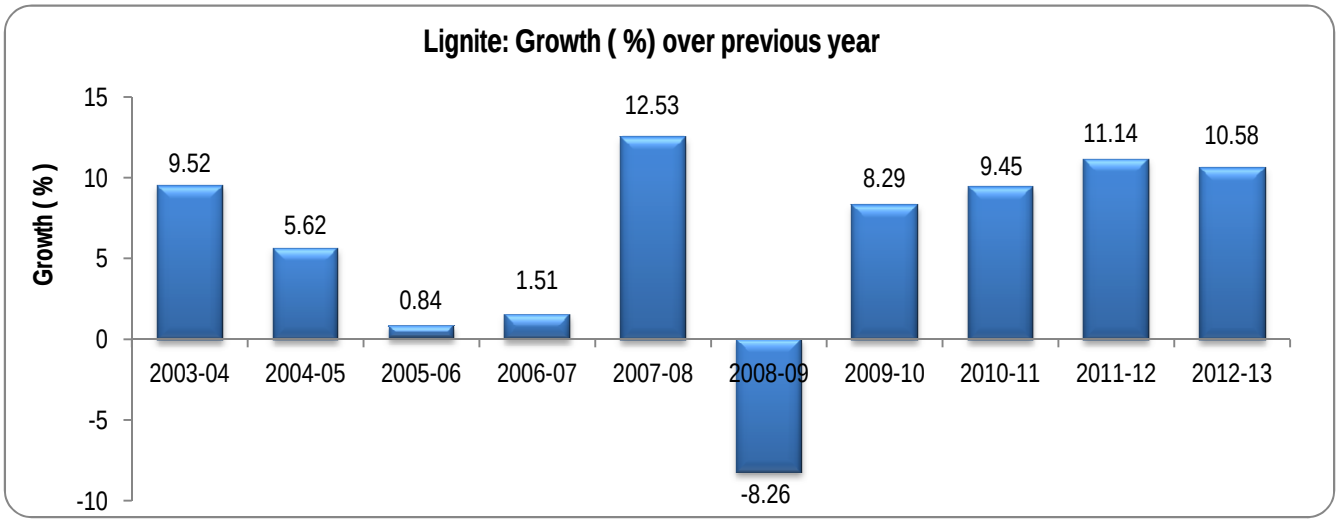
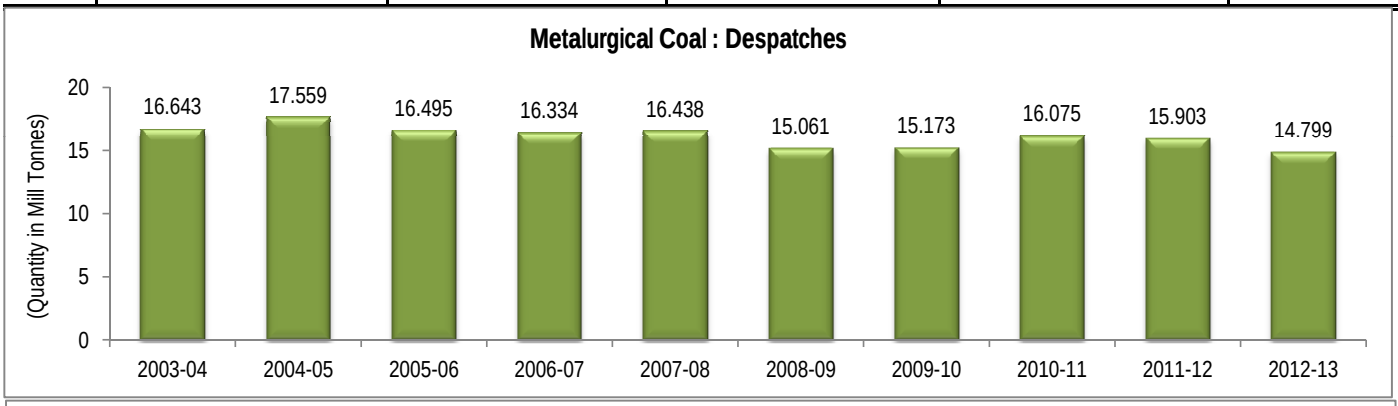
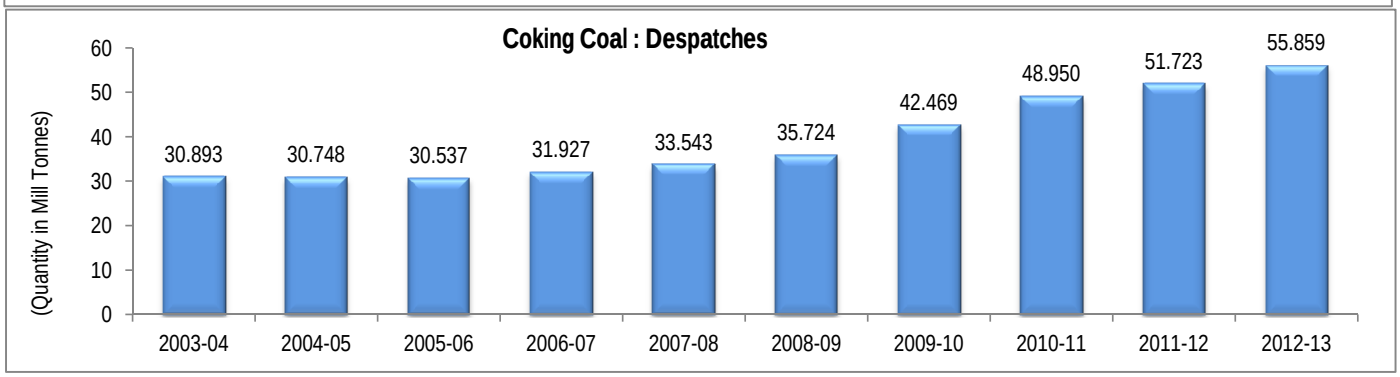


TABLE 4.2: TREND OF DESPATCHES OF DIFFERENT TYPES OF RAW COAL DURING LAST TEN YEARS

(Quantity in Million Tonnes)

Year	Coking Coal									Non Coking Coal			Raw Coal	
	Metallurgical Coal			Non Metallurgical Coal			Total Coking Coal							
	Despatches	Share in in coking coal(%)	Change over previous year (%)	Despatches	Share in in coking coal(%)	Change over previous year (%)	Despatches	Share in in coking coal(%)	Change over previous year (%)	Despatches	Share in in coking coal(%)	Change over previous year (%)	Despatches	Change over previous year (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
2003-04	16.643	53.87	-0.02	14.250	46.13	-0.06	30.893	8.63	-0.04	327.099	91.37	6.30	357.992	5.72
2004-05	17.559	57.11	5.50	13.189	42.89	-7.45	30.748	8.12	-0.47	347.910	91.88	6.36	378.658	5.77
2005-06	16.495	54.02	-6.06	14.042	45.98	6.47	30.537	7.72	-0.69	365.050	92.28	4.93	395.587	4.47
2006-07	16.334	51.16	-0.98	15.593	48.84	11.05	31.927	7.61	4.55	387.873	92.39	6.25	419.800	6.12
2007-08	16.438	49.01	0.64	17.105	50.99	9.70	33.543	7.40	5.06	420.024	92.60	8.29	453.567	8.04
2008-09	15.061	42.16	-8.38	20.663	57.84	20.80	35.724	7.30	6.50	453.448	92.70	7.96	489.172	7.85
2009-10	15.173	35.73	0.74	27.296	64.27	32.10	42.469	8.27	18.88	471.323	91.73	3.94	513.792	5.03
2010-11	16.075	32.84	5.94	32.875	67.16	20.44	48.950	9.35	15.26	474.515	90.65	0.68	523.465	1.88
2011-12	15.903	30.75	-1.07	35.820	69.25	8.96	51.723	9.66	5.66	483.576	90.34	1.91	535.299	2.26
2012-13	14.799	26.49	-6.94	41.060	73.51	14.63	55.859	9.85	8.00	511.277	90.15	5.73	567.136	5.95





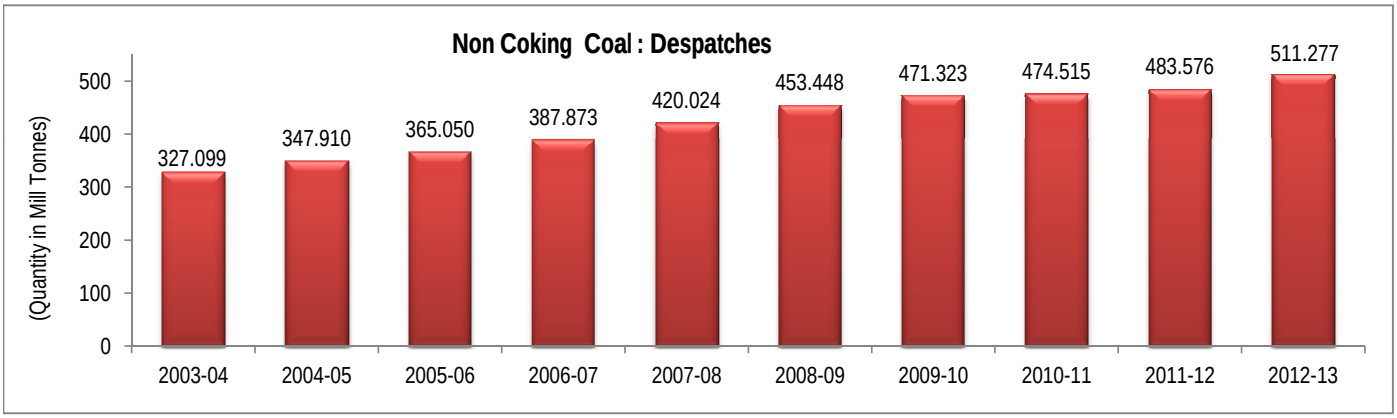
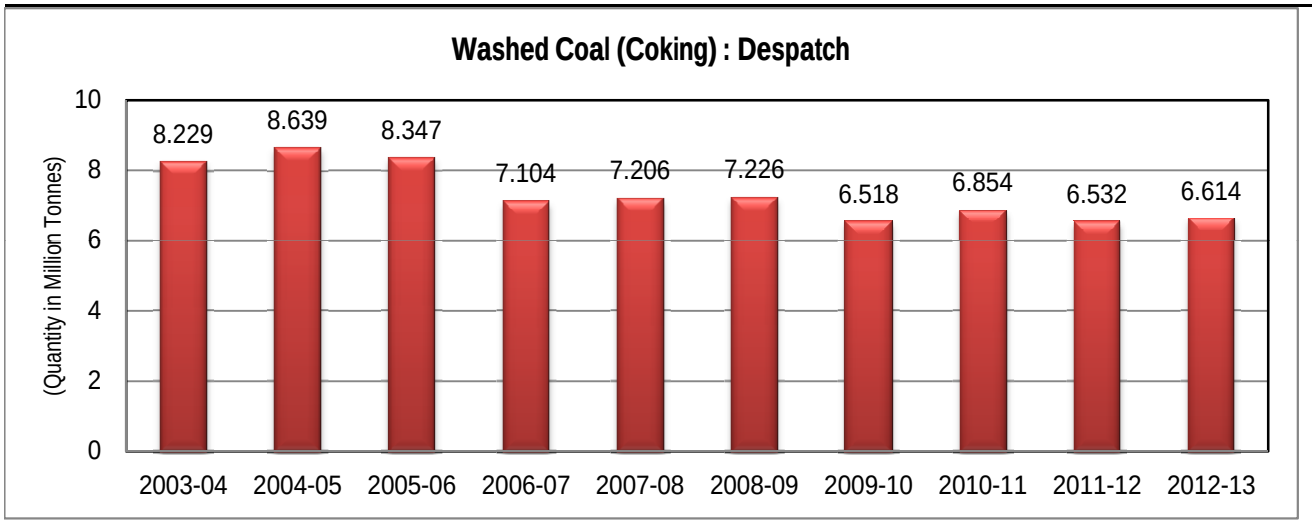
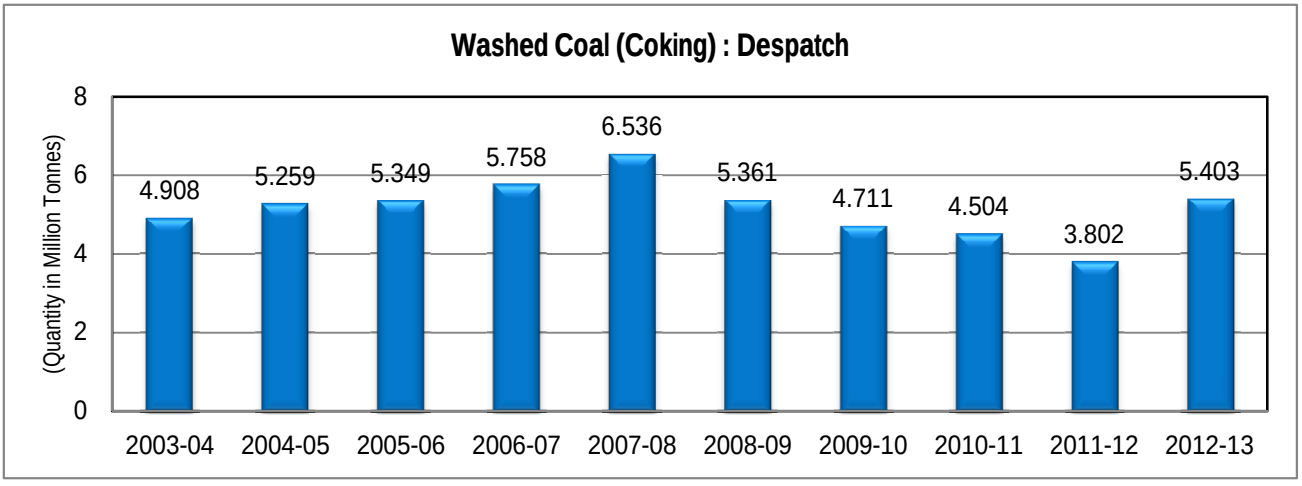


TABLE 4.3: TREND OF DESPATCHES OF DIFFERENT TYPES OF COAL PRODUCTS IN LAST TEN YEARS

(Quantity in Million Tonnes)

Year	Washed Coal (Coking)		Washed Coal (N-Coking)		Middlings (Coking)		Middlings (N-Coking)		Hard Coke	
	Despatches	Percentage of change over previous year	Despatches	Percentage of change over previous year	Despatches	Percentage of change over previous year	Despatches	Percentage of change over previous year	Despatches	Percentage of change over previous year
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2003-04	8.229	1.30	8.680	N.A.	4.908	-0.49	1.028	N.A.	12.914	-5.75
2004-05	8.639	4.98	10.675	22.98	5.259	7.15	1.803	75.39	12.251	-5.13
2005-06	8.347	-3.38	12.322	15.43	5.349	1.71	1.882	4.38	13.030	6.36
2006-07	7.104	-14.89	12.633	2.52	5.758	7.65	2.244	19.23	12.739	-2.23
2007-08	7.206	1.44	12.821	1.49	6.536	13.51	2.466	9.89	12.774	0.27
2008-09	7.226	0.28	13.445	4.87	5.361	-17.98	4.018	62.94	12.465	-2.42
2009-10	6.518	-9.80	13.981	3.99	4.711	-12.12	3.726	-7.27	12.361	-0.83
2010-11	6.854	5.15	14.537	3.98	4.504	-4.39	3.790	1.72	12.546	1.50
2011-12	6.532	-4.70	15.751	8.35	3.802	-15.59	3.545	-6.46	12.340	-1.64
2012-13	6.614	1.26	14.237	-9.61	5.403	42.11	5.184	46.23	12.429	0.72





Note: 1. All the above figures of Washed Coal & Middling relate to coal companies (private& public) here.
are not included Private Washeries

2. Data of Hard Coke relate to steel plants only. There are Private sector, specially in small scale sector, data of which are not readily available.

TABLE 4.4 :QUARTERLY DESPATCHES OF DIFFERANT TYPES OF COAL, LIGNITE & COAL PRODUCTS IN LAST THREE YEARS
(Quantity in Million Tonnes)

Year and Quarter	Coking Coal			Non Coking Coal			Raw Coal			Lignite		
	Desp.	Growth%	Share%	Desp.	Growth%	Share%	Desp.	Growth%	Share%	Desp.	Growth%	Share%
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2010-11												
April - June	11.905	18.6	24.3	114.217	0.8	24.1	126.122	2.3	24.1	9.994	7.1	26.5
July - Sept.	11.831	14.0	24.2	109.320	2.8	23.0	121.151	3.8	23.1	8.279	9.3	22.0
Oct. - Dec.	12.231	15.0	25.0	123.529	1.2	26.0	135.760	2.3	25.9	8.331	5.1	22.1
Jan. - Mar.	12.970	13.6	26.5	127.462	-1.6	26.9	140.432	-0.4	26.8	11.081	15.5	29.4
TOTAL	**48.937**	**15.2**	**100.0**	**474.528**	**0.7**	**100.0**	**523.465**	**1.9**	**100.0**	**37.685**	**9.5**	**100.0**
2011-12												
April - June	12.692	6.6	24.5	119.779	4.9	24.8	132.471	5.0	24.7	10.790	8.0	25.8
July - Sept.	12.298	3.9	23.8	104.538	-4.4	21.6	116.836	-3.6	21.8	8.629	4.2	20.6
Oct. - Dec.	12.438	1.7	24.0	123.087	-0.4	25.5	135.525	-0.2	25.3	9.843	18.1	23.5
Jan. - Mar.	14.295	10.2	27.6	136.172	6.8	28.2	150.467	7.1	28.1	12.621	13.9	30.1
TOTAL	**51.723**	**5.7**	**100.0**	**483.576**	**1.9**	**100.0**	**535.299**	**2.3**	**100.0**	**41.883**	**11.1**	**100.0**
2012-13												
April - June	14.065	10.8	25.2	125.429	4.7	24.5	139.494	5.3	24.6	12.227	13.3	26.4
July - Sept.	13.016	5.8	23.3	111.083	6.3	21.7	124.099	6.2	21.9	10.357	20.0	22.4
Oct. - Dec.	14.072	13.1	25.2	131.731	7.0	25.8	145.803	7.6	25.7	10.828	10.0	23.4
Jan. - Mar.	14.706	2.9	26.3	143.034	5.0	28.0	157.740	4.8	27.8	12.901	2.2	27.9
TOTAL	**55.859**	**8.0**	**100.0**	**511.277**	**5.7**	**100.0**	**567.136**	**5.9**	**100.0**	**46.313**	**10.6**	**100.0**

Note: (1) Growth is calculated over last quarter /year, as the case may be, and expressed in percentage.

(2) Share is calculated as ratio to yearly despatches and expressed in percentage.

Contd….

TABLE 4.4 :QUARTERLY DESPATCHES OF DIFFERANT TYPES OF COAL, LIGNITE & COAL PRODUCTS IN LAST THREE YEARS

(Quantity in Million Tonnes)

Year and Quarter	Washed Coal (CKG)			Washed Coal (NCKG)			Middling (CKG)			Middling (NCKG)			Hard Coke		
	Desp.	Growth%	Share%	Desp.	Growth%	Share%	Desp.	Growth%	Share%	Desp.	Growth%	Share%	Desp.	Growth%	Share%
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
2010-11															
April - June	1.747	13.3	25.5	3.336	6.4	22.9	1.144	-7.1	25.4	0.823	-4.3	21.7	3.057	3.8	24.4
July - Sept.	1.736	14.3	25.3	3.551	8.7	24.4	1.039	-15.9	23.1	0.865	15.2	22.8	3.058	-0.8	24.4
Oct. - Dec.	1.674	2.1	24.4	3.729	-1.1	25.7	1.114	-3.4	24.7	1.051	4.7	27.7	3.257	1.7	26.0
Jan. - Mar.	1.697	-6.7	24.8	3.921	2.9	27.0	1.207	10.6	26.8	1.051	-5.4	27.7	3.174	1.3	25.3
TOTAL	**6.854**	**5.2**	**100.0**	**14.537**	**4.0**	100.0	**4.504**	**-4.4**	100.0	**3.790**	**1.7**	100.0	**12.546**	**1.5**	**100.0**
2011-12															
April - June	1.605	-8.1	24.6	4.023	20.6	25.5	0.994	-13.1	26.1	0.788	-4.3	22.2	3.095	1.2	25.1
July - Sept.	1.589	-8.5	24.3	3.443	-3.0	21.9	0.990	-4.7	26.0	0.738	-14.7	20.8	3.053	-0.2	24.7
Oct. - Dec.	1.595	-4.7	24.4	4.203	12.7	26.7	0.880	-21.0	23.1	0.945	-10.1	26.7	3.116	-4.3	25.3
Jan. - Mar.	1.743	2.7	26.7	4.082	4.1	25.9	0.938	-22.3	24.7	1.074	2.2	30.3	3.076	-3.1	24.9
TOTAL	**6.532**	**-4.7**	**100.0**	**15.751**	**8.4**	**100.0**	**3.802**	**-15.6**	**100.0**	**3.545**	**-6.5**	**100.0**	**12.340**	**-1.6**	**100.0**
2012-13															
April - June	1.688	5.2	25.5	3.141	-21.9	22.1	1.307	31.5	24.2	1.269	61.0	24.5	3.078	-0.5	24.8
July - Sept.	1.516	-4.6	22.9	3.242	-5.8	22.8	1.310	32.3	24.2	1.290	74.8	24.9	3.145	3.0	25.3
Oct. - Dec.	1.655	3.8	25.0	3.919	-6.8	27.5	1.401	59.2	25.9	1.354	43.3	26.1	3.118	0.1	25.1
Jan. - Mar.	1.755	0.7	26.5	3.935	-3.6	27.6	1.385	47.7	25.6	1.271	18.3	24.5	3.088	0.4	24.8
TOTAL	**6.614**	**1.3**	**100.0**	**14.237**	**-9.6**	**100.0**	**5.403**	**42.1**	**100.0**	**5.184**	**46.2**	**100.0**	**12.429**	**0.7**	**100.0**

Note: (1) Growth is calculated over last quarter /year, as the case may be, and expressed in percentage.

(2) Share is calculated as ratio to yearly despatches and expressed in percentage.

(3) All the above figures of Washed Coal & Middling relate to coal companies. Private Washeries are not included here.

(4) Data of Hard Coke relate to steel plants only. There are Private sector, specially in small scale sector, data of which are not readily available.

TABLE 4.5: MONTHLY DESPATCHES OF DIFFERENT TYPES OF COAL, LIGNITE AND COAL PRODUCTS IN 2012-13
(Quantity in Million Tonnes)

Month	Coking Coal			Non Coking Coal			Raw Coal			Lignite		
	Desp.	Growth*	Share**	Desp.	Growth*	Share**	Desp.	Growth*	Share**	Desp.	Growth*	Share**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Apr-12	4.879	15.3	8.73	42.009	0.3	8.22	46.888	1.6	8.27	4.420	23.0	9.54
May-12	4.676	10.0	8.37	43.282	10.0	8.47	47.958	10.0	8.46	4.024	7.2	8.69
Jun-12	4.510	7.1	8.07	40.138	4.2	7.85	44.648	4.5	7.87	3.783	9.9	8.17
1st Quarter	**14.065**	**10.8**	**25.18**	**125.429**	**4.7**	**24.53**	**139.494**	**5.3**	**24.60**	**12.227**	**13.3**	**26.40**
Jul-12	4.423	2.6	7.92	39.349	-0.3	7.70	43.772	0.0	7.72	3.697	23.7	7.98
Aug-12	4.433	11.5	7.94	35.969	4.3	7.04	40.402	5.1	7.12	3.478	23.8	7.51
Sep-12	4.160	3.7	7.45	35.765	17.0	7.00	39.925	15.4	7.04	3.182	12.4	6.87
2nd Quarter	**13.016**	**5.8**	**23.30**	**111.083**	**6.3**	**21.73**	**124.099**	**6.2**	**21.88**	**10.357**	**20.0**	**22.36**
Oct-12	4.519	19.0	8.09	43.041	17.2	8.42	47.560	17.4	8.39	3.333	5.1	7.20
Nov-12	4.543	5.9	8.13	42.309	1.6	8.28	46.852	2.0	8.26	3.390	7.3	7.32
Dec-12	5.010	15.2	8.97	46.381	3.7	9.07	51.391	4.7	9.06	4.105	16.9	8.86
3rd Quarter	**14.072**	**13.1**	**25.19**	**131.731**	**7.0**	**25.77**	**145.803**	**7.6**	**25.71**	**10.828**	**10.0**	**23.38**
Jan-13	4.981	7.3	8.92	48.537	8.5	9.49	53.518	8.4	9.44	4.273	2.3	9.23
Feb-13	4.451	0.3	7.97	43.788	-1.2	8.56	48.239	-1.0	8.51	4.024	-2.4	8.69
Mar-13	5.274	1.2	9.44	50.709	7.6	9.92	55.983	7.0	9.87	4.604	6.5	9.94
4th Quarter	**14.706**	**2.9**	**26.33**	**143.034**	**5.0**	**27.98**	**157.740**	**4.8**	**27.81**	**12.901**	**2.2**	**27.86**
Yr. 2012-13	**55.859**	**8.0**	**100.00**	**511.277**	**5.7**	**100.00**	**567.136**	**5.9**	**100.00**	**46.313**	**10.6**	**100.00**

Note: (1) *Growth (%) is calculated over similar period of last year.
(2) **Share (%) is caculated as ratio to yearly production.

Cont....

TABLE 4.5: MONTHLY DESPATCHES OF DIFFERENT TYPES OF COAL, LIGNITE AND COAL PRODUCTS IN 2012-13

(Quantity in Million Tonnes)

Month	Washed Coal (Ckg)			Washed Coal (Nckg)			Middlings (Ckg)			Middlings (Nckg)			Hard Coke		
	Desp.	Growth*	Share**	Desp.	Growth*	Share**	Desp.	Growth*	Share**	Desp.	Growth*	Share**	Desp.	Growth*	Share**
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
Apr-12	0.571	-3.1	8.63	1.099	-26.0	7.72	0.432	20.3	8.00	0.339	18.1	6.54	1.019	17.1	8.20
May-12	0.562	17.8	8.50	1.032	-20.5	7.25	0.472	59.5	8.74	0.373	23.1	7.20	1.044	20.0	8.40
Jun-12	0.555	3.0	8.39	1.010	-18.5	7.09	0.403	18.9	7.46	0.557	181.3	10.74	1.015	25.9	8.17
1st Quarter	**1.688**	**5.2**	**25.52**	**3.141**	**-21.9**	**22.06**	**1.307**	**31.5**	**24.19**	**1.269**	**61.0**	**24.48**	**3.078**	**20.9**	**24.76**
Jul-12	0.500	-11.7	7.56	1.116	-11.7	7.84	0.424	24.7	7.85	0.525	131.3	10.13	1.047	25.4	8.42
Aug-12	0.514	0.8	7.77	1.033	-4.1	7.26	0.445	27.1	8.24	0.363	47.0	7.00	1.067	27.2	8.58
Sep-12	0.502	-2.1	7.59	1.093	-0.8	7.68	0.441	47.0	8.16	0.402	52.3	7.75	1.031	24.1	8.30
2nd Quarter	**1.516**	**-4.6**	**22.92**	**3.242**	**-5.8**	**22.77**	**1.310**	**32.3**	**24.25**	**1.290**	**74.8**	**24.88**	**3.145**	**25.5**	**25.30**
Oct-12	0.535	9.9	8.09	1.318	10.1	9.26	0.466	58.0	8.62	0.464	65.1	8.95	1.055	22.7	8.49
Nov-12	0.530	-5.2	8.01	1.291	-9.8	9.07	0.428	43.1	7.92	0.427	70.8	8.24	1.036	23.8	8.34
Dec-12	0.590	7.5	8.92	1.310	-16.8	9.20	0.507	77.3	9.38	0.463	11.8	8.93	1.027	18.0	8.26
3rd Quarter	**1.655**	**3.8**	**25.02**	**3.919**	**-6.8**	**27.53**	**1.401**	**59.2**	**25.93**	**1.354**	**43.3**	**26.12**	**3.118**	**21.5**	**25.09**
Jan-13	0.581	0.7	8.78	1.321	-9.1	9.28	0.470	46.9	8.70	0.427	10.6	8.24	1.063	26.2	8.55
Feb-13	0.554	-6.9	8.38	1.295	-1.4	9.10	0.428	27.8	7.92	0.440	29.8	8.49	0.959	19.3	7.72
Mar-13	0.620	8.6	9.37	1.319	0.4	9.26	0.487	72.1	9.01	0.404	15.8	7.79	1.066	20.9	8.58
4th Quarter	**1.755**	**0.7**	**26.53**	**3.935**	**-3.6**	**27.64**	**1.385**	**47.7**	**25.63**	**1.271**	**18.3**	**24.52**	**3.088**	**22.2**	**24.85**
Yr. 2012-13	**6.614**	**1.3**	**100.00**	**14.237**	**-9.6**	**100.00**	**5.403**	**42.1**	**100.00**	**5.184**	**46.2**	**100.00**	**12.429**	**22.5**	**100.00**

Note: (1) *Growth is calculated over last quarter /year, as the case may be, and expressed in percentage.

(2) **Share is calculated as ratio to yearly despatches and expressed in percentage.

(3) All the above figures of Washed Coal & Middling relate to coal companies (private& public). Private Washeries are not included here.

(4) Data of Hard Coke relate to steel plants only. There are Private sector, specially in small scale sector, data of which are not readily available.

TABLE 4.6 : SHARE OF RAW COAL DESPATCHES BY STATES DURING LAST TEN YEARS

(Quantity in Million Tonnes)

Year	State: Andhra Pradesh			State: Assam			State: Chhattisgarh		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth(%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2003-04	33.829	9.45	1.38	0.870	0.24	35.94	61.918	17.30	5.24
2004-05	34.707	9.17	2.60	0.568	0.15	-34.71	70.153	18.53	13.30
2005-06	35.321	8.93	1.77	1.170	0.30	105.99	74.997	18.96	6.90
2006-07	37.487	8.93	6.13	1.182	0.28	1.03	80.526	19.18	7.37
2007-08	41.793	9.21	11.49	1.200	0.26	1.52	90.792	20.02	12.75
2008-09	44.410	9.08	6.26	0.835	0.17	-30.42	103.022	21.06	13.47
2009-10	49.266	9.59	10.93	1.071	0.21	28.26	106.921	20.81	3.78
2010-11	50.046	9.56	1.58	1.102	0.21	2.89	109.562	20.93	2.47
2011-12	51.389	9.60	2.68	0.800	0.15	-27.40	114.610	21.41	4.61
2012-13	52.025	9.17	1.24	0.618	0.11	-22.75	121.058	21.35	5.63

Year	State: Jammu & Kashmir			State: Jharkhand			State: Madhya Pradesh		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)
(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2003-04	0.031	0.01	29.17	78.882	22.03	4.01	48.910	13.66	8.71
2004-05	0.027	0.01	-12.90	76.605	20.23	-2.89	51.686	13.65	5.68
2005-06	0.020	0.01	-25.93	79.669	20.14	4.00	54.949	13.89	6.31
2006-07	0.014	0.00	-30.00	84.292	20.08	5.80	59.996	14.29	9.18
2007-08	0.016	0.00	14.29	88.898	19.60	5.46	68.344	15.07	13.91
2008-09	0.012	0.00	-25.00	95.414	19.51	7.33	72.042	14.73	5.41
2009-10	0.017	0.00	41.67	99.863	19.44	4.66	73.481	14.30	2.00
2010-11	0.025	0.00	47.06	106.637	20.37	6.78	69.443	13.27	-5.50
2011-12	0.023	0.00	-8.00	109.792	20.51	2.96	69.560	12.99	0.17
2012-13	0.014	0.00	-39.13	119.276	21.03	8.64	60.411	10.65	-13.15

Year	State: Maharashtra			State: Meghalaya			State: Orissa		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth(%)	Quantity	Share (%)	Growth(%)
(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
2003-04	32.582	9.10	2.53	5.439	1.52	18.99	59.443	16.60	15.74
2004-05	33.523	8.85	2.89	5.345	1.41	-1.76	66.781	17.64	12.34
2005-06	34.792	8.80	3.79	5.566	1.41	3.97	69.136	17.48	3.53
2006-07	35.508	8.46	2.06	5.787	1.38	3.82	77.585	18.48	12.22
2007-08	37.389	8.24	5.30	6.541	1.44	11.53	85.147	18.77	9.75
2008-09	39.238	8.02	4.95	5.489	1.12	-19.17	93.316	19.08	9.59
2009-10	40.743	7.93	3.84	5.767	1.12	4.82	100.591	19.58	7.80
2010-11	38.240	7.31	-6.14	6.974	1.33	17.31	104.359	19.94	3.75
2011-12	38.108	7.12	-0.35	7.206	1.35	3.22	104.819	19.58	0.44
2012-13	38.316	6.76	0.55	5.640	0.99	-27.77	114.213	20.14	8.96

Contd….

TABLE 4.6 : SHARE OF RAW COAL DESPATCHES BY STATES DURING LAST TEN YEARS

(Quantity in Million Tonnes)

Year	State: Uttar Pradesh			State: West Bengal			State : Arunachal Pradesh		
	Quantity	Share (%)	Growth(%)	Quantity	Share (%)	Growth(%)	Quantity	Share (%)	Growth(%)
(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
2003-04	15.529	4.34	-10.30	20.559	5.74	2.52			
2004-05	17.019	4.49	9.59	22.244	5.87	8.20			
2005-06	15.853	4.01	-6.85	24.114	6.10	8.41			
2006-07	12.393	2.95	-21.83	25.030	5.96	3.80			
2007-08	11.216	2.47	-9.50	22.155	4.88	-11.49	0.076	0.02	0.00
2008-09	12.448	2.54	10.98	22.817	4.66	2.99	0.129	0.03	69.74
2009-10	13.587	2.64	9.15	22.259	4.33	-2.45	0.226	0.04	75.19
2010-11	15.393	2.94	13.29	21.439	4.10	-3.68	0.245	0.05	8.41
2011-12	15.467	2.89	0.48	23.203	4.33	8.23	0.322	0.06	31.43
2012-13	28.824	5.08	86.36	26.686	4.71	15.01	0.055	0.01	-82.92

Year	All India	
	Quantity	**Growth(%)**
(41)	(42)	(43)
2003-04	**357.992**	**5.72**
2004-05	**378.658**	**5.77**
2005-06	**395.587**	**4.47**
2006-07	**419.800**	**6.12**
2007-08	**453.567**	**8.04**
2008-09	**489.172**	**7.85**
2009-10	**513.792**	**5.03**
2010-11	**523.465**	**1.88**
2011-12	**535.299**	**2.26**
2012-13	**567.136**	**5.95**

TABLE 4.7 : SHARE OF LIGNITE DESPATCHES BY STATES DURING LAST TEN YEARS

(Quantity in Million Tonnes)

Year	State: Tamilnadu			State: Gujarat		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2003-04	21.116	74.13	13.47	6.692	23.49	-3.41
2004-05	21.237	70.59	0.57	8.302	27.59	24.06
2005-06	20.551	67.74	-3.23	9.111	30.03	9.74
2006-07	20.511	66.60	-0.19	9.819	31.88	7.77
2007-08	22.259	64.23	8.52	11.792	34.02	20.09
2008-09	20.748	65.26	-6.79	10.046	31.60	-14.81
2009-10	22.812	66.26	9.95	10.411	30.24	3.63
2010-11	23.081	61.25	1.18	13.079	34.71	25.63
2011-12	24.472	58.43	6.03	14.448	34.50	10.47
2012-13	24.312	52.49	-0.65	14.670	31.68	1.54

Year	State: Rajasthan			**ALL INDIA**	
	Quantity	Share (%)	Growth (%)	**Quantity**	**Growth (%)**
(8)	(9)	(10)	(11)	(12)	(13)
2003-04	0.678	2.38	43.34	**28.486**	**9.52**
2004-05	0.548	1.82	-19.17	**30.087**	**5.62**
2005-06	0.677	2.23	23.54	**30.339**	**0.84**
2006-07	0.467	1.52	-31.02	**30.797**	**1.51**
2007-08	0.606	1.75	29.76	**34.657**	**12.53**
2008-09	0.999	3.14	64.85	**31.793**	**-8.26**
2009-10	1.207	3.51	20.82	**34.430**	**8.29**
2010-11	1.525	4.05	26.35	**37.685**	**9.45**
2011-12	2.963	7.07	94.30	**41.883**	**11.14**
2012-13	7.331	15.83	147.42	**46.313**	**10.58**

TABLE 4.8 : TRENDS OF COMPANY WISE DESPATCHES OF COAL & LIGNITE DURING LAST THREE YEARS

(Quantity in Million Tonnes)

Company	2010-11			2011-12			2012-13		
	Coking	N-Coking	Total	Coking	N-Coking	Total	Coking	N-Coking	Total
(1)	(8)	(9)	(10)	(8)	(9)	(10)	(8)	(9)	(10)
ECL	0.050	29.314	29.364	0.099	30.392	30.491	0.043	35.501	35.544
BCCL	25.674	3.577	29.251	27.132	2.938	30.070	28.970	4.027	32.997
CCL	14.555	31.663	46.218	15.701	32.332	48.033	18.479	34.407	52.886
NCL	0	64.208	64.208	0	63.605	63.605	0.000	67.021	67.021
WCL	0.421	42.130	42.551	0.310	41.649	41.959	0.317	41.222	41.539
SECL	0.163	108.837	109.000	0.189	114.950	115.139	0.155	121.818	121.973
MCL	0.000	102.087	102.087		102.521	102.521		111.959	111.959
NEC	0.000	1.102	1.102		0.800	0.800		0.618	0.618
CIL	**40.863**	**382.918**	**423.781**	**43.431**	**389.187**	**432.618**	**47.964**	**416.573**	**464.537**
SCCL	0	50.046	50.046		51.389	51.389		52.025	52.025
JKML	0	0.025	0.025		0.023	0.023		0.014	0.014
JSMDCL	0	0.399	0.399		0.118	0.118		0.000	0.000
DVC	0.193	0	0.193	0.410	0	0.410		0.226	0.226
DVCEMTA	0	0	0		1.169	1.169		1.844	1.844
IISCO	0.855	0.234	1.089	0.434	0.164	0.598	0.560	0.156	0.716
SAIL	0.014	0.000	0.014	0.040		0.040	0.033	0.064	0.097
APMDTCL	0	0.245	0.245		0.322	0.322		0.055	0.055
WBPDCL	0	0.268	0.268		0.213	0.213		0.254	0.254
RRUVNL								0.293	0.293
WBMDTCL								0.265	0.265
Total Public	**41.925**	**434.135**	**476.060**	**44.315**	**442.585**	**486.900**	**48.557**	**471.769**	**520.326**
BECML	0	2.883	2.883		2.581	2.581		3.002	3.002
ICML	0	2.923	2.923		3.168	3.168		3.221	3.221
JSPL	0	5.995	5.995		5.993	5.993		5.999	5.999
Meghalaya	0	6.974	6.974		7.206	7.206		5.640	5.640
TISCO	7.003	0.023	7.026	7.371	0.067	7.438	7.233	0.081	7.314
MIL	0	0.960	0.960		0.846	0.846		0.798	0.798
BLA	0	0.297	0.297		0.299	0.299		0.300	0.300
CML	0	0	0		0	0		0	0
HIL	0	2.272	2.272		2.298	2.298		2.254	2.254
PANEM	0	8.126	8.126		8.278	8.278		6.872	6.872
PIL	0	1.000	1.000		1.000	1.000		1.000	1.000
JNL	0	0.477	0.477		0.457	0.457		0.479	0.479
JPL	0	5.249	5.249		5.249	5.249		5.088	5.088
SIL	0	0.102	0.102		0.164	0.164		0.244	0.244
ESCL	0.022	0	0.022	0.037	0	0.037	0.069	0.005	0.074
UML	0	0.300	0.300		0.351	0.351		0.564	0.564
KECML	0	2.368	2.368		2.205	2.205		2.515	2.515
SEML	0	0.431	0.431		0.784	0.784		0.893	0.893
BSIL	0	0	0		0.006	0.006		0.019	0.019
TUML					0.039	0.039		0.367	0.367
SPL								0.081	0.081
SOVA								0.086	0.086
GVK								0.000	0.000
Total Private	**7.025**	**40.380**	**47.405**	**7.408**	**40.991**	**48.399**	**7.302**	**39.508**	**46.810**
ALL INDIA	**48.950**	**474.515**	**523.465**	**51.723**	**483.576**	**535.299**	**55.859**	**511.277**	**567.136**
LIGNITE :									
NLC			23.081			24.472			25.691
GMDCL			10.232			11.343			10.905
GIPCL			2.548			2.716			3.482
RSMML			0.883			2.120			1.387
GHCL			0.299			0.389			0.283
VSLPPL			0.642			0.843			0.815
BLMCL									3.750
ALL INDIA			**37.685**			**41.883**			**46.313**
COAL & LIGNITE			**561.150**			**577.182**			**613.449**

TABLE 4.9 : DESPATCHES OF RAW COAL AND COAL PRODUCTS (Washed Coal and Middlings) BY COMPANIES IN 2012-13

(Quantity in Million Tonnes)

Company	Raw Coal		Washed Coal		Middlings	
	Despatches	Offtake	Despatches	Offtake	Despatches	Offtake
(1)	(2)	(3)	(4)	(5)	(6)	(7)
COAL :						
ECL	35.544	35.845				
BCCL	32.997	33.073	1.347	1.347	1.446	1.446
CCL	52.886	52.891	8.622	8.622	1.154	1.154
NCL	67.021	67.285	3.957	3.957		
WCL	41.539	41.546	0.145	0.145	0.101	0.101
SECL	121.973	121.988				
MCL	111.959	111.964				
NEC	0.618	0.618				
CIL	**464.537**	**465.210**	**14.071**	**14.071**	**2.701**	**2.701**
SCCL	52.025	52.080				
JKML	0.014	0.014				
JSMDCL	0.000	0.000				
DVC	0.226	0.227				
DVCEMTA	1.844	1.844				
IISCO	0.716	0.716	0.443	0.443	0.247	0.247
SAIL	0.097	0.097				
APMDTCL	0.055	0.055				
WBPDCL	0.254	0.254				
RRUVNL	0.293	0.293	0.229	0.229	0.084	0.084
WBMDTCL	0.265	0.265				
Total Public	**520.326**	**521.055**	**14.743**	**14.743**	**3.032**	**3.032**
BECML	3.002	3.002				
ICML	3.221	3.221				
JSPL	5.999	5.999	2.050	2.050	4.435	4.435
Meghalaya	5.640	5.640				
TISCO	7.314	7.315	3.382	3.382	2.769	2.769
MIL	0.798	0.798				
BLA	0.300	0.300	0.285	0.285		
CML	0	0				
HIL	2.254	2.254				
PANEM	6.872	6.872				
PIL	1.000	1.000				
JNL	0.479	0.479				
JPL	5.088	5.088	0.109	0.109		
SIL	0.244	0.244				
ESCL	0.074	0.074	0.009	0.009	0.011	0.011
UML	0.564	0.564				
KECML	2.515	2.515				
SEML	0.893	0.893	0.273	0.273	0.340	0.340
BSIL	0.019	0.019				
TUML	0.367	0.367				
SPL	0.081	0.081				
SOVA	0.086	0.086				
GVK	0.000	0.000				
Total Private	**46.810**	**46.811**	**6.108**	**6.108**	**7.555**	**7.555**
ALL INDIA	**567.136**	**567.866**	**20.851**	**20.851**	**10.587**	**10.587**

Table 4.10 : COMPANYWISE DESPATCHES OF COAL PRODUCTS (Coke, Coal gas ,Coke Fines) DURING LAST THREE YEARS

(Quantity in Thousand Tonnes)

YEAR	Companies	Hard Coke	CIL Coke	Coke Fines	Coal gas (Unit: NM3)	Coal Fines
2010-11	BCCL					
	CCL					
	WCL					
	DCC		31	61	6	138
	SAIL	8724				
	RINL	1857				
	TSL	1965				
	TOTAL	**12546**	**31**	**61**	**6**	**138**
2011-12	BCCL					
	CCL					
	WCL					
	DCC		4	2	36	153
	SAIL	8203				
	RINL	2197				
	TSL	1940				
	TOTAL	**12340**	**4**	**2**	**36**	**153**
2012-13	BCCL					
	CCL					
	WCL					
	DCC		4	2	36	153
	SAIL	8169				
	RINL	2391				
	TISCO	1869				
	TOTAL	**12429**	**4**	**2**	**36**	**153**

TABLE 4.11: STATEWISE AND COMPANYWISE DESPATCHES OF RAW COAL BY TYPE IN LAST THREE YEARS

(Quantity in Million Tonnes)

States	Company	2010-11			2011-12			2012-13		
		Coking	N-Coking	**Total**	Coking	N-Coking	**Total**	Coking	N-Coking	**Total**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Andhra Pradesh	**SCCL**		50.046	**50.046**		51.389	**51.389**		52.025	**52.025**
Arunachal Pradesh	**APMDTCL**		0.245	**0.245**		0.322	**0.322**		0.055	**0.055**
Assam	**NEC**		1.102	**1.102**		0.800	**0.800**		0.618	**0.618**
Chhattisgarh	SECL	0.163	95.287	**95.450**	0.189	100.092	**100.281**	0.155	106.353	**106.508**
Chhattisgarh	JSPL		5.995	**5.995**		5.993	**5.993**		5.999	**5.999**
Chhattisgarh	MIL		0.960	**0.960**		0.846	**0.846**		0.798	**0.798**
Chhattisgarh	PIL		1.000	**1.000**		1.000	**1.000**		1.000	**1.000**
Chhattisgarh	JNL		0.477	**0.477**		0.457	**0.457**		0.479	**0.479**
Chhattisgarh	JPL		5.249	**5.249**		5.249	**5.249**		5.088	**5.088**
Chhattisgarh	CML			**0**			**0**			**0**
Chhattisgarh	SEML		0.431	**0.431**		0.784	**0.784**		0.893	**0.893**
Chhattisgarh	RRUVNL								0.293	**0.293**
Chhattisgarh	**TOTAL**	0.163	109.399	**109.562**	0.189	114.421	**114.610**	0.155	120.903	**121.058**
Jammu & Kashmir	**JKML**	0.000	0.025	**0.025**	0.000	0.023	**0.023**	0.000	0.014	**0.014**
Jharkhand	ECL	0.043	14.239	**14.282**	0.084	14.531	**14.615**	0.032	17.672	**17.704**
Jharkhand	BCCL	25.642	3.560	**29.202**	27.100	2.938	**30.038**	28.954	4.025	**32.979**
Jharkhand	CCL	14.555	31.663	**46.218**	15.701	32.332	**48.033**	18.479	34.407	**52.886**
Jharkhand	JSMDCL		0.399	**0.399**		0.118	**0.118**		0.000	**0.000**
Jharkhand	DVC	0.193		**0.193**	0.410		**0.410**		0.226	**0.226**
Jharkhand	IISCO	0.855		**0.855**	0.434		**0.434**	0.560		**0.560**
Jharkhand	TISCO	7.003	0.023	**7.026**	7.371	0.067	**7.438**	7.233	0.081	**7.314**
Jharkhand	PANEM		8.126	**8.126**		8.278	**8.278**		6.872	**6.872**
Jharkhand	UML		0.300	**0.300**		0.351	**0.351**		0.564	**0.564**
Jharkhand	ESCL	0.022		**0.022**	0.037		**0.037**	0.069	0.005	**0.074**
Jharkhand	SAIL	0.014		**0.014**	0.040		**0.040**	0.033	0.064	**0.097**
Jharkhand	GVK									**0.000**
Jharkhand	**TOTAL**	48.327	58.310	**106.637**	51.177	58.615	**109.792**	55.360	63.916	**119.276**
Madhya Pradesh	NCL		48.815	**48.815**		48.138	**48.138**		38.197	**38.197**
Madhya Pradesh	WCL	0.421	6.360	**6.781**	0.310	5.955	**6.265**	0.317	6.051	**6.368**
Madhya Pradesh	SECL		13.550	**13.550**		14.858	**14.858**		15.465	**15.465**
Madhya Pradesh	BLA		0.297	**0.297**		0.299	**0.299**		0.300	**0.300**
Madhya Pradesh	SPL								0.081	**0.081**
Madhya Pradesh	**TOTAL**	0.421	69.022	**69.443**	0.310	69.250	**69.560**	0.317	60.094	**60.411**
Maharashtra	WCL		35.770	**35.770**		35.694	**35.694**		35.171	**35.171**
Maharashtra	SIL		0.102	**0.102**		0.164	**0.164**		0.244	**0.244**
Maharashtra	KECML		2.368	**2.368**		2.205	**2.205**		2.515	**2.515**
Maharashtra	BSIL					0.006	**0.006**		0.019	**0.019**
Maharashtra	TUML					0.039	**0.039**		0.367	**0.367**
Maharashtra	**TOTAL**	0.000	38.240	**38.240**	0.000	38.108	**38.108**	0.000	38.316	**38.316**
Meghalaya	**MEGHALAYA**		6.974	**6.974**		7.206	**7.206**		5.640	**5.640**
Orissa	MCL		102.087	**102.087**		102.521	**102.521**		111.959	**111.959**
Orissa	HIL		2.272	**2.272**		2.298	**2.298**		2.254	**2.254**
Orissa	**TOTAL**		104.359	**104.359**		104.819	**104.819**		114.213	**114.213**
Uttar Pradesh	**NCL**		15.393	**15.393**		15.467	**15.467**		28.824	**28.824**
West Bengal	ECL	0.007	15.075	**15.082**	0.015	15.861	**15.876**	0.011	17.829	**17.840**
West Bengal	BCCL	0.032	0.017	**0.049**	0.032		**0.032**	0.016	0.002	**0.018**
West Bengal	IISCO		0.234	**0.234**		0.164	**0.164**		0.156	**0.156**
West Bengal	BECML		2.883	**2.883**		2.581	**2.581**		3.002	**3.002**
West Bengal	ICML		2.923	**2.923**		3.168	**3.168**		3.221	**3.221**
West Bengal	WBPDCL		0.268	**0.268**		0.213	**0.213**		0.254	**0.254**
West Bengal	DVCEMTA					1.169	**1.169**		1.844	**1.844**
West Bengal	WBMDTCL								0.265	**0.265**
West Bengal	SOVA								0.086	**0.086**
West Bengal	**TOTAL**	0.039	21.400	**21.439**	0.047	23.156	**23.203**	0.027	26.659	**26.686**
Total Public		**41.925**	**434.135**	**476.060**	**44.315**	**442.585**	**486.900**	**48.557**	**471.769**	**520.326**
Total Private		**7.025**	**40.380**	**47.405**	**7.408**	**40.991**	**48.399**	**7.302**	**39.508**	**46.810**
All India		**48.950**	**474.515**	**523.465**	**51.723**	**483.576**	**535.299**	**55.859**	**511.277**	**567.136**

TABLE 4.12: GRADEWISE DESPATCHES OF COKING COAL BY COMPANIES DURING 2012-13

(Million Tonnes)

Companies	PRODUCTION OF COKING COAL										
	Steel-I	Steel-II	SC-1	Wash-I	Wash-II	Wash-III	Wash-IV	SLV1	Met.Coal	Non Met	**Total Coking**
ECL			0.011			0.032			0.011	0.032	**0.043**
BCCL	0.075	1.671		0.297	1.358	8.417	17.149	0.003	4.084	24.886	**28.970**
CCL					0.034	2.907	15.538		2.528	15.951	**18.479**
NCL											**0.000**
WCL					0.317				0.281	0.036	**0.317**
SECL			0.155							0.155	**0.155**
MCL											**0.000**
NEC											**0.000**
CIL	**0.075**	**1.671**	**0.166**	**0.297**	**1.709**	**11.356**	**32.687**	**0.003**	**6.904**	**41.060**	**47.964**
SCCL											**0.000**
JKML											**0.000**
JSMDCL											**0.000**
DVC											**0.000**
DVC EMTA											**0.000**
IISCO						0.032	0.528		0.560	0.000	**0.560**
SAIL							0.033		0.033	0.000	**0.033**
APMDTCL											**0.000**
WBPDCL											**0.000**
RRUVNL											**0.000**
WBMDTCL											**0.000**
PUBLIC	**0.075**	**1.671**	**0.166**	**0.297**	**1.709**	**11.388**	**33.248**	**0**	**7.497**	**41.060**	**48.557**
BECML											**0.000**
ICML											**0.000**
JSPL											**0.000**
HIL											**0.000**
Meghalaya											**0.000**
TISCO					0.103	1.947	5.183		7.233	0.000	**7.233**
MIL											**0.000**
BLA											**0.000**
CML											**0.000**
PANEM											**0.000**
PIL											**0.000**
JNL											**0.000**
JPL											**0.000**
SIL											**0.000**
ESCL							0.069			0.069	**0.069**
UML											**0.000**
KECML											**0.000**
SEML											**0.000**
BSIL											**0.000**
TUML											**0.000**
SPL											**0.000**
SOVA											**0.000**
GVK											**0.000**
PRIVATE	**0.000**	**0.000**	**0.000**	**0.000**	**0.103**	**1.947**	**5.252**	**0.000**	**7.233**	**0.069**	**7.302**
India (12-13)	**0.075**	**1.671**	**0.166**	**0.297**	**1.812**	**13.335**	**38.500**	**0.003**	**14.730**	**41.129**	**55.859**

Meghalaya Coal has not been graded by Coal Controller. For Statistical purpose grade may be treated as "A" / "B" non-coking coal.

TABLE 4.12A: GRADEWISE DESPATCHES OF NON COKING COAL BY COMPANIES DURING 2012-13

(Quantity in Million Tonnes)

Companies	PRODUCTION OF NON-COKING COAL																	Total N-coking	Total Coal
	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16	G17		
ECL		0.080	1.332	11.977	4.628	1.871	0.579	0.358			14.676							**35.501**	**35.544**
BCCL		0.066	0.888	0.100	0.407	2.506	0.049				0.011							**4.027**	**32.997**
CCL			0.068	0.691	2.873	0.176	1.135	3.470	21.767	4.006	0.221							**34.407**	**52.886**
NCL					0.915	0.122	16.030	8.953		41.001								**67.021**	**67.021**
WCL				0.033	0.512	1.730	3.235	8.935	26.777									**41.222**	**41.539**
SECL			2.697	5.534	6.958	7.810	4.419	1.026		9.887	75.188	8.299						**121.818**	**121.973**
MCL					0.416		0.030	0.934	0.320	9.276	6.474	45.775	48.734					**111.959**	**111.959**
NEC	0.224	0.328		0.066														**0.618**	**0.618**
CIL	**0.224**	**0.474**	**4.985**	**18.401**	**16.709**	**14.215**	**25.477**	**23.676**	**48.864**	**64.170**	**96.570**	**54.074**	**48.734**	**0.000**	**0.000**	**0.000**	**0.000**	**416.573**	**464.537**
SCCL		0.034			0.680		8.689		17.824		10.361		12.584		1.332		0.521	**52.025**	**52.025**
JKML																	0.014	**0.014**	**0.014**
JSMDCL																		**0.000**	**0.000**
DVC				0.226														**0.226**	**0.226**
DVC EMTA						0.553	1.291											**1.844**	**1.844**
IISCO		0.014		0.029					0.113									**0.156**	**0.716**
SAIL															0.064			**0.064**	**0.097**
APMDTCL																	0.055	**0.055**	**0.055**
WBPDCL				0.254														**0.254**	**0.254**
RRUVNL												0.293						**0.293**	**0.293**
WBMDTCL				0.23	0.035													**0.265**	**0.265**
PUBLIC	**0.224**	**0.522**	**4.985**	**19.140**	**17.424**	**14.768**	**35.457**	**23.676**	**66.801**	**64.170**	**106.931**	**54.367**	**61.318**	**0.000**	**1.396**	**0.000**	**0.590**	**471.769**	**520.326**
BECML						3.002												**3.002**	**3.002**
ICML											3.221							**3.221**	**3.221**
JSPL												0.888			1.414		3.697	**5.999**	**5.999**
HIL													1.544	0.710				**2.254**	**2.254**
Meghalaya	5.640																	**5.640**	**5.640**
TISCO																	0.081	**0.081**	**7.314**
MIL							0.421					0.377						**0.798**	**0.798**
BLA					0.007	0.048	0.056			0.137	0.052							**0.300**	**0.300**
CML																		**0.000**	**0.000**
PANEM						2.405		3.436	1.031									**6.872**	**6.872**
PIL									1.000									**1.000**	**1.000**
JNL									0.372			0.107						**0.479**	**0.479**
JPL												1.977		1.635		1.476		**5.088**	**5.088**
SIL									0.244									**0.244**	**0.244**
ESCL																	0.005	**0.005**	**0.074**
UML						0.564												**0.564**	**0.564**
KECML									2.515									**2.515**	**2.515**
SEML												0.131		0.734			0.028	**0.893**	**0.893**
BSIL													0.019					**0.019**	**0.019**
TUML															0.367			**0.367**	**0.367**
SPL											0.081							**0.081**	**0.081**
SOVA								0.086										**0.086**	**0.086**
GVK																		**0.000**	**0.000**
PRIVATE	**5.640**	**0.000**	**0.000**	**0.000**	**0.007**	**6.019**	**0.477**	**3.522**	**5.162**	**0.137**	**3.354**	**3.480**	**1.563**	**3.079**	**1.781**	**1.476**	**3.811**	**39.508**	**46.810**
India (12-13)	**5.864**	**0.522**	**4.985**	**19.140**	**17.431**	**20.787**	**35.934**	**27.198**	**71.963**	**64.307**	**110.285**	**57.847**	**62.881**	**3.079**	**3.177**	**1.476**	**4.401**	**511.277**	**567.136**

Meghalaya Coal has not been graded by Coal Controller. For Statistical purpose grade may be treated as "A" / "B" non-coking coal.

TABLE 4.13: GRADEWISE DESPATCHES OF COKING COAL AND NON-COKING COAL BY STATES IN 2012-13

(Quantity in Million Tonnes)

Grade	Andhra Pradesh	Arunachal Pradesh	Assam	Chhattisgarh	Jammu & Kashmir	Jharkhand	Madhya Pradesh	Maharashtra	Meghalaya	Orissa	Uttar Pradesh	West Bengal	**India (12-13)**
(1)	**(2)**	**(3)**	**(4)**	**(5)**	**(6)**	**(7)**	**(8)**	**(9)**	**(10)**	**(11)**	**(12)**	**(13)**	**(14)**
Steel-I						0.059						0.016	**0.075**
Steel-II						1.671							**1.671**
SC-I				0.155								0.011	**0.166**
Wash-I						0.297							**0.297**
Wash-II						1.495	0.317						**1.812**
Wash-III						13.335							**13.335**
Wash-IV						38.500							**38.500**
SLV1						0.003							**0.003**
Met.Coal						**14.422**	**0.281**					**0.027**	**14.730**
Non Met	**0.000**	**0.000**	**0.000**	**0.155**	**0.000**	**40.938**	**0.036**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**41.129**
Tot Ckg.	**0.000**	**0.000**	**0.000**	**0.155**	**0.000**	**55.360**	**0.317**	**0.000**	**0.000**	**0.000**	**0.000**	**0.027**	**55.859**
G1			0.224						5.640				**5.864**
G2	0.034		0.328			0.066						0.094	**0.522**
G3				1.338		1.298	1.359					0.990	**4.985**
G4			0.066	3.717		1.015	1.850					12.492	**19.140**
G5	0.680			4.682		4.864	3.257	0.295		0.416	0.158	3.079	**17.431**
G6				1.809		6.123	6.882	0.897			0.122	4.954	**20.787**
G7	8.689			0.828		1.425	18.651	1.342		0.030	3.340	1.629	**35.934**
G8				1.026		7.263	1.659	7.276		0.934	8.953	0.087	**27.198**
G9	17.824			1.372		22.798	1.416	28.120		0.320		0.113	**71.963**
G10				9.887		4.006	24.887			9.276	16.251		**64.307**
G11	10.361			75.188		14.908	0.133			6.474		3.221	**110.285**
G12				12.072						45.775			**57.847**
G13	12.584							0.019		50.278			**62.881**
G14				2.369						0.710			**3.079**
G15	1.332			1.414		0.064		0.367					**3.177**
G16				1.476									**1.476**
G17	0.521	0.055		3.725	0.014	0.086							**4.401**
Tot. Nckg	**52.025**	**0.055**	**0.618**	**120.903**	**0.014**	**63.916**	**60.094**	**38.316**	**5.640**	**114.213**	**28.824**	**26.659**	**511.277**
Total Coal	**52.025**	**0.055**	**0.618**	**121.058**	**0.014**	**119.276**	**60.411**	**38.316**	**5.640**	**114.213**	**28.824**	**26.686**	**567.136**

Note: (1) Meghalaya Coal has not been graded by Coal Controller. For Statistical purpose grade may be treated as "A" Non-coking coal.

TABLE 4.14: GRADEWISE DESPATCHES OF COKING COAL AND NON COKING COAL IN INDIA DURING LAST TEN YEARS

(Quantity in Million Tonnes)

Type	Grade	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	New Grade	2012-13
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)
COKING COAL	Steel-I	0.191	0.146	0.130	0.133	0.089	0.064	0.091	0.224	0.092		0.075
	Steel-II	0.099	0.106	0.976	0.512	0.280	0.871	1.057	1.226	1.271		1.671
	SC-1	0.212	0.204	0.188	0.188	0.178	0.171	0.158	0.170	0.204		0.166
	Wash-I	0.373	0.329	0.228	0.275	0.462	0.309	0.291	0.193	0.185		0.297
	Wash-II	4.294	2.622	4.490	3.242	2.106	2.551	1.756	1.601	1.816		1.812
	Wash-III	5.848	7.217	5.742	6.893	7.212	7.841	9.114	10.432	13.730		13.335
	Wash-IV	19.876	20.008	18.586	20.600	23.014	23.865	30.000	35.081	34.425		38.500
	SLV1	0.000	0.116	0.197	0.084	0.202	0.052	0.002	0.023	0.000		0.003
	Met.Coal	16.651	17.559	16.495	16.334	16.438	15.061	15.144	16.075	15.903		14.730
	Non Met	14.242	13.189	14.042	15.593	17.105	20.663	27.325	32.875	35.820		41.129
	Total Coking	**30.893**	**30.748**	**30.537**	**31.927**	**33.543**	**35.724**	**42.469**	**48.950**	**51.723**		**55.859**
NON - COKING COAL	A	3.707	3.704	4.360	4.825	4.650	4.023	10.266	11.772	14.678	G1	5.864
	B	23.198	24.342	23.556	23.524	24.717	26.024	27.689	25.648	60.175	G2	0.522
	C	49.252	48.467	48.680	52.197	53.177	46.101	53.242	54.760	28.050	G3	4.985
	D	42.088	43.072	43.215	42.543	47.928	53.338	52.679	49.524	51.887	G4	19.140
	E	75.444	80.282	90.436	93.693	101.850	117.612	118.933	117.677	106.834	G5	17.431
	F	124.045	137.959	142.501	157.304	174.411	191.143	205.325	207.576	197.845	G6	20.787
	SLV	3.648	2.254	6.501	7.652	6.375	8.833	2.712			G7	35.934
	G	0.067					0.437		6.075	13.386	G8	27.198
	Ungr	5.650	7.830	5.801	6.135	6.916	5.937	0.477	1.483	10.721	G9	71.963
											G10	64.307
											G11	110.285
											G12	57.847
											G13	62.881
											G14	3.079
											G15	3.177
											G16	1.476
											G17	4.401
	Total Non Coking	**327.099**	**347.910**	**365.050**	**387.873**	**420.024**	**453.448**	**471.323**	**474.515**	**483.576**		**511.277**
TOTAL COAL		**357.992**	**378.658**	**395.587**	**419.800**	**453.567**	**489.172**	**513.792**	**523.465**	**535.299**		**567.136**

Note: (1) Meghalaya Coal has not been graded by Coal Controller. For Statistical purpose grade may be treated as "A" Non-coking coal.

TABLE 4.15: MODEWISE COMPANYWISE DESPATCHES OF COAL (External & Internal) /COAL PRODUCTS (Washed Coal & Middlings) in 2012-13

(Quantity in Million Tonnes)

Company	Raw Coal/Coal Product	YEAR 2012-13 (External)							YEAR 2012-13 (Internal)							Grand Total
		RAIL	ROAD	BELT	ROPE	MGR	Other	TOTAL	RAIL	ROAD	BELT	ROPE	MGR	Other	TOTAL	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
ECL	RC	24.159	2.118			9.267		**35.544**							**0.000**	**35.544**
BCCL	RC	23.499	6.511					**30.010**	1.110	1.877					**2.987**	**32.997**
BCCL	CP	2.515	0.278					**2.793**							**0.000**	**2.793**
CCL	RC	28.618	13.628					**42.246**		10.640					**10.640**	**52.886**
CCL	CP	9.640	0.136					**9.776**							**0.000**	**9.776**
NCL	RC	22.213	5.877			34.710		**62.800**		4.221					**4.221**	**67.021**
NCL	CP	3.957						**3.957**							**0.000**	**3.957**
WCL	RC	21.126	15.413	0.989	2.760	0.970		**41.258**						0.281	**0.281**	**41.539**
WCL	CP	0.246						**0.246**							**0.000**	**0.246**
SECL	RC	45.325	43.709	5.082		24.553	3.304	**121.973**							**0.000**	**121.973**
MCL	RC	68.728	25.219	1.820		16.192		**111.959**							**0.000**	**111.959**
NEC	RC	0.505	0.113					**0.618**							**0.000**	**0.618**
CIL	**RC**	**234.173**	**112.588**	**7.891**	**2.760**	**85.692**	**3.304**	**446.408**	**1.110**	**16.738**	**0.000**	**0.000**	**0.000**	**0.281**	**18.129**	**464.537**
CIL	**CP**	**16.358**	**0.414**	**0.000**	**0.000**	**0.000**	**0.000**	**16.772**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**16.772**
SCCL	RC	27.039	15.116		0.449	9.421		**52.025**							**0.000**	**52.025**
JKML	RC		0.014					**0.014**							**0.000**	**0.014**
JSMDCL	RC							**0.000**							**0.000**	**0.000**
DVC	RC		0.226					**0.226**							**0.000**	**0.226**
DVCEMTA	RC		1.844					**1.844**							**0.000**	**1.844**
IISCO	RC		0.156					**0.156**		0.463	0.065	0.032			**0.560**	**0.716**
IISCO	CP	0.690						**0.690**							**0.000**	**0.690**
SAIL	RC	0.064	0.033					**0.097**							**0.000**	**0.097**
APMDTCL	RC		0.055					**0.055**							**0.000**	**0.055**
WBPDCL	RC	0.254						**0.254**							**0.000**	**0.254**
RRUVNL	RC							**0.000**						0.293	**0.293**	**0.293**
RRUVNL	CP		0.313					**0.313**							**0.000**	**0.313**
WBMDTCL	RC		0.265					**0.265**							**0.000**	**0.265**
PUBLIC	**RC**	**261.530**	**130.297**	**7.891**	**3.209**	**95.113**	**3.304**	**501.344**	**1.110**	**17.201**	**0.065**	**0.032**	**0.000**	**0.574**	**18.982**	**520.326**
PUBLIC	**CP**	**17.048**	**0.727**	**0.000**	**0.000**	**0.000**	**0.000**	**17.775**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**17.775**
BECML	RC	3.002						**3.002**							**0.000**	**3.002**
ICML	RC		3.221					**3.221**							**0.000**	**3.221**
JSPL	RC		0.271					**0.271**			5.728				**5.728**	**5.999**
JSPL	CP		6.485					**6.485**							**0.000**	**6.485**
HIL	RC		2.254					**2.254**							**0.000**	**2.254**
MEG	RC		5.640					**5.640**							**0.000**	**5.640**
TISCO	RC							**0.000**		0.551	4.582	2.181			**7.314**	**7.314**
TISCO	CP	6.097	0.054					**6.151**							**0.000**	**6.151**
MIL	RC		0.798					**0.798**							**0.000**	**0.798**
BLA	RC							**0.000**		0.300					**0.300**	**0.300**
BLA	CP		0.285					**0.285**							**0.000**	**0.285**
CML	RC							**0.000**							**0.000**	**0.000**
PANEM	RC	6.872						**6.872**							**0.000**	**6.872**
PIL	RC		1.000					**1.000**							**0.000**	**1.000**
JNL	RC	0.056	0.423					**0.479**							**0.000**	**0.479**
JPL	RC			4.924				**4.924**			0.164				**0.164**	**5.088**
JPL	CP			0.109				**0.109**							**0.000**	**0.109**
SIL	RC	0.244						**0.244**							**0.000**	**0.244**
ESCL	RC		0.074					**0.074**							**0.000**	**0.074**
ESCL	CP		0.020					**0.020**							**0.000**	**0.020**
UML	RC		0.564					**0.564**							**0.000**	**0.564**
KEMTA	RC	2.515						**2.515**							**0.000**	**2.515**
SEML	RC	0.202	0.026					**0.228**		0.665					**0.665**	**0.893**
SEML	CP	0.214	0.399					**0.613**							**0.000**	**0.613**
BSIL	RC		0.019					**0.019**							**0.000**	**0.019**
TUML	RC		0.367					**0.367**							**0.000**	**0.367**
SPL	RC		0.081					**0.081**							**0.000**	**0.081**
SOVA	RC		0.086					**0.086**							**0.000**	**0.086**
PRIVATE	**RC**	**12.891**	**14.824**	**4.924**	**0.000**	**0.000**	**0.000**	**32.639**	**0.000**	**1.516**	**10.474**	**2.181**	**0.000**	**0.000**	**14.171**	**46.810**
PRIVATE	**CP**	**6.311**	**7.243**	**0.109**	**0.000**	**0.000**	**0.000**	**13.663**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**13.663**
ALL INDIA	**RC**	**274.421**	**145.121**	**12.815**	**3.209**	**95.113**	**3.304**	**533.983**	**1.110**	**18.717**	**10.539**	**2.213**	**0.000**	**0.574**	**33.153**	**567.136**
ALL INDIA	**CP**	**23.359**	**7.970**	**0.109**	**0.000**	**0.000**	**0.000**	**31.438**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**31.438**

TABLE 4.16A: COMPANYWISE OFF-TAKE OF RAW COAL TO DIFFERENT PRIORITY SECTORS (INCLUDING WASHERIES) DURING 2012-13

(Quantity in Million Tonnes)

Company	Power (Utility)	Power (Captive)	Metallurgical Use			Non Coking Washery	Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	**Total Despatches**	Colliery Own - Consumption	Colliery Staff	**Total Offtake**
			Direct Feed	Coking Washery	Cokeries															
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	**(18)**	(19)	(20)	**(21)**
ECL	30.024	0.236	0.011				0.313	0.116		0.275			0.059	0.003	0.025	4.482	**35.544**	0.301		**35.845**
BCCL	25.280	0.058	0.026	2.987					1.116							3.530	**32.997**	0.064	0.012	**33.073**
CCL	31.555	1.424		3.967	0.121	7.719			0.644	1.081		0.033	0.001			6.341	**52.886**	0.006		**52.892**
NCL	56.670	3.922				4.221		0.170		0.105					1.933		**67.021**			**67.021**
WCL	30.081	1.625	0.281		0.036			2.060		0.356		0.100	0.521	0.085		6.394	**41.539**	0.007		**41.546**
SECL	86.491	11.083	0.250				0.176	4.448	0.690	4.259			0.259	0.046		14.271	**121.973**	0.015		**121.988**
MCL	73.135	15.029						0.348	0.061	4.625	0.491	0.012	0.355			17.903	**111.959**	0.005		**111.964**
NEC	0.229	0.015						0.026					0.049			0.299	**0.618**			**0.618**
CIL	**333.465**	**33.392**	**0.568**	**6.954**	**0.157**	**11.940**	**0.489**	**7.168**	**2.511**	**10.701**	**0.491**	**0.145**	**1.244**	**0.134**	**1.958**	**53.220**	**464.537**	**0.398**	**0.012**	**464.947**
SCCL	38.101	3.137						5.642		0.598		0.205	0.848	0.167	0.007	3.320	**52.025**	0.055		**52.080**
JKML								0.002						0.001	0.011		**0.014**			**0.014**
JSMDCL																	**0.000**			**0.000**
DVC		0.226															**0.226**		0.001	**0.227**
DVCEMTA		1.844															**1.844**			**1.844**
IISCO				0.560			0.100									0.056	**0.716**			**0.716**
SAIL		0.064		0.033													**0.097**			**0.097**
APMDTCL																0.055	**0.055**			**0.055**
WBPDCL		0.254															**0.254**			**0.254**
RRUVNL						0.293											**0.293**			**0.293**
WBMDTCL							0.051	0.001		0.097			0.026	0.002	0.025	0.063	**0.265**			**0.265**
PUBLIC	**371.566**	**38.917**	**0.568**	**7.547**	**0.157**	**12.233**	**0.640**	**12.813**	**2.511**	**11.396**	**0.491**	**0.350**	**2.118**	**0.304**	**2.001**	**56.714**	**520.326**	**0.453**	**0.013**	**520.792**
BECML		3.002															**3.002**			**3.002**
ICML	3.221																**3.221**			**3.221**
JSPL						5.728				0.271							**5.999**			**5.999**
HIL		2.254															**2.254**			**2.254**
MEG																5.640	**5.640**			**5.640**
TISCO				7.233	0.000	0.081											**7.314**	0.001	0.000	**7.315**
MIL										0.798							**0.798**			**0.798**
BLA						0.300											**0.300**			**0.300**
CML																				**0.000**
PANEM		6.872															**6.872**			**6.872**
PIL										1.000							**1.000**			**1.000**
JNL										0.479							**0.479**		0.001	**0.480**
JPL		4.924				0.164											**5.088**			**5.088**
SIL										0.244							**0.244**			**0.244**
ESCL										0.069					0.005		**0.074**			**0.074**
UML										0.564							**0.564**			**0.564**
KEMTA		2.515															**2.515**			**2.515**
SEML		0.097				0.665				0.131							**0.893**			**0.893**
BSIL										0.019							**0.019**			**0.019**
TUML		0.163				0.204											**0.367**			**0.367**
SPL		0.081															**0.081**			**0.081**
SOVA		0.009									0.077						**0.086**			**0.086**
PRIVATE	**3.221**	**19.917**	**0.000**	**7.233**	**0.000**	**7.142**	**0.000**	**0.000**	**0.000**	**3.575**	**0.077**	**0.000**	**0.000**	**0.000**	**0.005**	**5.640**	**46.810**	**0.001**	**0.001**	**46.812**
ALL INDIA	**374.787**	**58.834**	**0.568**	**14.780**	**0.157**	**19.375**	**0.640**	**12.813**	**2.511**	**14.971**	**0.568**	**0.350**	**2.118**	**0.304**	**2.006**	**62.354**	**567.136**	**0.454**	**0.014**	**567.604**

TABLE 4.16B: COMPANYWISE OFF-TAKE OF LIGNITE TO DIFFERENT PRIORITY SECTORS DURING 2012-13

(Quantity in Million Tonnes)

Company	Power (Utility)	Power (Captive)	Metallurgical Use			Non Coking Washery	Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	**Total Despatches**	Colliery Own - Consumption	Colliery Staff	**Total Offtake**
			Direct Feed	Coking Washery	Cokeries															
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	**(18)**	(19)	(20)	**(21)**
GIPCL		3.482															**3.482**			**3.482**
GMDCL	0.597	2.845						0.254	0.001			0.562	0.667	3.401	0.857	1.721	**10.905**			**10.905**
GHCL		0.283															**0.283**			**0.283**
NLCL	22.936	1.900					0.049	0.668				0.018	0.027	0.003	0.009	0.081	**25.691**			**25.691**
RSMML		0.591						0.175				0.013		0.064		0.544	**1.387**			**1.387**
VSLPPL		0.815															**0.815**			**0.815**
BLMCL		3.750															**3.750**			**3.750**
ALL INDIA	**23.533**	**13.666**	**0.000**	**0.000**	**0.000**	**0.000**	**0.049**	**1.097**	**0.001**	**0.000**	**0.000**	**0.593**	**0.694**	3.468	**0.866**	**2.346**	**46.313**	**0.000**	**0.000**	**46.313**

TABLE 4.17A: COMPANYWISE OFF-TAKE OF RAW COAL TO DIFFERENT PRIORITY SECTORS DURING 2012-13

(Quantity in Million Tonnes)

Company	Power (Utility)	Power (Captive)	Steel(Direct Feed)	Steel (coke oven plants & cokeries)	Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	**Total Despatches**	Colliery Own - Consumption	Colliery Staff	**Total Offtake**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	**(16)**	(17)	(18)	**(19)**
ECL	30.024	0.236	0.011		0.313	0.116		0.275			0.059	0.003	0.025	4.482	35.544	0.301		35.845
BCCL	25.280	0.058	0.026	2.987			1.116							3.530	32.997	0.064	0.012	33.073
CCL	39.274	1.424		4.088			0.644	1.081		0.033	0.001			6.341	52.886	0.006		52.892
NCL	60.891	3.922				0.170		0.105					1.933		67.021			67.021
WCL	30.081	1.625	0.281	0.036		2.060		0.356		0.100	0.521	0.085		6.394	41.539	0.007		41.546
SECL	86.491	11.083	0.250		0.176	4.448	0.690	4.259			0.259	0.046		14.271	121.973	0.015		121.988
MCL	73.135	15.029				0.348	0.061	4.625	0.491	0.012	0.355			17.903	111.959	0.005		111.964
NEC	0.229	0.015				0.026					0.049			0.299	0.618			0.618
CIL	**345.405**	**33.392**	**0.568**	**7.111**	**0.489**	**7.168**	**2.511**	**10.701**	**0.491**	**0.145**	**1.244**	**0.134**	**1.958**	**53.220**	**464.537**	**0.398**	**0.012**	**464.947**
SCCL	38.101	3.137				5.642		0.598		0.205	0.848	0.167	0.007	3.320	52.025	0.055		52.080
JKML						0.002						0.001	0.011		0.014			0.014
JSMDCL															0.000			0.000
DVC		0.226													0.226		0.001	0.227
DVCEMTA		1.844													1.844			1.844
IISCO	0.000	0.000		0.560	0.100									0.056	0.716	0.000	0.000	0.716
SAIL		0.064		0.033											0.097			0.097
APMDTCL														0.055	0.055			0.055
WBPDCL		0.254													0.254			0.254
RRUVNL	0.293														0.293			0.293
WBMDTCL					0.051	0.001		0.097			0.026	0.002	0.025	0.063	0.265			0.265
PUBLIC	**383.799**	**38.917**	**0.568**	**7.704**	**0.640**	**12.813**	**2.511**	**11.396**	**0.491**	**0.350**	**2.118**	**0.304**	**2.001**	**56.714**	**520.326**	**0.453**	**0.013**	**520.792**
BECML		3.002													3.002			3.002
ICML	3.221														3.221			3.221
JSPL								5.999							5.999			5.999
HIL		2.254													2.254			2.254
MEG														5.640	5.640			5.640
TISCO	0.081			7.233											7.314	0.001	0.000	7.315
MIL								0.798							0.798			0.798
CML															0.000			0.000
BLA						0.300									0.300			0.300
PANEM		6.872													6.872			6.872
PIL								1.000							1.000			1.000
JNL								0.479							0.479		0.001	0.480
JPL		5.088													5.088			5.088
SIL								0.244							0.244			0.244
ESCL								0.069					0.005		0.074			0.074
UML								0.564							0.564			0.564
KEMTA		2.515													2.515			2.515
SEML	0.665	0.097						0.131							0.893			0.893
BSIL								0.019							0.019			0.019
TUML		0.163						0.204							0.367			0.367
SPL		0.081													0.081			0.081
SOVA		0.009							0.077						0.086			0.086
PRIVATE	**3.967**	**20.081**	**0.000**	**7.233**	**0.000**	**0.300**	**0.000**	**9.507**	**0.077**	**0.000**	**0.000**	**0.000**	**0.005**	**5.640**	**46.810**	**0.001**	**0.001**	**46.812**
ALL INDIA	**387.766**	**58.998**	**0.568**	**14.937**	**0.640**	**13.113**	**2.511**	**20.903**	**0.568**	**0.350**	**2.118**	**0.304**	**2.006**	**62.354**	**567.136**	**0.454**	**0.014**	**567.604**

TABLE 4.17B: COMPANYWISE OFF-TAKE OF LIGNITE TO DIFFERENT PRIORITY SECTORS DURING 2012-13

(Quantity in Million Tonnes)

Company	Power (Utility)	Power (Captive)	Steel(Direct Feed)	Steel (coke oven plants & cokeries)	Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	**Total Despatches**	Colliery Own - Consumption	Colliery Staff	**Total Offtake**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	**(16)**	(17)	(18)	**(19)**
GIPCL		3.482													**3.482**			**3.482**
GMDCL	0.597	2.845				0.254	0.001			0.562	0.667	3.401	0.857	1.721	**10.905**			**10.905**
GHCL		0.283													**0.283**			**0.283**
NLCL	22.936	1.900			0.049	0.668				0.018	0.027	0.003	0.009	0.081	**25.691**			**25.691**
RSMML		0.591				0.175				0.013		0.064		0.544	**1.387**			**1.387**
VSLPPL		0.815													**0.815**			**0.815**
BLMCL		3.750													**3.750**			**3.750**
ALL INDIA	**23.533**	**13.666**	**0.000**	**0.000**	**0.049**	**1.097**	**0.001**	**0.000**	**0.000**	**0.593**	**0.694**	**3.468**	**0.866**	**2.346**	**46.313**	**0.000**	**0.000**	**46.313**

TABLE-4.18A: SECTORWISE OFFTAKE OF COKING COAL (RAW COAL, WASHED COAL & MIDDLING) FOR FINAL CONSUMPTION - COMPANYWISE IN 2012-13

(Quantity in Million Tonnes)

COMPANY	Type of coal/ coal products/Lignite	Power (Utility)	Power (Captive)	Metallurgical Use		Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	**Total Despatches**	Colliery Own - Consumption	Colliery Staff	**Total Offtake**
				Direct Feed	Cokeries														
(1)	(2)	(3)	(4)	(5)	(7)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	**(19)**	(20)	(21)	**(22)**
ECL	RCE	0.001		0.011											0.031	**0.043**			**0.043**
ECL	**TOT**	**0.001**	**0.000**	**0.011**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.031**	**0.043**	**0.000**	**0.000**	**0.043**
BCCL	RCE	21.893	0.058	0.026				0.915							3.091	**25.983**	0.057	0.011	**26.051**
BCCL	WC			1.347												**1.347**			**1.347**
BCCL	MID	0.439	0.682													**1.121**			**1.121**
BCCL	**TOT**	**22.332**	**0.740**	**1.373**	**0.000**	**0.000**	**0.000**	**0.915**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**3.091**	**28.451**	**0.057**	**0.011**	**28.519**
CCL	RCE	12.155			1.167			0.325							1.911	**15.558**			**15.558**
CCL	WC				1.288											**1.288**			**1.288**
CCL	MID	0.444	0.461		0.249											**1.154**			**1.154**
CCL	**TOT**	**12.599**	**0.461**	**0.000**	**2.704**	**0.000**	**0.000**	**0.325**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**1.911**	**18.000**	**0.000**	**0.000**	**18.000**
WCL	RCE				0.036											**0.036**	0.001		**0.037**
WCL	WC				0.145											**0.145**			**0.145**
WCL	MID	0.101														**0.101**			**0.101**
WCL	**TOT**	**0.101**	**0.000**	**0.000**	**0.181**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.282**	**0.001**	**0.000**	**0.283**
SECL	RCE			0.155												**0.155**			**0.155**
SECL	TOT	**0.000**	**0.000**	**0.155**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.155**	**0.000**	**0.000**	**0.155**
CIL	**RCE**	**34.049**	**0.058**	**0.192**	**1.203**			**1.240**							**5.033**	**41.775**	**0.058**	**0.011**	**41.844**
CIL	**WC**			**1.347**	**1.433**											**2.780**			**2.780**
CIL	**MID**	**0.984**	**1.143**		**0.249**											**2.376**			**2.376**
CIL	**TOT**	**35.033**	**1.201**	**1.539**	**2.885**	**0.000**	**0.000**	**1.240**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**5.033**	**46.931**	**0.058**	**0.011**	**47.000**
IISCO	WC				0.443											**0.443**			**0.443**
IISCO	MID					0.247										**0.247**			**0.247**
IISCO	**TOT**	**0.000**	**0.000**	**0.000**	**0.443**	**0.247**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.690**	**0.000**	**0.000**	**0.690**
SAIL	RCE				0.033											**0.033**			**0.033**
SAIL	**TOT**	**0.000**	**0.000**	**0.000**	**0.033**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.033**	**0.000**	**0.000**	**0.033**
PUBLIC	**RCE**	**34.049**	**0.058**	**0.192**	**1.236**			**1.240**							**5.033**	**41.808**	**0.058**	**0.011**	**41.877**
PUBLIC	**WC**			**1.347**	**1.876**											**3.223**			**3.223**
PUBLIC	**MID**	**0.984**	**1.143**		**0.249**	**0.247**										**2.623**			**2.623**
PUBLIC	**TOT**	**35.033**	**1.201**	**1.539**	**3.361**	**0.247**	**0.000**	**1.240**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**5.033**	**47.654**	**0.058**	**0.011**	**47.723**
TISCO	RCE															**0.000**	0.001		**0.001**
TISCO	WC				3.382											**3.382**			**3.382**
TISCO	MID	2.402	0.130												0.237	**2.769**			**2.769**
TISCO	**TOT**	**2.402**	**0.130**	**0.000**	**3.382**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.237**	**6.151**	**0.001**	**0.000**	**6.152**
ESCL	RCE								0.069							**0.069**			**0.069**
ESCL	WC				0.009											**0.009**			**0.009**
ESCL	MID	0.011														**0.011**			**0.011**
ESCL	**TOT**	**0.011**	**0.000**	**0.000**	**0.009**	**0.000**	**0.000**	**0.000**	**0.069**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.089**	**0.000**	**0.000**	**0.089**
PRIVATE	**RCE**								**0.069**							**0.069**	**0.001**		**0.070**
PRIVATE	**WC**				**3.391**											**3.391**			**3.391**
PRIVATE	**MID**	**2.413**	**0.130**												**0.237**	**2.780**			**2.780**
PRIVATE	**TOT**	**2.413**	**0.130**	**0.000**	**3.391**	**0.000**	**0.000**	**0.000**	**0.069**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.237**	**6.240**	**0.001**	**0.000**	**6.241**
ALL INDIA	**RCE**	**34.049**	**0.058**	**0.192**	**1.236**			**1.240**	**0.069**						**5.033**	**41.877**	**0.059**	**0.011**	**41.947**
ALL INDIA	**WC**			**1.347**	**5.267**											**6.614**			**6.614**
ALL INDIA	**MID**	**3.397**	**1.273**		**0.249**	**0.247**									**0.237**	**5.403**			**5.403**
ALL INDIA	**TOT**	**37.446**	**1.331**	**1.539**	**6.752**	**0.247**	**0.000**	**1.240**	**0.069**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**5.270**	**53.894**	**0.059**	**0.011**	**53.964**

TABLE-4.18B: SECTORWISE OFFTAKE OF NON-COKING COAL (RAW COAL, WASHED COAL & MIDDLING) FOR FINAL CONSUMPTION-COMPANYWISE IN 2012-13

(Quantity in Million Tonnes)

COMPANY	Type of coal/ coal products/Lignite	Power (Utility)	Power (Captive)	Direct Feed	Cokeries	Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	**Total Despatches**	Colliery Own - Consumption	Colliery Staff	**Total Offtake**	**Total Offtake**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	**(15)**	(16)	**(17)**	**(18)**	**(19)**	**(20)**	**(20)**
ECL	RCE	30.023	0.236			0.313	0.116		0.275			0.059	0.003	0.025	4.451	**35.501**	0.301		35.802	**35.802**
ECL	TOT	30.023	0.236	0.000	0.000	0.313	0.116	0.000	0.275	0.000	0.000	0.059	0.003	0.025	4.451	**35.501**	0.301	0.000	35.802	**35.802**
BCCL	RCE	3.387						0.201							0.439	**4.027**	0.007	0.001	4.035	**4.035**
BCCL	MID	0.076	0.249													**0.325**			0.325	**0.325**
BCCL	TOT	3.463	0.249	0.000	0.000	0.000	0.000	0.201	0.000	0.000	0.000	0.000	0.000	0.000	0.439	**4.352**	0.007	0.001	4.360	**4.360**
CCL	RCE	19.400	1.424					0.319	1.081		0.033	0.001			4.430	**26.688**			26.688	**26.688**
CCL	WC	7.024	0.310													**7.334**			7.334	**7.334**
CCL	TOT	26.424	1.734	0.000	0.000	0.000	0.000	0.319	1.081	0.000	0.033	0.001	0.000	0.000	4.430	**34.022**	0.000	0.000	34.022	**34.022**
NCL	RCE	56.670	3.922				0.170		0.105					1.933		**62.800**			62.800	**62.800**
NCL	WC	3.957														**3.957**			3.957	**3.957**
NCL	TOT	60.627	3.922	0.000	0.000	0.000	0.170	0.000	0.105	0.000	0.000	0.000	0.000	1.933	0.000	**66.757**	0.000	0.000	66.757	**66.757**
WCL	RCE	30.081	1.625				2.060		0.356		0.100	0.521	0.085		6.394	**41.222**	0.006		41.228	**41.228**
WCL	TOT	30.081	1.625	0.000	0.000	0.000	2.060	0.000	0.356	0.000	0.100	0.521	0.085	0.000	6.394	**41.222**	0.006	0.000	41.228	**41.228**
SECL	RCE	86.491	11.083	0.095		0.176	4.448	0.690	4.259			0.259	0.046		14.271	**121.818**	0.015		121.833	**121.833**
SECL	TOT	86.491	11.083	0.095	0.000	0.176	4.448	0.690	4.259	0.000	0.000	0.259	0.046	0.000	14.271	**121.818**	0.015	0.000	121.833	**121.833**
MCL	RCE	73.135	15.029				0.348	0.061	4.625	0.491	0.012	0.355			17.903	**111.959**	0.005		111.964	**111.964**
MCL	TOT	73.135	15.029	0.000	0.000	0.000	0.348	0.061	4.625	0.491	0.012	0.355	0.000	0.000	17.903	**111.959**	0.005	0.000	111.964	**111.964**
NEC	RCE	0.229	0.015				0.026					0.049			0.299	**0.618**			0.618	**0.618**
NEC	TOT	0.229	0.015	0.000	0.000	0.000	0.026	0.000	0.000	0.000	0.000	0.049	0.000	0.000	0.299	**0.618**	0.000	0.000	0.618	**0.618**
CIL	**RCE**	**299.416**	**33.334**	**0.095**		**0.489**	**7.168**	**1.271**	**10.701**	**0.491**	**0.145**	**1.244**	**0.134**	**1.958**	**48.187**	**404.633**	**0.334**	**0.001**	**404.968**	**404.968**
CIL	**WC**	**10.981**	**0.310**													**11.291**			**11.291**	**11.291**
CIL	**MID**	**0.076**	**0.249**													**0.325**			**0.325**	**0.325**
CIL	**TOT**	**310.473**	**33.893**	**0.095**	**0.000**	**0.489**	**7.168**	**1.271**	**10.701**	**0.491**	**0.145**	**1.244**	**0.134**	**1.958**	**48.187**	**416.249**	**0.334**	**0.001**	**416.584**	**416.584**
SCCL	RCE	38.101	3.137				5.642		0.598		0.205	0.848	0.167	0.007	3.320	**52.025**	0.055		52.080	**52.080**
SCCL	TOT	38.101	3.137	0.000	0.000	0.000	5.642	0.000	0.598	0.000	0.205	0.848	0.167	0.007	3.320	**52.025**	0.055	0.000	52.080	**52.080**
JKML	RCE						0.002						0.001	0.011		**0.014**			0.014	**0.014**
JKML	TOT	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.001	0.011	0.000	**0.014**	0.000	0.000	0.014	**0.014**
DVC	RCE		0.226													**0.226**		0.001	0.227	**0.227**
DVC	TOT	0.000	0.226	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.226**	0.000	0.001	0.227	**0.227**
DVCEMTA	RCE		1.844													**1.844**			1.844	**1.844**
DVCEMTA	TOT	0.000	1.844	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**1.844**	0.000	0.000	1.844	**1.844**
IISCO	RCE					0.100									0.056	**0.156**			0.156	**0.156**
IISCO	TOT	0.000	0.000	0.000	0.000	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.056	**0.156**	0.000	0.000	0.156	**0.156**
SAIL	RCE		0.064													**0.064**			0.064	**0.064**
SAIL	TOT	0.000	0.064	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.064**	0.000	0.000	0.064	**0.064**
APMDTCL	RCE														0.055	**0.055**			0.055	**0.055**
APMDTCL	TOT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	**0.055**	0.000	0.000	0.055	**0.055**
WBPDCL	RCE		0.254													**0.254**			0.254	**0.254**
WBPDCL	TOT	0.000	0.254	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.254**	0.000	0.000	0.254	**0.254**
RRUVNL	WC		0.229													**0.229**			0.229	**0.229**
RRUVNL	MID		0.084													**0.084**			0.084	**0.084**
RRUVNL	TOT	0.000	0.313	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.313**	0.000	0.000	0.313	**0.313**
WBMDTCL	RCE					0.051	0.001		0.097			0.026	0.002	0.025	0.063	**0.265**			0.265	**0.265**
WBMDTCL	TOT	0.000	0.000	0.000	0.000	0.051	0.001	0.000	0.097	0.000	0.000	0.026	0.002	0.025	0.063	**0.265**	0.000	0.000	0.265	**0.265**
PUBLIC	**RCE**	**337.517**	**38.859**	**0.095**		**0.640**	**12.813**	**1.271**	**11.396**	**0.491**	**0.350**	**2.118**	**0.304**	**2.001**	**51.681**	**459.536**	**0.389**	**0.002**	**459.927**	**459.927**
PUBLIC	**WC**	**10.981**	**0.539**													**11.520**			**11.520**	**11.520**
PUBLIC	**MID**	**0.076**	**0.333**													**0.409**			**0.409**	**0.409**
PUBLIC	**TOT**	**348.574**	**39.731**	**0.095**	**0.000**	**0.640**	**12.813**	**1.271**	**11.396**	**0.491**	**0.350**	**2.118**	**0.304**	**2.001**	**51.681**	**471.465**	**0.389**	**0.002**	**471.856**	**471.856**

Contd…….

TABLE-4.18B: SECTORWISE OFFTAKE OF NON-COKING COAL (RAW COAL, WASHED COAL & MIDDLING) FOR FINAL CONSUMPTION-COMPANYWISE IN 2012-13

(Quantity in Million Tonnes)

COMPANY	Type of coal/ coal products/Lignite	Power (Utility)	Power (Captive)	Direct Feed	Cokeries	Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	**Total Despatches**	Colliery Own - Consumption	Colliery Staff	**Total Offtake**	**Total Offtake**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	**(15)**	(16)	**(17)**	**(18)**	**(19)**	**(20)**	**(20)**
BECML	RCE		3.002													**3.002**			3.002	**3.002**
BECML	TOT	0.000	3.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**3.002**	0.000	0.000	3.002	**3.002**
ICML	RCE	3.221														**3.221**			3.221	**3.221**
ICML	TOT	3.221	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**3.221**	0.000	0.000	3.221	**3.221**
JSPL	RCE								0.271							**0.271**			0.271	**0.271**
JSPL	WC		0.064						1.986							**2.050**			2.050	**2.050**
JSPL	MID		4.435													**4.435**			4.435	**4.435**
JSPL	TOT	**0.000**	**4.499**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**2.257**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**6.756**	**0.000**	**0.000**	**6.756**	**6.756**
HIL	RCE		2.254													**2.254**			2.254	**2.254**
HIL	TOT	0.000	2.254	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**2.254**	0.000	0.000	2.254	**2.254**
MEG	RCE														5.640	**5.640**			5.640	**5.640**
MEG	TOT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.640	**5.640**	0.000	0.000	5.640	**5.640**
MIL	RCE								0.798							**0.798**			0.798	**0.798**
MIL	TOT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.798	0.000	0.000	0.000	0.000	0.000	0.000	**0.798**	0.000	0.000	0.798	**0.798**
CML	RCE															**0.000**				**0.000**
CML	TOT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	**0.000**
BLA	WC	0.227					0.058									**0.285**			0.285	**0.285**
BLA	TOT	0.227	0.000	0.000	0.000	0.000	0.058	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.285**	0.000	0.000	0.285	**0.285**
PANEM	RCE		6.872													**6.872**			6.872	**6.872**
PANEM	TOT	0.000	6.872	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**6.872**	0.000	0.000	6.872	**6.872**
PIL	RCE								1.000							**1.000**			1.000	**1.000**
PIL	TOT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	**1.000**	0.000	0.000	1.000	**1.000**
JNL	RCE								0.479							**0.479**		0.001	0.480	**0.480**
JNL	TOT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.479	0.000	0.000	0.000	0.000	0.000	0.000	**0.479**	0.000	0.001	0.480	**0.480**
JPL	RCE		4.924													**4.924**			4.924	**4.924**
JPL	WC		0.109													**0.109**			0.109	**0.109**
JPL	TOT	0.000	5.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**5.033**	0.000	0.000	5.033	**5.033**
SIL	RCE								0.244							**0.244**			0.244	**0.244**
SIL	TOT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.244	0.000	0.000	0.000	0.000	0.000	0.000	**0.244**	0.000	0.000	0.244	**0.244**
ESCL	RCE													0.005		**0.005**			0.005	**0.005**
ESCL	TOT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	**0.005**	0.000	0.000	0.005	**0.005**
UML	RCE								0.564							**0.564**			0.564	**0.564**
UML	TOT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.564	0.000	0.000	0.000	0.000	0.000	0.000	**0.564**	0.000	0.000	0.564	**0.564**
KEMTA	RCE		2.515													**2.515**			2.515	**2.515**
KEMTA	TOT	0.000	2.515	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**2.515**	0.000	0.000	2.515	**2.515**
SEML	RCE		0.097						0.131							**0.228**			0.228	**0.228**
SEML	WC								0.273							**0.273**			0.273	**0.273**
SEML	MID	0.340														**0.340**			0.340	**0.340**
SEML	TOT	**0.340**	**0.097**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.404**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.841**	**0.000**	**0.000**	**0.841**	**0.841**
BSIL	RCE								0.019							**0.019**			0.019	**0.019**
BSIL	TOT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.000	0.000	0.000	0.000	0.000	0.000	**0.019**	0.000	0.000	0.019	**0.019**
TUML	RCE		0.163						0.204							**0.367**			0.367	**0.367**
TUML	TOT	0.000	0.163	0.000	0.000	0.000	0.000	0.000	0.204	0.000	0.000	0.000	0.000	0.000	0.000	**0.367**	0.000	0.000	0.367	**0.367**
SPL	RCE		0.081													**0.081**			0.081	**0.081**
SPL	TOT	0.000	0.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.081**	0.000	0.000	0.081	**0.081**
SOVA	RCE		0.009							0.077						**0.086**			0.086	**0.086**
SOVA	TOT	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.077	0.000	0.000	0.000	0.000	0.000	**0.086**	0.000	0.000	0.086	**0.086**
PRIVATE	**RCE**	**3.221**	**19.917**						**3.710**	**0.077**				**0.005**	**5.640**	**32.570**		**0.001**	**32.571**	**32.571**
PRIVATE	**WC**	**0.227**	**0.173**				**0.058**		**2.259**							**2.717**			**2.717**	**2.717**
PRIVATE	**MID**	**0.340**	**4.435**													**4.775**			**4.775**	**4.775**
PRIVATE	**TOT**	**3.788**	**24.525**	**0.000**	**0.000**	**0.000**	**0.058**	**0.000**	**5.969**	**0.077**	**0.000**	**0.000**	**0.000**	**0.005**	**5.640**	**40.062**	**0.000**	**0.001**	**40.063**	**40.063**
ALL INDIA	**RCE**	**340.738**	**58.776**	**0.095**		**0.640**	**12.813**	**1.271**	**15.106**	**0.568**	**0.350**	**2.118**	**0.304**	**2.006**	**57.321**	**492.106**	**0.389**	**0.003**	**492.498**	**492.498**
ALL INDIA	**WC**	**11.208**	**0.712**				**0.058**		**2.259**							**14.237**			**14.237**	**14.237**
ALL INDIA	**MID**	**0.416**	**4.768**													**5.184**			**5.184**	**5.184**
ALL INDIA	**TOT**	**352.362**	**64.256**	**0.095**	**0.000**	**0.640**	**12.871**	**1.271**	**17.365**	**0.568**	**0.350**	**2.118**	**0.304**	**2.006**	**57.321**	**511.527**	**0.389**	**0.003**	**511.919**	**511.919**

TABLE-4.19: SECTORWISE OFFTAKE OF RAW COAL, WASHED COAL, MIDDLINGS FOR FINAL CONSUMTION TO DIFFERENT STATES: 2012-13

(Quantity in Million Tonnes)

COMPANY	Type of coal/ coal products	Power (Utility)	Power (Captive)	Metallurgical Use		Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	**Despatches**	Colliery Own - Consumption	Colliery Staff	**Offtake**
				Direct Feed	Cokeries														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	**(17)**	(18)	(19)	**(20)**
An. Pradesh	Raw Coal (FC)	47.811	3.494		0.076		4.056		0.611		0.199	0.864	0.017	0.006	2.817	**59.951**	0.055		**60.006**
An. Pradesh	Washed Coal				0.520											**0.520**			**0.520**
An. Pradesh	**Tot Coal (FC)**	**47.811**	**3.494**	**0.000**	**0.596**	**0.000**	**4.056**	**0.000**	**0.611**	**0.000**	**0.199**	**0.864**	**0.017**	**0.006**	**2.817**	**60.471**	**0.055**	**0.000**	**60.526**
Aru. Pradesh	Raw Coal (FC)				0.000										0.058	**0.058**			**0.058**
Aru. Pradesh	**Tot Coal (FC)**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.058**	**0.058**	**0.000**	**0.000**	**0.058**
Assam	Raw Coal (FC)						0.026					0.049			0.069	**0.144**			**0.144**
Assam	**Tot Coal (FC)**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.026**	**0.000**	**0.000**	**0.000**	**0.000**	**0.049**	**0.000**	**0.000**	**0.069**	**0.144**	**0.000**	**0.000**	**0.144**
Bihar	Raw Coal (FC)	8.651									0.010	0.003			0.741	**9.405**			**9.405**
Bihar	**Tot Coal (FC)**	**8.651**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.010**	**0.003**	**0.000**	**0.000**	**0.741**	**9.405**	**0.000**	**0.000**	**9.405**
Chhattisgarh	Raw Coal (FC)	38.226	11.093	0.530	0.203	0.177	1.468		6.722			0.022			10.590	**69.031**	0.009		**69.040**
Chhattisgarh	Washed Coal	0.376	0.173		0.371				2.259							**3.179**			**3.179**
Chhattisgarh	Middlings		4.816													**4.816**			**4.816**
Chhattisgarh	**Tot Coal (FC)**	**38.602**	**16.082**	**0.530**	**0.574**	**0.177**	**1.468**	**0.000**	**8.981**	**0.000**	**0.000**	**0.022**	**0.000**	**0.000**	**10.590**	**77.026**	**0.009**	**0.000**	**77.035**
Delhi	Raw Coal (FC)	3.660	0.072				0.015						0.002		0.108	**3.857**			**3.857**
Delhi	Washed Coal	0.998														**0.998**			**0.998**
Delhi	Middlings	0.004														**0.004**			**0.004**
Delhi	**Tot Coal (FC)**	**4.662**	**0.072**	**0.000**	**0.000**	**0.000**	**0.015**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.002**	**0.000**	**0.108**	**4.859**	**0.000**	**0.000**	**4.859**
Goa	Raw Coal (FC)		0.012						0.017							**0.029**			**0.029**
Goa	Tot Coal (FC)	**0.000**	**0.012**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.017**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.029**	**0.000**	**0.000**	**0.029**
Gujarat	**Raw Coal (FC)**	**19.732**	**0.447**				**0.086**	**0.399**			**0.059**	**0.004**	**0.022**		**0.283**	**21.032**			**21.032**
Gujarat	**Tot Coal (FC)**	**19.732**	**0.447**	**0.000**	**0.000**	**0.000**	**0.086**	**0.399**	**0.000**	**0.000**	**0.059**	**0.004**	**0.022**	**0.000**	**0.283**	**21.032**	**0.000**	**0.000**	**21.032**
Haryana	Raw Coal (FC)	15.633	0.004					0.508				0.049			0.062	**16.256**			**16.256**
Haryana	Washed Coal	0.083														**0.083**			**0.083**
Haryana	Middlings	0.104														**0.104**			**0.104**
Haryana	**Tot Coal (FC)**	**15.820**	**0.004**	**0.000**	**0.000**	**0.000**	**0.000**	**0.508**	**0.000**	**0.000**	**0.000**	**0.049**	**0.000**	**0.000**	**0.062**	**16.443**	**0.000**	**0.000**	**16.443**
H.Pradesh	Raw Coal (FC)		0.068				0.433								0.001	**0.502**			**0.502**
H.Pradesh	Tot Coal (FC)	**0.000**	**0.068**	**0.000**	**0.000**	**0.000**	**0.433**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**	**0.502**	**0.000**	**0.000**	**0.502**
J.& K.	Raw Coal (FC)		0.008				0.025						0.001	0.011	0.059	**0.104**			**0.104**
J.& K.	**Tot Coal (FC)**	**0.000**	**0.008**	**0.000**	**0.000**	**0.000**	**0.025**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**	**0.011**	**0.059**	**0.104**	**0.000**	**0.000**	**0.104**
Jharkhand	Raw Coal (FC)	13.219	1.737	0.004	0.473		0.106		1.474		0.005			0.008	6.996	**24.022**	0.165	0.013	**24.200**
Jharkhand	Washed Coal	0.983	0.310		3.691											**4.984**			**4.984**
Jharkhand	Middlings	2.490	1.244													**3.734**			**3.734**
Jharkhand	**Tot Coal (FC)**	**16.692**	**3.291**	**0.004**	**4.164**	**0.000**	**0.106**	**0.000**	**1.474**	**0.000**	**0.005**	**0.000**	**0.000**	**0.008**	**6.996**	**32.740**	**0.165**	**0.013**	**32.918**
Kerala	Raw Coal (FC)						0.045					0.088				**0.133**			**0.133**
Kerala	**Tot Coal (FC)**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.045**	**0.000**	**0.000**	**0.000**	**0.000**	**0.088**	**0.000**	**0.000**	**0.000**	**0.133**	**0.000**	**0.000**	**0.133**
Karnataka	Raw Coal (FC)	6.856	3.643				1.358		0.133		0.006	0.243	0.150	0.001	0.114	**12.504**			**12.504**
Karnataka	**Tot Coal (FC)**	**6.856**	**3.643**	**0.000**	**0.000**	**0.000**	**1.358**	**0.000**	**0.133**	**0.000**	**0.006**	**0.243**	**0.150**	**0.001**	**0.114**	**12.504**	**0.000**	**0.000**	**12.504**
Maharashtra	Raw Coal (FC)	34.997	0.983				1.947		0.948		0.029	0.298	0.033		5.140	**44.375**	0.003		**44.378**
Maharashtra	**Tot Coal (FC)**	**34.997**	**0.983**	**0.000**	**0.000**	**0.000**	**1.947**	**0.000**	**0.948**	**0.000**	**0.029**	**0.298**	**0.033**	**0.000**	**5.140**	**44.375**	**0.003**	**0.000**	**44.378**

TABLE-4.19: SECTORWISE OFFTAKE OF RAW COAL, WASHED COAL, MIDDLINGS FOR FINAL CONSUMTION TO DIFFERENT STATES: 2012-13

(Quantity in Million Tonnes)

COMPANY	Type of coal/ coal products	Power (Utility)	Power (Captive)	Metallurgical Use		Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	**Despatches**	Colliery Own - Consumption	Colliery Staff	**Offtake**
				Direct Feed	Cokeries														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	**(17)**	(18)	(19)	**(20)**
Meghalaya	Raw Coal (FC)														5.640	**5.640**			**5.640**
Meghalaya	**Tot Coal (FC)**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**5.640**	**5.640**	**0.000**	**0.000**	**5.640**
M. Pradesh	Raw Coal (FC)	33.030	2.487		0.036		1.792		0.167		0.012	0.240	0.028	0.696	3.032	**41.520**	0.009		**41.529**
M. Pradesh	Washed Coal	0.250					0.058									**0.308**			**0.308**
M. Pradesh	Middlings	0.101														**0.101**			**0.101**
M. Pradesh	**Tot Coal (FC)**	**33.381**	**2.487**	**0.000**	**0.036**	**0.000**	**1.850**	**0.000**	**0.167**	**0.000**	**0.012**	**0.240**	**0.028**	**0.696**	**3.032**	**41.929**	**0.009**	**0.000**	**41.938**
Orissa	Raw Coal (FC)	25.659	14.198	0.019	0.313	0.052	0.425	0.061	3.666	0.491	0.012	0.154			19.080	**64.130**	0.005		**64.135**
Orissa	Washed Coal	0.372			0.172											**0.544**			**0.544**
Orissa	Middlings		0.082													**0.082**			**0.082**
Orissa	**Tot Coal (FC)**	**26.031**	**14.280**	**0.019**	**0.485**	**0.052**	**0.425**	**0.061**	**3.666**	**0.491**	**0.012**	**0.154**	**0.000**	**0.000**	**19.080**	**64.756**	**0.005**	**0.000**	**64.761**
Panjab	Raw Coal (FC)	4.607	7.105				0.004	0.948							0.267	**12.931**			**12.931**
Panjab	**Tot Coal (FC)**	**4.607**	**7.105**	**0.000**	**0.000**	**0.000**	**0.004**	**0.948**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.267**	**12.931**	**0.000**	**0.000**	**12.931**
Rajasthan	Raw Coal (FC)	15.854	2.874				0.694	0.291					0.046		0.050	**19.809**			**19.809**
Rajasthan	Washed Coal	0.407	0.229													**0.636**			**0.636**
Rajasthan	Middlings		0.084													**0.084**			**0.084**
Rajasthan	**Tot Coal (FC)**	**16.261**	**3.187**	**0.000**	**0.000**	**0.000**	**0.694**	**0.291**	**0.000**	**0.000**	**0.000**	**0.000**	**0.046**	**0.000**	**0.050**	**20.529**	**0.000**	**0.000**	**20.529**
Tamilnadu	Raw Coal (FC)	12.850	0.584				0.189		0.011			0.020			0.043	**13.697**			**13.697**
Tamilnadu	**Tot Coal (FC)**	**12.850**	**0.584**	**0.000**	**0.000**	**0.000**	**0.189**	**0.000**	**0.011**	**0.000**	**0.000**	**0.020**	**0.000**	**0.000**	**0.043**	**13.697**	**0.000**	**0.000**	**13.697**
U. Pradesh	Raw Coal (FC)	51.108	4.208		0.090		0.170	0.304	0.124		0.018			1.242	2.963	**60.227**			**60.227**
U. Pradesh	Washed Coal	8.799														**8.799**			**8.799**
U. Pradesh	Middlings	0.429														**0.429**			**0.429**
U. Pradesh	**Tot Coal (FC)**	**60.336**	**4.208**	**0.000**	**0.090**	**0.000**	**0.170**	**0.304**	**0.124**	**0.000**	**0.018**	**0.000**	**0.000**	**1.242**	**2.963**	**69.455**	**0.000**	**0.000**	**69.455**
Uttaranchal	Raw Coal (FC)		0.299									0.001			0.293	**0.593**			**0.593**
Uttaranchal	**Tot Coal (FC)**	**0.000**	**0.299**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**	**0.000**	**0.000**	**0.293**	**0.593**	**0.000**	**0.000**	**0.593**
W. Bengal	Raw Coal (FC)	42.663	5.503	0.014	0.328	0.412	0.006		1.318	0.077	0.014	0.085	0.005	0.042	3.427	**53.894**	0.200	0.001	**54.095**
W. Bengal	Washed Coal	0.287			0.513											**0.800**			**0.800**
W. Bengal	Middlings	0.345	0.651													**0.996**			**0.996**
W. Bengal	**Tot Coal (FC)**	**43.295**	**6.154**	**0.014**	**0.841**	**0.412**	**0.006**	**0.000**	**1.318**	**0.077**	**0.014**	**0.085**	**0.005**	**0.042**	**3.427**	**55.690**	**0.200**	**0.001**	**55.891**
Others	Raw Coal (FC)														0.139	**0.139**			**0.139**
Others	Middlings														0.237	**0.237**			**0.237**
Others	**Tot Coal (FC)**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.376**	**0.376**	**0.000**	**0.000**	**0.376**
All India	**Raw Coal (FC)**	**374.556**	**58.819**	**0.567**	**1.519**	**0.641**	**12.845**	**2.511**	**15.191**	**0.568**	**0.364**	**2.120**	**0.304**	**2.006**	**61.972**	**533.983**	**0.446**	**0.014**	**534.443**
All India	**Washed Coal**	**12.555**	**0.712**	**0.000**	**5.267**	**0.000**	**0.058**	**0.000**	**2.259**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**20.851**	**0.000**	**0.000**	**20.851**
All India	**Middlings**	**3.473**	**6.877**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.237**	**10.587**	**0.000**	**0.000**	**10.587**
All India	**Tot Coal (FC)**	**390.584**	**66.408**	**0.567**	**6.786**	**0.641**	**12.903**	**2.511**	**17.450**	**0.568**	**0.364**	**2.120**	**0.304**	**2.006**	**62.209**	**565.421**	**0.446**	**0.014**	**565.881**

TABLE 4.20 : AVAILABILITY AND OFF-TAKE OF INDIAN RAW COAL FROM PUBLIC & PRIVATE SECTORS DURING LAST TEN YEARS

(Quantity in Million Tonnes)

YEAR	PUBLIC							PRIVATE							ALL INDIA						
	AVAILABILITY			OFF-TAKE			Closing Stock	AVAILABILITY			OFF-TAKE			Closing Stock	AVAILABILITY			OFF-TAKE			Closing Stock
	Op.St.	Prdn.	Total	Desp.	Coll. Con.	Total		Op.St.	Prdn.	Total	Desp.	Coll. Con.	Total		Op.St.	Prdn.	Total	Desp.	Coll. Con.	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
2003-04	19.347	341.841	361.188	338.705	1.324	340.029	21.144	0.047	19.414	19.461	19.287	0.002	19.289	0.147	19.394	361.255	380.649	357.992	1.326	359.318	21.291
2004-05	21.103	360.782	381.885	357.175	1.175	358.350	23.578	0.146	21.833	21.979	21.483	0.002	21.485	0.391	21.249	382.615	403.864	378.658	1.177	379.835	23.969
2005-06	23.602	381.334	404.936	369.826	1.072	370.898	34.041	0.388	25.705	26.093	25.761	0.001	25.762	0.293	23.990	407.039	431.029	395.587	1.073	396.660	34.334
2006-07	34.041	400.393	434.434	389.561	0.990	390.551	43.848	0.293	30.439	30.732	30.239	0.001	30.240	0.500	34.334	430.832	465.166	419.800	0.991	420.791	44.348
2007-08	43.848	422.166	466.014	418.458	0.925	419.383	46.493	0.500	34.916	35.416	35.109	0.001	35.110	0.286	44.348	457.082	501.430	453.567	0.926	454.493	46.779
2008-09	46.493	450.115	496.608	446.908	0.845	447.753	46.820	0.286	42.642	42.928	42.264	0.000	42.264	0.497	46.779	492.757	539.536	489.172	0.845	490.017	47.317
2009-10	46.820	484.04	530.860	466.845	0.762	467.607	63.175	0.497	48.002	48.499	46.947	0.000	46.947	1.688	47.317	532.042	579.359	513.792	0.762	514.554	64.863
2010-11	63.175	485.061	548.236	476.060	0.614	476.674	71.569	1.688	47.633	49.321	47.405	0.008	47.413	0.623	64.863	532.694	597.557	523.465	0.621	524.086	72.192
2011-12	71.569	490.755	562.324	486.900	0.581	487.481	72.628	0.623	49.195	49.818	48.399	0.001	48.400	1.412	72.192	539.950	612.142	535.299	0.621	535.920	74.040
2012-13	72.628	509.240	581.868	520.326	0.466	520.792	61.347	1.412	47.162	48.574	46.810	0.002	46.812	1.702	74.040	556.402	630.442	567.136	0.468	567.604	63.049

TABLE 4.21 : AVAILABILITY AND OFF-TAKE OF INDIAN RAW COAL FROM CAPTIVE AND NON-CAPTIVE MINES DURING LAST TEN YEARS

(Quantity in Million Tonnes)

YEAR	CAPTIVE							NON-CAPTIVE							ALL INDIA						
	AVAILABILITY			OFF-TAKE			Closing Stock	AVAILABILITY			OFF-TAKE			Closing Stock	AVAILABILITY			OFF-TAKE			Closing Stock
	Op.St.	Prdn.	Total	Desp.	Coll. Con	Total		Op.St.	Prdn.	Total	Desp.	Coll. Con	Total		Op.St.	Prdn.	Total	Desp.	Coll. Con	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
2003-04	0.142	20.565	20.707	20.453	0.009	20.462	0.211	19.252	340.690	359.942	337.539	1.317	338.856	21.080	19.394	361.255	380.649	357.992	1.326	359.318	21.291
2004-05	0.218	23.125	23.343	22.822	0.009	22.831	0.411	21.031	359.490	380.521	355.836	1.168	357.004	23.558	21.249	382.615	403.864	378.658	1.177	379.835	23.969
2005-06	0.408	20.307	20.715	21.198	0.003	21.201	0.343	23.582	386.732	410.314	374.389	1.070	375.459	34.001	23.990	407.039	431.029	395.587	1.073	396.660	34.344
2006-07	0.343	25.514	25.857	25.264	0.009	25.273	0.460	34.001	405.318	439.319	394.483	0.982	395.465	43.888	34.344	430.832	465.176	419.747	0.991	420.738	34.344
2007-08	0.460	29.452	29.912	29.649	0.005	29.654	0.305	43.888	427.630	471.518	423.918	0.921	424.839	46.474	44.348	457.082	501.430	453.567	0.926	454.493	46.779
2008-09	0.305	38.577	38.649	37.901	0.000	37.901	0.590	46.474	454.413	500.887	451.271	0.845	452.116	46.727	46.779	492.990	539.769	489.172	0.845	490.017	47.317
2009-10	0.590	35.460	36.050	34.344	0.000	34.344	1.732	46.727	496.582	543.309	479.448	0.762	480.210	63.131	47.317	532.04	579.36	513.792	0.762	514.554	64.863
2010-11	1.732	34.224	35.956	33.664	0.000	33.664	0.719	63.131	498.470	561.601	489.801	0.621	490.422	71.473	64.863	532.694	597.557	523.465	0.621	524.086	72.192
2011-12	0.719	43.706	44.425	43.099	0.002	43.101	1.436	71.473	496.244	567.717	492.200	0.580	492.780	72.604	72.192	539.950	612.142	535.299	0.582	535.881	74.040
2012-13	1.436	45.280	46.716	44.865	0.001	44.866	1.834	72.604	511.122	583.726	522.271	0.467	522.738	61.215	74.040	556.402	630.442	567.136	0.468	567.604	63.049

TABLE 4.22: AVAILABILITY AND OFF-TAKE OF INDIAN RAW COAL BY COMPANIES DURING 2011-12 & 2012-13

(Quantity in Million Tonnes)

Company	2011-12							2012-13						
	AVAILABILITY			OFF-TAKE			Closing Stock	AVAILABILITY			OFF-TAKE			Closing Stock
	Opening Stock	Production	Total	Despatches	Colliery Consumption	Total		Opening Stock	Production	Total	Despatches	Colliery Consumption	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
CIL	68.900	435.838	504.738	432.618	0.465	433.083	69.551	69.551	452.200	521.751	464.537	0.410	464.947	58.168
SCCL	2.413	52.211	54.624	51.389	0.115	51.504	3.038	3.038	53.190	56.228	52.025	0.055	52.080	3.020
JKML	0.004	0.020	0.024	0.023		0.023	0.003	0.003	0.019	0.022	0.014		0.014	0.005
JSMDCL	0	0.118	0.118	0.118		0.118	0	0	0	0	0		0	0
DVC	0.117	0.328	0.445	0.410	0.001	0.411	0	0	0.203	0.203	0.226	0.001	0.227	0.011
DVC EMTA	0.021	1.165	1.186	1.169		1.169	0.017	0.017	1.836	1.853	1.844		1.844	0.009
IISCO	0.008	0.598	0.606	0.598		0.598	0.009	0.009	0.715	0.724	0.716		0.716	0.008
SAIL	0	0.040	0.040	0.040		0.040	0	0	0.102	0.102	0.097		0.097	0.006
APMDTCL	0.104	0.221	0.325	0.322		0.322	0.004	0.004	0.073	0.077	0.055		0.055	0.022
WBPDCL	0.002	0.216	0.218	0.213		0.213	0.006	0.006	0.261	0.267	0.254		0.254	0.013
RRUVNL									0.293		0.293		0.293	0
WBMDTCL									0.348		0.265		0.265	0.085
PUBLIC	**71.569**	**490.755**	**562.324**	**486.900**	**0.581**	**487.481**	**72.628**	**72.628**	**509.240**	**581.227**	**520.326**	**0.466**	**520.792**	**61.347**
BECML	0.006	2.598	2.604	2.581		2.581	0.023	0.023	3.005	3.028	3.002		3.002	0.026
ICML	0.363	3.745	4.108	3.168		3.168	0.941	0.941	3.129	4.070	3.221		3.221	0.848
JSPL	0.005	5.998	6.003	5.993		5.993	0.010	0.010	5.999	6.009	5.999		5.999	0.010
HIL	0.008	2.357	2.365	2.298		2.298	0.139	0.139	2.237	2.376	2.254		2.254	0.122
Meghalaya	0.000	7.206	7.206	7.206		7.206	0	0	5.640	5.640	5.640		5.640	0.000
TISCO	0.010	7.461	7.471	7.438		7.438	0.034	0.034	7.295	7.329	7.314	0.001	7.315	0.014
MIL	0.007	0.851	0.858	0.846		0.846	0.012	0.012	0.795	0.807	0.798		0.798	0.008
BLA	0.008	0.299	0.307	0.299		0.299	0	0	0.300	0.300	0.300		0.300	0.000
CML	0.020	0	0.020	0		0	0.020	0.020	0	0.020	0		0.000	0
PANEM	0.006	8.301	8.307	8.278		8.278	0.029	0.029	6.926	6.955	6.872		6.872	0.083
PIL	0.001	1.000	1.001	1.000		1.000	0.001	0.001	1.000	1.001	1.000		1.000	0.001
JNL	0.001	0.480	0.481	0.457	0.001	0.458	0.023	0.023	0.480	0.503	0.479	0.001	0.480	0.025
JPL	0.001	5.250	5.251	5.249		5.249	0.002	0.002	5.250	5.252	5.088		5.088	0.164
SIL	0.019	0.160	0.179	0.164		0.164	0.015	0.015	0.248	0.263	0.244		0.244	0.020
ESCL	0.040	0.106	0.146	0.037		0.037	0.108	0.108	0.099	0.207	0.074		0.074	0.093
UML	0.005	0.351	0.356	0.351		0.351	0.005	0.005	0.560	0.565	0.564		0.564	0.001
KECML	0.025	2.189	2.214	2.205		2.205	0.009	0.009	2.506	2.515	2.515		2.515	0
SEML	0.011	0.774	0.785	0.784		0.784	0.001	0.001	0.976	0.977	0.893		0.893	0.084
BSIL	0.015	0.003	0.018	0.006		0.006	0.013	0.013	0.062	0.075	0.019		0.019	0.055
TUML		0.066	0.066	0.039		0.039	0.027	0.027	0.341	0.368	0.367		0.367	0.001
SPL									0.225	0.225	0.081		0.081	0.144
SOVA									0.089	0.089	0.086		0.086	0.003
GVK														
PRIVATE	**0.551**	**49.195**	**49.746**	**48.399**	**0.001**	**48.400**	**1.412**	**1.412**	**47.162**	**48.574**	**46.810**	**0.002**	**46.812**	**1.702**
INDIA	**72.120**	**539.950**	**612.070**	**535.299**	**0.582**	**535.881**	**74.040**	**74.040**	**556.402**	**629.801**	**567.136**	**0.468**	**567.604**	**63.049**

Table 4.23: COMPANYWISE AND SECTORWISE OFF-TAKE OF LIGNITE IN LAST FIVE YEARS
(Quantity in Million Tonnes)

Company	Year	Power	Steel	Cement	Fertilizer	Textiles	B & C	Paper	Brick	Chemical	Others	**Total**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	**(13)**
GHCL	2008-09	0.234										**0.234**
GIPCL	2008-09	1.701										**1.701**
GMDCL	2008-09	2.915	0.122		0.108		0.610	2.218		0.364	1.774	**8.111**
NLCL	2008-09	20.397	0.077								0.274	**20.748**
RSMML	2008-09	0.465	0.143	0.007			0.083	0.245		0.001	0.055	**0.999**
TOTAL	**2008-09**	**25.712**	**0.342**	**0.007**	**0.108**	**0.000**	**0.693**	**2.463**	**0.000**	**0.365**	**2.103**	**31.793**
GHCL	2009-10	0.323										**0.323**
GIPCL	2009-10	1.714										**1.714**
GMDCL	2009-10	2.939		0.093		0.728		1.718	0.406	0.332	2.158	**8.374**
NLCL	2009-10	22.385		0.218				0.098	0.035	0.005	0.071	**22.812**
RSMML	2009-10	0.781		0.069		0.057		0.002	0.071	0.166	0.061	**1.207**
TOTAL	**2009-10**	**28.142**	**0.000**	**0.380**	**0.000**	**0.785**	**0.000**	**1.818**	**0.512**	**0.503**	**2.290**	**34.430**
GHCL	2010-11	0.299										**0.299**
GIPCL	2010-11	2.548										**2.548**
GMDCL	2010-11	2.977		0.108		1.028		2.519	0.529	1.106	1.965	**10.232**
NLCL	2010-11	22.722		0.242				0.045	0.016	0.002	0.054	**23.081**
RSMML	2010-11	0.711		0.011		0.147				0.014		**0.883**
VSLPPL	2010-11	0.642										**0.642**
TOTAL	**2010-11**	**29.899**	**0.000**	**0.361**	**0.000**	**1.175**	**0.000**	**2.564**	**0.545**	**1.122**	**2.019**	**37.685**
GHCL	2011-12	0.389										**0.389**
GIPCL	2011-12	2.716										**2.716**
GMDCL	2011-12	3.069		0.340		3.536		0.579	0.915	0.831	2.073	**11.343**
NLCL	2011-12	23.740	0.031	0.586		0.001	0.010	0.052	0.014	0.001	0.037	**24.472**
RSMML	2011-12	1.306	0.001	0.088	0.002	0.132			0.053	0.038	0.502	**2.120**
VSLPPL	2011-12	0.843										**0.843**
TOTAL	**2011-12**	**32.063**	**0.032**	**1.014**	**0.002**	**3.669**	**0.010**	**0.631**	**0.982**	**0.870**	**2.612**	**41.883**
GHCL	2012-13	0.283										**0.283**
GIPCL	2012-13	3.482										**3.482**
GMDCL	2012-13	3.442		0.254	0.001	3.401		0.667	0.857	0.562	1.721	**10.905**
NLCL	2012-13	24.836	0.049	0.668		0.003		0.027	0.009	0.018	0.081	**25.691**
RSMML	2012-13	0.591		0.175		0.064				0.013	0.544	**1.387**
VSLPPL	2012-13	0.815										**0.815**
BLMCL	2012-13	3.750										**3.750**
TOTAL	**2012-13**	**37.199**	**0.049**	**1.097**	**0.001**	**3.468**	**0.000**	**0.694**	**0.866**	**0.593**	**2.346**	**46.313**

TABLE 4.24 : BALANCE SHEET OF AVAILABILITY AND SUPPLY OF *RAW COAL & LIGNITE* DURING 2011-12 & 2012-13

(Quantity in Million Tonnes)

Availability (within India)	**2011-12**	**2012-13**
(A) Production		
Coking Coal	51.660	51.582
Non-coking Coal	488.290	504.820
Lignite	42.332	46.453
Total	**582.282**	**602.855**
(B) Change of Vendible Stock (Closing - 0pening)		
Coking Coal	-1.621	-3.096
Non-coking Coal	3.469	-7.895
Lignite	0.441	0.442
Total Change (Cl - Op)	**2.289**	**-10.549**
(C) Import		
Coking Coal	31.801	35.557
Non-coking Coal	71.052	110.228
Total Raw Coal	**102.853**	**145.785**
(D) Export	2.014	2.443
(E) Total Availability	**680.832**	**756.746**

Supply (within India)	**2011-12**				**2012-13**			
Sectors	Raw Coal	Lignite	Imported Coal	**Total**	Raw Coal	Lignite	Imported Coal	**Total**
Steel & Washery	16.054	0.032	31.801	**47.887**	16.145	0.049	35.557	**51.751**
Power (Utility+Captive)	410.368	32.063	27.305	**469.736**	446.764	37.199	38.702	**522.665**
Cement	13.179	1.014	13.179	**27.372**	13.113	1.097	18.680	**32.890**
Textile	0.258	3.669		**3.927**	0.304	3.468		**3.772**
Sponge Iron	21.686			**21.686**	20.903			**20.903**
Fertilizer & Chem.	2.821	0.872		**3.693**	2.861	0.594		**3.455**
Paper	2.026	0.631		**2.657**	2.118	0.694		**2.812**
Brick	0.129	0.982		**1.111**	2.006	0.866		**2.872**
Others	68.778	2.620	30.568	**101.966**	62.922	2.346	52.846	**118.114**
Colliery Consmn.	0.582			**0.582**	0.468			**0.468**
Total Off-take	**535.881**	**41.883**	**102.853**	**680.617**	**567.604**	**46.313**	**145.785**	**759.702**
Statistical Difference				**0.215**				**-2.956**
Total Supply				**680.832**				**756.746**

Note: It is assumed that there is no change in industrial stock. Washed coal has been converted into raw coal equivalent. In Coal Directory closing balance of a year is taken as openibg balance of next year. However it is noted that there is a significant change between closing stock of last year and opening stock of this year. This resulted an increase (in absolute terms) in Statistical difference.

Section V

Pit Head Closing Stock

5.1.1 The concept of pit head closing stock has already been discussed in detail in Section I. A complete understanding of production and despatch of coal requires a discussion on the pit head closing stock. It is to be noted that whenever we talk about pit head closing stock of coal we refer to raw coal. In the year 2012-13, the pit head closing stock of coal and lignite were 63.049 MT and 1.493 MT respectively. While the stock of coal decreased over the last year, the stock of lignite increased over the last year. Statement 5.1 depicts the pit head closing stock for the current year as well as previous year.

Statement 5.1 Pit Head Closing Stock (MT) of Coal and Lignite in India in 2011-12 and 2012-13

Company	Year	
	2011-12	2012-13
Metallurgical	2.340	1.480
Non-metallurgical	8.792	6.556
Total Coking Coal	**11.132**	**8.036**
Non-coking	62.908	55.013
Lignite	1.051	1.493

5.1.2 Statement 5.2 provides trend for last ten years for pit head closing stock of coal and lignite.

Statement 5.2 Pit Head Closing Stock (MT) of Coal and Lignite in India in last ten years.

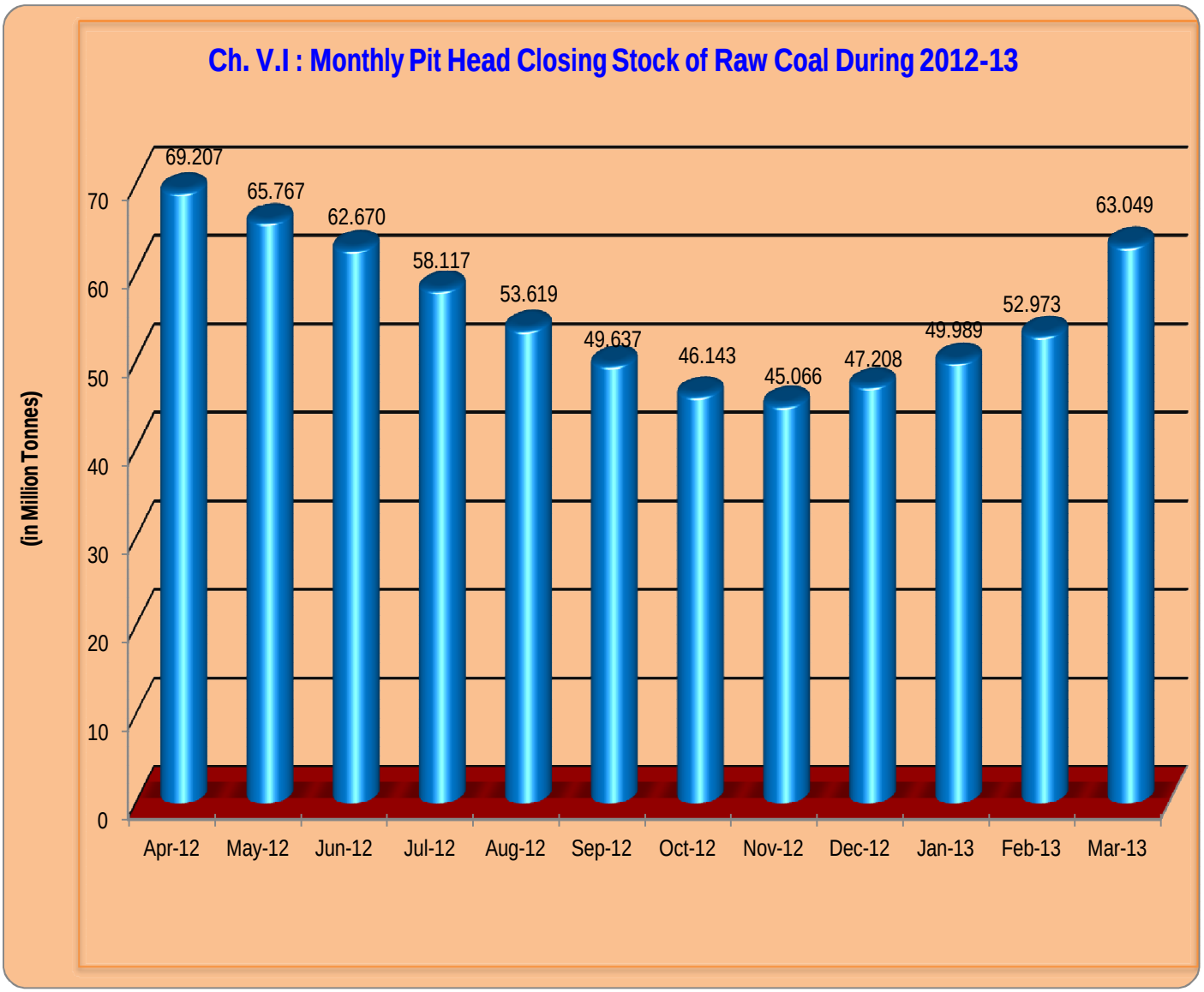
Year	Pit Head Closing Stock (MT)	
	Raw Coal	Lignite
2003-04	21.291	0.212
2004-05	23.969	0.536
2005-06	34.334	0.525
2006-07	44.348	1.002
2007-08	46.779	0.328
2008-09	47.317	0.903
2009-10	64.863	0.565
2010-11	72.192	0.610
2011-12	74.040	1.051
2012-13	63.049	1.493

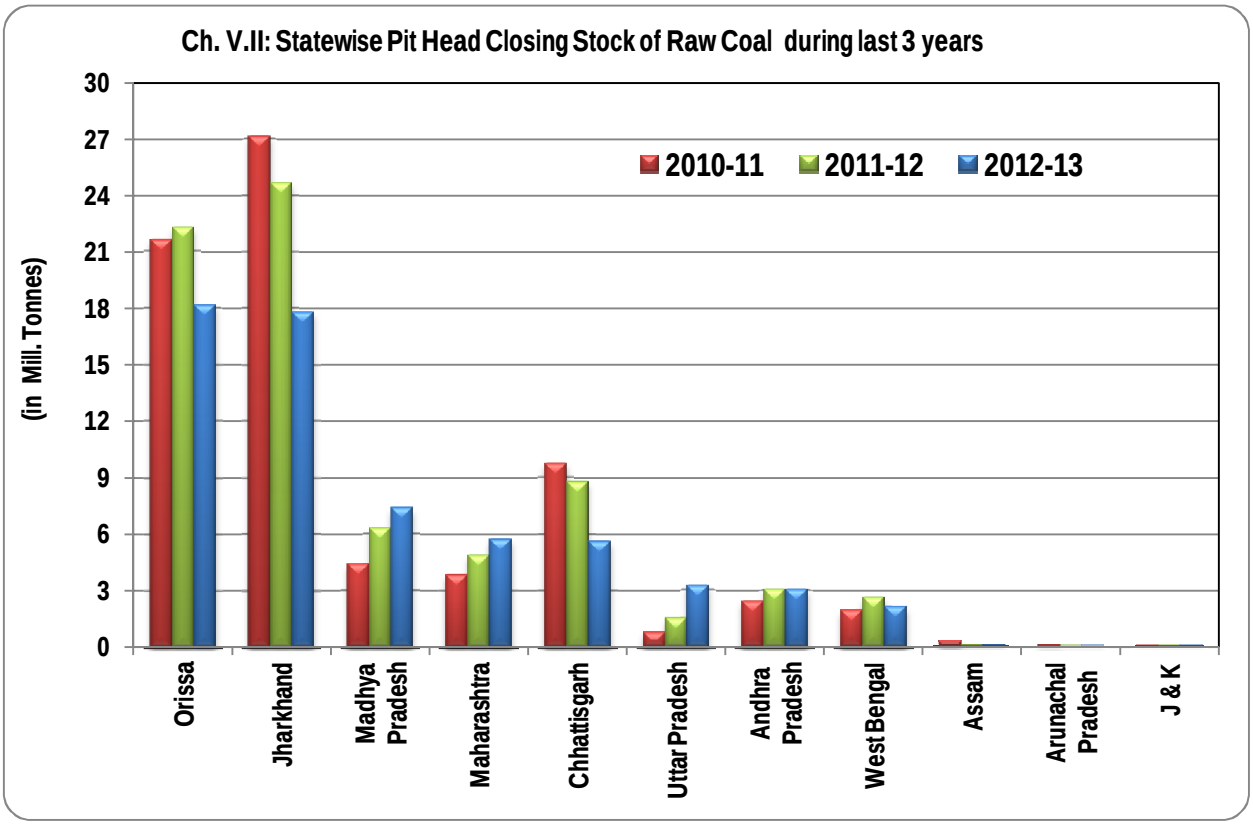
It is observed that in case of coal, the pit head closing stock has been increasing over the years till 2011-12. In 2012-13 it has decreased from 74.040 MT in 2011-12 to 63.049 MT. The trend in case of lignite is fluctuating one.

Statement 5.3 shows pit head closing stock of coal by companies during the period 2011-12 and 2012-13. There is significant change in Pit head closing stock of coal in 2012-13 over 2011-12. Further details on this aspect have been provided in tables attached with the section.

Statement 5.3:Company wise Pit Head Closing Stock (MT) of Coal and Lignite in India

Company	Year	
	2011-12	2012-13
(1)	(6)	(6)
COAL		
ECL	4.046	2.114
BCCL	6.955	5.090
CCL	15.099	11.504
NCL	6.843	9.579
WCL	5.093	5.816
SECL	9.298	5.930
MCL	22.122	18.053
NEC	0.095	0.082
CIL	**69.551**	**58.168**
SCCL	3.038	3.020
OTHER PUBLIC	0.039	0.159
PUBLIC	72.628	61.347
PRIVATE	1.412	1.702
TOTAL	**74.040**	**63.049**
LIGNITE		
NLC	0.589	1.121
GIPCL	0.452	0.296
GHCL	0.010	0.024
BLMCL	--	0.052
TOTAL	**1.051**	**1.493**


Ch. V.I : Monthly Pit Head Closing Stock of Raw Coal During 2012-13
(in Million Tonnes)
0
10
20
30
40
50
60
70
69.207
65.767
62.670
58.117
53.619
49.637
46.143
45.066
47.208
49.989
52.973
63.049
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12
Nov-12
Dec-12
Jan-13
Feb-13
Mar-13


Ch. V.II: Statewise Pit Head Closing Stock of Raw Coal during last 3 years
(in Mill. Tonnes)
30
27
24
21
18
15
12
9
6
3
0
2010-11
2011-12
2012-13
Orissa
Jharkhand
Madhya Pradesh
Maharashtra
Chhattisgarh
Uttar Pradesh
Andhra Pradesh
West Bengal
Assam
Arunachal Pradesh
J & K

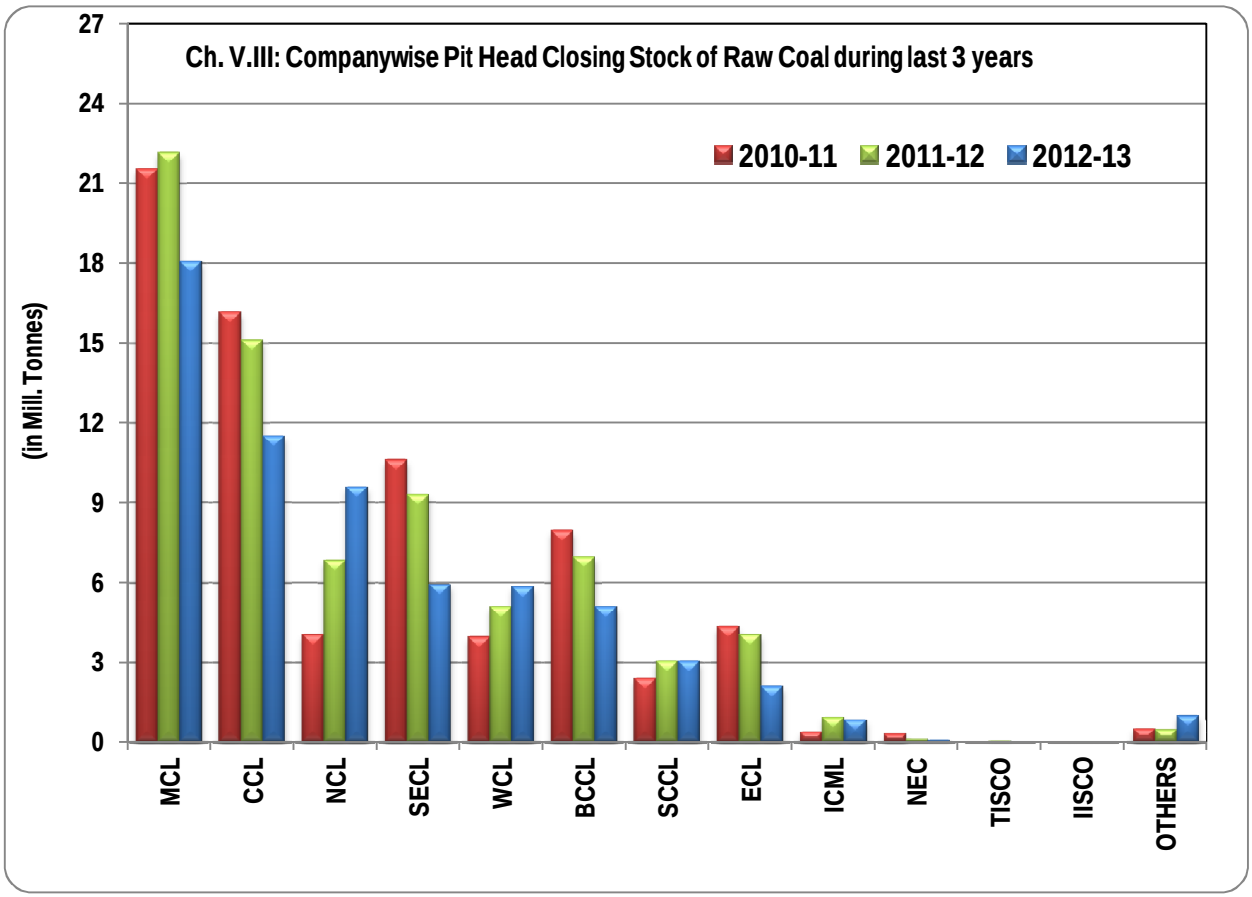

Ch. V.III: Companywise Pit Head Closing Stock of Raw Coal during last 3 years
(in Mill. Tonnes)
27
24
21
18
15
12
9
6
3
0
2010-11
2011-12
2012-13
MCL
CCL
NCL
SECL
WCL
BCCL
SCCL
ECL
ICML
NEC
TISCO
IISCO
OTHERS

TABLE-5.1. TRENDS OF PIT-HEAD CLOSING STOCK OF DIFFERENT SOLID FOSSIL FUELS IN LAST TEN YEARS

(Quantity in Million Tonnes)

Year	Raw coal			Lignite			Total solid fossil fuel	
	Pit-head Closing Stock	Share in total solid fossil fuel (%)	Change over previous year (%)	Pit-head Closing Stock	Share in total solid fossil fuel (%)	Change over previous year (%)	Pit-head Closing Stock	Change over previous year (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2003-04	21.291	99.01	9.78	0.212	0.99	-71.00	21.503	6.85
2004-05	23.969	97.81	12.58	0.536	2.19	152.83	24.505	13.96
2005-06	34.334	98.49	43.24	0.525	1.51	-2.05	34.859	42.25
2006-07	44.348	97.79	29.17	1.002	2.21	90.86	45.350	30.10
2007-08	46.779	99.30	5.48	0.328	0.70	-67.27	47.107	3.87
2008-09	47.317	98.13	1.15	0.903	1.87	175.30	48.220	2.36
2009-10	64.863	99.14	37.08	0.565	0.86	-37.43	65.428	35.69
2010-11	72.192	99.16	11.30	0.610	0.84	7.96	72.802	11.27
2011-12	74.040	98.60	2.56	1.051	1.40	72.30	75.091	3.14
2012-13	63.049	97.69	-14.84	1.493	2.31	42.06	64.542	-14.05

TABLE-5.2: TRENDS OF PIT-HEAD CLOSING STOCK OF DIFFERENT TYPES OF RAW COAL IN LAST TEN YEARS

(Quantity in Million Tonnes)

Year	Coking Coal									Non Coking Coal			Raw Coal	
	Metallurgical Coal			Non Metallurgical Coal			Total Coking Coal							
	Pit-head Closing Stock	Share in total solid coking coal (%)	Change over previous year (%)	Pit-head Closing Stock	Share in total coking coal (%)	Change over previous year (%)	Pit-head Closing Stock	Share in total solid fossil fuel (%)	Change over previous year (%)	Pit-head Closing Stock	Share in coal (%)	Change over previous year (%)	Pit-head Closing Stock	Change over previous year (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
2003-04	1.685	65.7	33.9	0.879	34.3	-48.7	2.564	12.0	-13.8	18.727	88.0	14.0	21.291	9.8
2004-05	1.925	55.0	14.2	1.574	45.0	79.1	3.499	14.6	36.5	20.470	85.4	9.3	23.969	12.6
2005-06	2.834	58.0	47.2	2.053	42.0	30.4	4.887	14.2	39.7	29.447	85.8	43.9	34.334	43.2
2006-07	3.086	58.0	8.9	2.235	42.0	8.9	5.321	12.0	8.9	39.027	88.0	32.5	44.348	29.2
2007-08	3.993	58.0	29.4	2.892	42.0	29.4	6.885	14.7	29.4	39.894	85.3	2.2	46.779	5.5
2008-09	4.065	61.3	1.8	2.565	38.7	-11.3	6.630	12.1	-3.7	48.220	87.9	20.9	54.850	17.3
2009-10	1.927	17.1	-52.6	9.337	82.9	264.0	11.264	17.4	69.9	53.599	82.6	11.2	64.863	18.3
2010-11	1.715	13.4	-11.0	11.038	86.6	18.2	12.753	17.7	13.2	59.439	82.3	10.9	72.192	11.3
2011-12	2.340	21.0	36.4	8.792	79.0	-20.3	11.132	15.0	-12.7	62.908	85.0	5.8	74.040	2.6
2012-13	1.480	18.4	-36.8	6.556	81.6	-25.4	8.036	12.7	-27.8	55.013	87.3	-12.6	63.049	-14.8

TABLE-5.3 : MONTHLY PIT-HEAD CLOSING STOCK OF COAL, LIGNITE AND VARIOUS COAL PRODUCTS IN 2012-13

(Quantity in Million Tonnes)

Month	Raw Coal	Lignite	Washed Coal (Coking)	Washed Coal (Non-Coking)	Middlings (Coking)	Middlings (Non-Coking)	Hard Coke
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Apr-12	69.207	1.100	0.273	0.095	0.547	2.227	0.037
May-12	65.767	1.194	0.302	0.066	0.446	2.213	0.028
Jun-12	62.670	1.377	0.244	0.059	0.446	1.965	0.040
1st Quarter	**62.670**	**1.377**	**0.244**	**0.059**	**0.446**	**1.965**	**0.040**
Jul-12	58.117	1.175	0.272	0.054	0.416	1.795	0.048
Aug-12	53.619	1.028	0.190	0.132	0.327	1.785	0.039
Sep-12	49.637	0.915	0.235	0.090	0.295	1.731	0.028
2nd Quarter	**49.637**	**0.915**	**0.235**	**0.090**	**0.295**	**1.731**	**0.028**
Oct-12	46.143	0.864	0.245	0.034	0.254	1.637	0.040
Nov-12	45.066	0.716	0.198	0.054	0.286	1.538	0.023
Dec-12	47.208	0.515	0.178	0.043	0.227	1.392	0.053
3rd Quarter	**47.208**	**0.515**	**0.178**	**0.043**	**0.227**	**1.392**	**0.053**
Jan-13	49.989	0.507	0.198	0.044	0.215	1.290	0.045
Feb-13	52.973	0.687	0.193	0.108	0.230	1.217	0.026
Mar-13	63.049	1.493	0.224	0.110	0.243	1.228	0.009
4th Quarter	**63.049**	**1.493**	**0.224**	**0.110**	**0.243**	**1.228**	**0.009**

TABLE-5.4 : SHARE OF RAW COAL PIT-HEAD CLOSING STOCK BY STATES IN LAST TEN YEARS

(Quantity in Million Tonnes)

Year	State: Andhra Pradesh			State: Assam			State: Chhattisgarh		
	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2003-04	0.272	1.28	-20.23	0.331	1.55	-29.57	3.204	15.05	2.46
2004-05	0.733	3.06	169.49	0.388	1.62	17.22	2.887	12.04	-9.89
2005-06	1.419	4.13	93.59	0.316	0.92	-18.56	4.589	13.37	58.95
2006-07	1.485	3.35	4.65	0.182	0.41	-42.41	7.066	15.93	53.98
2007-08	0.143	0.31	-90.37	0.079	0.17	-56.59	6.012	12.85	-14.92
2008-09	0.152	0.32	6.29	0.252	0.53	218.99	4.303	9.09	-28.43
2009-10	1.224	1.89	705.26	0.294	0.45	16.67	7.015	10.82	63.03
2010-11	2.413	3.34	97.14	0.293	0.41	-0.34	9.731	13.48	38.72
2011-12	3.038	4.10	25.90	0.095	0.13	-67.58	8.732	11.79	-10.27
2012-13	3.02	4.79	-0.59	0.082	0.13	-13.68	5.639	8.94	-35.42

Year	State: Jammu & Kashmir			State: Jharkhand			State: Madhya Pradesh		
	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)
(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2003-04	0.005	0.02	-70.59	8.934	41.96	4.13	1.804	8.47	22.80
2004-05	0.002	0.01	-60.00	9.519	39.71	6.55	1.972	8.23	9.31
2005-06	0.000	0.00	-100.00	14.910	43.43	56.63	2.194	6.39	11.26
2006-07	0.001	0.00	0.00	19.027	42.90	27.61	2.119	4.78	-3.42
2007-08	0.003	0.01	200.00	20.557	43.94	8.04	2.010	4.30	-5.14
2008-09	0.002	0.00	-33.33	19.171	40.52	-6.74	1.615	3.41	-19.65
2009-10	0.008	0.01	300.00	24.933	38.44	30.06	2.498	3.85	54.67
2010-11	0.004	0.01	-50.00	27.128	37.58	8.80	4.391	6.08	75.78
2011-12	0.003	0.00	-25.00	24.684	33.34	-9.01	6.265	8.46	42.68
2012-13	0.005	0.01	66.67	17.796	28.23	-27.90	7.318	11.61	16.81

Year	State: Maharashtra			State: Arunachal Pradesh			State: Orissa		
	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)
(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
2003-04	0.897	4.21	56.00				3.153	14.81	27.14
2004-05	1.894	7.90	111.15				3.053	12.74	-3.17
2005-06	3.213	9.36	69.64				4.454	12.97	45.89
2006-07	3.914	8.83	21.82				8.023	18.09	80.13
2007-08	2.924	6.25	-25.29	0.010	0.02	0.00	12.357	26.42	54.02
2008-09	2.386	5.04	-18.40	0.022	0.05	120.00	17.474	36.93	41.41
2009-10	2.701	4.16	13.20	0.049	0.08	122.73	23.409	36.09	33.96
2010-11	3.793	5.25	40.43	0.104	0.14	112.24	21.611	29.94	-7.68
2011-12	4.841	6.54	27.63	0.004	0.01	-96.15	22.261	30.07	3.01
2012-13	5.656	8.97	16.84	0.022	0.03	450.00	18.175	28.83	-18.35

No stock is assumed to be in Meghalaya, hence ignored.

Contd.....

TABLE-5.4 : SHARE OF RAW COAL PIT-HEAD CLOSING STOCK BY STATES IN LAST TEN YEARS

(Quantity in Million Tonnes)

Year	State: Uttar Pradesh			State: West Bengal			ALL INDIA	
	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)	**Quantity**	**Growth (%)**
(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)
2003-04	1.004	4.72	35.31	1.687	7.92	5.90	**21.291**	**9.78**
2004-05	0.788	3.29	-21.51	2.733	11.40	62.00	**23.969**	**12.58**
2005-06	0.656	1.91	-16.75	2.583	7.52	-5.49	**34.334**	**43.24**
2006-07	0.490	1.10	-25.30	2.041	4.60	-20.98	**44.348**	**29.17**
2007-08	0.702	1.50	43.27	1.982	4.24	-2.89	**46.779**	**5.48**
2008-09	0.283	0.60	-59.69	1.657	3.50	-16.40	**47.317**	**1.15**
2009-10	0.664	1.02	134.63	2.068	3.19	24.80	**64.863**	**37.08**
2010-11	0.798	1.11	20.18	1.926	2.67	-6.87	**72.192**	**11.30**
2011-12	1.509	2.04	89.10	2.608	3.52	35.41	**74.040**	**2.56**
2011-13	3.224	5.11	113.65	2.112	3.35	-19.02	**63.049**	**-14.84**

TABLE-5.5 : SHARE OF LIGNITE PIT-HEAD CLOSING STOCK BY STATES IN LAST TEN YEARS

(Quantity in Million Tonnes)

Year	State: Tamil Nadu			State: Gujrat			State: Rajasthan		
	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2003-04	0.161	75.94	-77.67	0.051	24.06	410.00			
2004-05	0.491	91.60	204.97	0.045	8.40	-11.76			
2005-06	0.466	90.49	-5.09	0.049	9.51	8.89			
2006-07	0.973	97.11	108.80	0.029	2.89	-40.82			
2007-08	0.302	92.07	-68.96	0.026	7.93	-10.34			
2008-09	0.862	95.46	185.43	0.041	4.54	57.69			
2009-10	0.410	72.57	-52.44	0.155	27.43	278.05			
2010-11	0.471	77.21	14.88	0.139	22.79	-10.32			
2011-12	0.589	56.04	25.05	0.462	43.96	232.37			
2012-13	1.121	75.08	90.32	0.320	21.43	-30.74	0.052	3.48	0.00

Year	ALL INDIA	
	Quantity	**Growth (%)**
(11)	(12)	(13)
2003-04	**0.212**	**-71.00**
2004-05	**0.536**	**152.83**
2005-06	**0.515**	**-3.92**
2006-07	**1.002**	**94.56**
2007-08	**0.328**	**-67.27**
2008-09	**0.903**	**175.30**
2009-10	**0.565**	**-37.43**
2010-11	**0.610**	**7.96**
2011-12	**1.051**	**72.30**
2012-13	**1.493**	**42.06**

TABLE-5.6 : TRENDS OF PIT-HEAD CLOSING STOCK OF RAW COAL AND LIGNITE BY COMPANIES IN LAST THREE YEARS

(Quantity in Million Tonnes)

Company	2010-11		2011-12		2012-13	
	Quantity	% of All India	Quantity	% of All India	Quantity	% of All India
(1)	(2)	(3)	(4)	(5)	(6)	(7)
COAL :						
ECL	4.342	6.01	4.046	5.46	2.114	3.35
BCCL	7.951	11.01	6.955	9.39	5.090	8.07
CCL	16.163	22.39	15.099	20.39	11.504	18.25
NCL	4.055	5.62	6.843	9.24	9.579	15.19
WCL	3.950	5.47	5.093	6.88	5.816	9.22
SECL	10.615	14.70	9.298	12.56	5.930	9.41
MCL	21.531	29.82	22.122	29.88	18.053	28.63
NEC	0.293	0.41	0.095	0.13	0.082	0.13
CIL	**68.900**	**95.44**	**69.551**	**93.94**	**58.168**	**92.26**
SCCL	2.413	3.34	3.038	4.10	3.020	4.79
JKML	0.004	0.01	0.003	0.00	0.005	0.01
JSMDCL					0.000	0.00
DVC	0.117	0.16		0.00	0.011	0.02
DVC EMTA	0.021	0.03	0.017	0.02	0.009	0.01
IISCO	0.008	0.01	0.009	0.01	0.008	0.01
SAIL					0.006	0.01
APMDTCL	0.104	0.14	0.004	0.01	0.022	0.03
WBPDCL	0.002	0.00	0.006	0.01	0.013	0.02
RRUVNL					0.000	0.00
WBMDTCL					0.085	0.13
PUBLIC	**71.569**	**99.14**	**72.628**	**98.09**	**61.347**	**97.30**
BECML	0.006	0.01	0.023	0.03	0.026	0.04
ICML	0.363	0.50	0.941	1.27	0.848	1.34
JSPL	0.005	0.01	0.010	0.01	0.010	0.02
HIL	0.080	0.11	0.139	0.19	0.122	0.19
Meghalaya					0.000	0.00
TISCO	0.010	0.01	0.034	0.05	0.014	0.02
MIL	0.007	0.01	0.012	0.02	0.008	0.01
BLA	0.008	0.01		0.00	0.000	0.00
CML	0.020	0.03	0.020	0.03	0.000	0.00
PANEM	0.006	0.01	0.029	0.04	0.083	0.13
PIL	0.001	0.00	0.001	0.00	0.001	0.00
JNL	0.001	0.00	0.023	0.03	0.025	0.04
JPL	0.001	0.00	0.002	0.00	0.164	0.26
SIL	0.019	0.03	0.015	0.02	0.020	0.03
ESCL	0.040	0.06	0.108	0.15	0.093	0.15
UML	0.005	0.01	0.005	0.01	0.001	0.00
KECML	0.025	0.03	0.009	0.01	0.000	0.00
SEML	0.011	0.02	0.001	0.00	0.084	0.13
BSIL	0.015	0.02	0.013	0.02	0.055	0.09
TUML			0.027	0.04	0.001	0.00
SPL					0.144	0.23
SOVA					0.003	0.00
GVK					0	0
PRIVATE	**0.623**	**0.86**	**1.412**	**1.91**	**1.702**	**2.70**
ALL INDIA	**72.192**	**100.00**	**74.040**	**100.00**	**63.049**	**100.00**
LIGNITE :						
NLC	0.471	77.21	0.589	56.04	1.121	75.08
GMDCL						
GIPCL	0.127	20.82	0.452	43.01	0.296	19.83
GHCL	0.012	1.97	0.010	0.95	0.024	1.61
RSMML						
VSLPPL						
BLMCL					0.052	3.48
ALL INDIA	**0.610**	**100.00**	**1.051**	**100.00**	**1.493**	**100.00**
COAL & LIGNITE	**72.802**		**75.091**		**64.542**	

TABLE-5.7 : STATEWISE & COMPANYWISE PIT-HEAD CLOSING STOCK OF RAW COAL BY TYPE IN LAST THREE YEARS
(Quantity in Million Tonnes)

STATES	COAL COMPANY	2010-2011			2011-2012			2012-2013		
		Coking	N-Coking	**Total**	Coking	N-Coking	Total	Coking	N-Coking	Total
(1)	(2)	(3)	(4)	**(5)**	(3)	(4)	(5)	(3)	(4)	(5)
Andhra Pradesh	**SCCL**		**2.413**	**2.413**		3.038	**3.038**		3.020	**3.020**
Arunachal Pradesh	**APMDTCL**		**0.104**	**0.104**		**0.004**	**0.004**		**0.022**	**0.022**
Assam	**NEC**		**0.293**	**0.293**		**0.095**	**0.095**		**0.082**	**0.082**
Chhattisgarh	SECL	0.003	9.702	**9.705**	0.003	8.680	**8.683**	0.005	5.342	**5.347**
Chhattisgarh	MIL		0.007	**0.007**		0.012	**0.012**		0.008	**0.008**
Chhattisgarh	JSPL		0.005	**0.005**		0.010	**0.010**		0.010	**0.010**
Chhattisgarh	PIL		0.001	**0.001**		0.001	**0.001**		0.001	**0.001**
Chhattisgarh	JNL		0.001	**0.001**		0.023	**0.023**		0.025	**0.025**
Chhattisgarh	JPL		0.001	**0.001**		0.002	**0.002**		0.164	**0.164**
Chhattisgarh	SEML		0.011	**0.011**		0.001	**0.001**		0.084	**0.084**
Chhattisgarh	RRUVNL									**0.000**
Chhattisgarh	**TOTAL**	**0.003**	**9.728**	**9.731**	**0.003**	**8.729**	**8.732**	**0.005**	**5.634**	**5.639**
Jammu & Kashmir	**JKML**		**0.004**	**0.004**		**0.003**	**0.003**		**0.005**	**0.005**
Jharkhand	ECL	0.047	3.003	**3.050**	0.004	2.666	**2.670**	0.005	1.273	**1.278**
Jharkhand	BCCL	6.681	1.036	**7.717**	5.978	0.740	**6.718**	4.054	0.751	**4.805**
Jharkhand	CCL	5.583	10.580	**16.163**	4.724	10.375	**15.099**	3.615	7.889	**11.504**
Jharkhand	JSMDCL			**0.000**			**0.000**			**0.000**
Jharkhand	DVC	0.117		**0.117**	0.000		**0.000**		0.011	**0.011**
Jharkhand	IISCO	0		**0.000**	0.001		**0.001**	0.001		**0.001**
Jharkhand	TISCO	0.010		**0.010**	0.034		**0.034**	0.014		**0.014**
Jharkhand	CML	0.020		**0.020**	0.020		**0.020**			**0.000**
Jharkhand	PANEM		0.006	**0.006**		0.029	**0.029**		0.083	**0.083**
Jharkhand	UML		0.005	**0.005**		0.005	**0.005**		0.001	**0.001**
Jharkhand	ESCL	0.040		**0.040**	0.108		**0.108**	0.067	0.026	**0.093**
Jharkhand	SAIL			**0.000**			**0.000**		0.006	**0.006**
Jharkhand	GVK									**0.000**
Jharkhand	**TOTAL**	**12.498**	**14.630**	**27.128**	**10.869**	**13.815**	**24.684**	**7.756**	**10.040**	**17.796**
Madhya Pradesh	NCL		3.257	**3.257**		5.334	**5.334**		6.355	**6.355**
Madhya Pradesh	WCL	0.006	0.210	**0.216**	0.015	0.301	**0.316**	0.027	0.209	**0.236**
Madhya Pradesh	SECL		0.910	**0.910**		0.615	**0.615**		0.583	**0.583**
Madhya Pradesh	BLA		0.008	**0.008**		0.000	**0.000**			**0.000**
Madhya Pradesh	SPL								0.144	**0.144**
Madhya Pradesh	**TOTAL**	**0.006**	**4.385**	**4.391**	**0.015**	**6.250**	**6.265**	**0.027**	**7.291**	**7.318**
Maharashtra	WCL		3.734	**3.734**		4.777	**4.777**		5.580	**5.580**
Maharashtra	SIL		0.019	**0.019**		0.015	**0.015**		0.020	**0.020**
Maharashtra	KECML		0.025	**0.025**		0.009	**0.009**			**0.000**
Maharashtra	BSIL		0.015	**0.015**		0.013	**0.013**		0.055	**0.055**
Maharashtra	TUML					0.027	**0.027**		0.001	**0.001**
Maharashtra	**TOTAL**		**3.793**	**3.793**	**0.000**	**4.841**	**4.841**	**0.000**	**5.656**	**5.656**
Meghalaya	**PRIVATE**			**0.000**			**0.000**			**0.000**
Orissa	MCL		21.531	**21.531**		22.122	**22.122**		18.053	**18.053**
Orissa	HIL		0.080	**0.080**		0.139	**0.139**		0.122	**0.122**
Orissa	**TOTAL**		**21.611**	**21.611**		**22.261**	**22.261**		**18.175**	**18.175**
Uttar Pradesh	**NCL**		**0.798**	**0.798**		**1.509**	**1.509**		**3.224**	**3.224**
West Bengal	ECL	0.014	1.278	**1.292**	0.010	1.366	**1.376**	0.010	0.826	**0.836**
West Bengal	BCCL	0.232	0.002	**0.234**	0.235	0.002	**0.237**	0.238	0.047	**0.285**
West Bengal	IISCO		0.008	**0.008**		0.008	**0.008**		0.007	**0.007**
West Bengal	BECML		0.006	**0.006**		0.023	**0.023**		0.026	**0.026**
West Bengal	ICML		0.363	**0.363**		0.941	**0.941**		0.848	**0.848**
West Bengal	WBPDCL		0.002	**0.002**		0.006	**0.006**		0.013	**0.013**
West Bengal	DVC EMTA		0.021	**0.021**		0.017	**0.017**		0.009	**0.009**
West Bengal	WBMDTCL								0.085	**0.085**
West Bengal	SOVA								0.003	**0.003**
West Bengal	**TOTAL**	**0.246**	**1.680**	**1.926**	**0.245**	**2.363**	**2.608**	**0.248**	**1.864**	**2.112**
Total Public		**12.683**	**58.886**	**71.569**	**10.970**	**61.658**	**72.628**	**7.955**	**53.392**	**61.347**
Total Private		**0.070**	**0.553**	**0.623**	**0.162**	**1.250**	**1.412**	**0.081**	**1.621**	**1.702**
All India		**12.753**	**59.439**	**72.192**	**11.132**	**62.908**	**74.040**	**8.036**	**55.013**	**63.049**

Section VI

Pit-head Value, Price and Duty

6.1 Pit-head Value

6.1.1 We have already discussed coal production in India (including lignite) in the year 2012-13 in Section III. In this section an attempt has been made to discuss pit-head value, price and duty. Statement 6.1 provides state wise production and value for coal and lignite for the year 2012-13

Statement 6.1: State-wise Production (MT) and Value (Million Rs.) of Coal and Lignite for the year 2012-13

Coal	Production	Value
Andhra Pradesh	53.190	91695.8
Arunachal P.	0.073	483.6
Assam	0.605	3591.2
Chhattisgarh	117.830	90750.7
Jharkhand	111.274	175665.4
J & K	0.019	40.4
Madhya Pradesh	75.948	93738.0
Maharashtra	39.314	62356.8
Meghalaya	5.640	37365.0
Orissa	110.132	47256.8
Uttar Pradesh	16.090	35844.2
West Bengal	26.467	108398.7
ALL INDIA	**556.402**	**747186.6**
Lignite		
Gujarat	14.528	14990.9
Tamilnadu	24.844	37346.6
Rajasthan	7.081	2776.6
ALL INDIA	**46.453**	**58572.7**

6.1.2 As the total production of coal/lignite includes production of different grades, a better understanding requires grade-wise production and value. However, for a general time series view, Table 6.1 provides detailed data on total production and value of coal and lignite for every state for last five years.

6.1.3 Table 6.2 provides data on state-wise production of coal and its values by sector for captive and non-captive separately. After adoption of GCV Band Price since 2012, pit head (run of mine) price of coking coal of Coal India Limited during 2012-13 is given in Table 6.5 and 6.6.

The price of non-coking coal of CIL has been given in Table 6.8 and 6.9 and that of Singareni Collieries Company Limited in Table 6.10.

6.2 Price and Duty

6.2.1 Table 6.7 provides rate of stowing excise duty on coal since 1975. For the present, Stowing Excise Duty at uniform rate of Rs. 10 per tonne of despatch is levied from indigenous producers. Royalty rates on Indian coal and lignite has been discussed in Table 6.11. Import duty on coking and non-coking coal since 1992-93 has been given in Table 6.13. However, due to non-availability of data for 2011-12 and 2012-13, this could not be incorporated.

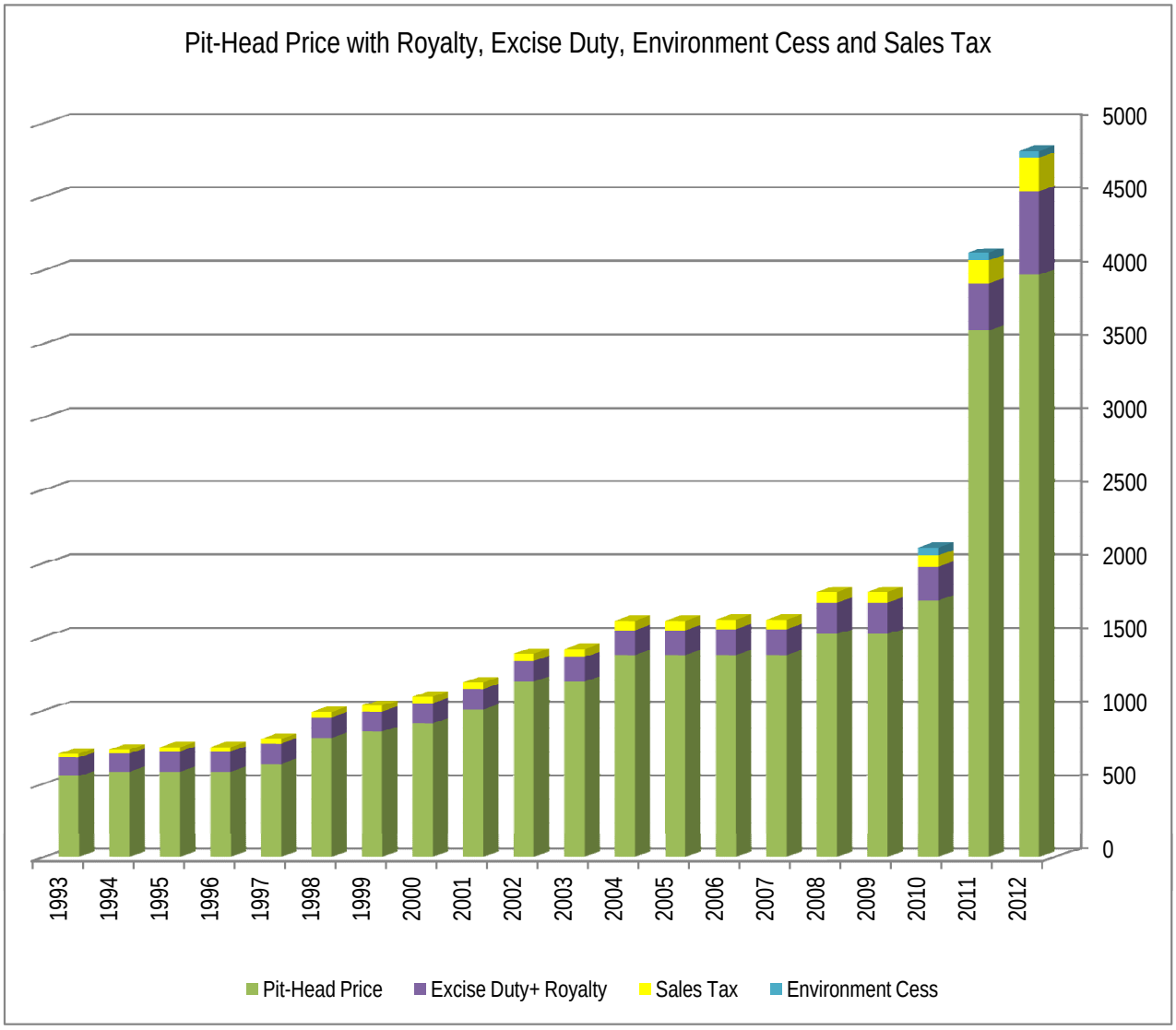

Pit-Head Price with Royalty, Excise Duty, Environment Cess and Sales Tax
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
Pit-Head Price
Excise Duty+ Royalty
Sales Tax
Environment Cess

TABLE 6.1: STATEWISE PRODUCTION OF COAL AND LIGNITE vis-à-vis VALUE DURING LAST FIVE YEARS

(Million Tonnes/ Million Rupees)

STATES	2008 - 09		2009-10		2010-11		2011-12		2012-13	
	Production	Value	Production	Value	Production	Value	Production	Value	Production	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
COAL :										
Andhra Pradesh	44.546	55682.5	50.429	67373.1	51.333	81106.1	52.211	90008.1	53.190	91695.8
Arunachal Pradesh	0.142	323.8	0.251	894.3	0.299	1106.0	0.221	1464.1	0.073	483.6
Assam	1.009	2707.9	1.113	3965.2	1.101	4072.6	0.602	3988.0	0.605	3591.2
Chhattisgarh	101.922	67873.6	109.953	50308.3	113.824	58256.2	113.958	70740.3	117.830	90750.7
Jammu & Kashmir	0.011	57.8	0.023	18.6	0.024	22.4	0.020	42.5	0.019	40.4
Jharkhand	96.272	96741.7	105.917	114630.0	108.949	185716.2	109.566	139887.6	111.274	175665.4
Maharashtra	38.705	47850.3	41.005	50887.5	39.336	53628.8	39.159	53112.6	39.134	62356.8
Meghalaya	5.489	12514.9	5.767	20545.6	6.974	25796.8	7.206	47739.8	5.640	37365.0
Madhya Pradesh	71.325	78404.1	74.074	84933.1	71.104	93673.6	71.123	83305.5	75.948	93737.9
Orissa	98.402	51725.7	106.409	58751.3	102.565	73545.3	105.476	96399.0	110.132	47256.8
Uttar Pradesh	12.029	8747.2	13.968	15067.8	15.526	15122.3	16.178	34369.5	16.090	35844.2
West Bengal	22.905	32740.7	23.133	45807.6	21.659	28164.1	24.230	80662.1	26.467	108398.7
ALL INDIA	**492.757**	**455370.1**	**532.04**	**513182.5**	**532.694**	**620210.4**	**539.950**	**701719.1**	**556.402**	**747186.6**
LIGNITE :										
Gujarat	10.114	8926.3	10.526	7013.7	13.064	13480.3	14.779	15249.9	14.528	14990.9
Tamilnadu	21.308	26791.6	22.338	30262.9	23.144	28755.3	24.590	36964.7	24.844	37346.6
Rajasthan	0.999	1160.0	1.207	479.4	1.525	1071.6	2.963	1161.8	7.081	2776.6
ALL INDIA	**32.421**	**36877.9**	**34.071**	**37756.0**	**37.733**	**43307.2**	**42.332**	**53376.5**	**46.453**	**58572.7**

Note : (1) Above mentioned value, computed on the basis of Basic Price, is the value of production

(2) Pit head value of Meghalaya coal estimated by NEC price.

(3) Value of private coal block, where not availble, are estimated by nearby CIL subsidiary basic price of the similar grade.

TABLE 6.2 : STATEWISE PRODUCTION OF COAL AND ITS VALUE - BY SECTOR & CAPTIVE / NON-CAPTIVE UNITS DURING 2012-13

(Million Tonnes/ Million Rupees)

Block	Sector	Quantity / Value	Andhra Pradesh	Arunachal Pradesh	Assam	Chhattisgarh	Jharkhand	Jammu & Kashmir	Madhya Pradesh	Maharashtra	Meghalaya	Orissa	Uttar Pradesh	West Bengal	**ALL INDIA**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	**(16)**
CAPTIVE	PUBLIC	Prdn.				0.293	0.865							2.600	**3.758**
		Value				1755.0	1272.6							7568.6	**10596.2**
	PRIVATE	Prdn.				14.500	14.880		0.525	3.157		2.237		6.223	**41.522**
		Value				14381.8	23961.7		1194.6	6243.2		1218.8		33074.5	**80074.5**
	TOTAL	Prdn.				14.793	15.745		0.525	3.157		2.237		8.823	**45.280**
		Value				16136.8	25234.3		1194.6	6243.2		1218.8		40643.1	**90670.7**
NON CAPTIVE	PUBLIC	Prdn.	53.190	0.073	0.605	103.037	95.529	0.019	75.423	35.977		107.895	16.090	17.644	**505.482**
		Value	91695.8	483.6	3591.2	74613.9	150431.1	40.4	92543.4	56113.6		46038.0	35844.2	67755.6	**619150.8**
	PRIVATE	Prdn.									5.640				**5.640**
		Value									37365.0				**37365.0**
	TOTAL	Prdn.	53.190	0.073	0.605	103.037	95.529	0.019	75.423	35.977	5.640	107.895	16.090	17.644	**511.122**
		Value	91695.8	483.6	3591.2	74613.9	150431.1	40.4	92543.4	56113.6	37365.0	46038.0	35844.2	67755.6	**656515.8**
TOTAL	**PUBLIC**	**Prdn.**	**53.190**	**0.073**	**0.605**	**103.330**	**96.394**	**0.019**	**75.423**	**35.977**	**0.000**	**107.895**	**16.090**	**20.244**	**509.240**
		Value	**91695.8**	**483.6**	**3591.2**	**76368.9**	**151703.7**	**40.4**	**92543.4**	**56113.6**	**0.0**	**46038.0**	**35844.2**	**75324.2**	**629747.0**
	PRIVATE	**Prdn.**				**14.500**	**14.880**		**0.525**	**3.157**	**5.640**	**2.237**		**6.223**	**47.162**
		Value				**14381.8**	**23961.7**		**1194.6**	**6243.2**	**37365.0**	**1218.8**		**33074.5**	**117439.5**
	TOTAL	**Prdn.**	**53.190**	**0.073**	**0.605**	**117.830**	**111.274**	**0.019**	**75.948**	**39.134**	**5.640**	**110.132**	**16.090**	**26.467**	**556.402**
		Value	**91695.8**	**483.6**	**3591.2**	**90750.7**	**175665.4**	**40.4**	**93738.0**	**62356.8**	**37365.0**	**47256.8**	**35844.2**	**108398.7**	**747186.6**

Table 6.3 : PITHEAD (RUN OF MINE) PRICE OF NON-COKING COAL PRIOR TO INTRODUCTION OF GCV (Rs. Per Tonne)

Applicable to Power Utilities (Including IIPs), Fertiliser and Defence Sector.

COMPANIES	Period	Grade of Coal							
		A	B	C	D	E	F	G	UNG
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ECL (Specified S P Mines)	15/06/04 - 12/12/07	1870	1670	1470	1270	850	650	450	
ECL (Specified S P Mines)	13/12/07 - 15/10/09	2060	1840	1620	1400	940	720	500	
ECL (Specified S P Mines)	16/10/09-26/2/11	2370	2120	1860	1610	1080	830	580	
ECL (Specified S P Mines)	27-02-2011 to 31-12-2011	4100	3990	1860	1610	1080	830	580	
ECL (Specified Raniganj)	01/04/04 - 12/12/07	1740	1640	1440	1240	770	570	380	
ECL (Specified Raniganj)	13/12/07 - 15/10/09	1910	1800	1580	1360	850	630	420	
ECL (Specified Raniganj)	15/10/09-26/2/11	2200	2070	1820	1560	980	730	480	
ECL (Specified Raniganj)	27-02-2011 to 31-12-2011	4100	3990	1820	1560	980	730	480	
ECL (Mugma)	15/06/04 - 12/12/07	1550	1380	1180	980	780	580	380	
ECL (Mugma)	13/12/07 - 15/10/09	1710	1520	1300	1080	860	640	420	
ECL (Mugma)	15/10/09-26/2/11	1970	1750	1500	1240	990	740	480	
ECL (Mugma) (NLF)	27-02-2011 to 31-12-2011	3690	3590	1500	1240	990	740	480	
ECL(Rajmahal)	15/06/04 - 12/12/07				1050 (LF)	810	690	550	
ECL(Rajmahal)	13/12/07 - 15/10/09				1160 (LF)	890	760	610	
ECL(Rajmahal)	15/10/09-26/2/11	x	x	x	1330 (LF)	1020	870	700	
ECL (Rajmahal) (NLF)	27-02-2011 to 31-12-2011	x	x	x	1330 (LF)	1020	870	700	
ECL (Others)	15/06/04 - 12/12/07	1350	1220	1020	820	620	480	340	
ECL (Others)	13/12/07 - 15/10/09	1490	1340	1120	900	680	530	370	
ECL (Others)	15/10/09-26/2/11	1710	1540	1290	1040	780	610	430	
ECL (Others) (NLF)	27-02-2011 to 31-12-2011	3690	3590	1290	1040	780	610	430	
BCCL	15/06/04 - 12/12/07	1310	1190	990	820	650	520	370	
BCCL	13/12/07 - 15/10/09	1440	1310	1090	900	720	570	410	
BCCL	15/10/09-26/2/11	1660	1510	1250	1040	830	660	470	
BCCL (LF)	27-02-2011 to 31-12-2011	4100	3990	1430	1210	x	x	x	
BCCL (NLF)	27-02-2011 to 31-12-2011	3690	3590	1250	1040	830	660	470	
CCL (Specified 7 units)	15/06/04 - 12/12/07	1600	1440	1240	1040	820	620	420	
CCL (Specified 7 units)	13/12/07 - 15/10/09	1760	1580	1360	1140	900	680	460	
CCL (Specified 7 units)	15/10/09-26/2/11	1940	1740	1500	1250	990	750	510	
CCL (Specified 7 units)	27-02-2011 to 31-12-2011	4100	3990	1500	1250	990	750	510	
CCL (Specified 16 units)	15/06/04 - 12/12/07	1500	1360	1160	970	x	x	x	
CCL (Specified 16 units)	13/12/07 - 15/10/09	1650	1500	1280	1070	x	x	x	
CCL (Specified 16 units)	15/10/09-26/2/11	1820	1650	1410	1180	x	x	x	
CCL (Specified 16 units)	27-02-2011 to 31-12-2011	4100	3990	1410	1180	x	x	x	
CCL (Others)	15/06/04 - 12/12/07	1340	1210	1010	830	650	520	370	
CCL (Others)	13/12/07 - 15/10/09	1470	1330	1110	910	720	570	410	
CCL (Others)	15/10/09-26/2/11	1620	1460	1220	1000	790	630	450	
CCL (Others) (NLF)	27-02-2011 to 31-12-2011	3690	3590	1220	1000	790	630	450	

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Table 6.3 : PITHEAD (RUN OF MINE) PRICE OF NON-COKING COAL PRIOR TO INTRODUCTION OF GCV (Rs. Per Tonne)

Applicable to Power Utilities (Including IIPs), Fertiliser and Defence Sector.

COMPANIES	Period	Grade of Coal							
		A	B	C	D	E	F	G	UNG
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
NCL	15/06/04 - 12/12/07	1230	1110	910	760	610	480	350	
NCL	13/12/07 - 15/10/09	1350	1220	1000	840	670	530	390	
NCL	15/10/09-26/2/11	1490	1340	1100	920	740	580	430	
NCL (LF)	27-02-2011 to 31-12-2011	4100	3990	1280	1080	x	x	x	
NCL (NLF)	27-02-2011 to 31-12-2011	3690	3590	1100	920	740	580	430	
WCL	15/06/04 - 12/12/07	1320	1250	1160	1100	900	710	540	
WCL	13/12/07 - 15/10/09	1450	1380	1280	1210	990	780	590	
WCL	15/10/09-26/2/11	1600	1520	1410	1330	1090	860	650	
WCL	27-02-2011 to 31-12-2011	4100	3990	1410	1330	1090	860	650	
SECL (Specified)	15/06/04 - 12/12/07	1330	1250	1070	920	720	520	360	
SECL (Specified)	13/12/07 - 15/10/09	1460	1380	1180	1010	790	570	400	
SECL (Specified)	15/10/09-26/2/11	1190	1110	950	800	660	520	390	
SECL (Korea Rewa)	27-02-2011 to 31-12-2011	4100	3990	1300	1110	870	630	440	
SECL (Korba & Raigarh) (LF)	27-02-2011 to 31-12-2011	4100	3990	1180	1010	x	x	x	
SECL (Korba & Raigarh) (NLF)	27-02-2011 to 31-12-2011	3690	3590	1050	880	730	570	430	
MCL	15/06/04 - 12/12/07	1610	1520	1300	1110	870	630	440	
MCL	13/12/07 - 15/10/09	1050	940	780	650	510	400	290	
MCL (LF)	27-02-2011 to 31-12-2011	4100	3990	1180	1010	x	x	x	
MCL (NLF)	27-02-2011 to 31-12-2011	3690	3590	1050	880	730	570	430	
NEC	15/06/04 - 12/12/07	1320	1050						
NEC	13/12/07 - 15/10/09	1520	1210						
NEC	15/10/09-26/2/11	2510	2000						
NEC	27-02-2011 to 31-12-2011	4100	3990	x	x	x	x	x	
SCCL *	13-01-2011 to 31-12-2011	2610	2220	1840	1500	1130	690	510	

Note: (i). The above mentioned Price is changed from January, 2012 based on the Gross Calorific Value (GCV). Please see table 6.8 to 6.10 for revised price of Non-coking Coal

* SCCL does not notfy separate price for sectors i.e. Power Utilty (Including IIP), Fertiliser and Dfenece and Other than this sector.

LF denotes Long Falme Coal and NLF denotes Non-long Flame Coal.

Source: Websites of CIL and SCCL

Table 6.4 : PITHEAD (RUN OF MINE) PRICE OF NON-COKING COAL PRIOR TO INTRODUCTION OF GCV (Rs. Per Tonne)

Applicable to Consumers Other Than Power Utilities (Including IIPs), Fertiliser and Defence Sector.

COMPANIES	Period	Grade of Coal							
		A	B	C	D	E	F	G	UNG
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ECL (Specified S P Mines)	15/06/04 - 12/12/07	1870	1670	1470	1270	850	650	450	
ECL (Specified S P Mines)	13/12/07 - 15/10/09	2060	1840	1620	1400	940	720	500	
ECL (Specified S P Mines)	16/10/09-26/2/11	2370	2120	1860	1610	1080	830	580	
ECL (Specified S P Mines)	27-02-2011 to 31-12-2011	4100	3990	2420	2090	1400	1080	750	
ECL (Specified Raniganj)	01/04/04 - 12/12/07	1740	1640	1440	1240	770	570	380	
ECL (Specified Raniganj)	13/12/07 - 15/10/09	1910	1800	1580	1360	850	630	420	
ECL (Specified Raniganj)	15/10/09-26/2/11	2200	2070	1820	1560	980	730	480	
ECL (Raniganj)	27-02-2011 to 31-12-2011	4100	3990	2370	2030	1270	950	620	
ECL (Mugma)	15/06/04 - 12/12/07	1550	1380	1180	980	780	580	380	
ECL (Mugma)	13/12/07 - 15/10/09	1710	1520	1300	1080	860	640	420	
ECL (Mugma)	15/10/09-26/2/11	1970	1750	1500	1240	990	740	480	
ECL (Mugma) (NLF)	27-02-2011 to 31-12-2011	3690	3590	1950	1610	1290	960	620	
ECL(Rajmahal)	15/06/04 - 12/12/07				1050 (LF)	810	690	550	
ECL(Rajmahal)	13/12/07 - 15/10/09				1160 (LF)	890	760	610	
ECL(Rajmahal)	15/10/09-26/2/11	x	x	x	1330 (LF)	1020	870	700	
ECL (Rajmahal) (NLF)	27-02-2011 to 31-12-2011	x	x	x	1730 (LF)	1330	1130	910	
ECL (Others)	15/06/04 - 12/12/07	1350	1220	1020	820	620	480	340	
ECL (Others)	13/12/07 - 15/10/09	1490	1340	1120	900	680	530	370	
ECL (Others)	15/10/09-26/2/11	1710	1540	1290	1040	780	610	430	
ECL (Others) (NLF)	27-02-2011 to 31-12-2011	3690	3590	1680	1350	1010	790	560	
BCCL	15/06/04 - 12/12/07	1310	1190	990	820	650	520	370	
BCCL	13/12/07 - 15/10/09	1440	1310	1090	900	720	570	410	
BCCL	15/10/09-26/2/11	1660	1510	1250	1040	830	660	470	
BCCL (LF)	27-02-2011 to 31-12-2011	4100	3990	1860	1570	x	x	x	
BCCL (NLF)	27-02-2011 to 31-12-2011	3690	3590	1630	1350	1080	860	610	
CCL (Specified 7 units)	15/06/04 - 12/12/07	1600	1440	1240	1040	820	620	420	
CCL (Specified 7 units)	13/12/07 - 15/10/09	1760	1580	1360	1140	900	680	460	
CCL (Specified 7 units)	15/10/09-26/2/11	1940	1740	1500	1250	990	750	510	
CCL (Specified 7 units)	27-02-2011 to 31-12-2011	4100	3990	1950	1630	1290	980	660	
CCL (Specified 16 units)	15/06/04 - 12/12/07	1500	1360	1160	970	x	x	x	
CCL (Specified 16 units)	13/12/07 - 15/10/09	1650	1500	1280	1070	x	x	x	
CCL (Specified 16 units)	15/10/09-26/2/11	1820	1650	1410	1180	x	x	x	
CCL (Specified 16 units)	27-02-2011 to 31-12-2011	4100	3990	1830	1530	x	x	x	
CCL (Others)	15/06/04 - 12/12/07	1340	1210	1010	830	650	520	370	
CCL (Others)	13/12/07 - 15/10/09	1470	1330	1110	910	720	570	410	
CCL (Others)	15/10/09-26/2/11	1620	1460	1220	1000	790	630	450	
CCL (Others) (NLF)	27-02-2011 to 31-12-2011	3690	3590	1590	1300	1030	820	590	

Contd….

Table 6.4 : PITHEAD (RUN OF MINE) PRICE OF NON-COKING COAL PRIOR TO INTRODUCTION OF GCV (Rs. Per Tonne)

Applicable to Consumers Other Than Power Utilities (Including IIPs), Fertiliser and Defence Sector.

COMPANIES	Period	Grade of Coal							
		A	B	C	D	E	F	G	UNG
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
NCL	15/06/04 - 12/12/07	1230	1110	910	760	610	480	350	
NCL	13/12/07 - 15/10/09	1350	1220	1000	840	670	530	390	
NCL	15/10/09-26/2/11	1490	1340	1100	920	740	580	430	
NCL (LF)	27-02-2011 to 31-12-2011	4100	3990	1660	1400	x	x	x	
NCL (NLF)	27-02-2011 to 31-12-2011	3690	3590	1430	1200	960	750	560	
WCL	15/06/04 - 12/12/07	1320	1250	1160	1100	900	710	540	
WCL	13/12/07 - 15/10/09	1450	1380	1280	1210	990	780	590	
WCL	15/10/09-26/2/11	1600	1520	1410	1330	1090	860	650	
WCL	27-02-2011 to 31-12-2011	4100	3990	1830	1730	1420	1120	850	
SECL (Specified)	15/06/04 - 12/12/07	1330	1250	1070	920	720	520	360	
SECL (Specified)	13/12/07 - 15/10/09	1460	1380	1180	1010	790	570	400	
SECL (Specified)	15/10/09-26/2/11	1190	1110	950	800	660	520	390	
SECL (Korea Rewa)	27-02-2011 to 31-12-2011	4100	3990	1690	1440	1130	820	570	
SECL (Korba & Raigarh) (LF)	27-02-2011 to 31-12-2011	4100	3990	1530	1310	x	x	x	
SECL (Korba & Raigarh) (NLF)	27-02-2011 to 31-12-2011	3690	3590	1370	1140	950	740	560	
MCL	15/06/04 - 12/12/07	1610	1520	1300	1110	870	630	440	
MCL	13/12/07 - 15/10/09	1050	940	780	650	510	400	290	
MCL (LF)	27-02-2011 to 31-12-2011	4100	3990	1530	1310	x	x	x	
MCL (NLF)	27-02-2011 to 31-12-2011	3690	3590	1370	1140	950	740	560	
NEC	15/06/04 - 12/12/07	1320	1050						
NEC	13/12/07 - 15/10/09	1520	1210						
NEC	15/10/09-26/2/11	2510	2000						
NEC	27-02-2011 to 31-12-2011	4100	3990	x	x	x	x	x	
SCCL *									

Note: The above mentioned Price is changed from January, 2012 based on the Gross Calorific Value (GCV). Please see table 6.8 to 6.10 for revised price of Non-coking Coal.

* SCCL does not notfy separate price for sectors i.e. Power Utilty (Including IIP), Fertiliser and Dfenece and Other than this sector. SCCL price is shown in Table 6.3

LF denotes Long Falme Coal and NLF denotes Non-long Flame Coal.

Source: Websites of CIL and SCCL

Table 6.5 : PIT HEAD (RUN OF MINE) PRICE OF COKING COAL IN 2012-13 (Rs. Per Tonne)

Applicable for Power Utilities (Including IIPs), Fertiliser and Defence Sector.

COMPANIES	Period	Grade of Coal							
		SI	SII	WI	WII	WIII	WIV	SCI	SCII
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ECL (Mugma / Raniganj)	15/06/04 - 12/12/07			1890	1570	1160	1080	1700	1420
ECL (Mugma / Raniganj)	13/12/07 - 15/10/09			2080	1730	1280	1190	1870	1560
ECL (Mugma / Raniganj)	15/10/09-26/2/11			2390	1990	1470	1370	2150	1790
ECL (Unspecified)	27-02-11 to 31-03-2013			2390	1990	1470	1370		
ECL (Raniganj)	27-02-11 to 31-03-2013							2150	1790
BCCL(specified)	15/06/04 - 12/12/07	2960	2480	2160	1560	1170	1080		
BCCL(specified)	13/12/07 - 15/10/09	3260	2730	2380	1720	1290	1190		
BCCL(specified)	15/10/09-26/2/11	3750	3140	2740	1980	1480	1370		
BCCL (Specified)	27-02-11 to 31-03-2013	3750	3140	2740	1980	1480	1370		
BCCL (Unspecified)	15/06/04 - 12/12/07			1600	1330	980	910		
BCCL (Unspecified)	13/12/07 - 15/10/09			1760	1460	1080	1000		
BCCL (Unspecified)	15/10/09-26/2/11			2020	1680	1240	1150		
BCCL (Unspecified)	27-02-11 to 31-03-2013			2020	1680	1240	1150		
CCL	15/06/04 - 12/12/07			1620	1340	990	930		
CCL	13/12/07 - 15/10/09			1780	1470	1090	1020		
CCL	15/10/09-26/2/11			1960	1620	1200	1120		
CCL	27-02-11 to 31-03-2013			1960	1620	1200	1120		
WCL	15/06/04 - 12/12/07				1160	1060			
WCL	13/12/07 - 15/10/09			1550	1280	1170			
WCL	15/10/09-26/2/11			1710	1410	1290			
WCL	27-02-11 to 31-03-2013			1710	1410	1290			
SECL	15/06/04 - 12/12/07							1440	1200
SECL	13/12/07 - 15/10/09							1580	1320
SECL	15/10/09-26/2/11							1740	1450
SECL	27-02-11 to 31-03-2013							1740	1450

Source: Websites of CIL.

Table 6.6 : PIT HEAD (RUN OF MINE) PRICE OF COKING COAL IN 2012-13 (Rs. Per Tonne)

(Applicable for Consumers Other Than Power Utilities (Including IIPs), Fertiliser and Defence.)

COMPANIES	Period	Grade of Coal							
		SI	SII	WI	WII	WIII	WIV	SCI	SCII
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ECL (Mugma / Raniganj)	15/06/04 - 12/12/07			1890	1570	1160	1080	1700	1420
ECL (Mugma / Raniganj)	13/12/07 - 15/10/09			2080	1730	1280	1190	1870	1560
ECL (Mugma / Raniganj)	15/10/09-26/2/11			2390	1990	1470	1370	2150	1790
ECL (Unspecified)	27-02-11 to 31-03-2013			3110	2590	1910	1780		
ECL (Raniganj)	27-02-11 to 31-03-2013							2800	2330
BCCL(specified)	15/06/04 - 12/12/07	2960	2480	2160	1560	1170	1080		
BCCL(specified)	13/12/07 - 15/10/09	3260	2730	2380	1720	1290	1190		
BCCL(specified)	15/10/09-26/2/11	3750	3140	2740	1980	1480	1370		
BCCL (Specified)	27-02-11 to 31-03-2013	4880	4080	3560	2570	1920	1780		
BCCL (Unspecified)	15/06/04 - 12/12/07			1600	1330	980	910		
BCCL (Unspecified)	13/12/07 - 15/10/09			1760	1460	1080	1000		
BCCL (Unspecified)	15/10/09-26/2/11			2020	1680	1240	1150		
BCCL (Unspecified)	27-02-11 to 31-03-2013			2630	2180	1610	1500		
CCL	15/06/04 - 12/12/07			1620	1340	990	930		
CCL	13/12/07 - 15/10/09			1780	1470	1090	1020		
CCL	15/10/09-26/2/11			1960	1620	1200	1120		
CCL	27-02-11 to 31-03-2013			2550	2110	1560	1460		
WCL	15/06/04 - 12/12/07				1160	1060			
WCL	13/12/07 - 15/10/09			1550	1280	1170			
WCL	15/10/09-26/2/11			1710	1410	1290			
WCL	27-02-11 to 31-03-2013			2220	1830	1680			
SECL	15/06/04 - 12/12/07							1440	1200
SECL	13/12/07 - 15/10/09							1580	1320
SECL	15/10/09-26/2/11							1740	1450
SECL	27-02-11 to 31-03-2013							2260	1890

Source: Websites of CIL

Table 6.7 : STOWING EXCISE DUTY ON INDIAN COAL SINCE 1975 (Rs./ Tonne)

	Rate of SED (Rs. Per Tonne)	
PERIOD	Coking Coal	Non Coking Coal
(1)	(2)	(3)
01/04/75 - 08/02/83	2.40	1.65
09/02/83 - 25/06/03	4.25	3.50
27/06/2003 - till date	10.00	10.00

Notes. (1) Since 29-11-1978, SED is charged on raw coal irrespective of location and ownership of Coal Mines, Washery and Coke Oven plants.

(2) SED is not charged on imported coal yet.

Table 6.8 : PIT HEAD (RUN OF MINE) PRICE (Rs. Per Tonne) OF NON-COKING COAL OF COAL INDIA LTD. SINCE 01-01-2012 to 20-06-2102

Grade of Coal	GCV Bands	Power Utilities (including IPPs) and Defence Sector	Sectors other than Power Utilities (including IPPs) and Defence Sector
(1)	(2)	(3)	(4)
G 1	Exceeding 7000	*	*
G 2	Exceeding 6700 and not exceeding 7000	4870	4870
G 3	Exceeding 6400 and not exceeding 6700	4420	4420
G 4	Exceeding 6100 and not exceeding 6400	3970	3970
G 5	Exceeding 5800 and not exceeding 6100	2800	2800
G 6	Exceeding 5500 and not exceeding 5800	1450	1960
G 7	Exceeding 5200 and not exceeding 5500	1270	1720
G 8	Exceeding 4900 and not exceeding 5200	1140	1540
G 9	Exceeding 4600 and not exceeding 4900	880	1180
G 10	Exceeding 4300 and not exceeding 4600	780	1050
G 11	Exceeding 4000 and not exceeding 4300	640	870
G 12	Exceeding 3700 and not exceeding 4000	600	810
G 13	Exceeding 3400 and not exceeding 3700	550	740
G 14	Exceeding 3100 and not exceeding 3400	500	680
G 15	Exceeding 2800 and not exceeding 3100	460	620
G 16	Exceeding 2500 and not exceeding 2800	410	550
G 17	Exceeding 2200 and not exceeding 2500	360	490

* For GCV exceeding 7000 Kcal/ Kg, the price shall be increased by Rs. 150/-per tonne over and above the price applicable for GCV band exceeding 6700 but not exceeding 7000 Kcal/Kg, for increase in GCV by every 100 Kcal/ Kg or part thereof.

NB : For WCL there shall be a 10% add-on over and above the price mentioned above for increase in GCV by every 100 Kcal/ Kg and below.

Source: CIL website

Table 6.9 : PIT HEAD (RUN OF MINE) PRICE (Rs. Per Tonne) OF NON-COKING COAL OF COAL INDIA LTD. SINCE 21-06-2102

Grade of Coal	GCV Bands	Power Utilities (including IPPs) and Defence Sector	Sectors other than Power Utilities (including IPPs) and Defence Sector
(1)	(2)	(3)	(4)
G 1	Exceeding 7000	*	*
G 2	Exceeding 6700 and not exceeding 7000	4870	4870
G 3	Exceeding 6400 and not exceeding 6700	4420	4420
G 4	Exceeding 6100 and not exceeding 6400	3970	3970
G 5	Exceeding 5800 and not exceeding 6100	2800	2800
G 6	Exceeding 5500 and not exceeding 5800	1740	2350
G 7	Exceeding 5200 and not exceeding 5500	1520	2050
G 8	Exceeding 4900 and not exceeding 5200	1370	1850
G 9	Exceeding 4600 and not exceeding 4900	1060	1430
G 10	Exceeding 4300 and not exceeding 4600	940	1270
G 11	Exceeding 4000 and not exceeding 4300	770	1040
G 12	Exceeding 3700 and not exceeding 4000	720	970
G 13	Exceeding 3400 and not exceeding 3700	660	890
G 14	Exceeding 3100 and not exceeding 3400	600	810
G 15	Exceeding 2800 and not exceeding 3100	550	740
G 16	Exceeding 2500 and not exceeding 2800	490	660
G 17	Exceeding 2200 and not exceeding 2500	430	580

* For GCV exceeding 7000 Kcal/ Kg, the price shall be increased by Rs. 150/-per tonne over and

Source: CIL website

Table 6.10 : PIT HEAD (RUN OF MINE) PRICE (Rs. Per Tonne) OF SINGARENI COLLIERIES COMPANY LTD.

Grade of Coal	GCV Band	Price (From 08-01-2012 to 31-03-2012)	Price (From 01-04-2012 to 31-03-2013)
(1)	(2)	(3)	(4)
G 1	Exceeding 7000	3542	3896
G 2	6701 to 7000	3393	3733
G 3	6401 to 6700	3244	3569
G 4	6101 to 6400	3032	3336
G 5	5801 to 6100	2886	3319
G 6	5501 to 5800	2360	2360
G 7	5201 to 5500	1840	1840
G 8	4901 to 5200	1700	1700
G 9	4600 to 4900	1500	1500
G 10	4301 to 4600	1400	1400
G 11	4001 to 4300	1130	1130
G 12	3701 to 4000	910	910
G 13	3401 to 3700	690	690
G 14	3001 to 3400	610	610
G 15	2801 to 3100	510	510
G 16	2501 to 2800	474	474
G 17	2201 to 2500	420	420

The above price is exclusive of any statutory Levies.

Source: SCCL website

Table 6.11 : ROYALTY RATES ON INDIAN COAL AND LIGNITE (Rs./ Tonne)

Coal category	With effect from -->	01.01.2012		10-05-2012 till date	
		All states except W.B.	W.B.	All states except W.B.	W. B.
(1)	(2)	(3)	(4)	(5)	(6)
Group I	**Coking coal** Steel grade I, Steel grade II, Washery grade I, Direct Feed Hand picked coal (Assam, Arunachal Pradesh Meghalaya & Nagaland)	180+0.05P	7.00	14% ad-valorem on price of coal as reflected in the invoice excluding taxes, levies and other charges	7.00
Group II	**Coking coal** Washery grade II, Washery grade III **Semi-Coking coal** Semi Coke grade I, Semi Coke grade II **Non-coking coal** GCV (Kcal/ Kg) range 6101 and above **Ungraded R.O.M. coal (** Assam, Arunachal Pradesh, Meghalaya & Nagaland)	130+0.05P	6.50		6.50
Group III	**Coking coal** Washery grade IV **Non-coking coal** GCV (Kcal/KG) in the range 5201-6100	90+0.05P	5.50		5.50
Group IV	**Non-coking coal** GCV (Kcal/Kg) in the range 4301-5200	70+0.05P	4.30		4.30
Group V	**Non-coking coal** GCV (Kcal/Kg) in the range 3101-4300 **Lignite** **Middling (GCV <3100)**	55+0.05P 45+0.02P 45+0.05P	2.50		2.50
Group VI	**Coal produced in Andhra Pradesh (SCCL)**				

Note: Besides Royalty, other charges viz. Stowing Excise Duty, Excise Duty, Cess, Sales Tax, VAT etc. are levied by the Central and State Governments at the rates applicable from time to time.

Table 6.12 : PRICES OF SELECTED GRADES OF STEAM COAL AND COKING COAL FROM SPECIFIED SOURCES

Year & Quarter	Steam Coal for Industry (per tonne)							Steam Coal for Electricity Generation (per tonne)							Coking Coal for Industry (per tonne)						
	Pit head Price	Excise & Royalty	Sales Tax (%)	Sales tax Amount	Clean Energy Cess	Total Tax	**Total Price**	Pit head Price	Excise & Royalty	Sales Tax (%)	Sales tax Amount	Clean Energy Cess	Total Tax	**Total Price**	Pit head Price	Excise & Royalty	Sales Tax (%)	Sales tax Amount	Clean Energy Cess	Total Tax	**Total Price**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	**(8)**	(9)	(10)	(11)	(12)	(13)	(14)	**(15)**	(16)	(17)	(18)	(19)	(20)	(21)	**(22)**
1993	557.00	123.50	4.00	27.22		150.72	**707.72**	306	48.5	4.00	14.18		66.7	**372.7**	831	154.25	4.00	39.41		193.66	**1024.66**
1994	586.00	123.50	4.00	28.38		151.88	**737.88**	322	48.5	4.00	14.82		67.3	**389.3**	875	154.25	4.00	41.17		195.42	**1070.42**
1995	586.00	138.50	4.00	28.98		167.48	**753.48**	322	73.5	4.00	15.82		93.3	**415.3**	875	199.25	4.00	42.97		242.22	**1117.22**
1996	586.00	138.50	4.00	28.98		167.48	**753.48**	465	73.5	4.00	21.54		99.0	**564.0**	1094	199.25	4.00	51.73		250.98	**1344.98**
1997	638.00	138.50	4.00	31.06		169.56	**807.56**	559	73.5	4.00	25.30		102.8	**661.8**	1226	199.25	4.00	57.01		256.26	**1482.26**
1998	815.00	138.50	4.00	38.14		176.64	**991.64**	559	73.5	4.00	25.30		102.8	**661.8**	1287	199.25	4.00	59.45		258.70	**1545.70**
1999	856.00	138.50	4.00	39.78		178.28	**1034.28**	598	73.5	4.00	26.86		104.4	**702.4**	1384	199.25	4.00	63.33		262.58	**1646.58**
2000	915.00	138.50	4.00	42.14		180.64	**1095.64**	639	73.5	4.00	28.50		106.0	**745.0**	1453	199.25	4.00	66.09		265.34	**1718.34**
2001	1007.00	138.50	4.00	45.82		184.32	**1191.32**	703	73.5	4.00	31.06		108.6	**811.6**	1598	199.25	4.00	71.89		271.14	**1869.14**
2002	1197.00	138.50	4.00	53.42		191.92	**1388.92**	703	73.5	4.00	31.06		108.6	**811.6**	1598	199.25	4.00	71.89		271.14	**1869.14**
2003	1197.00	168.50	4.00	54.62		223.12	**1420.12**	703	88.5	4.00	31.66		124.2	**827.2**	1650	254.25	4.00	76.17		330.42	**1980.42**
2004	1380.00	168.50	4.00	61.94		230.44	**1610.44**	810	88.5	4.00	35.94		128.4	**938.4**	2480	254.25	4.00	109.37		363.62	**2843.62**
2005	1380.00	168.50	4.00	61.94		230.44	**1610.44**	810	88.5	4.00	35.94		128.4	**938.4**	2480	254.25	4.00	109.37		363.62	**2843.62**
2006	1380.00	175.00	4.00	62.20		237.20	**1617.20**	810	95.0	4.00	36.20		135.2	**945.2**	2480	260.00	4.00	109.60		369.60	**2849.60**
2007	1380.00	175.00	4.00	62.20		237.20	**1617.20**	810	95.0	4.00	36.20		135.2	**945.2**	2480	260.00	4.00	109.60		369.60	**2849.60**
2008	1520.00	216.00	4.00	69.44		285.44	**1805.44**	890	184.5	4.00	42.98		231.5	**1121.5**	2730	326.50	4.00	122.26		448.76	**3178.76**
2009	1520.00	216.00	4.00	69.44		285.44	**1805.44**	890	184.5	4.00	42.98		231.5	**1121.5**	2730	326.50	4.00	122.26		448.76	**3178.76**
2010	1750.00	227.50	4.00	79.10	50.00	356.60	**2106.60**	1020	191.0	4.00	48.44	50	289.4	**1309.4**	3140	347.00	4.00	139.48	50	536.48	**3676.48**
2011	3590.00	319.50	4.00	156.38	50.00	525.88	**4115.88**	1020	191.0	4.00	48.44	50	289.4	**1309.4**	4080	394.00	4.00	178.96	50	622.96	**4702.96**
2012	3970.00	565.80	5.00	226.79	50.00	842.59	**4812.59**	1050	157.0	5.00	60.35	50	267.4	**1317.4**	4080	581.20	5.00	233.06	50	864.26	**4944.26**
2013	NA							NA							NA						

Note: (1) Prices of Calender year related to 1st July of the calendar.

TABLE 6.13: IMPORT DUTIES ON COKING AND NON-COKING COAL IMPORTED TO INDIA

Year/ w.e.f	Import duties							
	Coking Coal: Ash < 12%		Coking Coal: Ash > 12%		Non-Coking Coal		Coke	
	Basic Duties (advelorem)	Effective Duties	Basic Duties (advelorem)	Total effective Duties	Basic Duties (advelorem)	Total effective Duties	Basic Duties (advelorem)	Total effective Duties
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1992-93	5%	5%	85%	85%	85%	85%	85%	85%
1993-94	5%	5%	85%	85%	85%	85%	85%	85%
1994-95	5%	5%	35%	35%	35%	35%	35%	35%
1995-96	5%	5%	35%	35%	35%	35%	35%	35%
1996-97	3%	5%	22%	22%	20%	22%	20%	22%
1997-98	3%	8%	15%	15%	10%	15%	10%	15%
1998-99	3%	12.32%	15%	19.60%	10%	19.60%	10%	19.60%
1999-00	5%	9.72%	15%	21.16%	15%	21.16%	15%	21.16%
2000-01	5%	9.72%	15%	21.16%	25%	32.60%	15%	21.16%
2001-02	5%	9.20%	15%	19.60%	25%	30.00%	15%	19.60%
2002-03	5%	9.20%	15%	19.60%	25%	30.00%	5%/15%	9.2%/19.6%
2003-04	5%	9.20%	15%	19.60%	25%	30.00%	10%	14.40%
2003-04 (9.1.2004)	5%	5.00%	15%	15.00%	15%	15.00%	10%	10.00%
2003-04 (28.2.2004)	0%	0.00%	5%	5.00%	5%	5.00%	5%	5.00%
2004-05 (1.3.2005)	0%	0.00%	5%	5.00%	5%	5.00%	5%	5.00%
2005-06	0%	0.00%	5%	5.00%	5%	5.00%	5%	5.00%
2006-07 (1.4.2006)	0%	0.00%	5%	5.00%	5%	5.00%	5%	5.00%
2007-08 (1.4.2007)	0%	0.00%	5%	5.00%	5%	5.00%	5%	5.00%
2008-09	0%	0.00%	5%	5.00%	5%	5.00%	5%	5.00%
2009-10	0%	0.00%	5%	5.00%	5%	5.00%	5%	5.00%
2010-11	0%	0.00%	5%	5.00%	5%	5.00%	5%	5.00%
2011-12	Data not available							
2012-13	Data not available							

Section VII

Import & Export

7.1. In spite of sufficient coal reserve, we have not been able to meet our demand from our own production. Moreover, the supply of high quality coal (low-ash coal) in the country has been more limited than the low quality coal. Therefore, to bridge the demand-supply gap as well as sweeten indigenous production, we have no option but to resort to import of coal, especially low-ash coal.

7.2 As per our Import Policy 1993-94, coal has been put under Open General License (OGL) and therefore consumers are free to import coal based on their requirement. Superior quality non-coking coal is imported mainly by coast-based power plants and other industrial users viz., paper, sponge iron, cements and captive power plants, on consideration of transport logistics, commercial prudence, export entitlements and inadequate availability of such superior coal from indigenous sources.

7.3 In 2012-13, import of coal by India was 145.785 MT (value Rs. 868455 Million) against import of 102.853 MT (value Rs. 788376 Million) registered in 2011-12. This shows an increase of 41.74% in quantity and 10.16% in value over the previous year. The share of coking and non-coking coal has been noticed as follows:

Statement 7.1: Import of Coal to India in 2012-13

Type of Coal	Quantity [MT]	Value [Rs. Million]
Coking	35.557	378398
Non-Coking	110.228	490057
Total	**145.785**	**868455**

It is observed that the share of coking coal in the total quantity was 24.39% which in value terms accounted for 43.57%.

7.4 Statement 7.2 depicts source country wise import of coal in India in 2012-13. It can be seen that Indonesia with 56.52% [82.393 MT] share has remained the leading supplier followed by Australia with 20.89% [30.450 MT] and South Africa 13.92% [20.293 MT]. These three countries together accounted for 91.32% of the total import to India in 2012-13.

Statement 7.2: Source Country-Wise Import of Coal to India during 2012-13

Country	Quantity [MT]	% Share
Indonesia	82.393	56.52
Australia	30.450	20.89
South Africa	20.293	13.92
USA	6.389	4.38
New Zealand	1.047	0.72
Others	5.213	3.57
Total	**145.785**	**100.00**

7.5 The break-up of source country wise Import for coking and non-coking coal is given in statement 7.3 and statement 7.4 respectively.

Statement 7.3 Source Country-Wise Import of Coking Coal to India during 2012-13

Country	Quantity [MT]	% Share
Australia	27.484	77.30
USA	3.307	9.30
South africa	1.459	4.10
New Zealand	1.047	2.94
Others	2.260	6.36
Total	**35.557**	**100.00**

Statement 7.4 Source Country-Wise Import of Non-Coking Coal to India during 2012-13		
Country	Quantity [MT]	% Share
Indonesia	82.169	74.54
South africa	18.834	17.09
Australia	2.967	2.69
USA	3.083	2.80
Others	3.175	2.88
Total	**110.228**	**100.00**

7.6 Demand of coal of the country and its production vis-à-vis import during the last five years are given in statement 7.5.

Statement 7.5: Demand, Production and Import of Coal in India in last five years [MT]			
Year	Demand*	Production	Import
2008-09	550.00	492.757	59.003
2009-10	604.33	532.042	73.255
2010-11	656.31	532.694	68.918
2011-12	696.03	539.950	102.853
2012-13	772.84	556.402	145.785

*Source: Annual Plan, MOC

7.7 Export of Coal**:** Although, there is short supply of coal in India compared to its demand and it has to resort to import of coal, India do export some quantity of coal to its neighboring country. In the year 2012-13, the total export was 2.443 MT. Here, Bangladesh accounted for (66.35%) of export followed by Nepal (25.67%) and Bhutan (3.93%).

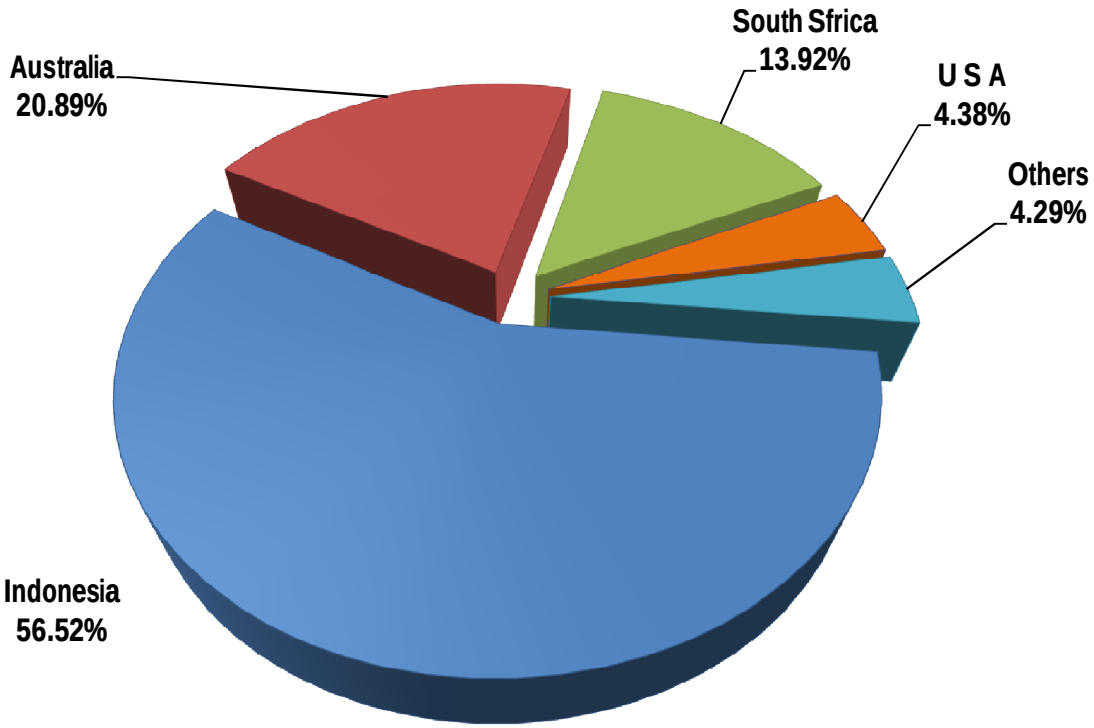
Statement 7.6: Export of Coal from India by destination countries during 2012-13		
Country	Quantity [MT]	% Share
Bangladesh PR	1.621	66.35
Nepal	0.627	25.67
Bhutan	0.096	3.93
United Arab Emeritus	0.050	2.05
Pakistan	0.046	1.88
Others	0.003	0.12
Total	**2.443**	**100.00**

The break-up of destination country wise Export for coking and non-coking coal is given in Statement 7.7 and 7.8.

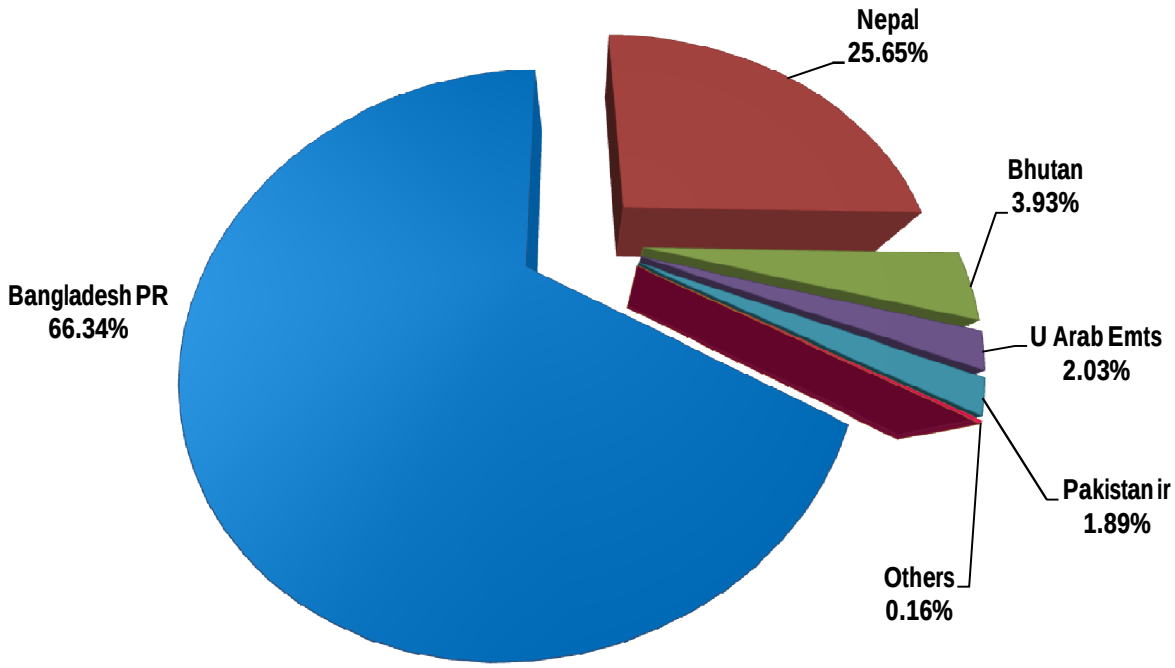
Statement 7.7: Export of Coking Coal from India by destination during 2012-13		
Country	Quantity [MT]	% Share
Bangladesh PR	0.036	64.29%
Nepal	0.015	26.79%
Bhutan	0.005	8.93%
Total	**0.056**	100.00%

Statement 7.8: Export of Non-coking Coal from India by destination during 2012-13		
Country	Quantity [MT]	% Share
Bangladesh PR	1.585	66.40
Nepal	0.612	25.64
Bhutan	0.091	3.81
United Arab Emts	0.05	2.09
Pakistan	0.046	1.93
Others	0.003	0.13
Total	**2.387**	**100.00**

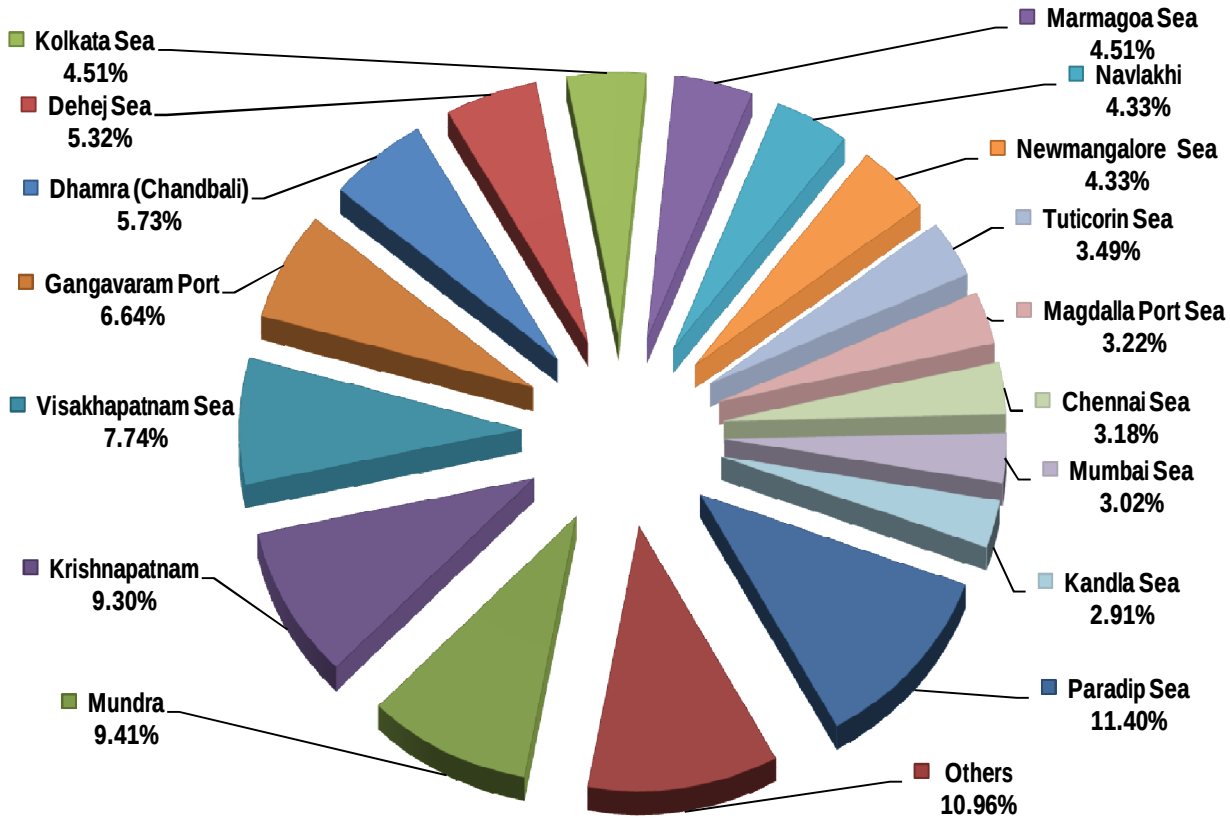
Ch.7.1: SHARE OF COUNTRY WISE IMPORT OF COAL IN 2012-13



Ch.7.2: SHARE OF COUNTRY WISE EXPORT OF COAL IN 2012-13



Ch.7.3 : SHARE OF PORT WISE IMPORT OF COAL IN 2012-13



Ch.7.4 : SHARE OF PORT WISE EXPORT OF COAL IN 2012-13

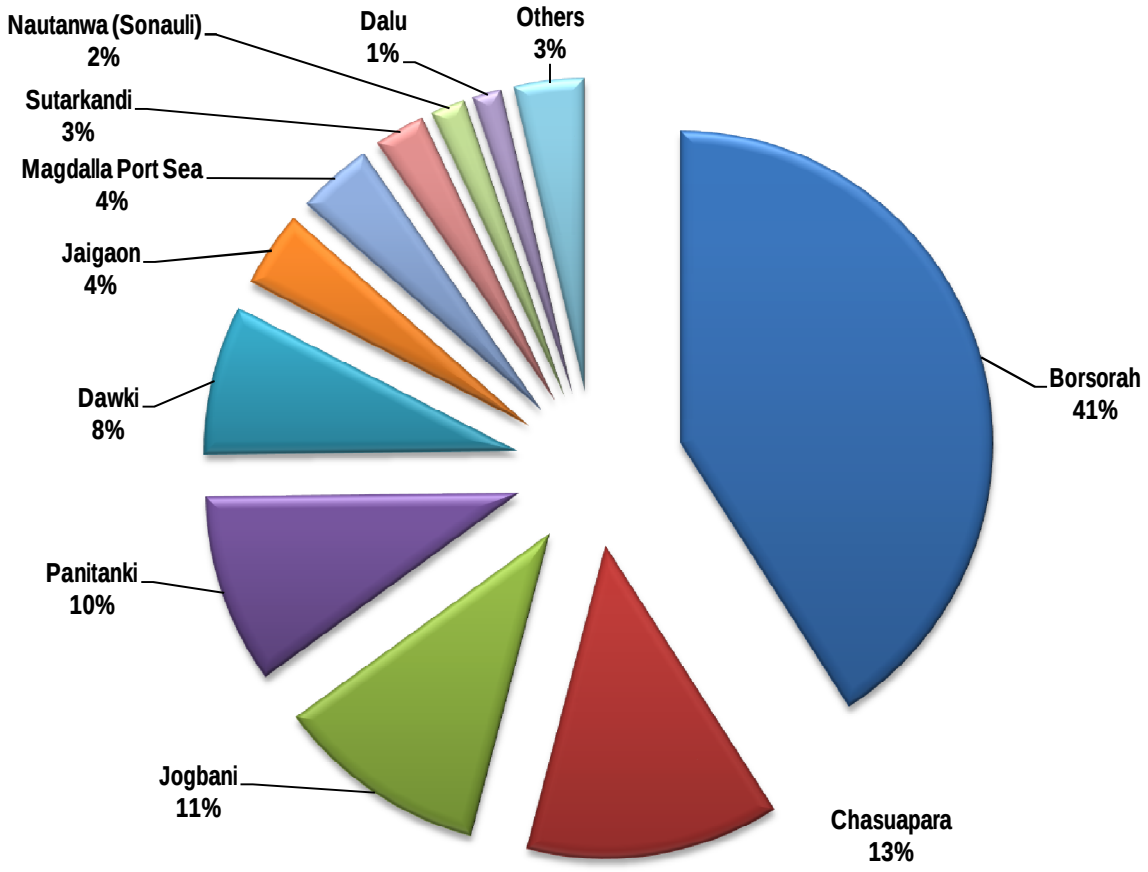


TABLE 7.1 : YEAR WISE IMPORT OF COAL AND COKE TO INDIA DURING LAST TEN YEARS

(Quantity in Million Tonne & Value in Million Rs.)

Year	Coking Coal		Non Coking Coal		**Total Coal**		Coke & Others Coal Products		Lignite	
	Quantity	Value	Quantity	Value	**Quantity**	**Value**	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2003-04	12.992	36702	8.691	13385	**21.683**	**50087**	1.894	14741		
2004-05	16.925	72432	12.025	30228	**28.950**	**102660**	2.840	38018		
2005-06	16.891	95373	21.695	53722	**38.586**	**149095**	2.619	22186		
2006-07	17.877	101806	25.204	65080	**43.081**	**166886**	4.686	40211		
2007-08	22.029	121025	27.765	86358	**49.794**	**207384**	4.248	51231		
2008-09	21.080	226140	37.923	187268	**59.003**	**413408**	1.881	46051		
2009-10	24.690	201311	48.565	190489	**73.255**	**391800**	2.355	33311		
2010-11	19.484	208621	49.434	206875	**68.918**	**415496**	1.490	31204		
2011-12	31.801	424692	71.052	363683	**102.853**	**788376**	2.365	47585		
2012-13	35.557	378398	110.228	490057	**145.785**	**868455**	3.081	56919	0.0006	10

TABLE 7.2 : YEAR WISE EXPORT OF COAL AND COKE FROM INDIA DURING LAST TEN YEARS

(Quantity in Million Tonne & Value in Million Rs.)

Year	Coking Coal		Non Coking Coal		**Total Coal**		Coke & Others Coal Products		Lignite	
	Quantity	Value	Quantity	Value	**Quantity**	**Value**	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2003-04	0.158	252	1.469	2670	**1.627**	**2922**	0.197	100		
2004-05	0.240	378	1.134	2040	**1.374**	**2418**	0.155	841		
2005-06	0.046	88	1.943	2585	**1.989**	**2673**	0.157	790		
2006-07	0.107	222	1.447	2915	**1.554**	**3137**	0.076	323		
2007-08	0.036	84	1.591	2684	**1.627**	**2768**	0.097	987		
2008-09	0.109	245	1.546	3240	**1.655**	**3485**	1.338	7246		
2009-10	0.270	696	2.180	4347	**2.450**	**5042**	0.129	2080		
2010-11	0.111	265	1.764	4544	**1.875**	**4809**	0.729	11647		
2011-12	0.097	287	1.917	5525	**2.014**	**5900**	0.613	11525		
2012-13	0.056	302	2.387	8349	**2.443**	**8651**	1.201	6017	0.069	360

Note: **Source:** DGCI & S , KOLKATA

(1) Coke also includes soft coke, retort carbon which are negligible

(2) Some figures may not match with DGCI&S publication due to subsequent corrections and roundings.

(3) Coking coal, appeared to be exported from Meghalaya, should be treated as non coking coal for accounting purpose.

(4) Export data for 2009-10 and 2010-11 are revised.

TABLE 7.3 : SOURCE COUNTRY-WISE IMPORT OF COAL, COKE AND LIGNITE TO INDIA DURING 2012-13

(Quantity in Million Tonnes & Value in Million Rs.)

Country	Coking Coal		Non Coking Coal		**Total Coal**		Coke & Others Coal Products		Lignite	
	Quantity	Value	Quantity	Value	**Quantity**	**Value**	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Australia	27.484	295040	2.967	20929	**30.450**	**315969**	0.040	655		
Austria	0.017	181			**0.017**	**181**				
Bangladesh pr							0.000	4		
Bosnia-hrzgovin							0.042	763		
Canada	0.873	10153	0.126	691	**0.999**	**10843**				
China PRP			0.015	342	**0.015**	**342**	0.104	2418	0.0003	5
Colombia	0.070	678	0.185	1354	**0.255**	**2032**	0.335	5539		
Germany			0.000	14	**0.000**	**14**		0		
Indonesia	0.224	2361	82.169	327345	**82.393**	**329706**				
Ireland							0.000	1		
Italy			0.020	130	**0.020**	**130**	0.015	236		
Japan							0.754	14544		
Korea rp							0.015	261		
Latvia			0.052	403	**0.052**	**403**	0.004	47		
Lithuania							0.000	0		
Mauritius			0.000	0	**0.000**	**0**				
Mongolia	0.033	417			**0.033**	**417**				
Mozambique	0.904	9759	0.074	428	**0.978**	**10187**				
Netherland			0.000	1	**0.000**	**1**	0.000	0		
New Zealand	1.047	11356			**1.047**	**11356**				
Pakistan ir			0.004	24	**0.004**	**24**				
Philippines			0.165	562	**0.165**	**562**				
Poland							0.409	7761		
Russia	0.063	607	0.308	2957	**0.371**	**3564**	0.371	6802		
Singapore			0.060	351	**0.060**	**351**				
South Sfrica	1.459	9147	18.834	104418	**20.293**	**113565**	0.002	26		
Spain			0.000	3	**0.000**	**3**	0.000	6		
Turkey									0.0002	4
U Arab Emts			0.000	1	**0.000**	**1**				
U K	0.002	49	0.000	2	**0.002**	**50**	0.000	5		
U S A	3.307	37497	3.083	17535	**6.389**	**55033**		0	0.0001	1
Ukraine			0.257	2515	**0.257**	**2515**	0.910	16368		
Venezuela			0.000	1	**0.000**	**1**				
Vietnam SOC REP			0.063	966	**0.063**	**966**	0.078	1484		
Unspecified	0.075	1153	1.846	9086	**1.921**	**10240**				
TOTAL	**35.557**	**378398**	**110.228**	**490057**	**145.785**	**868455**	**3.081**	**56919**	**0.0006**	**10**

Source: DGCI & S , KOLKATA

TABLE 7.4 : DESTINATION COUNTRY-WISE EXPORT OF COAL, COKE AND LIGNITE TO INDIA DURING 2012-13

(Quantity in Million Tonnes & Value in Million Rs.)

Country	Coking Coal		Non Coking Coal		**Total Coal**		Coke & Others Coal Products		Lignite	
	Quantity	Value	Quantity	Value	**Quantity**	**Value**	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Albania					0.000	0			0.000	4
Australia	0.000	0			0.000	0				
Austria			0.000	0	0.000	0				
Baharain			0.000	2	0.000	2	0.004	71		
Bangladesh PR	0.036	166	1.585	5597	1.621	5763	0.001	11	0.000	1
Bhutan	0.005	62	0.091	366	0.096	428	0.629	436	0.003	40
Brazil					0.000	0	0.139	2502		
Brunei					0.000	0			0.000	2
China PRP					0.000	0	0.060	288		
Djibouti	0.000	0			0.000	0	0.014	68	0.048	229
Ethiopia					0.000	0	0.000	1		
Germany			0.000	0	0.000	0	0.000	0		
Ghana					0.000	0	0.000	0		
Indonesia					0.000	0	0.000	0	0.000	8
Iran					0.000	0	0.000	0		
Iraq					0.000	0			0.000	2
Italy					0.000	0			0.000	9
Japan					0.000	0	0.000	1		
Jordan					0.000	0	0.000	6		
Kenya					0.000	0	0.000	1		
Korea rp					0.000	0	0.002	41		
Kuwait					0.000	0	0.002	43		
Malaysia			0.001	15	0.001	15	0.081	1282		
Morocco					0.000	0	0.000	0		
Mozambique					0.000	0	0.000	0		
Nepal	0.015	69	0.612	1929	0.627	1999	0.190	459	0.017	2
Netherland					0.000	0			0.000	3
Oman	0.000	2	0.000	1	0.000	3	0.000	0	0.000	14
Pakistan ir			0.046	218	0.046	218	0.025	303		
Qatar			0.000	0	0.000	0				
Saudi Arab			0.000	3	0.000	3	0.001	19		
Singapore					0.000	0	0.000	0	0.000	2
South Africa					0.000	0	0.000	4		
Sri Lanka DSR			0.001	1	0.001	1	0.001	36	0.000	1
Taiwan					0.000	0	0.012	233		
Tanzania REP			0.000	0	0.000	0	0.000	0	0.000	4
Turkey			0.000	0	0.000	0				
U Arab Emts			0.050	212	0.050	212	0.040	211	0.000	1
U S A			0.000	0	0.000	0	0.000	0	0.000	39
Uganda			0.000	0	0.000	0				
Unspecified	0.000	2	0.001	4	0.001	6	0.000	0		
TOTAL	**0.056**	**302**	**2.387**	**8349**	**2.443**	**8651**	**1.201**	**6017**	**0.069**	**360**

Source: DGCI & S , KOLKATA

TABLE 7.5 : PORT WISE IMPORT OF COAL, COKE & LIGNITE TO INDIA DURING 2012-13

(Quantity in Million Tonnes & Value in Million Rs.)

Port	Coking Coal		Non Coking Coal		**Total Coal**		Coke & Others		Lignite	
	Quantity	Value	Quantity	Value	**Quantity**	**Value**	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Ahmedabad Air C.Complex								0		
Appiic Multi P.Sez Vizag DC			0.010	73	**0.010**	**73**				
Attariroad, Amritsar			0.004	24	**0.004**	**24**				
Bedi Sea	0.329	2921	3.611	10737	**3.939**	**13658**				
Bhavnagar			0.305	1050	**0.305**	**1050**				
Chennai Air	0.000	0			**0.000**	**0**				
Chennai Sea	0.110	1314	4.526	22191	**4.637**	**23505**	0.000	1		
Cochin Sea			0.018	64	**0.018**	**64**	0.001	8		
Dehej Sea			7.750	32961	**7.750**	**32961**				
Delhi (ICD)			0.000	0	**0.000**	**0**	0.000	2		
Dhamra (Chandbali)	3.142	30942	5.206	28540	**8.348**	**59483**				
Ennore Sea	0.083	773	1.422	4473	**1.506**	**5246**	0.075	1349		
Gangavaram Port	4.489	49977	5.197	24132	**9.685**	**74110**				
Hyderabad Airport	0.000	0			**0.000**	**0**				
ICD Bangalore			0.000	2	**0.000**	**2**				
ICD Bhusawal							0.003	33		
ICD Ludhiana			0.001	13	**0.001**	**13**				
Kakinada Sea			2.127	8789	**2.127**	**8789**				
Kandla Sea	0.329	3521	3.921	13477	**4.249**	**16998**				
Karikal	0.681	7501	3.294	16009	**3.975**	**23510**				
Kiadb Food Sez Karnataka			0.015	44	**0.015**	**44**				
Kiadb Textile Sez Karnataka			0.078	241	**0.078**	**241**				
Kolkata Air	0.000	0			**0.000**	**0**				
Kolkata Sea	4.412	49663	2.161	11364	**6.573**	**61026**	0.853	16256	0.000	5
Krishnapatnam	1.384	13446	12.170	54699	**13.555**	**68145**	0.039	773		
Magdalla Port Sea	0.762	6195	3.929	16381	**4.692**	**22575**	0.983	17609		
Marmagoa Sea	5.407	55078	1.162	6339	**6.569**	**61417**	0.087	1642		
Muldwarka			0.663	3129	**0.663**	**3129**				
Mumbai Air		0	0.000	1	**0.000**	**1**	0.000	0		
Mumbai Sea			4.407	24239	**4.407**	**24239**	0.000	0		
Mundra	1.407	13524	12.318	52186	**13.725**	**65710**	0.001	4	0.000	1
Navlakhi	0.005	24	6.307	25410	**6.312**	**25434**				
Newmangalore Sea	0.684	6275	5.627	26545	**6.312**	**32820**	0.086	1400		
Nhava Sheva Sea	0.001	12	0.009	214	**0.010**	**226**	0.001	9	0.000	5
Okha	0.107	1102	1.188	6472	**1.295**	**7573**				
Paradip Sea	5.636	63556	10.991	50638	**16.627**	**114194**	0.689	12657		
Petrapole Land							0.000	4		
Pipavab (Vicyor)	0.081	842	1.294	6758	**1.375**	**7600**				
Porbandar	0.009	100	0.552	2675	**0.561**	**2774**				
Sez Dahej			0.001	3	**0.001**	**3**				
Sikka			0.102	653	**0.102**	**653**				
Tuticorin Sea			5.086	21688	**5.086**	**21688**	0.002	50		
Visakhapatnam Sea	6.500	71632	4.777	17843	**11.277**	**89475**	0.263	5121		
TOTAL	**35.557**	**378398**	**110.228**	**490057**	**145.785**	**868455**	**3.081**	**56919**	**0.001**	**10**

Source: DGCI & S , KOLKATA

TABLE 7.6 : PORT WISE EXPORT OF COAL, COKE & LIGNITE TO INDIA DURING 2012-13

(Quantity in Million Tonnes & Value in Million Rs.)

Port	Coking Coal		Non-Coking Coal		**Total Coal**		Coke		Lignite	
	Quantity	Value	Quantity	Value	**Quantity**	**Value**	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Bangalore Airport			0.000	0	0.000	0				
Bedi Sea					0.000	0	0.127	622	0.048	229
Bhithamore			0.000	1	0.000	1				
Bhollaganj	0.001	34	0.008	31	0.009	65				
Borsorah			1.000	3358	1.000	3358				
CFS Mulund					0.000	0			0.000	18
CFS Patparganj			0.000	0	0.000	0	0.000	0		
Chasuapara	0.034	132	0.286	1153	0.320	1285				
Chennai Air					0.000	0	0.000	0		
Chennai Sea	0.000	0	0.001	0	0.001	0	0.000	1		
Cochin Sea			0.000	0	0.000	0				
Dalu			0.037	134	0.037	134				
Dawki	0.000	0	0.189	665	0.189	665				
Delhi (ICD)			0.000	1	0.000	1				
Ghajadanga	0.000	1	0.000	0	0.000	1	0.000	1	0.000	1
Gouriphanta	0.001	8	0.016	72	0.018	80				
Hili (West)	0.000	0	0.000	0	0.000	0	0.000	0		
Hyderabad Airport				0	0.000	0				
ICD Hyderabad					0.000	0	0.000	0		
ICD Ludhiana			0.000	0	0.000	0				
ICD Sabarmati			0.000	0	0.000	0	0.000	1		
ICD Tondiar-Pet Chennai					0.000	0	0.000	0		
Jaigaon	0.005	62	0.091	366	0.096	428	0.629	436	0.003	40
Jogbani	0.000	1	0.268	52	0.268	53	0.022	9	0.017	1
Joynagar	0.001	6	0.016	5	0.018	12	0.040	1		
Kandla Sea			0.000	3	0.000	3	0.116	1882		
Kolkata Air					0.000	0	0.000	0		
Kolkata Sea			0.001	13	0.001	13	0.000	5		
Kotwaligate(Mohedipur)			0.000	0	0.000	0				
LCS Khunwa			0.000	0	0.000	0			0.000	0
Magdalla Port Sea			0.096	428	0.096	428				
Mahendraganj			0.000	1	0.000	1				
Mankachar			0.000	1	0.000	1				
Marmagoa Sea					0.000	0	0.000	11		
Mumbai Air			0.000	0	0.000	0	0.000	0		
Mundra	0.000	0	0.000	2	0.000	2	0.137	2591	0.001	68
Nautanwa (Sonauli)	0.000	0	0.044	201	0.044	201	0.063	285	0.000	0
Nepalganj	0.000	2	0.021	109	0.022	111	0.003	17		
Nhava Sheva Sea	0.000	2	0.000	6	0.000	8	0.000	2	0.000	2
Nirmali/Kanauli			0.000	0	0.000	0				
Panitanki	0.011	53	0.229	1393	0.240	1446	0.042	52		
Petrapole Land			0.000	0	0.000	0	0.000	5		
Raxaul Land	0.000	0	0.018	97	0.018	98	0.022	96		
Sonbarsa			0.000	2	0.000	2	0.000	1		
Sutarkandi			0.065	254	0.065	254				
Tanakpur (Nainatal)					0.000	0	0.000	0		
Tuticorin Sea	0.000	1			0.000	1	0.000	0		
TOTAL	**0.056**	**302**	**2.387**	**8349**	**2.443**	**8651**	**1.201**	**6017**	**0.069**	**360**

Source: DGCI & S , KOLKATA

Section VIII

Coal Consumption – A Sectoral Perspective

8.1 Consumption of Coal in India

8.1.1 Demand of Power, Steel and Cement in a developing country is closely related to its economic growth. Coal is one of the main inputs for steel, thermal power and cement industry. That is why distribution of coal of adequate quantity and quality to power sector followed by steel and cement manufacturing sector is considered a priority in Indian Coal Industry.

8.1.2 In blast furnace, iron ore, hard coke and limestone are used and hot air is injected into the base of the furnace. The molten iron or hot metal is periodically tapped and sent along with steel scrap and more lime stone to Basic Oxygen Furnace (BOF) to produce almost pure liquid steel. To economise on coking coal consumption, non-coking coal in pulverised form is sometime injected along with hot air. Here coke supplies carbon which acts as a reducing agent of iron ore as well as provides heat to melt the iron.

8.1.3 Coking coal when heated in absence of air, it softens, liquefies and resolidifies into hard but porous lumps called Hard Coke. Hard Coke is made in Coke Oven Batteries by high temperature carbonisation (HTC). For manufacturing of hard coke, coking coal must have very low ash content, preferably within 19% and also low sulfur and phosphorous.

8.1.4 Generally Indian coking coal is characterised by high ash and low sulfur contents and therefore it is not considered to be of adequate quality for steel plant. The quality of coal can be improved through the mechanism of washing but cost of washing, at times, is so high that it becomes uneconomical for commercial purpose. This is why, major share of total coking coal produced indigenously go for use for metallurgical purpose.

8.1.5 Imported coking coal having low ash content is blended with indigenous coking coal for better use. Moreover, indigenous coking coal is washed in different washeries owned by various coal companies and integrated steel plants to reduce the ash content to make it suitable for use in the steel plant. In the process of washing, besides washed coal or clean coal by-products like middling and rejects/slurries are obtained. Middling so obtained is mostly used in the power sector.

8.1.6 Table 8.1 provides data on stock, receipt and consumption of indigenous and imported coking coal in integrated steel plants in the country. In 2012-13 the consumption of indigenous coking coal was 6.577 MT and that of imported coking coal was 15.986 MT. The corresponding figures for 2011-12 were 6.489 MT and 15.805 MT. In 2012-13, in case of indigenous coking coal used by integrated steel plants, TISCO accounted for the consumption of 3.250 MT followed by consumption of 2.824 MT by SAIL. The remaining 0.503 MT was consumed by VSP. In case of imported coking coal, SAIL, VSP and TISCO accounted for 9.136 MT, 3.996 MT and 2.854 MT. of consumption respectively.

8.1.7 Table 8.2 provides data on trend of consumption of coking coal by type. It also provides hot metal production and blend ratio.

8.2 Contribution of coal washeries

8.2.1 We have already explained the role of washeries in coal industry. Table 8.3 provides data on coking coal washeries in India in 2012-13. It can be seen that the total capacity of the washeries was 32.80 MTA. The share of public sector coal washeries was 27.14 MTA and the remaining 5.66 MTA was for the private sector.

8.2.2 Table 8.4 shows performance of coking coal washeries for last three years. It is seen that the performance has been more or less static in the last three years (2010-11, 2011-12 and 2012-13) with production of 6.955 MT, 6.444 MT and 6.541 MT of washed coal respectively. The corresponding yield percentage was 46.2%, 46.6% and 44.7% respectively.

8.2.3 Table 8.5 provides details of non-coking coal washeries owned by collieries in India. Table 8.6 records the performance of these washeries for last three years.

8.3 Power Generation Capacity

8.3.1 Table 8.7 gives the details of installed power generating capacity at all India level since 6th plan. It can be seen that the total power generation capacity has jumped from 42585 MW (in 1985) to 266643 MW (in 2013). Out of 266643 MW, the share of Power Utilities was 223343 MW. In Power Utilities, the mode wise shares are, thermal power 151530 MW, hydro power 39491 MW, renewable energy sources 27542 MW and nuclear power 4780 MW. The share of Non-utilities in the total has been 43300 MW i.e. 16.24% in 2012-13.

8.3.2 Table 8.8 describes gross electricity generation by prime movers for last ten years. It is observed that the total gross electricity generation in 2012-13 was 1111722 KwH. The share of utilities was 86.69% and that of non-utility was 13.31%.

8.4 Cement

8.4.1 Table 8.10 provides details of consumption of coal and fuel in cement sector for the period 1995-96 to 2012-13. It is observed that in 2012-13, the total consumption of coal in the form of Kilns comprising of coal, lignite and pet coke in the cement sector was 18.52 MT. The consumption by captive power plant in cement industry was 8.55 MT. However, information regarding the total cement production against the above consumption was not available from the Cement Manufacturer's Association which provided data in previous years in respect of its member companies. As such for this year 2012-13 this information could not be incorporated. In 2012-13, the total receipt of coal including imported coal was 23.58 MT. The consumption of Pet coke and lignite was 5.18 MT and 1.06 MT respectively.

In 2011-12, production of cement and clinker was 180.0 MT and 137.22 MT respectively. In 2011-12, the ratio of fuel cement and fuel clinker was 10.88% and 14.28% respectively

8.4.2 Table 8.9 provides further details on cement and clinker capacity, production and capacity utilization in the country from the year 1997-98 to 2011-12. But due to non-availability of data for the year 2012-13 from Cement Manufacturer's Association, state wise details of production, capacity etc. for the year 2012-13 could not be incorporated here. However, for reference, it is reported that in the last year 2011-12, highest production (34.10 MT) of cement was reported by Rajasthan. This was followed by Andhra Pradesh (29.75 MT), Tamil Nadu (20.97 MT) and Madhya Pradesh (20.54 MT). The cement production over the years has been increasing but the capacity utilization has been fluctuating during these years.

8.5 Some Key indicators for 2012-13

Installed Capacity of Coal Based Power Plants (Utilities+ Non-Utilities) as on 31.03.2013	130221 MW
Electricity generation from coal based power plants in 2012-13	685857 Mn KwH
Installed capacity of Cement Plants as on 2012-13	NA
Cement Production in 2012-13	NA
Installed capacity of Coking Coal Washeries in 2012-13	32.80 MT
Washed (Coking) Coal Production	6.54 MT

TABLE - 8.1: STOCK, RECEIPT & CONSUMPTION OF INDIGENOUS & IMPORTED COKING COAL IN INTEGRATED STEEL PLANTS

(Quantity in Thousand Tonnes)

PLANT	ITEM	2012-13						2011-12					
		Indigenous			Imported	Total Coking	Boiler Coal	Indigenous			Imported	Total Coking	Boiler Coal
		Prime	Medium	Total				Prime	Medium	Total			
BHILAI	Opn. Stock	39	14	53	110	163	70	12	24	36	65	101	40
(B.S.P.)	Receipt	374	364	738	2997	3735	757	404	431	835	3395	4230	853
	Consumption	450	405	855	3067	3922	769	433	492	925	3428	4353	777
	Cls. Stock	5	4	9	128	137	73	39	14	53	110	163	70
ROURKELA	Opn. Stock	26	10	36	37	73	89	4	18	22	25	47	95
(R.S.P.)	Receipt	420	127	547	1724	2271	1353	444	111	555	1747	2302	1364
	Consumption	449	130	579	1677	2256	1266	423	126	549	1712	2261	1265
	Cls. Stock	5	4	9	75	84	156	26	10	36	37	73	89
DURGAPUR	Opn. Stock	10	8	18	48	66	28	0	13	13	32	45	37
(D.S.P.)	Receipt	294	111	405	1351	1756	891	244	174	418	1383	1801	944
	Consumption	308	122	430	1312	1742	940	217	191	408	1364	1772	863
	Cls. Stock	6	6	12	48	60	66	10	8	18	48	66	28
BOKARO	Opn. Stock	30	4	34	27	61	130	5	16	21	77	98	66
(B.S.L)	Receipt	388	216	604	2475	3079	1689	358	237	595	2409	3004	1513
	Consumption	376	221	597	2502	3099	1765	378	341	719	2534	3253	1381
	Cls. Stock	2	10	12	67	79	150	30	4	34	27	61	130
I.S.P.	Opn. Stock	12	2	14	7	21	7	4	10	14	11	25	6
	Receipt	298	16	314	608	922	200	348	81	429	739	1168	169
	Consumption	319	44	363	578	941	211	377	97	474	781	1255	159
	Cls. Stock	1	0	1	27	28	8	12	2	14	7	21	7
S A I L	**Opn. Stock**	**117**	**38**	**155**	**229**	**384**	**324**	**25**	**81**	**106**	**210**	**316**	**244**
T O T A L	**Receipt**	**1774**	**834**	**2608**	**9155**	**11763**	**4890**	**1798**	**1034**	**2832**	**9673**	**12505**	**4843**
	Consumption	**1902**	**922**	**2824**	**9136**	**11960**	**4951**	**1828**	**1247**	**3075**	**9819**	**12894**	**4445**
	Cls. Stock	**19**	**24**	**43**	**345**	**388**	**453**	**117**	**38**	**155**	**229**	**384**	**324**
T.I.S.CO.	Opn. Stock	45	110	155	675	830	N.A.	52	136	188	384	572	N.A.
	Receipt	906	2348	3254	2603	5857	N.A.	815	2038	2853	2469	5322	N.A.
	Consumption	907	2343	3250	2854	6104	N.A.	830	2077	2907	2483	5390	N.A.
	Cls. Stock	44	114	158	424	582	N.A.	38	97	135	370	505	N.A.
V.S.P.(RINL)	Opn. Stock	0	58	58	256	314	63	0	80	80	196	276	71
	Receipt	0	518	518	3925	4443	1451	0	485	485	3505	3990	1340
	Consumption	0	503	503	3996	4499	1387	0	507	507	3503	4010	1348
	Cls. Stock	0	73	73	185	258	127	0	58	58	198	256	63
G R A N D	**Opn. Stock**	**162**	**206**	**368**	**1160**	**1528**	**387**	**77**	**297**	**374**	**790**	**1164**	**315**
T O T A L	**Receipt**	**2680**	**3700**	**6380**	**15683**	**22063**	**6341**	**2613**	**3557**	**6170**	**15647**	**21817**	**6183**
	Consumption	**2809**	**3768**	**6577**	**15986**	**22563**	**6338**	**2658**	**3831**	**6489**	**15805**	**22294**	**5793**
	Cls. Stock	**63**	**211**	**274**	**954**	**1228**	**580**	**155**	**193**	**348**	**797**	**1145**	**387**

Table-8.2: Trends of Consumption of Coking Coal by type, Hot Metal Production and Blend Ratio

(Quantity in Thousand Tonnes)

Steel Plants	Year	Prime coking		Medium coking		Blendable		Imported Coking		Total Coking Coal		Hotmetal Production
		Quantity	Blend ratio	Quantity	Blend ratio	Quantity	Blend ratio	Quantity	Blend ratio	Quantity	Blend ratio	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
BHILAI	2008-09	481	9.4	664	13.0	0	0.0	3981	77.7	5126	100.0	5387
(B.S.P.)	2009-10	455	8.7	654	12.4	0	0.0	4146	78.9	5255	100.0	5370
	2010-11	704	13.3	450	8.5	0	0.0	4133	78.2	5287	100.0	5708
	2011-12	433	9.9	492	11.3	0	0.0	3428	78.8	4353	100.0	5125
	2012-13	450	11.5	405	10.3	0	0.0	3067	78.2	3922	100.0	5206
BOKARO	2008-09	406	11.3	407	11.3	0	0.0	2794	77.5	3607	100.0	4021
(B.S.L)	2009-10	409	11.4	376	10.5	0	0.0	2808	78.2	3593	100.0	4066
	2010-11	475	13.7	342	9.8	0	0.0	2661	76.5	3478	100.0	4108
	2011-12	378	11.6	341	10.5	0	0.0	2534	77.9	3253	100.0	4012
	2012-13	376	12.1	221	7.1	0	0.0	2502	80.7	3099	100.0	4126
DURGAPUR	2008-09	225	11.8	310	16.2	0	0.0	1376	72.0	1911	100.0	2110
(D.S.P.)	2009-10	272	13.8	221	11.2	0	0.0	1477	75.0	1970	100.0	2174
	2010-11	307	15.7	207	10.6	0	0.0	1444	73.7	1958	100.0	2142
	2011-12	217	12.2	191	10.8	0	0.0	1364	77.0	1772	100.0	2099
	2012-13	308	17.7	122	7.0	0	0.0	1312	75.3	1742	100.0	2241
ROURKELA	2008-09	278	13.3	254	12.2	0	0.0	1557	74.5	2089	100.0	2201
(R.S.P.)	2009-10	290	13.4	227	10.5	0	0.0	1654	76.2	2171	100.0	2267
	2010-11	435	19.3	144	6.4	0	0.0	1674	74.3	2253	100.0	2302
	2011-12	423	18.7	126	5.6	0	0.0	1712	75.7	2261	100.0	2309
	2012-13	449	19.9	130	5.8	0	0.0	1677	74.3	2256	100.0	2365
ISP	2008-09	510	48.9	178	17.1	0	0.0	355	34.0	1043	100.0	598
	2009-10	422	48.0	196	22.3	0	0.0	262	29.8	880	100.0	502
	2010-11	495	43.5	92	8.1	0	0.0	550	48.4	1137	100.0	495
	2011-12	377	30.0	97	7.7	0	0.0	781	62.2	1255	100.0	451
	2012-13	319	33.9	44	4.7	0	0.0	578	61.4	941	100.0	231
DPL	2008-09	0	0.0	25	9.4	0	0.0	242	90.6	267	100.0	598
	2009-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2010-11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2011-12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2012-13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VSP(RINL)	2008-09	196	6.4	447	14.7	0	0.0	2406	78.9	3049	100.0	3546
Visakhapatnam	2009-10	3	0.1	364	12.0	0	0.0	2654	87.9	3021	100.0	3900
	2010-11	0	0.0	361	9.5	0	0.0	3444	90.5	3805	100.0	3830
	2011-12	0	0.0	507	12.6	0	0.0	3503	87.4	4010	100.0	3778
	2012-13	0	0.0	503	11.2	0	0.0	3996	88.8	4499	100.0	3814
TISCO	2008-09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Jamshedpur	2009-10	434	12.6	1672	48.6	0	0.0	1331	38.7	3437	100.0	7231
	2010-11	847	16.4	1921	37.1	0	0.0	2406	46.5	5174	100.0	7503
	2011-12	830	15.4	2077	38.5	0	0.0	2483	46.1	5390	100.0	7750
	2012-13	907	14.9	2343	38.4	0	0.0	2854	46.8	6104	100.0	8850

TABLE 8.3: COKING COAL WASHERIES IN INDIA DURING 2012-13

Sector	Owner Company	Name of Washery	Year of Commi-ssioning	Feed Type	State	Location/ Coal field	Raw Coal Capacity (MTA)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Public	Bharat Coking Coal Ltd.	Dugda-II	1968	Pr. Ckg.	Jharkhand	Jharia	2.00
		Bhojudih	1962 (Expn-64)	Pr. Ckg.	Jharkhand	Jharia	1.70
		Patherdih	1964	Pr. Ckg.	Jharkhand	Jharia	1.60
		Sudamdih	1981	Pr. Ckg.	Jharkhand	Jharia	1.60
		Barora	1982	Pr. Ckg.	Jharkhand	Jharia	0.42
		Moonidih	1983	Pr. Ckg.	Jharkhand	Jharia	1.60
		Mahuda	1990	Md. Ckg.	Jharkhand	Jharia	0.63
		Madhuband	1998	Pr. Ckg.	Jharkhand	Jharia	2.50
		Dugda-I	1998	Pr. Ckg.	Jharkhand	Jharia	2.50
							14.6
	Central Coalfields Ltd.	Kathara	1970	Md. Ckg.	Jharkhand	E. Bokaro	3.00
		Swang	1970	Md. Ckg.	Jharkhand	E. Bokaro	0.75
		Rajrappa	1987	Md. Ckg.	Jharkhand	Ramgarh	3.00
		Kedla	1997	Md. Ckg.	Jharkhand	W.Bokaro	2.60
							9.35
	Western Coalfields Ltd.	Nandan(WCL)	1985	Md. Ckg.	M.P.	Pench-Kanhan	1.20
	All Coal India Ltd.						**25.1**
	Steel Authority of India Ltd.	Chasnala	1968/90	Coking	Jharkhand		2.04
Total Public							**27.14**
Private	Tata Steel Ltd.	W.Bokaro-II	1982	Md. Ckg.	Jharkhand	E. Bokaro	1.80
		W.Bokaro-III	1995	Md. Ckg.	Jharkhand	E. Bokaro	2.10
		Jamadoba	1952 (Expn-73)	Pr. Ckg.	Jharkhand	Jharia	0.90
		Bhelatand	1995	Pr. Ckg.	Jharkhand	Jharia	0.86
							5.66
Total Private							**5.66**
Grand Total							**32.80**

TABLE 8.4: COKING COAL WASHERY PERFORMANCE IN LAST THREE YEARS

(Quantity in Thousand Tonnes)

Year	Owner Company	Raw Coal Feed	Washed Coal Prod.	Yield (%) Washed Coal
(1)	(2)	(3)	(4)	(5)
2012-13	BCCL	2879	1329	46.2
	CCL	2921	1239	42.4
	WCL	281	144	51.2
	Total CIL	6081	2712	44.6
	SAIL	863	448	51.9
	Total Public	6944.0	3160	45.5
	TSL (Private)	7704	3381	43.9
	Total Private	7704	3381	43.9
	Grand Total	14648	6541.0	44.7
2011-12	BCCL	3279	1421	43.3
	CCL	3027	1334	44.1
	WCL	270	137	50.7
	Total CIL	6576	2892	44.0
	SAIL	634.2	338	53.3
	Total Public	7210.2	3230	44.8
	TSL (Private)	6617.4	3214	48.6
	Total Private	6617.4	3214	48.6
	Grand Total	13827.6	6444.0	46.6
2010-11	BCCL	3461	1549	44.8
	CCL	3053	1453	47.6
	WCL	502	191	38.0
	Total CIL	7016	3193	45.5
	SAIL	1001.6	592	59.1
	Total Public	8017.6	3785	47.2
	TSL (Private)	7052	3170	45.0
	Total Private	7052	3170	45.0
	Grand Total	15069.6	6955	46.2

TABLE 8.5: NON COKING COAL WASHERY OWNED BY COLLIRIES IN INDIA DURING 2012-13

Sector	Owner Company	Name of Washery	Year of Commi-ssioning	Feed Type	State	Location/ Coal field	Raw Coal Capacity (MTA)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Public	Bharat Coking Coal Ltd.	Dugda-I	1968	Non-Ckg	Jharkhand	Jharia	1.00
		Lodna	1955, 1990	Non-Ckg	Jharkhand	Jharia	0.48
		Madhuband	1998	Non-Ckg	Jharkhand	Jharia	2.50
							3.98
	Central Coalfields Ltd.	Gidi	BN	Non-Coking	Jharkhand	E. Bokaro	2.50
		Piparwar	BN	Non-Coking	Jharkhand	N.Karanpura	6.50
		Kargali	1976	Non-Coking	Jharkhand	S.Karanpura	2.72
							11.72
	Northern Coalfields Ltd.	Bina Deshelling Plant	1976-77	Non-Coking	U.P.	Bina	4.50
	All Coal India Ltd.						**20.20**
Total Public				Non-Coking			**20.20**
Private	Jindal Steel & Power Ltd.	Pit Head Washery (JSPL)	1999	Non-Coking	Chhatisgarh	Mand Raigarh	6.00
	BLA Industries Pvt. Ltd.	BLA Washery	1996	Non-Coking	M.P.	Dharmasthal	0.33
	Aryan Coal Benefication Pvt. Ltd.	CHAKABUWA	2004	Non-Coking	Chhatisgarh	Korba	4.00
		DIPKA	1999-2000	Non-Coking	Chhatisgarh	Korba	12.00
		PANDER PAUNI	2003-04	Non-Coking	Maharashtra	Bollarpur	3.00
		GEVRA	2007-08	Non-Coking	Chhatisgarh	Korba	5.00
		BINJHRI	NEW	Non-Coking	Chhatisgarh	Korba	0.96
	Aryan Energy Private Ltd.	INDARAM	NEW	Non-Coking	A.P.	Ramagundam	0.60
		TALCHER	2003	Non-Coking	Orissa	Talcher	2.00
	Bhatia Inernational Ltd.	WANI	NEW	Non-Coking	Maharashtra	Wardha	3.73
		GHUGUS	NEW	Non-Coking	Maharashtra	Wardha	4.00
	Global Coal & Mining Private Ltd.	IB VALLEY	2006	Non-Coking	Orissa	Ib valley	4.00
		RAMAGUNDAM	2004	Non-Coking	A.P.	Ramagundam	1.00
		TALCHER	2002	Non-Coking	Orissa	Talcher	2.50
	Gupta Coal Field & Washeries	SASTI		Non-Coking	Maharashtra	Wardha	2.40
		RAMAGUNDAM		Non-Coking	Maharashtra	Ramagundam	2.40
		GHUGUS		Non-Coking	Maharashtra	Wardha	2.40
		GONDEGAON		Non-Coking	Maharashtra	Kamptee	2.40
		MAJRI		Non-Coking	Maharashtra	Wardha	2.40
		WANI		Non-Coking	Maharashtra	Wardha	1.92
	Kartikay Coal Washeries Private L	WANI	2005-06	Non-Coking	Maharashtra	Wardha	2.50
	Spectrum Coal & Power Ltd.	KORBA		Non-Coking	Chhatisgarh	Korba	5.20
	Indo Unique Flames Ltd.	NAGPUR		Non-Coking	Maharashtra	Wardha	0.60
		PUNWAT		Non-Coking	Maharashtra	Wardha	2.40
		WANI		Non-Coking	Maharashtra	Wardha	2.40
	Sarda Energy and Mineral Division	Karwahi Coal Washery Divn.		Non-Coking	Chhatisgarh	Raigarh	0.96
	Earth Mineral Co. Ltd.	Jharsuguda	2008	Non-Coking	Orissa	Talcher	4.00
	Tata Steel Ltd.	Washery No. 2	1984	Non-Coking	Jharkhand	W. Bokaro	1.80
		Washery No. 3	1994	Non-Coking	Jharkhand	W. Bokaro	2.10
	tata Bhelatand	West Bokaro	1995	Non-Coking	Jharkhand	Bhelatand	0.80
	IISCO	Chasnalla	1969	Non-Coking	Jharkhand	Dhanbad	1.40
Total Private							**87.20**
Grand Total							**107.40**

TABLE 8.6: PERFORMANCE OF NON COKING COAL WASHERY OWNED BY COLLIERIES IN INDIA FOR LAST THREE Y

(Quantity in Thousand Tonnes)

Year	Company	Raw Coal Feed	Production	Yield (%)
(1)	(2)	(3)	(4)	(5)
2012-13	BCCL *	165	108	65.45
	CCL	7891	7217	91.46
	NCL	4221	3957	93.75
	Total CIL	**12277**	**11282**	91.90
	Total Public	**12277**	**11282**	**91.90**
	BLA Industries Pvt. Ltd.	299.80	283.79	94.66
	Aryan Coal benefication Pvt. Ltd.	17916.13	13609.29	75.96
	Aryan energy Pvt. Ltd.	364.29	264.78	72.68
	Global Coal & Mining Pvt. Ltd.	4300.77	2954.56	68.70
	Kartikay Coal Washeries Pvt. Ltd.	167.14	123.07	73.63
	Sarda Energy & Mineral Division	664.77	287.41	43.23
	Earth Minerals Company Ltd	315.13	223.06	70.78
	Jindal Steel & Power Ltd.	2254.22	740.07	32.83
	Tata Steel Ltd.	4467.11	1801.59	40.33
	Tata Bhelatand	660.14	354.62	53.72
	IISCO	862.60	447.81	51.91
	Total Private	**32272.10**	**21090.05**	65.35
	Grand Total	**44549.10**	**32372.05**	72.67
2011-12	BCCL *	170.00	138.00	81.18
	CCL	8603.00	8555.00	99.44
	NCL	4069.00	3664.00	90.05
	Total CIL	**12672.00**	**12357.00**	**97.51**
	Total Public	**12672.00**	**12357.00**	**97.51**
	BLA Industries Pvt. Ltd.	306.00	277.80	90.78
	Aryan Coal benefication Pvt. Ltd.	18923.40	14934.70	78.92
	Aryan energy Pvt. Ltd.	23.30	19.90	85.41
	Global Coal & Mining Pvt. Ltd.	4122.30	2743.30	66.55
	Kartikay Coal Washeries Pvt Ld	401.30	344.10	85.75
	Sarda Energy & Mineral Division	346.60	149.20	43.05
	Earth Minerals Company Ltd	814.80	580.50	71.24
	Total Private	**24937.70**	**19049.50**	**76.39**
	Grand Total	**37609.70**	**31406.50**	**83.51**
2010-11	BCCL *	317.0	314	99.1
	CCL	9172.0	8063	87.9
	NCL	3589.0	3339	93.0
	Total CIL	13078	11716	89.6
	Total Public	**13078**	**11716**	**89.6**
	JSPL	5775	1927	33.4
	BLA Industries Pvt. Ltd.	297	256	86.2
	Aryan Coal benefication Pvt. Ltd.	19615	15271	77.9
	Aryan energy Pvt. Ltd.	80	50	62.5
	Bhatia Internationa Ltd.	1930	1700	88.1
	Global Coal & Mining Pvt. Ltd.	3540	2540	71.8
	Kartikay Coal Washeries Pvt Ld	1050	900	85.7
	Earth Minerals Company Ltd	152.4	117.7	77.2
	Total Private	**32439**	**22761.7**	**70.2**
	Grand Total	**45517**	**34477.7**	**75.7**
	Grand Total	**58595.4**	**46193.7**	**78.8**

Note: (1) Yield rate of an item =100x Quantity of the item produced / Raw Coal feed.

* Jhama is also recycled in Madhuband washery. So it is not reported in this table.

TABLE 8.7: ALL INDIA INSTALLED GENERATING CAPACITY (MW) SINCE 6TH PLAN

Plan / Year	Modewise Breakup							Grand Total
	Hydro	Thermal				Nuclear	Renewable Energy Sources	
		Coal	Gas	Diesel	Total			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
End of 6th Plans(31.03.1985)	14460	26311	542	177	**27030**	1095	0	**42585**
End of 7th Plan (31.03.1990)	18308	41237	2343	165	**43746**	1565	18	**63636**
End of 2 Annual Plans(31.03.92)	19194	44791	3095	168	**48054**	1785	32	**69065**
End of 8th Plan (31.03.97)	21658	54154	6562	294	**61010**	2225	902	**85795**
End of 9th Plan (31.03.2002)	26269	62131	11163	1135	**74429**	2720	1628	**105046**
31.03.2003 (Utilities only)	26767	63951	11633	1178	**76762**	2720	1628	**107877**
31.03.2004 (Utilities only)	29507	64956	11840	1173	**77969**	2720	2488	**112684**
31.03.2005 (Utilities only)	30942	67791	11910	1202	**80902**	2770	3811	**118426**
31.03.2006 (Utilities only)	32326	68519	12690	1202	**82411**	3360	6191	**124287**
End of 10th Plan (31.03.2007)	34654	71121	13692	1202	**86015**	3900	7761	**132329**
31.03.2009 (Utilities+Non-Utilities)	36989	91466	18497	9950	**119913**	4120	13617	**174639**
Utilities	36878	77649	14876	1200	**93725**	4120	13242	**147965**
Non-Utilities	111	13817	3621	8750	**26188**	0	375	**26674**
31.03.2010 (Utilities+Non-Utilities)	36918	101381	21424	10657	**133462**	4560	15975	**190915**
Utilities	36863	84198	17056	1200	**102454**	4560	15521	**159398**
Non-Utilities	55	17183	4368	9457	**31008**	0	454	**31517**
31.03.2011 (Utilities+Non-Utilities)	37624	113030	22760	10855	**146645**	4780	19021	**208070**
Utilities	37567	93918	17706	1200	**112824**	4780	18455	**173626**
Non-Utilities	57	19112	5054	9655	**33821**	0	566	**34444**
31.03.2012 (Utilities+Non-Utilities)	39038	134638	24266	11155	**170059**	4780	25375	**239252**
Utilities	**38990**	**112022**	**18381**	**1200**	**131603**	**4780**	**24504**	**199877**
Non-Utilities	48	22616	5885	9955	**38456**	0	871	**39375**
31.03.2013 (Utilities+Non-Utilities)	39491	130221	20110	1200	**151530**	4780	27542	**266643**
Utilities	**39491**	**130221**	**20110**	**1200**	151530	**4780**	**27542**	**223343**
Non-Utilities	Bifurcation not available							**43300**

Note:

(i) The Installed Capacity includes allocaled shares in Joint and Central Sector Utilities.

(ii) Renewable Energy Sources includes Small Hydro Project, Biomass Gasifier, Biomass Power, Urban & Industrial Waste P

Source : Central Electricity Authority.

Table 8.8: Electricity Gross Geneartion by Prime movers (Million KwH)

Year	Sector	Hydro	Thermal Electricity				Nuclear	Grand Total
			Coal based	Gas based	Diesel etc.	**Total**		
(1)	(2)	(3)	(4)	(5)	(6)	**(7)**	(8)	**(9)**
2004-05	Utilities	84610	424244	61525	7066	**492835**	17011	**594456**
	Non Utilities	113	44017	15052	12235	**71304**		**71417**
	Total	**84723**	**468261**	**76577**	**19301**	**564139**	**17011**	**665873**
2005-06	Utilities	101494	435494	60802	8706	**505002**	17324	**623820**
	Non Utilities	236	46265	14665	12473	**73403**		**73639**
	Total	**101730**	**481759**	**75467**	**21179**	**578405**	**17324**	**697459**
2006-07	Utilities	113502	461794	64157	12399	**538350**	18802	**670654**
	Non Utilities	218	56184	15207	10191	**81582**		**81800**
	Total	**113720**	**517978**	**79364**	**22590**	**619932**	**18802**	**752454**
2007-08	Utilities	120387	486998	69716	28567	**585281**	16957	**722625**
	Non Utilities	202	53569	25585	11121	**90275**	0	**90477**
	Total	**120589**	**540567**	**95301**	**39688**	**675556**	**16957**	**813102**
2008-09	Utilities	110099	511895	71597	32649	**616141**	14927	**722625**
	Non Utilities	146	73626	15306	10643	**99575**	0	**90477**
	Total	**110245**	**585521**	**86903**	**43292**	**715716**	**14927**	**813102**
2009-10	Utilities	104060	539587	96373	41195	**677155**	0	**781215**
	Non Utilities	152	77416	19739	8826	**105981**	0	**106133**
	Total	**104212**	**617003**	**116112**	**50021**	**783136**	**0**	**887348**
2010-11	Utilities	114416	561298	100342	42426	**704066**	26266	**844748**
	Non Utilities	149	96657	15435	8676	**120768**	0	**120917**
	Total	**114565**	**657955**	**115777**	**51102**	**824834**	**26266**	**965665**
2011-12*	Utilities	130511	612497	923281	53875	**1589653**	32287	**1752451**
	Non Utilities #	131	104863	21972	7422	**134257**	0	**134388**
	Total	**130642**	**717360**	**945253**	**61297**	**1723910**	**32287**	**1886839**
2012-13*	Utilities	113626	685857	71641	59727	**817225**	32871	**963722**
	Non Utilities #							**148000**
	Total	**113626**	**685857**	**71641**	**59727**	**817225**	**32871**	**1111722**

* Provisional data

Bifurcation of non-utilities not available.

Source : Central Electricity Authority.

Table 8.9 : Cement and Clinker - Capacity, Production (Mill.Tons.) and capacity Utilisation by Large Cement Plants

Year	All India/ State	Capacity (Mill. Tonnes)	Clinker		Cement Production	Capacity Utilisation
			Production	Ground		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1997-98	All India	101.93	71.28	67.92	76.74	81%
1998-99	All India	107.98	73.14	71.74	81.67	78%
1999-00	All India	111.16	86.34	81.94	94.21	86%
2000-01	All India	121.93	84.45	80.28	93.61	81%
2001-02	All India	134.94	88.24	85.92	102.40	79%
2002-03	All India	139.38	97.29	91.71	111.35	81%
2003-04	All India	145.95	102.68	94.94	117.50	82%
2004-05	All India	153.60	109.42	101.74	127.57	84%
2005-06	All India	160.00	116.34	110.55	141.81	90%
2006-07	All India	167.79	121.75	117.52	155.64	94%
2007-08	All India	198.10	129.73	124.19	168.31	94%
2007-08	All India	198.10	129.73	124.19	168.31	94%
2008-09	All India	221.44	138.78	133.70	181.60	88%
2009-10	All India	222.60	128.25	121.21	160.75	83%
2010-11	All India	238.40	132.70	126.54	169.00	76%
2011-12	All India	244.04	137.23	134.15	180.01	75%
2012-13	All India	Data not available from Cement Manufacturers Association of India.				

Source : Cement Manufacturers' Association

TABLE 8.10: YEAR WISE CONSUMPTION OF COAL AND FUEL IN CEMENT SECTOR

(Quantities are in Million Tonnes)

Year	Coal Receipt				Pet coke / Lignite Purchase	Annual Fuel Procure- ment	Consumption					Annual Fuel Consump- tion	Cement Production	Fuel cement Ratio** (%)	Fuel Clinker Ratio** (%)
	Against Linkage	From Market	Imported*	Total			Coal for Kilns	Lignite	Pet Coke	Total	CPP				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1995-96	10.06	2.80	1.30	14.16	0.80	14.96						14.25	64.53		
1996-97	10.45	2.48	1.65	14.58	0.70	15.28						15.03	69.98		
1997-98	9.61	1.62	3.52	14.75	0.42	15.17						14.98	76.74		
1998-99	8.24	0.77	4.66	13.67	0.20	13.87	12.47	0.16	0.00	12.63	1.35	13.98	81.67	15.46	17.27
1999-00	9.01	0.63	6.04	15.68	0.05	15.73	13.60	0.05	0.00	13.65	1.77	15.42	94.21	14.49	15.81
2000-01	9.74	0.79	4.40	14.93	0.42	15.35	13.05	0.05	0.37	13.47	1.90	15.37	93.61	14.39	15.95
2001-02	11.09	0.87	3.37	15.33	0.96	16.29	12.82	0.08	0.88	13.78	2.03	15.81	102.40	13.46	15.62
2002-03	12.35	0.77	3.66	16.78	1.09	17.87	14.17	0.00	1.09	15.26	2.57	17.83	111.35	13.70	15.69
2003-04	13.34	1.03	3.18	17.55	1.52	19.07	14.20	0.11	1.41	15.72	3.22	18.94	117.50	13.38	15.31
2004-05	14.84	1.27	3.63	19.74	2.63	22.37	14.92	0.79	1.87	17.58	3.63	21.21	127.57	13.73	16.06
2005-06	14.81	1.55	3.40	19.76	2.98	22.74	15.10	0.82	2.16	18.08	4.31	22.39	141.81	12.75	15.54
2006-07	14.43	2.94	4.96	22.33	2.92	25.25	16.82	0.83	2.09	19.74	5.28	25.02	155.66	12.68	16.00
2007-08	14.56	5.00	6.08	25.64	3.20	28.84	17.99	0.93	2.27	21.19	6.14	27.33	168.31	12.59	16.34
2008-09	14.29	6.17	6.97	27.43	2.77	30.20	19.16	0.36	2.41	21.93	7.64	29.57	181.60	12.07	15.80
2009-10	10.79	4.36	6.95	22.10	4.15	26.25	15.93	0.11	2.86	18.90	6.90	25.80	160.75	11.80	14.70
2010-11	11.91	4.99	8.52	25.42	3.54	28.96	17.63	0.19	1.92	19.74	8.50	28.24	168.29	11.73	14.98
2011-12	10.45	4.51	9.39	24.35	5.45	29.80	14.14	0.75	4.70	19.59	8.71	28.30	180.01	10.88	14.28
2012-13	10.38	3.93	9.27	23.58	6.24	29.82	12.28	1.06	5.18	18.52	8.55	27.07	N. A.	N. A.	N. A.

* The data is as provided by CMA only in respect of it's Member Companies.

** The ratio mainly relates to Dry process.

Source: Cement Manufacturers' Association.

Section IX

Captive Coal Blocks

9.1 The concept of Captive Coal Block (CCB) and policy of allocation of Captive Coal Block have already been elaborated in Section I. As per policy, total 178 Coal Blocks and 27 Lignite Blocks have been allocated under this category (CCB) till 31.03.2013. Table 9.1 gives the details of allocation of these blocks. It can be seen that 79 coal blocks have been allocated to public sector undertaking and 99 coal blocks have been allocated to private companies. Out of 178 coal blocks the allocation to power sector is 82 (public 44; and private 38). Similarly the allocation to Iron and Steel sector is 55 (public 02; and private 53). 35 captive coal blocks had been allocated to different public sector units for commercial captive purpose. Two captive coal blocks (small and isolated patches) have been allocated to private sector for commercial captive use.

9.2 The total geological reserves of these 178 captive coal blocks are estimated to be 40255.2 MT (public 21199.8 MT; private 19055.4 MT). The allocation to power sector, iron and steel, commercial mining and others is 24855.4 MT, 6499.8 MT, 5518.2 MT and 3381.8 MT respectively.

9.3 As per policy the allotment of captive coal blocks started in 1993 and one coal block was allocated to private sector power plant. In the initial phase, the allotment of captive coal blocks was limited in number. However, in the later phase the number increased many fold. In the year 2003, 17 coal blocks were allocated for captive use. The maximum number of coal blocks till date has been allocated in the year 2006 when 43 coal blocks were allocated to different concerns. This was followed by allocation of 37 coal blocks in the year 2007. Between 2003 to 2009, 151 coal blocks were allocated to different concerns to push up production of coal/power in near future. Chart 9.1 depicts Progressive Allocation of Geological Reserves (Coal Blocks) sector-wise and year-wise from 1993 to 2013. Chart 9.2 represents Progressive Allocation of number of Coal Blocks sector-wise and year-wise from 1993 to 2013. Chart 9.3 shows Progressive Allocation of Geological Reserves (Coal Blocks) as on 31.03.2013 state wise. It is observed that the major allocation is in the period 2003-2009. As per Geological Reserve (GR), the maximum allocation has been done in the case of Jharkhand (35.90%) followed by Odisha (32.09%) and Chhattisgarh (16.48%).

9.4 Out of 178 coal blocks allocated for captive use till 31st March, 2013, 36 coal blocks (19 in power sectors, 13 in Iron and Steel, 02 in Govt. Commercial and 2 in private commercial) have started production and in the year 2012-13 total production from the captive coal blocks was reported to be 37.04 MT. The contribution of the coal blocks allocated to the power sector was 25.59 MT and that of Iron and Steel 10.72 MT. Table 9.4 provides details of coal production from captive coal blocks since 1997-98. It also gives projection for production of coal during 11th five year plan.

9.5 In the case of lignite, out of 27 lignite blocks, 20 (GR 1815.8 MT) were allocated to public sector units and 7 (GR 144.9 MT) were allocated to private sector. Out of 27 lignite blocks 15 were allocated to power sector and 12 were allocated for captive commercial use. From table 9.6 it can be seen that as on 31st March, 2013, 10 lignite blocks were producing blocks.

9.6 Table 9.1 to 9.6 and chart 9.1 to 9.4 depict further details on various aspects of captive coal mining including mining from lignite blocks. Till 31.3.2013, 218 coal blocks were allocated to different companies. Out of these 218 coal blocks, 47 have been de-allocated for non-performance and 7 blocks have been reallocated making effecting allocation of 178 coal blocks as on 31.3.2013.

Chart-9.1 : Progressive Allocation of Geological Reserve - Sectorwise & Yearwise

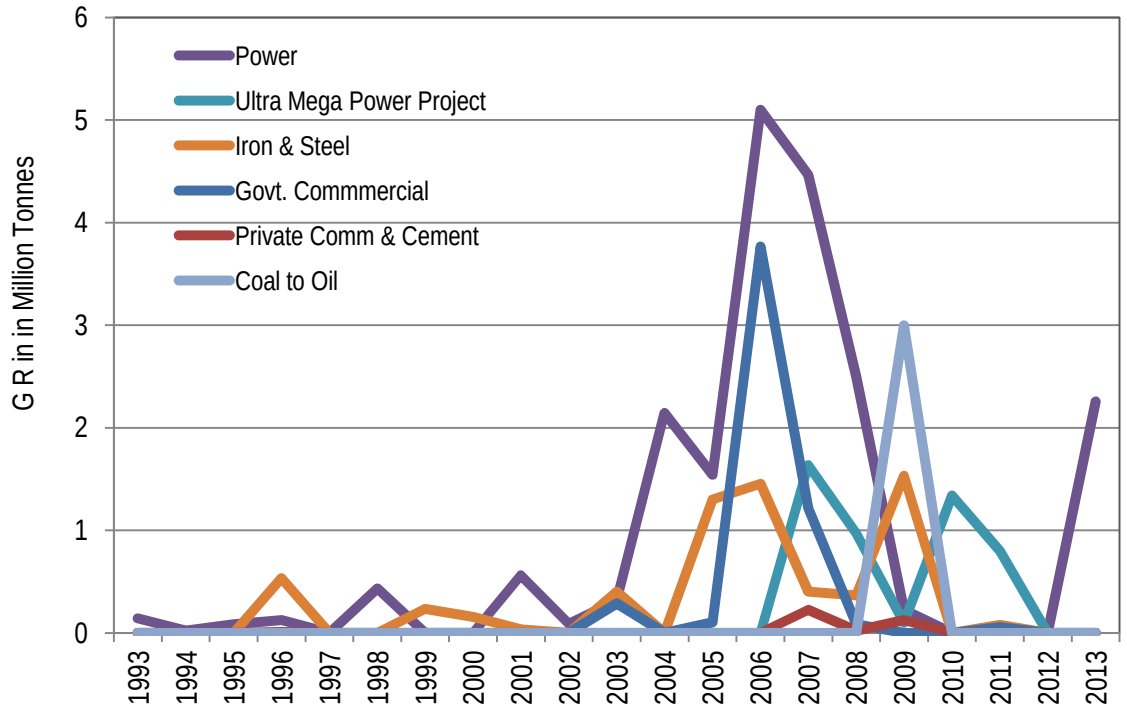


Chart-9.2 : Progressive Allocation of blocks (No.) - Sectorwise & Yearwise

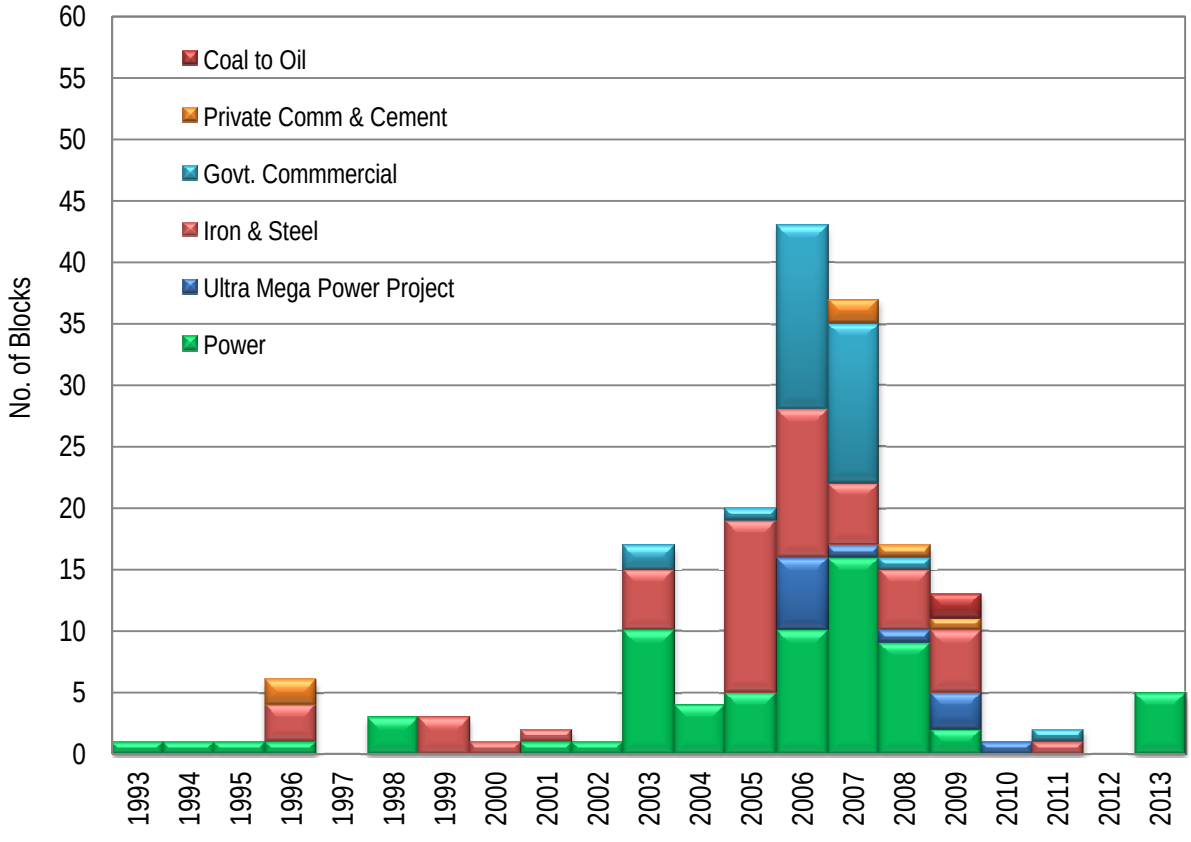


Chart-9.3 : Progressive Allocation of Geological Reserve as on 31/03/2013 - Sectorwise & Statewise

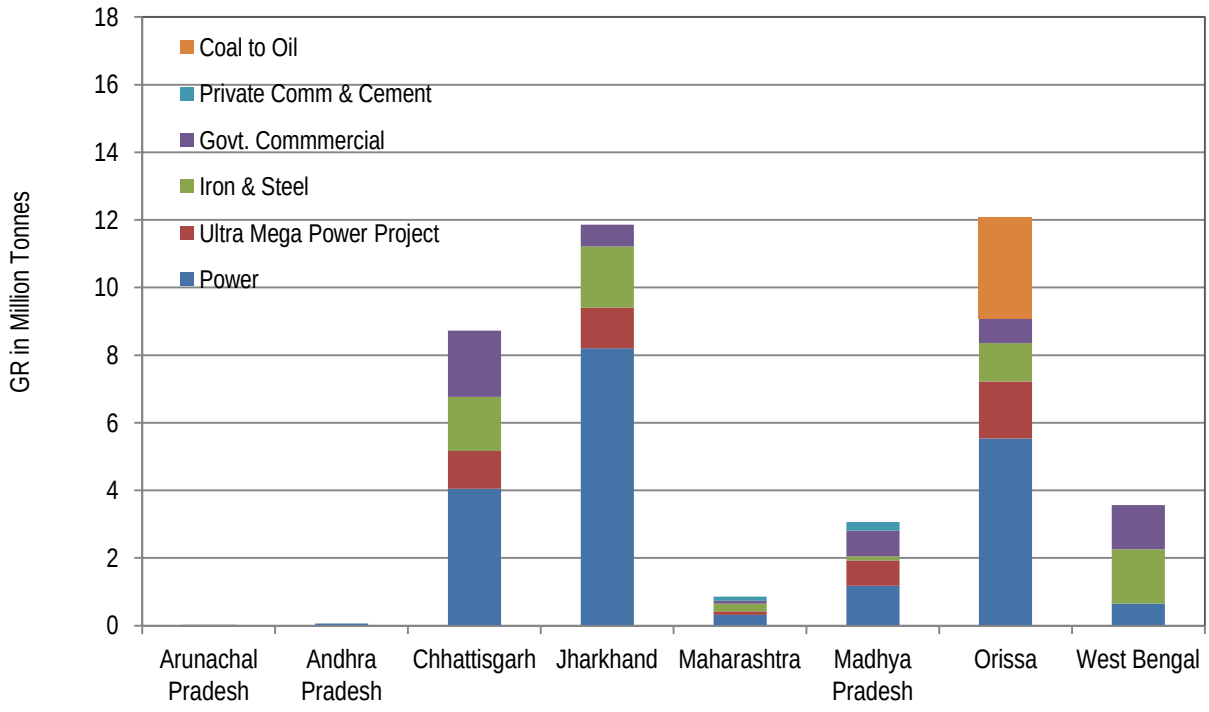


Chart 9.4: Distribution of allotted GR Statewise as on 31/03/2013

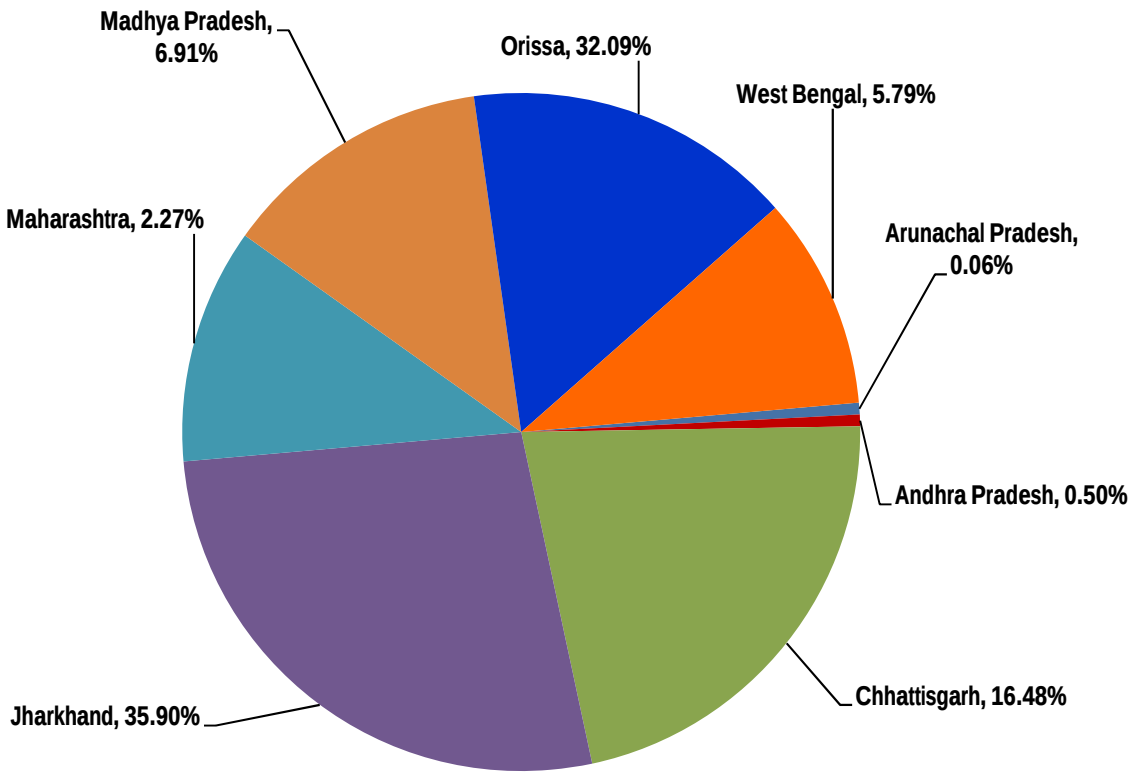


TABLE 9.1: SUMMARY OF ALLOCATION OF COAL & LIGNITE BLOCKS TILL 31/03/2013

Sector	End Use	Mode of Allotment	No of blocks	Geological Reserves (Qty. in MT)
(1)	(2)	(3)	(4)	(5)
A. COAL BLOCKS				
Public Sector Undertakings	Power	Govt. dispensation	44	15297.2
	Power	Captive dispensation		
		Sub total	**44**	**15297.2**
	Commercial Mining	Govt. dispensation	33	5508.8
	Iron & Steel	Govt. dispensation	2	393.8
	Iron & Steel	Captive dispensation		
		Sub total	**2**	**393.8**
		PSU Total	**79**	**21199.8**
Private Companies	Power	Captive dispensation	26	4712.2
	Power	Ultra Mega Power Project	12	4846.0
		Sub total	**38**	**9558.3**
	Iron & Steel	Captive dispensation	53	6106.0
	Cement	Captive dispensation	4	381.8
	Small and Isolated Patch (Commercial Mining)	Captive dispensation	2	9.3
	Coal to Oil	Captive dispensation	2	3000.0
		Pvt. Total	**99**	**19055.4**
ALL INDIA	Power		82	24855.4
	Iron & Steel		55	6499.8
	Cement		4	381.8
	Commercial Mining		35	5518.2
	Coal to Oil		2	3000.0
		Grand Total	**178**	**40255.2**
B. LIGNITE BLOCKS				
State PSU	Power	Govt. dispensation	8	1211.3
	Commercial	Govt. dispensation	12	640.6
	Subtotal		**19**	**1815.8**
Private	Power	Captive dispensation	7	**144.9**
ALL INDIA	Power		15	1356.2
	Commercial		12	640.6
	Grand Total		**27**	**1996.8**

Note.

1. The table excludes coal blocks which were deallocated/surrendered and yet not re-allocated.
2. GR quantities are GR value as available with this office and subject to change for few blocks with approval of Mine Plan.
3. Upto March 2013, 47 coal blocks have been deallocated and 7 blocks have been re-allocated out of 47 deallocated coal blocks.

Table 9.2: Yearwise and Sectorwise Allotment of Captive Coal Blocks (till 31.03.2013)

(GR in Million Tonnes)

Year of Allotment	Power		Ultra Mega Power Project		Iron & Steel		Govt. Commmercial		Private Comm & Cement		Coal to Oil		**Total**	
	Coal Blocks (No.)	Geological Reserves	Coal Blocks (No.)	Geological Reserves	Coal Blocks (No.)	Geological Reserves	Coal Blocks (No.)	Geological Reserves	Coal Blocks (No.)	Geological Reserves	Coal Blocks (No.)	Geological Reserves	**Coal Blocks (No.)**	**Geological Reserves**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1993	1	140.5			0	0.0	0	0.0	0	0.0			**1**	**140.5**
1994	1	22.6			0	0.0	0	0.0	0	0.0			**1**	**22.6**
1995	1	84.5			0	0.0	0	0.0	0	0.0			**1**	**84.5**
1996	1	125.7			3	535.0	0	0.0	2	9.3			**6**	**670.1**
1997	0	0.0			0	0.0	0	0.0	0	0.0			**0**	**0.0**
1998	3	434.8			0	0.0	0	0.0	0	0.0			**3**	**434.8**
1999	0	0.0			3	233.2	0	0.0	0	0.0			**3**	**233.2**
2000	0	0.0			1	156.0	0	0.0	0	0.0			**1**	**156.0**
2001	1	562.0			1	34.3	0	0.0	0	0.0			**2**	**596.3**
2002	1	92.3			0	0.0	0	0.0	0	0.0			**1**	**92.3**
2003	10	319.2			5	404.1	2	286.5	0	0.0			**17**	**1009.8**
2004	4	2143.5			0	0.0	0	0.0	0	0.0			**4**	**2143.5**
2005	5	1541.5			14	1301.4	1	103.2	0	0.0			**20**	**2946.0**
2006	10	5100.1	6	1635.0	12	1455.5	15	3768.5	0	0.0			**43**	**11959.0**
2007	16	4466.7	1	972.0	5	403.5	13	1219.0	2	225.3			**37**	**7286.6**
2008	9	2495.8	1	100.0	5	365.7	1	84.3	1	21.0			**17**	**3066.72**
2009	2	224.3	3	1339.0	5	1532.6	0	0.0	1	126.1	2	3000.0	**13**	**6222.0**
2010			1	800.0	0		0		0		0		**1**	**800.0**
2011	0	0			1	78.46	1	56.8	0		0		**2**	**135.2**
2012	0	0					0		0		0		**0**	**0.0**
2013	5	2256.18					0		0		0		**5**	**2256.2**
Total	**70**	**20009.4**	**12**	**4846.0**	**55**	**6499.8**	**33**	**5518.2**	**6**	**381.8**	**2**	**3000**	**178**	**40255.2**

Note: * Till March'2013 GR=Geological Reserves as estimated during allocation.

GR quantities are GR value as available with this office and subject to change for few blocks with approval of Mine Plan.

Table 9.3: Statewise and Sectorwise Allotment of Captive Coal Blocks - (till 31.03.2013)

(GR in Million Tonnes)

State	Power		Ultra Mega Power Project		Iron & Steel		Govt. Commmercial		Private Comm & Cement		Coal to Oil		**Total**	
	Coal Blocks (No.)	Geological Reserves	Coal Blocks (No.)	Geological Reserves	Coal Blocks (No.)	Geological Reserves	Coal Blocks (No.)	Geological Reserves	Coal Blocks (No.)	Geological Reserves	Coal Blocks (No.)	Geological Reserves	Coal Blocks (No.)	Geological Reserves
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Arunachal Pradesh	0	0.0			0	0.0	1	27.0	0	0.0			**1**	**27.0**
Andhra Pradesh	1	61.3			0	0.0	0	0.0	0	0.0			**1**	**61.3**
Chhattisgarh	15	4051.6	2.0	1113.7	14	1604.4	8	1956.5	0	0.0			**39**	**8726.1**
Jharkhand	23	8207.9	2.0	1197.4	17	1808.7	6	646.5	0	0.0			**48**	**11860.5**
Maharashtra	7	322.4	1.0	100.0	9	226.9	2	84.0	1	126.1			**20**	**859.3**
Madhya Pradesh	2	1181.1	3.0	750.0	4	117.5	9	764.0	5	255.7			**23**	**3068.2**
Orissa	14	5531.0	4.0	1685.0	7	1139.0	1	733.0	0	0.0	2	3000.0	**28**	**12088.0**
West Bengal	8	654.3			4	1603.4	6	1307.2	0	0.0			**18**	**3564.8**
Total	**70**	**20009.4**	**12**	**4846.0**	**55**	**6499.8**	**33**	**5518.2**	**6**	**381.8**	**2**	**3000.0**	**178**	**40255.2**

Note: GR quantities are GR value as available with this office and subject to change for few blocks with approval of Mine Plan.

TABLE 9.4: COAL PRODUCTION FROM CAPTIVE BLOCKS SINCE 1997-98, PROJECTION FOR XI TH FIVE YEAR PLAN AND CCO ESTIMATES

Year	Target / Achivement	Power		Iron & Steel		Govt. Comm		Private Comm & Cements		**Total**	
		No. of Coal Blocks	Production (Mill. Tonnes)	No. of Coal Blocks	Production (Mill. Tonnes)	No. of Coal Blocks	Production (Mill. Tonnes)	No. of Coal Blocks	Production (Mill. Tonnes)	**No. of Coal Blocks**	**Production (Mill. Tonnes)**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	**(11)**	**(12)**
1997-98	Achievement	2	0.71							**2**	**0.71**
1998-99		2	1.79	1	0.04					**3**	**1.83**
1999-00		2	2.17	1	0.78					**3**	**2.95**
2000-01		2	2.41	1	1.42					**3**	**3.83**
2001-02		2	2.91	1	1.55					**3**	**4.46**
2002-03		3	3.40	1	2.12					**4**	**5.52**
2003-04		4	5.36	1	2.47					**5**	**7.83**
2004-05		4	6.92	2	3.09			2	0.10	**8**	**10.11**
2005-06		5	7.58	2	5.76			2	0.28	**9**	**13.62**
2006-07		5	10.07	4	7.32			2	0.22	**11**	**17.61**
XI th Five Year Plan											
2007-08	Target 1	13	13.90	4	8.05	1	0.20	2	0.33	**28**	**22.48**
2007-08	Achvmt	7	12.83	5	8.01	1	0.08	2	0.33	**15**	**21.25**
2008-09	Target 1	20	22.53	14	11.21	3	1.65	3	0.33	**58**	**35.72**
2008-09	Achvmt	14	21.25	8	8.39	1	0.14	2	0.24	**25**	**30.01**
2009-10	Target 1	30	24.90	37	19.04	6	2.85	2	0.30	**77**	**47.09**
2009-10	Achvmt	14	25.735	11	9.475	1	0.25			**26**	**35.46**
2010-11	Target 1	33	35.80	41	31.20	8	5.70	2	0.30	**86**	**73.00**
2010-11	Target 2	15	25.50	9	9.64	1	0.20	2	0.30	**27**	**35.64**
2010-11	Achvmt	15	24.36	10	9.27	1	0.30	2	0.30	**28**	**34.22**
2011-12	Target 1	42	54.28	41	41.30	8	8.20	2	0.30	**93**	**104.08**
2011-12	Target 2	18	27.30	16	10.35	2	0.30	2	0.30	**38**	**38.25**
2011-12	Achvmt	15	25.82	11	9.83	1	0.22	2	0.30	**29**	**36.17**
XII th Five Year Plan											
2012-13	Target 1	17	26.80	17	11.10	3	1.00	2	0.30	**39**	**39.20**
2012-13	Target 2									**0**	**0.00**
2012-13	Achvmt	19	25.59	13	10.72	2	0.42	2	0.30	**36**	**37.04**

Note: Target 1 refers to XI th Five year Plan, Target 2 refers to CCO Estimate done in Dec 2010.

Table 9.5: LIST OF COAL BLOCKS ALLOCATED TILL 31/03/2013

Sl No.	State (Block)	Date of Allocation (dd/mm/yy)	Year	OC/UG	Name of Block	Name of Allocattee	No. of Blocks	Public / Private	Block (GR in MT)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Andhra Pradesh	06.12.2005	2005	OC	Tadicherla	APGENCO	1	Pub	61.3
	Total Andhra Pradesh						**1**		**61.3**
1	Arunachal Pradesh	28.10.2003	2003	OC	Namchi Namphuk	ANPMDC	1	Pub	27.0
	Total Arunachal Pradesh						**1**		**27.0**
1	Chhattisgarh	20.06.1996	1996	OC	GP IV/1	JSPL	1	Pvt	125.7
2	Chhattisgarh	21.06.1996	1996	OC	Gare Palma IV/5	Monnet Ispat & Energy Ltd.,	1	Pvt	126.3
3	Chhattisgarh	16.08.1999	1999	OC	Gare PalmaIV/4	Jayaswal Neco Ltd.,	1	Pvt	125.0
4	Chhattisgarh	25.04.2000	2000	OC	Gare Palma IV/7	Raipur alloys & Steel Ltd. (SEML)	1	Pvt	156.0
5	Chhattisgarh	04.09.2003	2003	OC	Chotia	Prakash Inds. Ltd.,	1	Pvt	34.5
6	Chhattisgarh	14.08.2003	2003	OC	Tara	Chhattisgarh Mineral Dev.Crop.Ltd.,	1	Pub	259.5
7	Chhattisgarh	13.01.2006	2006	OC+UG	Gare Palma IV/6	JSPL & Nalwa Sponge Iron Ltd.	1	Pvt	156.0
8	Chhattisgarh	13.01.2006	2006	UG	Gare Palma IV/8	Jayaswal Neco Ltd.	1	Pvt	107.2
9	Chhattisgarh	13.01.2006	2006	OC	Madanpur N	Ultratech Ltd. & Others	1	Pvt	179.0
10	Chhattisgarh	13.01.2006	2006	OC	Madanpur S	Hindusthan Zinc Ltd.,	1	Pvt	175.7
11	Chhattisgarh	25.01.2006	2006	OC	Talaipali	NTPC Ltd.,	1	Pub	965.0
12	Chhattisgarh	02.08.2006	2006	OC	Parsa	CSEB	1	Pub	150.0
13	Chhattisgarh	02.08.2006	2006	OC+UG	Gare Palma Sector II	TSEB & MSMC Ltd.	1	Pub	768.0
14	Chhattisgarh	02.08.2006	2006	OC+UG	Gare Palma Sector I	CMDC	1	Pub	900.0
15	Chhattisgarh	02.08.2006	2006	OC	Morga II	GMDC	1	Pub	250.0
16	Chhattisgarh	02.08.2006	2006	OC	Morga I	MSMC Ltd.	1	Pub	350.0
17	Chhattisgarh	19.05.2007	2007	OC	Parsa East	Rajasthan Rajya Vidyut	1	Pub	180.0
18	Chhattisgarh	19.05.2007	2007	OC	Kanta Basan	Rajasthan Rajya Vidyut	1	Pub	180.0
19	Chhattisgarh	06.11.2007	2007	OC	Durgapur II /Sariya	DB Power Ltd.	1	Pvt	91.7
20	Chhattisgarh	06.11.2007	2007	OC	Sayang	AES Chhatisgarh Energy P Ltd.	1	Pvt	150.0
21	Chhattisgarh	06.11.2007	2007	OC	Durgapur-II/ Taraimar	BALCO	1	Pvt	211.4
22	Chhattisgarh	25.07.2007	2007	OC	Morga-III	MPSMCL	1	Pub	35.0
23	Chhattisgarh	25.07.2007	2007	OC	Sondiha	CMDC	1	Pub	70.0
24	Chhattisgarh	25.07.2007	2007	OC	Morga IV	MPSMCL	1	Pub	35.0
25	Chhattisgarh	05.08.2008	2008	UG	Kesla North	Rathi Udyog Ltd.	1	Pvt	36.2
26	Chhattisgarh	22.01.2008	2008	OC+UG	Fatehpur East	JLD Yotmal Energy Ltd, RKM Power green, Visa Power Ltd., Green Infrastructure Pvt. Ltd., Vandana Vidyut Ltd.	1	Pvt	450.0
27	Chhattisgarh	06.02.2008	2008	OC	Fatehpur	Prakash Industries Ltd.,& S.K.S Isapat Ltd.	1	Pvt	120.0
28	Chhattisgarh	21.11.2008	2008	OC	Gare Pelma Sector III	Goa Industrial Dev Corn. Ltd.	1	Pvt	210.0
29	Chhattisgarh	03.06.2009	2009	UG	Rajgamar Dipside(South of Phulakdih Nala)	MIEL, Topworth Steel	1	Pvt	61.7
30	Chhattisgarh	09.09.2009	2009	OC	Pindrakhi	Akaltara Power Ltd.	1	Pvt	421.5
31	Chhattisgarh	09.09.2009	2009	OC	Puta Parogia	Akaltara Power Ltd.	1	Pvt	692.2
32	Chhattisgarh	14.10.2011	2011	UG	Rajgamar Dipside Devnara	API Ispat & Power tech Ltd , CG Sponge Manufactures Cons coalfields Ltd	1	Pvt	78.5
33	Chhattisgarh	1.11.2011	2011	OC+UG	Vijay Central	CIL+SKS Ispat & Power Ltd	1	Pub	56.8
34-35	Chhattisgarh	01.07.1998	1998	OC	Gare Palma IV/2 & IV/ 3	Jindal Power Ltd.,	2	Pvt	226.0
36-37	Chhattisgarh	23.09.2004	2004	OC	Paturia & Gidimuri	CSEB	2	Pub	349.5
38-39	Chhattisgarh	13.01.2006	2006	OC	Nakia I,II	Ispat Godavari Ltd. & Others	2	Pvt	243.0
	Total Chhattisgarh						**39**		**8726.1**

Table 9.5: LIST OF COAL BLOCKS ALLOCATED TILL 31/03/2013

Sl No.	State (Block)	Date of Allocation (dd/mm/yy)	Year	OC/UG	Name of Block	Name of Allocattee	No. of Blocks	Public / Private	Block (GR in MT)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Andhra Pradesh	06.12.2005	2005	OC	Tadicherla	APGENCO	1	Pub	61.3
1	Jharkhand	26.02.1996	1996	OC	Tasra	IISCO/SAIL	1	Pub	283.0
2	Jharkhand	01.10.1999	1999	OC	Bramhadih	Castron Mining Ltd	1	Pvt	2.2
3	Jharkhand	28.12.2001	2001	OC	Pachwara-Central	PSEB	1	Pub	562.0
4	Jharkhand	07.01.2002	2002	OC	Tokisud North Sub Block	GVK Power (Govindwal Sahib)Ltd	1	Pvt	92.3
5	Jharkhand	29.09.2003	2003	OC	Kathautia	Usha Martin Ltd.,	1	Pvt	29.8
6	Jharkhand	03.11.2003	2003	OC	Badam	Tenughat Bidut Nigam Ltd.,	1	Pub	144.6
7	Jharkhand	11.10.2004	2004	OC	Pakri Barwadih	NTPC Ltd.,	1	Pub	1600.0
8	Jharkhand	13.05.2005	2005	OC	Moitra	Jayaswal Neco Ltd.	1	Pvt	215.8
9	Jharkhand	07.07.2005	2005	UG	Central Parbatpur	Electro Steel Casting Ltd.,	1	Pvt	231.2
10	Jharkhand	24.08.2005	2005	OC	Lohari	Usha Martin Ltd.,	1	Pvt	10.0
11	Jharkhand	02.09.2005	2005	OC	Chitarpur North	Corporate Ispat Alloys Ltd.,	1	Pvt	212.0
12	Jharkhand	26.04.2005	2005	OC	Pachwara North	WBPDCL	1	Pub	609.4
13	Jharkhand	13.01.2006	2006	OC	Dumri	Nilachal Iron & Bajrang Ispat	1	Pvt	18.0
14	Jharkhand	25.04.2006	2006	OC	Bundu	Rungta	1	Pvt	102.1
15	Jharkhand	13.01.2006	2006	OC	Gondulpara	TVNL	1	Pub	191.0
16	Jharkhand	02.08.2006	2006	OC	Rajbar E & D	TVNL	1	Pub	385.0
17	Jharkhand	02.08.2006	2006	OC	Saria Khoyatand	BRKBNL	1	Pub	202.0
18	Jharkhand	02.08.2006	2006	UG	Gomia	MMTC	1	Pub	355.0
19	Jharkhand	09.04.2007	2007	UG	Sitanala	SAIL	1	Pub	108.8
20	Jharkhand	20.07.2007	2007	OC	Kirandari BC	JHARKHAND UMPP	1	Pvt	972.0
21	Jharkhand	25.07.2007	2007	OC	Umra Paharitola	JSEB & BSMDC	1	Pub	700.0
22	Jharkhand	20.02.2007	2007	OC	Chakla	Essar Power Ltd.	1	Pvt	83.1
23	Jharkhand	20.02.2007	2007	OC	Jitpur	JSPL	1	Pvt	81.1
24	Jharkhand	01.08.2007	2007	OC	Tubed	HINDALCO, TPL	1	Pvt	189.0
25	Jharkhand	06.11.2007	2007	OC	Ashok Karkata Central	Essar Power Ltd.	1	Pvt	110.0
26	Jharkhand	06.11.2007	2007	OC+UG	Patal East	Bhusan Power & Steel Ltd.	1	Pvt	200.0
27	Jharkhand	05.06.2008	2008	OC	Rohne	JSW Steel, Bhushan Steel & Power, Jai Balaji Ind.	1	Pvt	250.0
28	Jharkhand	20.11.2008	2008	OC	Rajhara North(C&E)	Mukund Ltd.& Vini Iron & Steel Ltd.	1	Pvt	17.1
29	Jharkhand	09.01.2008	2008	OC	Mahuagiri	CESC Ltd & Jas Infracture Capital Pvt Ltd	1	Pvt	220.0
30	Jharkhand	09.01.2008	2008	OC	Seregarha	Arcellor Mittal Ltd, & G.V.K. Power Ltd.	1	Pvt	150.0
31	Jharkhand	11.04.2008	2008	OC	Jogeswar Khas Jogeswar	JSMDCL	1	Pub	84.0
32	Jharkhand	26.06.2009	2009	OC	Mourya	JSEB	1	Pvt	225.4
33	Jharkhand	28.05.2009	2009	OC	Ganeshpur	Tata Steel Ltd., Adhunik Thermal Energy	1	Pvt	137.9
34	Jharkhand	28.05.2009	2009	OC+UG	Mednirai	Rungta Mines, Kohinoor Steel	1	Pvt	86.4
35	Jharkhand	17.01.2008	2008	OC	Amrakonda-Murgadangal	Jindal Steel & Power Ltd. & Gagan Sponge Iron Pvt. Ltd	1	Pvt	410.3
36	Jharkhand	23.01.2013	2013	OC	Kerandari	NTPC Ltd.,	1	Pub	188.8
37	Jharkhand	23.01.2013	2013	OC	Chatibariatu	NTPC Ltd.,	1	Pub	193.0
38	Jharkhand	23.01.2013	2013	OC	Chatibariatu South	NTPC Ltd.,	1	Pub	354.0
39	Jharkhand	28.02.2013	2013	OC	Banhardih	JSEB	1	Pub	920.4
40	Jharkhand	28.2.2013	2013	OC	Sahapur Jamarpani	DVC	1	Pub	600.0
41-43	Jharkhand	26.05.2005	2005	OC	Brinda, Sasai & Meral	Abhijit Infrastructure Ltd.,	3	Pvt	78.1
44-45	Jharkhand	11.08.2005	2005	OC+UG	Kotre Basantpur & Pachmo	Tata Steel Ltd.,	2	Pvt	250.4
46-48	Jharkhand	30.01.2006	2006	OC	Sugia, Rauta, Burakhap	JSMDCL	3	Pub	5.5
	Total Jharkhand						**48**		**11860.5**

Table 9.5: LIST OF COAL BLOCKS ALLOCATED TILL 31/03/2013

Sl No.	State (Block)	Date of Allocation (dd/mm/yy)	Year	OC/UG	Name of Block	Name of Allocattee	No. of Blocks	Public / Private	Block (GR in MT)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Andhra Pradesh	06.12.2005	2005	OC	Tadicherla	APGENCO	1	Pub	61.3
1	Madhya Pradesh	26.10.2006	2006	OC	Chitrasal	Sasan Power Ltd	1	Pvt	150.0
2	Madhya Pradesh	13.09.2006	2006	OC	Moher	Sasan Power Ltd	1	Pvt	402.0
3	Madhya Pradesh	13.09.2006	2006	OC	Moher Amroli Extn.	Sasan Power Ltd	1	Pvt	198.0
4	Madhya Pradesh	12.04.2006	2006	OC	Mahan	Essar power & Hindalco	1	Pvt	226.1
5	Madhya Pradesh	02.08.2006	2006	OC	Mara II Mahan	Govt. of NCT, Delhi & Oth.	1	Pub	955.0
6	Madhya Pradesh	02.08.2006	2006	OC	Dongeri Tal II	MPSMCL	1	Pub	175.0
7	Madhya Pradesh	01.08.2007	2007	UG	Brahmpuri	Pushp Industries Ltd	1	Pvt	55.1
8	Madhya Pradesh	29.05.2007	2007	UG	Sial Ghogri	Prism Cement Ltd.	1	Pvt	30.4
9	Madhya Pradesh	17.09.2007	2007	UG	Mandla North	Jiaprakash Associate Ltd.	1	Pvt	195.0
10	Madhya Pradesh	25.07.2007	2007	UG	Bicharpur	MPSMCL	1	Pub	36.0
11	Madhya Pradesh	25.07.2007	2007	UG	Shahpur(W)	NMDC	1	Pub	42.0
12	Madhya Pradesh	25.07.2007	2007	OC	Suliyari	APMDC	1	Pub	75.0
13	Madhya Pradesh	25.07.2007	2007	UG	Sharpur(E)	NMDC	1	Pub	42.0
14	Madhya Pradesh	25.07.2007	2007	UG	Mandla South	MPSMDCL	1	Pub	72.0
15	Madhya Pradesh	25.07.2007	2007	UG	Marki Barka	MPSMDCL	1	Pub	80.0
16	Madhya Pradesh	05.08.2008	2008	UG	TandsiIII & Tandsi III Extn.	Mesco Steel Ltd.	1	Pvt	17.4
17	Madhya Pradesh	21.11.2008	2008	UG	Thesgora B/Rudrapuri	Kamal Sponge & Revati Cements Ltd.	1	Pvt	45.0
18	Madhya Pradesh	12.08.2008	2008	UG	Bikram	Birla Corporation Ltd.	1	Pvt	21.0
19	Madhya Pradesh	12.10.2009	2009	UG	Urtan North	JSPL	1	Pvt	
20-21	Madhya Pradesh	21.06.1996	1996	OC	Gotitoria E & W	BLA	2	Pvt	9.3
22-23	Madhya Pradesh	12.01.2006	2006	OC	Amelia & Amelia North	MPSMCL	2	Pub	242.0
	Total Madhya Pradesh						**23**		**3068.2**
1	Maharashtra	25.04.2001	2001	OC	Marki Mangli-I	B. S. Ispat Ltd.,	1	Pvt	34.3
2	Maharashtra	29.10.2003	2003	OC	Majra	Gondwana Ispat Ltd.,	1	Pvt	31.5
3	Maharashtra	28.03.2005	2005	UG	Belgaon	Sunflag Iron & Steel Co. Ltd.,	1	Pvt	15.3
4	Maharashtra	13.01.2006	2006	UG	Nirad Melegaon	Gupta Metallics & Power	1	Pvt	19.5
5	Maharashtra	02.08.2006	2006	OC	Marki Jari Zamini Adkoli	MSMCL	1	Pub	11.0
6	Maharashtra	20.02.2007	2007	UG	Kosar Dongergaon	Chaman Metallicks Ltd.	1	Pvt	22.5
7	Maharashtra	06.11.2007	2007	OC+UG	Lohara West & Lohara Extn	Adani Power Ltd.	1	Pvt	169.8
8	Maharashtra	25.07.2007	2007	OC	Warora	MSMDCL	1	Pub	73.0
9	Maharashtra	17.07.2008	2008	OC	Bhivkund	MAHAGENCO	1	Pvt	100.0
10	Maharashtra	29.05.2009	2009	UG	Khappa Extn.	Sunflag Iron & Steel Co. Ltd., Dalmia Cement Ltd.	1	Pvt	84.7
11	Maharashtra	29.05.2009	2009	UG	Bander	AMR Iron & Steel, Century Textile, JK Cement	1	Pvt	126.1
12-17	Maharashtra	10.11.2003	2003	OC	Baranj I-IV, Kiloni & Manora Deep	Karnataka Power Corp. Ltd.,	6	Pub	152.5
18-20	Maharashtra	06.09.2005	2005	OC	Marki Mangli II-IV	Shree Virangana Steels Ltd.,	3	Pvt	19.0
	Total Maharashtra						**20**		**859.3**
1	Orissa	25.02.1994	1994	OC	Talabira-I	Hindalco Inds. Ltd.,	1	Pvt	22.6
2	Orissa	29.05.1998	1998	OC	Utkal-C	Utkal Coal Ltd.,	1	Pvt	208.8
3	Orissa	16.08.1999	1999	OC	Utkal B-2	Monnet Ispat & Energy Ltd.,	1	Pvt	106.0
4	Orissa	29.09.2003	2003	OC	Utkal B-1	Jindal Steel & Power Ltd.,	1	Pvt	228.4
5	Orissa	12.11.2003	2003	OC	Jamkhani	Bhusan Ltd.,	1	Pvt	80.0
6	Orissa	27.08.2004	2004	OC	Utkal-E	National Aluminium Co.Ltd.,	1	Pub	194.0
7	Orissa	29.11.2005	2005	OC	Utkal A	MCL & Others	1	Pvt	269.6
8	Orissa	10.11.2005	2005	OC	Talabira II	MCL & NLC & Others	1	Pub	589.2
9	Orissa	13.01.2006	2006	OC	Bijhahan	Bhusan Ltd.,	1	Pvt	130.0

Table 9.5: LIST OF COAL BLOCKS ALLOCATED TILL 31/03/2013

Sl No.	State (Block)	Date of Allocation (dd/mm/yy)	Year	OC/UG	Name of Block	Name of Allocattee	No. of Blocks	Public / Private	Block (GR in MT)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Andhra Pradesh	06.12.2005	2005	OC	Tadicherla	APGENCO	1	Pub	61.3
10	Orissa	07.02.2006	2006	OC	Radhikapur E	TSIL & Others	1	Pvt	115.0
11	Orissa	25.04.2006	2006	OC	Radhikapur W	Rungta & Others	1	Pvt	210.0
12	Orissa	13.09.2006	2006	OC	Meenakshi	Power Finance Corpn. Ltd.	1	Pvt	285.0
13	Orissa	13.09.2006	2006	OC	Meenakshi-B	Power Finance Corpn. Ltd.	1	Pvt	250.0
14	Orissa	13.09.2006	2006	OC	Dip side of Meenakshi	Power Finance Corpn. Ltd.	1	Pvt	350.0
15	Orissa	25.01.2006	2006	OC	Dulanga	NTPC Ltd.,	1	Pub	260.0
16	Orissa	02.08.2006	2006	OC	Naugaon Telisahi	OMC & APMC Ltd.	1	Pub	733.0
17	Orissa	25.07.2007	2007	OC	Manoharpur	OPGCL	1	Pub	181.7
18	Orissa	25.07.2007	2007	OC	Dip side of Monoharpur-II	OPGCL	1	Pub	350.0
19	Orissa	09.01.2008	2008	OC	Mandakini	Monnet Ispat , Jindal Photo Ltd, Tata Power Ltd	1	Pvt	290.5
20	Orissa	27.02.2009	2009	OC	Ramchandi Promotional	JSPL	1	Pvt	1500.0
21	Orissa	27.02.2009	2009	OC	North of Arkhapal	Strategic Energy Tech.	1	Pvt	1500.0
22	Orissa	21.06.2010	2010	OC	Bankui	Shakshi Gopal Intregrated Power	1	Pvt	800.0
23-24	Orissa	25.07.2007	2007	OC	Chendipada & Chendipada-II	UPRVNL,CMDC,MPGCL,	2	Pub	1589.0
25-26	Orissa	17.01.2008	2008	OC	Rampia & Dipside of Rampia	Sterlite Energy, GMR Energy, Arcellor Mittal Energy, Lanco group Ltd, Nav bharat Power Reliance Energy Ltd.	2	Pvt	645.3
27-28	Orissa	06.02.2006	2006	OC	Mahanadi & Machhakata	MSEB & GSEB	2	Pub	1200.0
	Total Orissa						**28**		**12088.0**
1	West Bengal	10.08.1993	1993	OC	Sarshatoli	CESC/ Integrated Coal Mining Ltd.,	1	Pub	140.5
2	West Bengal	14.07.1995	1995	OC	TARA East	WBSEB / BECML	1	Pub	84.5
3	West Bengal	17.04.1996	1996	OC	TARA West	WBPDCIL / BECML	1	Pub	125.7
4	West Bengal	14.01.2005	2005	UG	Trans Damodar	WBMDC Ltd.,	1	Pub	103.2
5	West Bengal	02.08.2006	2006	UG	Ichapur	WBMTDCL	1	Pub	335.0
6	West Bengal	02.08.2006	2006	UG	Kulti	WBMTDCL	1	Pub	210.0
7	West Bengal	20.02.2007	2007	UG	Bihari Nath	Bankura DRI Mining Manufacturing Pvt. Ltd.	1	Pvt	95.2
8	West Bengal	06.12.2007	2007	OC+UG	Ardhagram	Sova Ispat, Jai Balaji Sponge	1	Pvt	122.0
9	West Bengal	25.07.2007	2007	UG	Jaganathpur A	WBMDCL	1	Pub	273.0
10	West Bengal	25.07.2007	2007	UG	Jaganathpur-B	WBMDCT	1	Pub	176.0
11	West Bengal	27.12.2007	2007	UG	Sitarampur	WBMTDCL	1	Pub	210.0
12	West Bengal	03.07.2009	2009	UG	Andal East	Bhusan Steel, Jai Balaji, Rashmi Cement	1	Pvt	700.0
13	West Bengal	06.10.2009	2009	UG	Moira Madhujore	Ramswarup Lohh Udyog Ltd & Others	1	Pvt	686.2
14-16	West Bengal	23.06.2003	2003	OC	Barjora G.Chak& Bhadulia	WBPDCL	3	Pub	22.0
17-18	West Bengal	03.03.2005	2005	OC	Barjiora (North), K- Joydev	DVC	2	Pub	281.6
	Total West Bengal						**18**		**3564.8**
ALL INDIA							**178**		**40255.2**

Out of total allocated 218 blocks, 40 Coal Blocks deallocated till 31.3.2013 which was excluded from the list.

Table - 9.6 : LIGNITE BLOCKS ALLOCATED TILL 31/03/2013

Sl. No.	State (Block)	Date of Allocation	Name of Block	Name of Allocattee	No. of Blocks	Sector	GR while allotting	End Use Project	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Gujarat	15/07/1995	Vastan	GIPCL	1	Pub	40.0	Power	Producing
2	Gujarat	27.07.2000	Khadsaliya	GHCL	1	Pvt	20.0	Power	Producing
3	Gujarat	05.12.2001	Tadkeswar	GMDC	1	Pub	40.0	Commercial	Producing
4	Gujarat	30/04/2003	Mata na Madh	GMDC	1	Pub	34.0	Commercial	Producing
5	Gujarat	21/07/1973	Panandhro	GMDC	1	Pub	98.0	Commercial	Producing
6	Gujarat	05.12.2001	Rajpardi /G-19 Extn (Amod)	GMDC	2	Pub	21.0	Commercial	Producing
7	Gujarat	09.03.2000	Mongrol Valia	GIPCL	1	Pub	341.7	Power	Producing
8	Gujarat	Not available	Akrimota	GMDC	1	Pub	81.0	Commercial	
9	Gujarat	06.09.2005	Khadsaliya-II & Surka III	GIPCL	2	Pub	300.0	Power	
10	Gujarat	5.12.2001	Surkha (North), Bhavnagar	GMDC	1	Pub	69.6	Commercial	
	Gujarat		**Total**		**12**		**1045.4**		
1	Rajasthan	02.11.1994	Giral	RSSML	1	Pub	101.9	Commercial	Producing
2	Rajasthan	25.08.2001	Matasukh	RSMML	1	Pub	16.9	Commercial	Producing
3	Rajasthan	14.07.2003	Matasukh	RSMML	1	Pub	36.1	Power	
3	Rajasthan	06.09.2004	Soneri	RSMML	1	Pub	42.6	Power	
4	Rajasthan	01.07.2005	Gurha(W)	RSMML	1	Pub	37.5	Commercial	
5	Rajasthan	01.07.2005	Gurha(E)	V.S Lig	1	Pvt	44.7	Power	Producing
6	Rajasthan	13.11.2006	Kapurdih & Jalipa	RSMML	2	Pub	450.9	Power	
7	Rajasthan	13.11.2006	Shivkar-Kurla & Sachcha Sauda	RSMML	2	Pub	140.7	Commercial	
8	Rajasthan	07.02.2007	Mondal Charan	Indure Pvt.Ltd	1	Pvt	17.7	Power	
8	Rajasthan	07.02.2007	Merta Road	NSL Power	1	Pvt	23.9	Power	
9	Rajasthan	07.02.2007	Indawar	Nandlal Enterprise	1	Pvt	12.0	Power	
10	Rajasthan	07.02.2007	Kaprion-Ki-Dhani	DCM Shriram	1	Pvt	17.0	Power	
11	Rajasthan	07.02.2007	Nimbri Chandrabadan	Binani Cement	1	Pvt	9.7	Power	
			Total		**15**		**951.4**		
			Grand Total		**27**		**1996.8**		

Note: GR of Kharsaliya etc. is estimated from inferred GR, GR of Rajpardi extn is included in Rajapardi.

Section X
World Coal Review

10.1 Reserve

10.1.1 World coal reserve (including lignite) is dispersed unevenly over different regions of the world. Statement 10.1 shows distribution of world coal reserves over different countries by end of 2012. It can be seen that the top five places, as per coal reserve, are occupied by USA (27.6%), Russia (18.2%), China (13.3%), Australia (8.9%) and India (7%) and these five countries together account for 75% of total world coal reserves.

Statement 10.1: World Coal and Lignite Reserve (MT)

Country / Group	Reserve	% Share
USA	237295	27.6
Russian Federation	157010	18.2
China	114500	13.3
Australia	76400	8.9
India	60600	7.0
Germany	40699	4.7
Ukraine	33873	3.9
Kazakhstan	33600	3.9
South Africa	30156	3.5
Other Europe and Eurasia	22175	2.6
Others	70645	6.4
World	860938	100.0

Source: Survey of Energy Resources, World Energy Council.

10.2 Production

10.2.1 World coal and lignite production during the year 2012 was 7660.33 MT comprising of 6755.75 MT and 904.58 MT of coal and lignite respectively. During the year 2011, production of coal and lignite was 7456.39 MT comprising of coal 6528.55 MT and lignite 927.54 MT. Statement 10.2 shows main coal and lignite producing countries during 2012. In this Statement it can be seen that the top six positions are occupied by China (3405.50 MT), USA (922.06 MT), India (589.35 MT), Indonesia (442.81 MT), Australia (420.74 MT), and Russia (353.94 MT) and these six countries together account for about 80.03% of total world coal production whereas China alone accounts for 44.76% of the coal production.

Statement 10.2: World Coal and Lignite Production (MT) in 2012

Country / Group	Production	% Share
China	3405.50	44.46
USA	922.06	12.04
India	589.35	7.69
Indonesia	442.81	5.78
Australia	420.74	5.49
Russia	353.94	4.62
South Africa	259.30	3.38
Germany	196.99	2.57
Poland	143.51	1.87
Kazakhstan	126.02	1.65
Others	800.11	10.44
World	7660.33	100.00

10.2.2 World Coking Coal production during 2012 is given in Statement 10.3.

Statement 10.3: World Coking Coal Production (MT) in 2012

Country	Production	% Share
China	510.45	51.89
Australia	146.94	14.94
United States of America	81.30	8.26
Russian Federation	74.60	7.58
India	47.22	4.80
Canada	31.09	3.16
Mongolia	20.87	2.12
Ukraine	17.76	1.81
Kazakhstan	12.93	1.31
Poland	11.74	1.19
Others	28.88	2.94
World	983.78	100.00

Source: International Energy Agency (IEA).

10.2.5 Statement 10.4 provides world lignite production during 2012 by major lignite producing countries.

Statement 10.5: World Lignite Production (MT) in 2012

Country	Production	% Share
Germany	185.43	20.50
Russian Federation	77.86	8.61
Australia	73.54	8.13
USA	71.61	7.92
Turkey	65.95	7.29
Poland	64.28	7.11
Greece	61.79	6.83
Czech Republic	43.53	4.81
India	43.49	4.81
Others	217.10	24.00
World	904.58	100.00

Source: International Energy Agency (IEA)

Import and Export

10.3.1 World import of coal including lignite during 2012 registered a growth of 14.82% over the last year. During 2012 total coal and lignite import was 1276.48 MI against 1111.68 MT in 2011. Import of coking coal was 283.93 MT, steam coal 989.27 MT and lignite was 3.28 MT. Statement 10.5 shows major country wise import of coking coal, steam coal and lignite during 2012.

Statement 10.5: World Coal Import (MT) in 2012

Country	Import		
	Coking Coal	Steam Coal	Total Coal
China	70.64	218.14	288.78
Japan	52.20	131.57	183.77
Korea	31.26	94.28	125.54
India	36.58	123.04	159.62
Chinese Taipei	8.41	56.12	64.53
Germany	9.26	35.94	45.2
Ukraine	9.56	4.05	13.61
Brazil	10.85	7.30	18.15
Turkey	7.58	21.06	28.64
Others	47.59	297.77	345.36
World	283.93	989.27	1273.20

Source: International Energy Agency (IEA).

10.3.2 World export of coal including lignite during 2012 registered a growth of 9.70% over 2011. During 2012, total coal and lignite export was 1255.34 MT against 1144.29 MT in 2011. During 2012, export of coking coal was 290.13 MT, steam coal 962.68 and lignite 2.53 MT. Statement 10.6 shows major country wise export of coal during 2012.

Statement 10.6: World Coal Export (MT) in 2012

Country	Export		
	Coking Coal	Steam Coal	Total Coal
USA	63.39	50.63	114.02
Canada	30.73	3.97	34.7
Indonesia	2.83	379.76	382.58
Australia	142.36	159.15	301.51
Mongolia	19.06	2.76	21.82
Russian Federation	18.25	115.93	134.18
South Africa	0.75	73.60	74.35
China	1.72	8.75	10.47
Namibia	2.69	0.41	3.1
Others	8.35	167.72	176.07
World	290.13	962.68	1252.81

Source: International Energy Agency (IEA).

10.3 Prices

10.4.1 Comparison of international coal prices has certain limitations. Table 10.4 may provide some indications of the world coal price.

Table 10.1 : WORLD PROVED COAL RESERVES AT THE END OF 2012

(Figs. In Million Tonnes)

Countries	Anthracite and bituminous	Sub-bituminous and Lignite	Total	Share of Total	R/P ratio	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)
US	108501	128794	**237295**	27.6%	257	* More than 500 years
Canada	3474	3108	**6582**	0.8%	98	# Less than 0.05%
Mexico	860	351	**1211**	0.1%	88	
Total North America	**112835**	**132253**	**245088**	**28.5%**	**244**	**Notes:**
Brazil	-	4559	**4559**	0.5%	*	**Proved reserves of coal** - Generally taken to be those quantities that geological and engineering information indicates with reasonable certainty can be recovered in the future from known deposits under existing economic and operating conditions.
Colombia	6366	380	**6746**	0.8%	76	
Venezuela	479	-	**479**	0.1%	292	
Other S. & Cent. America	45	679	**724**	0.1%	*	
Total S. & Cent. America	**6890**	**5618**	**12508**	**1.5%**	**129**	
Bulgaria	2	2364	**2366**	0.3%	72	
Czech Republic	192	908	**1100**	0.1%	20	
Germany	99	40600	**40699**	4.7%	207	
Greece	-	3020	**3020**	0.4%	50	
Hungary	13	1647	**1660**	0.2%	179	
Kazakhstan	21500	12100	**33600**	3.9%	289	
Poland	4338	1371	**5709**	0.7%	40	
Romania	10	281	**291**	0.0%	9	
Russian Federation	49088	107922	**157010**	18.2%	443	**Reserves-to-production (R/P) ratio** - If the reserves remaining at the end of the year are divided by the production in that year, the result is the length of time that those remaining reserves would last if production were to continue at that rate.
Spain	200	330	**530**	0.1%	85	
Turkey	529	1814	**2343**	0.3%	33	
Ukraine	15351	18522	**33873**	3.9%	384	
United Kingdom	228	-	**228**	0.0%	14	
Other Europe & Eurasia	1440	20735	**22175**	2.6%	234	
Total Europe & Eurasia	**92990**	**211614**	**304604**	**35.4%**	**238**	
South Africa	30156	-	**30156**	3.5%	116	
Zimbabwe	502	-	**502**	0.1%	196	
Other Africa	860	174	**1034**	0.1%	*	
Middle East	1203	-	**1203**	0.1%	*	
Total Middle East & Africa	**32721**	**174**	**32895**	**3.8%**	**124**	
Australia	37100	39300	**76400**	8.9%	177	
China	62200	52300	**114500**	13.3%	31	
India	56100	4500	**60600**	7.0%	100	
Indonesia	1520	4009	**5529**	0.6%	14	
Japan	340	10	**350**	0.0%	265	
New Zealand	33	538	**571**	0.1%	115	
North Korea	300	300	**600**	0.1%	19	
Pakistan	-	2070	**2070**	0.2%	*	
South Korea	-	126	**126**	0.0%	60	
Thailand	-	1239	**1239**	0.1%	68	
Vietnam	150	-	**150**	0.0%	4	
Other Asia Pacific	1583	2125	**3708**	0.4%	88	
Total Asia Pacific	**159326**	**106517**	**265843**	**30.9%**	**51**	
Total World	**404762**	**456176**	**860938**	**100.0%**	**109**	
of which: OECD	155926	222603	**378529**	44.0%	186	
Non-OECD	248836	233573	**482409**	56.0%	83	
European Union #	5101	51047	**56148**	6.5%	97	
Former Soviet Union	86725	141309	**228034**	26.5%	390	

Source of reserves data: Survey of Energy Resources 2010, World Energy Council.

Table 10.2: Trends of Coal Production By Major Coal Producing Countries during Last Ten Years
(Figs. In Million Tonnes Oil Equivalent)

Countries	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	Change 2012 over 2011	2012 Share of Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
US	553.6	572.4	580.2	595.1	587.7	596.7	540.8	551.2	556.1	**515.9**	-7.5%	13.4%
Canada	31.8	33.9	35.3	34.8	35.7	35.6	33.1	35.4	35.5	**35.2**	-1.1%	0.9%
Mexico	4.6	4.7	5.2	5.5	6.0	5.5	5.0	5.8	7.0	**6.6**	-5.3%	0.2%
Total North America	**590.1**	**611.0**	**620.7**	**635.4**	**629.4**	**637.8**	**578.9**	**592.4**	**598.5**	**557.7**	**-7.1%**	**14.5%**
Brazil	1.8	2.0	2.4	2.2	2.3	2.5	1.9	2.0	2.1	**2.2**	5.7%	0.1%
Colombia	32.5	34.9	38.4	42.6	45.4	47.8	47.3	48.3	55.8	**58.0**	3.7%	1.5%
Venezuela	5.1	5.9	5.3	5.7	4.5	3.6	2.4	2.0	1.7	**1.2**	-27.9%	w
Other S. & Cent. America	0.5	0.2	0.3	0.6	0.3	0.4	0.5	0.3	0.4	**0.5**	9.3%	w
Total S. & Cent. America	**39.9**	**43.0**	**46.3**	**51.2**	**52.5**	**54.3**	**52.2**	**52.7**	**59.9**	**61.8**	**2.9%**	**1.6%**
Bulgaria	4.5	4.4	4.1	4.2	4.7	4.8	4.5	4.9	6.1	**5.4**	-12.1%	0.1%
Czech Republic	24.2	23.5	23.5	23.8	23.6	22.8	21.0	20.8	21.6	**20.7**	-4.2%	0.5%
France	1.3	0.4	0.2	0.2	0.2	0.1	^	0.1	0.1	**0.1**	-0.3%	w
Germany	54.1	54.7	53.2	50.3	51.5	47.7	44.4	43.7	44.6	**45.7**	2.0%	1.2%
Greece	9.0	9.6	9.4	8.6	9.0	8.8	8.6	7.8	7.9	**7.9**	-0.5%	0.2%
Hungary	2.8	2.4	2.0	2.1	2.0	1.9	1.9	1.9	2.0	**1.9**	-3.0%	w
Kazakhstan	43.3	44.4	44.2	49.1	50.0	56.8	51.5	54.0	56.2	**58.8**	4.2%	1.5%
Poland	71.4	70.5	68.7	67.0	62.3	60.5	56.4	55.5	56.6	**58.8**	3.6%	1.5%
Romania	7.0	6.7	6.6	6.5	6.7	6.7	6.4	5.8	6.7	**6.4**	-4.3%	0.2%
Russian Federation	127.1	131.7	139.2	145.1	148.0	153.4	142.1	151.1	158.0	**168.1**	6.1%	4.4%
Spain	6.8	6.7	6.4	6.1	5.7	4.1	3.8	3.4	2.5	**2.4**	-5.5%	0.1%
Turkey	10.4	10.1	12.6	13.7	16.0	16.8	17.1	15.8	16.3	**15.4**	-5.6%	0.4%
Ukraine	41.6	42.2	41.0	41.7	39.9	41.3	38.4	39.9	44.0	**45.9**	4.0%	1.2%
United Kingdom	17.2	15.3	12.5	11.3	10.3	11.0	10.9	11.2	11.3	**10.2**	-10.1%	0.3%
Other Europe & Eurasia	19.0	18.5	17.7	18.5	20.6	21.0	20.3	20.1	21.5	**21.2**	-1.5%	0.6%
Total Europe & Eurasia	**439.8**	**441.0**	**441.2**	**448.2**	**450.7**	**457.8**	**427.2**	**436.0**	**455.5**	**469.0**	**2.7%**	**12.2%**
Total Middle East	**0.7**	**0.8**	**1.0**	**1.0**	**1.0**	**1.0**	**0.7**	**0.6**	**0.7**	**0.7**	**-0.3%**	**w**
South Africa	134.1	137.2	137.7	138.0	139.6	142.4	141.2	145.0	141.8	**146.6**	3.1%	3.8%
Zimbabwe	1.8	2.4	2.2	1.4	1.3	1.0	1.1	1.7	1.7	**1.7**	-0.3%	w
Other Africa	1.6	1.3	1.2	1.3	1.0	1.0	0.9	1.1	1.1	**1.1**	-0.3%	w
Total Africa	**137.5**	**140.9**	**141.1**	**140.6**	**141.9**	**144.4**	**143.2**	**147.8**	**144.5**	**149.3**	**3.0%**	**3.9%**
Australia	189.4	196.8	205.7	210.8	217.1	224.1	232.1	236.0	230.8	**241.1**	4.2%	6.3%
China	917.4	1061.3	1174.8	1264.3	1345.8	1401.0	1486.5	1617.5	1758.0	**1825.0**	3.5%	47.5%
India	144.4	155.7	162.1	170.2	181.0	195.6	210.8	217.5	215.7	**228.8**	5.8%	6.0%
Indonesia	70.3	81.4	93.9	119.2	133.4	147.8	157.6	169.2	217.3	**237.4**	9.0%	6.2%
Japan	0.7	0.7	0.6	0.7	0.8	0.7	0.7	0.5	0.7	**0.7**	3.6%	w
New Zealand	3.2	3.3	3.3	3.6	3.0	3.0	2.8	3.3	3.1	**3.1**	-0.3%	0.1%
Pakistan	1.5	1.5	1.6	1.7	1.6	1.8	1.6	1.5	1.4	**1.2**	-13.5%	w
South Korea	1.5	1.4	1.3	1.3	1.3	1.2	1.1	0.9	0.9	**0.9**	0.1%	w
Thailand	5.3	5.6	5.8	5.3	5.1	5.0	5.0	5.1	6.0	**5.1**	-14.3%	0.1%
Vietnam	10.8	14.7	18.3	21.8	22.4	23.0	25.2	24.6	24.9	**23.5**	-6.1%	0.6%
Other Asia Pacific	20.3	22.1	24.9	25.3	24.0	25.8	28.8	36.9	41.1	**40.0**	-3.1%	1.0%
Total Asia Pacific	**1364.9**	**1544.5**	**1692.2**	**1824.2**	**1935.6**	**2028.9**	**2152.1**	**2313.2**	**2499.9**	**2606.8**	**4.0%**	**67.8%**
Total World	**2572.7**	**2781.3**	**2942.4**	**3100.7**	**3211.1**	**3324.2**	**3354.3**	**3542.7**	**3759.1**	**3845.3**	**2.0%**	**100.0%**
of which:OECD	990.0	1013.4	1026.1	1041.4	1040.3	1048.0	986.7	1000.2	1003.7	**973.4**	-3.3%	25.3%
Non-OECD	1582.7	1767.9	1916.3	2059.3	2170.8	2276.2	2367.6	2542.5	2755.4	**2871.9**	3.9%	74.7%
European Union #	203.8	199.1	191.3	184.6	181.3	173.4	162.7	160.5	165.0	**165.1**	-0.2%	4.3%
Former Soviet Union	215.8	222.2	228.5	239.9	242.5	256.2	236.5	250.1	263.8	**278.6**	5.3%	7.2%

* Commercial solid fuels only, i.e. bituminous coal and anthracite (hard coal), and lignite and brown (sub-bituminous) coal.

^ Less than 0.05.

w Less than 0.05%.

Excludes Estonia, Latvia and Lithuania prior to 1985 and Slovenia prior to 1991.

Note: Growth rates are adjusted for leap years.

Source : BP Statistical Review

Table 10.3: Coal Consumption in Major Coal Consuming Countries of the World during last Ten Years

(Figs. In Million Tonnes Oil Equivalent)

Countries	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	Change in 2012 over 2011	2012 Share of Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
US	562.5	566.1	574.2	565.7	573.3	564.1	496.2	523.9	495.5	**437.8**	-11.9%	11.7%
Canada	31.7	29.8	30.9	29.9	31.3	29.6	24.4	25.0	22.3	**21.9**	-2.2%	0.6%
Mexico	7.9	6.6	8.2	8.2	8.2	6.7	7.7	8.5	8.9	**8.8**	-0.7%	0.2%
Total North America	**602.1**	**602.6**	**613.3**	**603.7**	**612.7**	**600.4**	**528.4**	**557.5**	**526.7**	**468.5**	**-11.3%**	**12.6%**
Argentina	0.7	0.8	0.9	0.3	0.4	1.1	1.2	1.0	0.9	**1.0**	4.4%	w
Brazil	11.1	12.0	11.9	11.8	12.6	12.7	10.8	13.3	14.1	**13.5**	-4.4%	0.4%
Chile	2.3	2.6	2.6	3.2	3.8	4.1	3.7	4.2	5.3	**6.7**	25.1%	0.2%
Colombia	2.4	2.0	2.7	2.4	2.4	2.8	3.5	4.0	4.3	**4.0**	-7.3%	0.1%
Ecuador	-	-	-	-	-	-	-	-	-	**-**	-	-
Peru	0.7	0.7	0.8	0.6	0.8	0.8	0.8	0.8	0.7	**0.8**	6.0%	w
Trinidad & Tobago	-	-	-	-	-	-	-	-	-	**-**	-	-
Venezuela	^	-	^	^	0.1	0.1	0.2	0.2	0.2	**0.2**	5.3%	w
Other S. & C.America	2.0	1.8	1.6	1.8	1.9	2.0	1.9	2.0	2.0	**2.0**	2.5%	0.1%
Total S. & Cent. America	**19.2**	**20.0**	**20.5**	**20.2**	**22.0**	**23.5**	**22.0**	**25.4**	**27.6**	**28.2**	**2.0%**	**0.8%**
Austria	3.3	3.3	3.1	3.1	3.0	2.8	2.3	2.5	2.6	**2.0**	-23.8%	0.1%
Azerbaijan	^	^	^	^	^	^	^	^	^	**^**	3.8%	w
Belarus	0.1	0.1	0.1	0.1	^	^	^	^	^	**^**	1.2%	w
Belgium	5.8	5.6	5.0	4.8	4.4	3.9	3.1	3.3	3.3	**3.0**	-9.5%	0.1%
Bulgaria	7.2	7.1	6.8	6.9	7.7	7.5	6.4	6.8	8.1	**7.0**	-13.4%	0.2%
Czech Republic	20.8	20.9	20.4	21.1	21.2	19.9	17.4	18.2	18.0	**16.6**	-7.8%	0.4%
Denmark	5.7	4.6	3.7	5.6	4.7	4.1	4.0	3.8	3.2	**2.5**	-23.4%	0.1%
Finland	5.5	5.0	2.9	4.7	4.4	3.0	3.3	4.3	3.4	**2.9**	-15.1%	0.1%
France	13.6	13.5	13.8	12.5	13.4	12.7	10.5	11.3	9.5	**11.4**	20.1%	0.3%
Germany	87.2	85.4	82.1	83.5	85.7	80.1	71.7	76.6	76.0	**79.2**	3.9%	2.1%
Greece	9.4	9.0	8.8	8.1	8.5	8.1	8.1	7.4	7.5	**7.5**	-0.5%	0.2%
Hungary	3.6	3.3	3.0	3.2	3.4	3.3	2.7	3.0	3.0	**3.0**	-1.9%	0.1%
Republic of Ireland	1.7	1.8	1.9	1.6	1.6	1.4	1.2	1.2	1.3	**1.5**	16.9%	w
Italy	14.0	16.0	16.0	16.4	16.6	16.4	12.9	14.3	16.1	**16.2**	0.3%	0.4%
Kazakhstan	25.2	26.5	27.2	29.8	31.7	33.4	32.6	31.6	34.0	**35.0**	2.6%	0.9%
Lithuania	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	**0.2**	-5.5%	w
Netherlands	9.1	9.1	8.7	8.5	9.0	8.5	7.9	7.9	7.8	**8.5**	8.2%	0.2%
Norway	0.7	0.8	0.7	0.6	0.7	0.7	0.5	0.6	0.7	**0.7**	-0.5%	w
Poland	57.7	57.3	55.7	58.0	57.9	56.0	51.9	56.4	56.1	**54.0**	-4.0%	1.4%
Portugal	3.8	3.7	3.8	3.8	3.3	2.5	2.9	1.7	2.2	**2.9**	31.4%	0.1%
Romania	7.8	7.4	7.6	8.5	7.4	7.4	6.6	6.1	7.3	**6.7**	-9.5%	0.2%
Russian Federation	104.0	99.5	94.2	96.7	93.4	100.4	91.9	90.2	93.7	**93.9**	w	2.5%
Slovakia	4.2	4.1	3.9	3.8	3.8	3.7	3.5	3.4	3.3	**3.2**	-3.5%	0.1%
Spain	21.0	22.0	22.5	19.8	21.9	15.5	11.8	9.8	15.5	**19.3**	24.2%	0.5%
Sweden	2.2	2.3	2.2	2.3	2.2	2.0	1.6	2.1	2.0	**1.5**	-25.7%	w
Switzerland	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	**0.1**	6.5%	w
Turkey	20.7	21.8	21.8	25.9	28.9	29.2	30.4	30.9	33.1	**31.3**	-5.6%	0.8%
Turkmenistan	-	-	-	-	-	-	-	-	-	**-**	-	-
Ukraine	40.3	39.1	37.4	39.7	39.7	40.2	35.1	37.9	41.5	**44.6**	6.9%	1.2%
United Kingdom	38.1	36.6	37.4	40.9	38.4	35.6	29.9	31.0	31.5	**39.1**	24.0%	1.0%
Uzbekistan	0.7	1.2	1.2	1.7	1.4	1.4	1.1	1.1	1.2	**1.2**	-0.3%	w
Other Europe & Eurasia	23.1	23.7	22.1	19.2	20.5	21.0	19.7	21.1	22.5	**22.2**	-1.7%	0.6%
Total Europe & Eurasia	**536.9**	**531.2**	**514.5**	**531.3**	**535.1**	**521.0**	**471.4**	**484.8**	**504.6**	**516.9**	**2.2%**	**13.9%**

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Table 10.3: Coal Consumption in Major Coal Consuming Countries of the World during last Ten Years

(Figs. In Million Tonnes Oil Equivalent)

Countries	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	Change in 2012 over 2011	2012 Share of Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Iran	1.1	1.2	1.3	1.2	1.3	0.9	1.0	0.9	0.9	**0.9**	-2.1%	w
Israel	7.9	8.0	7.9	7.8	8.0	7.9	7.7	7.7	7.9	**8.8**	10.8%	0.2%
Kuwait	-	-	-	-	-	-	-	-	-	**-**	-	-
Qatar	-	-	-	-	-	-	-	-	-	**-**	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	**-**	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	**-**	-	-
Other Middle East	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	**0.2**	-2.6%	w
Total Middle East	**9.1**	**9.2**	**9.3**	**9.2**	**9.5**	**9.0**	**8.9**	**8.8**	**9.0**	**9.9**	**9.2%**	**0.3%**
Algeria	0.6	0.6	0.6	0.6	0.6	0.6	0.2	-	-	**-**	-	-
Egypt	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	**1.1**	1.9%	w
South Africa	81.4	85.2	84.4	85.4	90.1	96.9	92.9	90.0	89.1	**89.8**	0.5%	2.4%
Other Africa	6.3	7.1	7.3	6.8	6.2	6.4	5.4	6.4	6.5	**6.6**	1.1%	0.2%
Total Africa	**89.5**	**94.2**	**93.5**	**94.0**	**98.0**	**105.0**	**99.7**	**97.4**	**96.7**	**97.5**	**0.6%**	**2.6%**
Australia	49.4	50.8	53.5	56.0	54.1	54.6	54.5	51.6	51.7	**49.3**	-4.9%	1.3%
Bangladesh	0.4	0.4	0.4	0.5	0.4	0.6	0.6	0.6	0.7	**0.7**	5.8%	w
China	868.2	1019.9	1128.3	1250.4	1320.3	1369.2	1470.7	1609.7	1760.8	**1873.3**	6.1%	50.2%
China Hong Kong SAR	6.6	6.6	6.7	7.0	7.5	7.0	7.6	6.3	7.7	**7.6**	-1.7%	0.2%
India	156.8	172.3	184.4	195.4	210.3	230.4	251.5	262.7	270.6	**298.3**	9.9%	8.0%
Indonesia	24.2	22.2	25.4	30.1	37.8	30.1	34.6	41.2	48.9	**50.4**	2.8%	1.4%
Japan	112.2	120.8	121.3	119.1	125.3	128.7	108.8	123.7	117.7	**124.4**	5.4%	3.3%
Malaysia	5.3	6.6	6.9	7.3	8.8	9.8	10.6	14.8	14.8	**14.3**	-3.2%	0.4%
New Zealand	2.0	2.1	2.3	2.2	1.7	2.1	1.6	1.4	1.4	**1.7**	21.3%	w
Pakistan	2.9	3.8	4.1	4.2	5.1	5.3	4.7	4.5	4.3	**4.3**	-1.8%	0.1%
Philippines	4.7	5.0	5.7	5.5	5.9	7.0	6.7	7.7	8.3	**9.4**	13.2%	0.3%
Singapore	-	-	-	-	-	-	-	-	-	**-**	-	-
South Korea	51.1	53.1	54.8	54.8	59.7	66.1	68.6	75.9	83.6	**81.8**	-2.4%	2.2%
Taiwan	35.1	36.6	38.1	39.6	41.8	40.2	38.7	40.3	41.5	**41.1**	-1.2%	1.1%
Thailand	9.4	10.4	11.2	12.4	14.1	15.3	14.5	15.3	16.0	**16.0**	-0.3%	0.4%
Vietnam	5.5	8.2	8.0	9.5	10.1	10.0	14.0	13.9	15.0	**14.9**	-0.8%	0.4%
Other Asia Pacific	19.5	19.6	21.0	22.6	19.3	21.2	20.7	20.6	21.2	**21.6**	1.6%	0.6%
Total Asia Pacific	**1353.2**	**1538.1**	**1672.1**	**1816.8**	**1922.4**	**1997.4**	**2108.4**	**2290.2**	**2464.2**	**2609.1**	**5.6%**	**69.9%**
Total World	**2610.0**	**2795.2**	**2923.2**	**3075.1**	**3199.8**	**3256.3**	**3238.7**	**3464.0**	**3628.8**	**3730.1**	**2.5%**	**100.0%**
of which: OECD	1160.2	1171.1	1178.1	1180.2	1204.0	1178.4	1055.7	1117.2	1096.1	**1053.1**	-4.2%	28.2%
Non-OECD	1449.8	1624.1	1745.1	1894.9	1995.8	2077.9	2183.0	2346.8	2532.7	**2677.0**	5.4%	71.8%
European Union #	326.9	323.1	314.4	322.2	324.1	299.7	264.4	276.7	283.4	**293.7**	3.4%	7.9%
Former Soviet Union	174.5	170.9	164.2	171.9	170.9	180.0	164.8	166.1	175.9	**180.2**	2.2%	4.8%

* Commercial solid fuels only, i.e. bituminous coal and anthracite (hard coal), and lignite and brown (sub-bituminous) coal.

^ Less than 0.05.

w Less than 0.05%.

Excludes Estonia, Latvia and Lithuania prior to 1985 and Slovenia prior to 1991.

Note: Growth rates are adjusted for leap years.

Table 10.4: Trends of World Coal Prices

(Quantity in USD/ Tonne)

Year	Northwest Europe marker price †	US Central Appalachian coal spot price index ‡	Japan coking coal import cif price	Japan steam coal import cif price	Asian Marker price †
(1)	(2)	(3)	(4)	(5)	(6)
1993	33.68	29.85	55.26	45.71	-
1994	37.18	31.72	51.77	43.66	-
1995	44.50	27.01	54.47	47.58	-
1996	41.25	29.86	56.68	49.54	-
1997	38.92	29.76	55.51	45.53	-
1998	32.00	31.00	50.76	40.51	29.48
1999	28.79	31.29	42.83	35.74	27.82
2000	35.99	29.90	39.69	34.58	31.76
2001	39.03	50.15	41.33	37.96	36.89
2002	31.65	33.20	42.01	36.90	30.41
2003	43.60	38.52	41.57	34.74	36.53
2004	72.08	64.90	60.96	51.34	72.42
2005	60.54	70.12	89.33	62.91	61.84
2006	64.11	62.96	93.46	63.04	56.47
2007	88.79	51.16	88.24	69.86	84.57
2008	147.67	118.79	179.03	122.81	148.06
2009	70.66	68.08	167.82	110.11	78.81
2010	92.50	71.63	158.95	105.19	105.43
2011	121.52	87.38	229.12	136.21	125.74
2012	92.50	72.06	191.46	133.61	105.50

† Source: McCloskey Coal Information Service. Prices for 1990-2000 are the average of the

‡ Source: Platts. Prices are for CAPP 12,500 Btu, 1.2 SO2 coal, fob.

Prices for 1990-2000 are by coal price publication date, 2001-2012 by coal price assessment

Note: CAPP = Central Appalachian; cif = cost+insurance+freight (average prices);

Table-10.5: Production of Coal and Coke by Major Coal Producing Countries during 2011 & 2012

(Quantity in Thousand Tonnes)

Country	2012					2011				
	Coking Coal	Other Bit. & Anthracite	Sub-Bit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke	Coking Coal	Other Bit. & Anthracite	Sub-Bit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
United States of America	81300	357850	411302	71610	13764	81656	396050	441161	73574	13989
Canada	31086	4289	21694	9496	2949	29452	5169	22762	9731	2804
Mexico	2158	0	13031	0	2085	2043	0	13718	0	2122
North America	**114544**	**362139**	**446027**	**81106**	**18798**	**113151**	**401219**	**477641**	**83305**	**18915**
Colombia	3990	85461	0	0	2177	3990	81813	0	0	1981
Brazil	0	78	3186	3039	0	0	78	3291	2136	9683
Venezuela	0	3120	0	0	0	0	2100	0	0	0
Chile	0	137	580	0	588	0	654	0	0	549
Peru	0	149	0	0	0	0	163	0	0	0
Argentina	0	80	0	0	0	0	90	0	0	1195
S & C. America	**3990**	**89025**	**3766**	**3039**	**2765**	**3990**	**84898**	**3291**	**2136**	**13408**
Germany	6325	5233	0	185432	8050	7304	4755	0	176502	7990
Poland	11738	67496	0	64280	8903	11436	64232	0	62841	9377
Turkey	1123	1437	1000	65950	4253	1181	1347	1038	72550	3903
Greece	0	0	0	61789	0	0	0	0	58666	0
Czech Republic	5049	6391	0	43533	2467	5183	6082	0	46639	2586
Serbia	0	0	0	38022	0	0	0	0	41105	0
Bulgaria	0	8	0	32511	0	0	18	0	37110	0
Romania	0	0	40	33991	0	0	0	35	35478	0
United Kingdom	338	16000	0	0	3725	383	17509	0	0	4053
Estonia	0	0	0	18962	25	0	0	0	19057	24
Bosnia and Herzegovina	0	0	6339	6288	0	0	0	6339	6289	887
Hungary	0	0	0	9290	1026	0	0	0	9555	1049
Spain	0	3891	2254	0	1740	0	4262	2359	0	1974
Finland	0	0	0	4270	881	0	0	0	6935	852
Kosovo	0	0	0	8684	0	0	0	0	8293	0
Slovenia	0	0	0	4278	0	0	0	0	4501	0
Italy	0	80	0	0	4034	0	92	0	0	4788
Slovak Republic	0	0	0	2292	1561	0	0	0	2376	1620
Ireland	0	0	0	1452	0	0	0	0	3707	0
France	0	0	0	0	3205	0	0	0	0	2958
Netherlands	0	0	0	0	1883	0	0	0	0	2007
Montenegro	0	0	0	2000	0	0	0	0	1973	0
Belgium	0	0	0	0	1918	0	0	0	0	1923
Sweden	0	0	0	627	1115	0	0	0	736	1223
Norway	0	1229	0	0	0	0	1386	0	0	0
Austria	0	0	0	1	1308	0	0	0	1	1316
Albania	0	0	0	20	0	0	0	0	9	0
Belarus	0	0	0	0	0	0	0	0	2823	0
Lithuania	0	0	0	0	0	0	0	0	42	0
Latvia	0	0	0	0	0	0	0	0	1	0
Other Europe									8209	
Europe	**24573**	**101765**	**9633**	**583672**	**46094**	**25487**	**99683**	**9771**	**605398**	**48530**

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Table-10.5: Production of Coal and Coke by Major Coal Producing Countries during 2011 & 2012

(Quantity in Thousand Tonnes)

Country	2012					2011				
	Coking Coal	Other Bit. & Anthracite	Sub-Bit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke	Coking Coal	Other Bit. & Anthracite	Sub-Bit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Russian Federation	74599	201486	0	77855	0	65362	179949	0	77783	36112
Kazakhstan	12926	107574	0	5524	0	12416	95666	0	8368	2663
Ukraine	17764	46868	0	0	0	19809	42852	0	530	19595
Uzbekistan	0	232	0	3804	0	0	60	0	3784	0
Kyrgyzstan	0	168	0	998	0	0	112	0	678	0
Tajikistan	0	200	0	0	0	0	206	30	0	0
Georgia	0	0	254	0	0	0	0	140	0	0
Ertswhile Soviet Union	**105289**	**356528**	**254**	**88181**	**0**	**97587**	**318845**	**170**	**91143**	**58370**
South Africa	845	258457	0	0	0	1639	251118	0	0	2144
Zimbabwe	386	2610	0	0	0	386	2813	0	0	275
Islamic Republic of Iran	1076	100	0	0	0	936	100	0	0	686
Botswana	0	740	0	0	0	0	788	0	0	0
Israel	0	0	0	400	0	0	0	0	416	0
Democratic Republic of	0	132	0	0	0	0	143	0	0	0
United Republic of Tanzania	0	96	0	0	0	0	45	0	0	0
Mozambique	2689	1079	0	0	0	275	373	0	0	0
Nigeria	0	32	0	0	0	0	32	0	0	0
Egypt	0	0	0	0	0	0	0	0	0	1773
Zambia	0	0	0	0	0	0	0	0	0	0
Other Africa	0	800	0	954	0	0	818	0	14	0
Africa & Middle East	**4996**	**264046**	**0**	**1354**	**0**	**3236**	**256230**	**0**	**430**	**4878**
People's Republic of China	510447	2895048	0	0	0	509493	2770978	0	0	407270
India	47224	498632	0	43491	0	44328	488290	0	42332	20976
Australia	146944	160329	39926	73538	2807	146712	142781	41744	71000	3212
Indonesia	2826	179633	260349	0	0	2826	188646	168864	0	0
Vietnam	0	42096	0	0	0	0	44493	0	0	0
Japan	0	0	0	0	39842	0	0	0	0	39008
DPR of Korea	0	32379	6795	0	0	0	32286	6795	0	0
Mongolia	20868	2758	0	9984	0	21077	2573	0	8308	74
Thailand	0	0	0	18326	0	0	0	0	21327	0
Korea	0	2092	0	0	15150	0	2084	0	0	15349
Philippines	0	0	8000	0	0	0	0	6881	0	0
New Zealand	2075	199	2328	326	486	2120	211	2294	320	478
Pakistan	0	1924	0	1167	0	0	2355	0	1258	193
Malaysia	0	3061	0	0	0	0	2916	0	0	0
Myanmar	0	1128	0	0	0	0	646	0	47	0
Bangladesh	0	1000	0	0	0	0	900	0	0	0
Nepal	0	16	0	0	0	0	17	0	0	0
Chinese Taipei	0	0	0	0	0	0	0	0	0	5446
Other Asia	0	1100	0	396	0	0	1339	0	537	0
Asia Pacific	**730384**	**3821395**	**317398**	**147228**	**58285**	**726556**	**3680515**	**226578**	**145129**	**492006**
World	**983776**	**4994898**	**777078**	**904580**	**125942**	**970007**	**4841390**	**717451**	**927541**	**636107**

Source: International Energy Agercy (IEA)

Table-10.6: Import of Coal and Coke by Major Coal Importing Countries during 2011 & 2012

(Quantity in Thousand Tonnes)

Country	2012					2011				
	Coking Coal	Other Bit. & Anthracite	Sub-Bit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke	Coking Coal	Other Bit. & Anthracite	Sub-Bit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
United States of America	1015	6908	254	133	1029	1446	9903	395	129	1286
Canada	4382	4481	943	11	340	3770	4372	1323	7	403
Mexico	731	0	6706	3	391	1603	0	5979	3	336
N. America	**6128**	**11389**	**7903**	**147**	**1760**	**6819**	**14275**	**7697**	**139**	**2025**
Brazil	10852	7305	0	0	0	11701	5928	378	0	2142
Chile	685	8455	999	0	0	602	9063	0	0	33
Argentina	630	846	0	0	0	686	969	0	0	0
Dominican Republic	0	476	0	0	0	0	882	0	0	106
Peru	0	564	0	0	0	0	620	0	0	14
Guatemala	0	666	0	0	0	0	469	0	0	0
Jamaica	0	123	0	0	0	0	56	0	0	0
Honduras	0	50	0	0	0	0	161	0	0	75
Cuba	0	0	0	0	0	0	37	0	0	11
Uruguay	0	0	0	0	0	0	2	0	0	0
Costa Rica	0	0	0	0	0	0	9	0	0	87
Panama	0	312	0	0	0	0	237	0	0	79
C & S America	**12167**	**18797**	**999**	**0**	**0**	**12989**	**18433**	**378**	**0**	**2547**
Germany	9256	35939	0	0	3254	8778	39067	0	0	3405
United Kingdom	4835	39962	0	0	192	5908	26620	0	0	26
Turkey	7577	21063	42	0	186	6793	16885	0	0	309
Italy	4571	19567	205	5	1	5606	17655	205	5	33
Spain	2260	20154	0	0	168	2505	13663	0	0	165
France	4744	11112	0	76	931	3799	10628	0	82	1209
Netherlands	0	0	0	0	1883	4343	20113	0	18	159
Poland	1516	8116	0	110	138	2266	12689	0	76	147
Finland	1169	2785	0	80	320	1269	5701	0	106	444
Belgium	2600	1904	0	300	355	2704	2488	0	291	149
Denmark	0	3906	0	0	20	0	6133	0	0	21
Slovak Republic	2636	1299	0	692	194	2493	1479	0	602	468
Austria	1786	1779	75	1	1342	1742	1340	73	56	1324
Portugal	0	5176	0	0	1	0	3753	0	0	3
Sweden	1016	1265	0	364	92	1616	1460	0	360	214
Bulgaria	0	2261	0	0	0	0	3300	0	0	62
Czech Republic	1060	791	0	350	431	1181	1129	0	76	566
Ireland	0	2199	0	25	0	0	2289	0	22	0
Hungary	1471	52	299	0	7	1430	130	317	0	9
Romania	746	137	538	3	0	152	148	690	42	802
Bosnia and Herzegovina	1172	0	2	0	0	1388	0	29	0	18
Croatia	0	1306	0	4	0	0	1104	0	76	27
Norway	0	764	0	0	469	0	711	0	0	455
Serbia	0	60	0	600	0	0	186	0	635	640
Slovenia	0	24	465	149	30	0	24	418	85	31
Greece	0	103	0	137	0	0	395	0	111	0
Lithuania	0	320	0	1	0	0	356	38	2	18
Latvia	0	392	0	0	0	0	250	0	0	0
Switzerland	0	141	0	53	21	0	99	0	72	20
Republic of Moldova	0	155	0	0	0	0	207	0	0	0
Albania	0	0	0	34	0	0	0	0	298	0
Belarus	0	120	0	0	0	0	116	0	0	83
Republic of Macedonia	0	0	119	31		0	0	119	31	0
Others Europe	0	281	0	8	44	0	307	0	45	24
Europe	**48415**	**183133**	**1745**	**3023**	**10079**	**53973**	**190425**	**1889**	**3091**	**10831**

Contd……

Table-10.6: Import of Coal and Coke by Major Coal Importing Countries during 2011 & 2012

(Quantity in Thousand Tonnes)

Country	2012					2011				
	Coking Coal	Other Bit. & Anthracite	Sub-Bit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke	Coking Coal	Other Bit. & Anthracite	Sub-Bit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Russian Federation	0	31371	0	10	0	2485	354	0	2066	160
Ukraine	9558	4045	0	0	0	9909	2800	0	24	157
Kyrgyzstan	0	1000	0	0	0	0	965	0	59	0
Kazakhstan	0	0	0	0	0	0	152	0	3	0
Uzbekistan	0	0	0	100	0	0	0	0	100	0
Georgia	0	8	0	0	0	0	7	0	0	0
Tajikistan	0	0	0	0	0	2	10	0	0	1
Ertswhile Soviet Union	**9558**	**36424**	**0**	**110**	**0**	**12396**	**4288**	**0**	**2252**	**318**
Israel	0	14500	168	0	0	0	12310	165	0	0
Morocco	0	4577	0	0	0	0	4134	0	0	0
United Arab Emirates	0	2750	0	0	0	0	2029	0	0	0
Egypt	2191	0	0	0	0	2097	0	0	0	61
South Africa	2067	158	0	0	0	2390	0	0	0	0
Senegal	0	403	0	0	0	0	271	0	0	0
Lebanon	0	313	0	0	0	0	250	0	0	0
Namibia	0	12	0	0	0	0	13	0	0	0
Zimbabwe	0	0	0	0	0	0	49	0	0	0
Islamic Republic of Iran	0	0	0	0	0	12	0	0	0	1306
Kenya	0	480	0	0	0	0	380	0	0	0
Algeria	0	0	0	0	0	0	0	0	0	438
Botswana	0	0	0	0	0	0	3	0	0	0
Other Africa	0	2121	0	0	0	0	1596	0	0	0
Africa & Middle East	**4258**	**25314**	**168**	**0**	**0**	**4499**	**21035**	**165**	**0**	**1805**
People's Republic of China	70644	218143	0	0	0	44654	137322	0	0	116
Japan	52199	131572	0	0	0	53817	120324	0	0	679
Korea	31256	91445	2834	0	368	32234	92701	4215	0	406
India	36577	49220	73822	0	0	33943	47145	51033	0	2365
Chinese Taipei	8412	47346	8772	0	0	6036	47608	12945	0	103
Malaysia	0	22001	0	0	0	0	21881	0	0	0
Thailand	0	16797	0	0	0	0	19519	0	0	108
Hong Kong (China)	0	12599	0	0	0	0	12529	0	0	0
Philippines	0	6071	5991	0	0	0	7691	3272	0	246
Pakistan	220	3051	0	0	0	275	3782	0	0	0
Vietnam	0	1295	0	0	0	0	978	0	3	142
Bangladesh	0	1000	0	0	0	0	924	0	0	0
Nepal	0	480	0	0	0	0	467	0	0	0
Sri Lanka	0	962	0	0	0	0	760	0	0	0
DPR of Korea	0	1089	0	0	0	0	0	0	0	200
New Zealand	1	0	0	0	0	3	31	138	0	0
Australia	1786	1779	75	1	1342	0	0	0	0	55
Indonesia	0	0	0	0	0	42	0	0	0	0
Cambodia	0	0	0	0	0	0	0	19	0	0
Syrian Arab Republic	0	0	0	0	0	0	0	0	0	9
Other Asia	2312	6947	106	0	0	0	642	0	0	0
Asia Pacific	**203407**	**611797**	**91600**	**1**	**1710**	**171004**	**514304**	**71622**	**3**	**4429**
World	**283933**	**886854**	**102415**	**3281**	**13549**	**261680**	**762760**	**81751**	**5485**	**21955**

Source: International Energy Agency (IEA)

Table 10.7 : Export of Coal and Coke by Major Exporting Countries during 2011 & 2012

(Quantity in Thousand Tonnes)

Country	2012					2011				
	Coking Coal	Other Bit. & Anthracite	Sub-Bit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke	Coking Coal	Other Bit. & Anthracite	Sub-Bit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
United States of America	63392	42494	8135	52	882	63078	28172	5885	168	880
Canada	30725	3923	48	110	420	27666	5886	47	129	353
Mexico	216	0	0	0	0	9	0	0	0	0
N.America	**94333**	**46417**	**8183**	**162**	**1302**	**90753**	**34058**	**5932**	**297**	**1233**
Colombia	0	0	0	0	0	1421	77852	0	0	1511
Costa Rica	518	81654	0	0	0					
Venezuela	0	2836	0	0	0	0	1819	0	0	0
Peru	0	25	0	0	0	0	174	0	0	0
Argentina	1	34	0	0	0	0	29	0	0	53
C & S America	**519**	**84549**	**0**	**0**	**0**	**1421**	**79874**	**0**	**0**	**1564**
Poland	1587	5402	0	134	6361	1670	5337	0	145	6492
Czech Republic	2946	2185	0	993	465	2972	3307	0	1144	524
Netherlands	146	569	0	0	92	123	12485	0	3	42
Spain	0	1861	0	0	461	15	1175	0	0	374
Norway	0	1273	0	0	0	0	1504	0	0	0
United Kingdom	14	466	0	0	520	3	488	0	0	467
Belgium	0	105	0	8	735	27	640	0	0	364
Germany	6	102	0	276	218	11	193	0	5	177
Hungary	0	0	4	71	309	0	0	6	1	303
Bosnia and Herzegovina	0	0	0	0	0	2	0	380	107	442
Italy	0	58	0	0	254	0	3	0	0	273
Slovak Republic	0	0	0	0	61	0	0	0	0	176
Portugal	0	141	0	0	0	0	158	0	0	0
France	152	25	0	0	72	46	15	0	0	86
Bulgaria	0	116	0	13	0	0	39	0	86	0
New Zealand	2210	0	0	0	0	2112	37	9	0	0
Estonia	0	0	0	0	23	0	0	0	23	25
Finland	0	0	0	0	46	0	0	0	5	6
Sweden	0	1	0	0	22	0	1	0	0	25
Ireland	0	12	0	0	0	0	9	0	1	0
Austria	0	2	0	0	6	0	1	0	6	0
Slovenia	0	1	0	0	0	0	2	0	0	0
Romania	0	2	0	0	0	36	0	0	3	0
Croatia	0	116	0	0	0	0	0	0	0	1
Latvia	0	7	0	0	0	0	7	0	5	0
Lithuania	0	80	0	34	0	0	18	6	99	0
Others Europ	0	221	0	34	97	36	38	6	142	57
Europe	**7061**	**12524**	**4**	**1529**	**9645**	**7017**	**25419**	**401**	**1633**	**9777**

Contd.....

Table 10.7 : Export of Coal and Coke by Major Exporting Countries during 2011 & 2012

(Quantity in Thousand Tonnes)

Country	2012					2011				
	Coking Coal	Other Bit. & Anthracite	Sub-Bit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke	Coking Coal	Other Bit. & Anthracite	Sub-Bit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Russian Federation	18251	115928	0	22	0	14182	109581	0	920	2530
Kazakhstan	301	31307	0	285	0	301	29763	0	286	20
Ukraine	192	5251	0	0	0	286	6705	0	113	1987
Kyrgyzstan	0	0	0	0	0	0	0	0	38	0
Ertswhile Soviet Union	**18744**	**152486**	**0**	**307**	**0**	**14769**	**146049**	**0**	**1357**	**4537**
South Africa	746	73603	0	0	0	456	68351	0	0	0
Islamic Republic of Iran	0	0	0	0	0	299	9	0	0	3
Mozambique	0	0	0	0	0	275	306	0	0	0
Egypt	0	0	0	0	0	0	0	0	0	616
Zimbabwe	0	0	0	0	0	0	0	0	0	190
Syrian Arab Republic	0	0	0	0	0	0	0	0	0	5
Other Africa	0	0	0	0	0	0	521	0	0	0
Africa & Middle East	**746**	**73603**	**0**	**0**	**0**	**1030**	**69187**	**0**	**0**	**814**
Indonesia	2826	178609	201151	0	0	2826	187637	110199	0	0
Australia	142363	159152	0	0	0	140455	144081	0	0	0
Vietnam	0	19074	0	0	0	0	17743	0	0	129
Mongolia	19059	2758		246		20963	2573	0	152	0
People's Republic of China	1723	8752	0	0	0	3594	18098	0	0	3297
Philippines	0	13	0	0	0	0	0	2736	0	0
India	0	1480	0	0	0	97	1917	0	0	613
DPR of Korea	0	12011	0	0	0	0	11178	0	0	0
Japan	0	3	0	0	1476	0	2	0	0	979
Malaysia	0	429	0	0	0	0	224	0	0	0
Namibia	2689	406								
Chinese Taipei	0	0	0	0	0	0	0	0	0	100
Singapore	0	13	1042							
Other Asia	71	0	19	285	0	0	149	0	465	0
Asia Pacific	**168731**	**382700**	**202212**	**531**	**1476**	**167935**	**383602**	**112935**	**617**	**5118**
World	**290134**	**752279**	**210399**	**2529**	**12423**	**282925**	**738189**	**119268**	**3904**	**23043**

Source: International Energy Agercy (IEA)

Section XI

Mine Statistics

11.1 Mine statistics in terms of number and distribution of mines has been drawing attention of policy makers in the country. This section, therefore, deals with this aspect in detail. The information has been provided in tabular form in nine tables to describe Number of Mines-Company-wise (Table11.1), Number of Mines-State-wise (Table11.2), Number of Mines-Sector-wise (Table11.3), Number of Mines-Captive/Non Captive (Table11.4), Number of Mines-Public/ Private, Captive/Non Captive (Table11.5), Number of Working Coal Mines (Table11.6), Number of working Lignite Mines (Table11.7), Number of Mines - State-wise, Public/private, Captive/Non captive (Table11.8), and Number of Lignite Mines- State-wise, Public/private, Captive/Non captive (Table11.9) as on 31/03/2013.

11.2 It is observed that the number and distribution of coal and lignite mines have remained more or less static over the previous year. As on 31.03.2013, the total number of operating coal mines was reported to be 559. The state-wise distribution of these coal mines is given in statement 11.1.

Statement 11.1: state-wise distribution of coal mines as on 31.03.2013

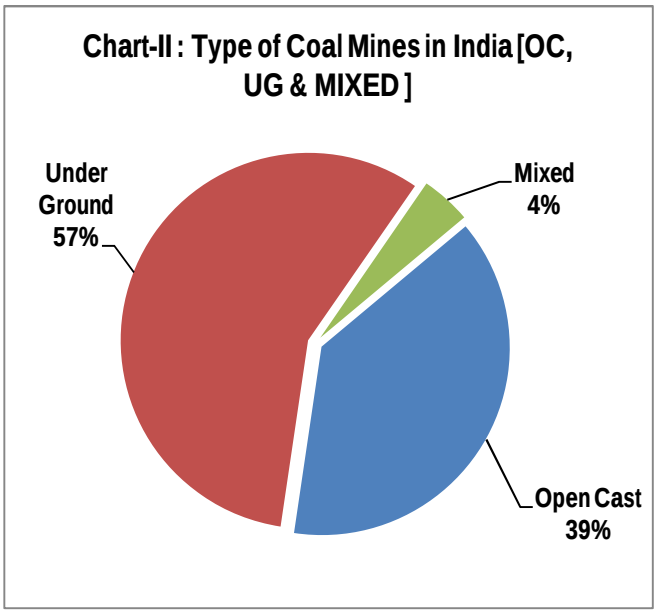
State	No. of coal mines		
	Captive	Non-Captive	Total
Andhra Pradesh	0	50	50
Arunachal Pradesh	0	1	1
Assam	0	6	6
Chhattisgarh	7	53	60
Jammu & Kashmir	0	4	4
Jharkhand	17	159	176
Madhya Pradesh	2	69	71
Maharashtra	4	54	58
Meghalaya	0	0	0
Orissa	1	27	28
Uttar Pradesh	0	4	4
West Bengal	8	93	101
All India	**39**	**520**	**559**

11.3 As on 31.03.2013, the total number of operating lignite mines was reported to be 16. The state-wise distribution of these lignite mines is given in statement 11.2.

Statement 11.2: state-wise distribution of lignite mines as on 31.03.2013

State	No. of coal mines		
	Captive	Non-Captive	Total
Gujarat	2	5	7
Rajasthan	2	4	6
Tamil Nadu	3		3
All India	**7**	**9**	**16**

11.3 Depending on the situation, mine operation can be open cast, underground or mixed one. In India, the distribution of operating coal mines under different mining system is highlighted through the following chart.



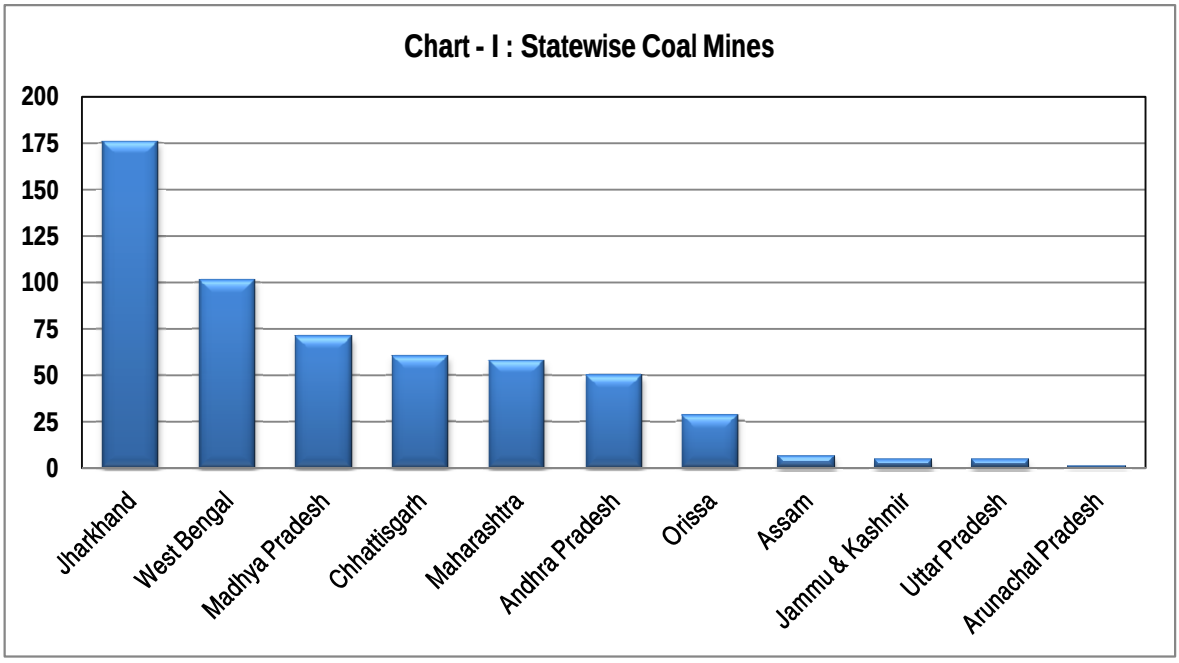


Chart - I : Statewise Coal Mines
200
175
150
125
100
75
50
25
0
Jharkhand
West Bengal
Madhya Pradesh
Chhattisgarh
Maharashtra
Andhra Pradesh
Orissa
Assam
Jammu & Kashmir
Uttar Pradesh
Arunachal Pradesh

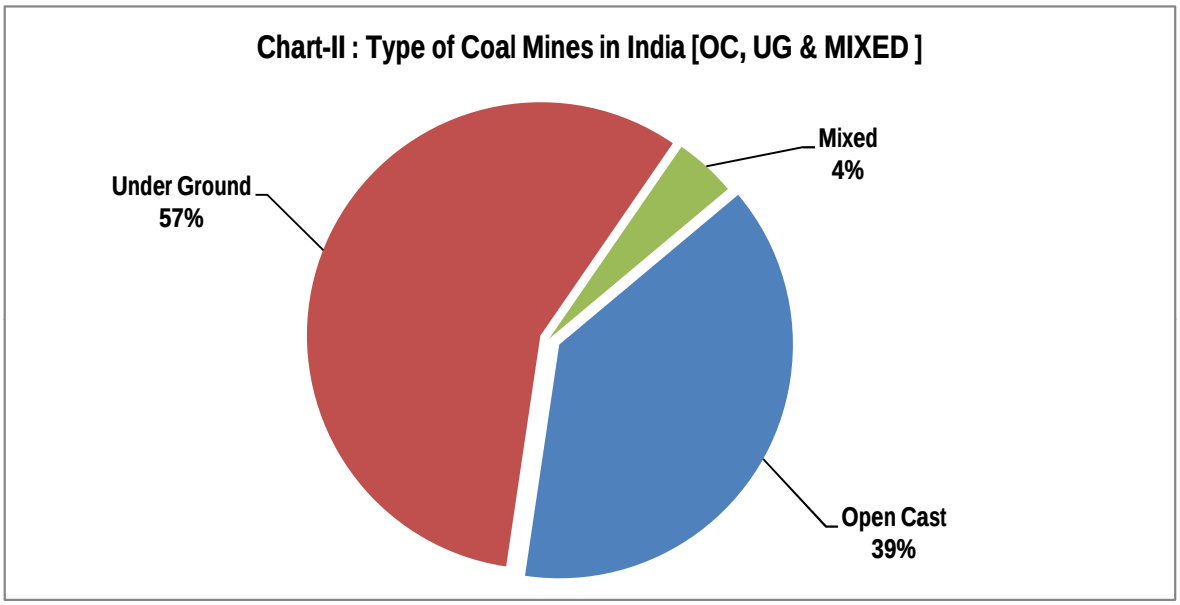


Chart-II : Type of Coal Mines in India [OC, UG & MIXED]
Under Ground
57%
Mixed
4%
Open Cast
39%

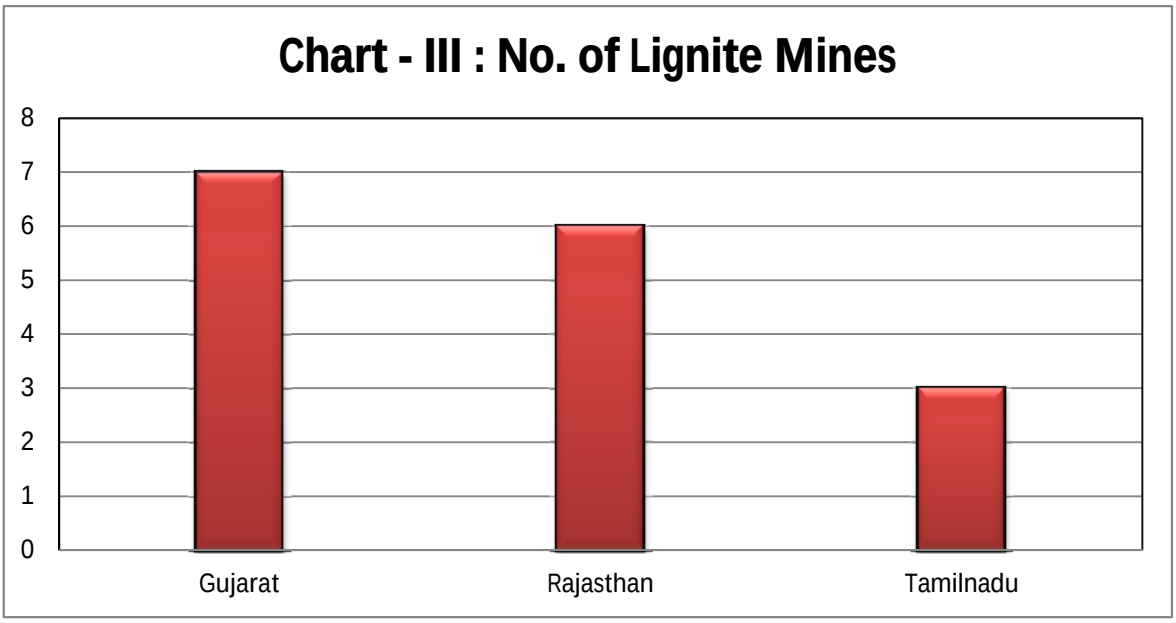


Chart - III : No. of Lignite Mines
8
7
6
5
4
3
2
1
0
Gujarat
Rajasthan
Tamilnadu

Table 11.1: Number of Coal & Lignite Mines -Companywise as on 31/03/2013

Coal / Lignite	Company	Number of Mines			
		OC	UG	Mixed	**Total**
(1)	(2)	(3)	(4)	(5)	**(6)**
Coal	ECL	17	87	1	**105**
	BCCL	19	40	20	**79**
	CCL	42	25	0	**67**
	NCL	10	0	0	**10**
	WCL	39	42	1	**82**
	SECL	23	64	1	**88**
	MCL	16	11	0	**27**
	NEC	3	3	0	**6**
	CIL	**169**	**272**	**23**	**464**
	SCCL	15	35	0	**50**
	JSMDCL	1	0	0	**1**
	DVC	1	0	0	**1**
	DVC EMTA	1	0	0	**1**
	IISCO	1	2	1	**4**
	JKML	0	4	0	**4**
	APMDTCL	1	0	0	**1**
	WBPDCL	1	0	0	**1**
	SAIL	1	0	0	**1**
	RRUVNL	1	0	0	**1**
	WBMDTCL	1	0	0	**1**
	PUBLIC	**193**	**313**	**24**	**530**
	BECML	1	0	0	**1**
	ICML	1	0	0	**1**
	JSPL	1	0	0	**1**
	HIL	1	0	0	**1**
	TISCO	3	5	0	**8**
	MIL	0	1	0	**1**
	BLA	1	0	0	**1**
	CML	1	0	0	**1**
	PANEM	1	0	0	**1**
	PIL	1	0	0	**1**
	JNL	1	0	0	**1**
	JPL	1	0	0	**1**
	SIL	0	1	0	**1**
	UML	1	0	0	**1**
	KEMTA	1	0	0	**1**
	ESCL	1	0	0	**1**
	SEML	1	0	0	**1**
	BSISPAT	1	0	0	**1**
	TUML	1	0	0	**1**
	SPL	1	0	0	**1**
	SOVA	1	0	0	**1**
	GVK	1	0	0	**1**
	PRIVATE	**22**	**7**	**0**	**29**
	Total	**215**	**320**	**24**	**559**
Lignite	NLC	4			**4**
	GMDCL	5			**5**
	GIPCL	1			**1**
	GHCL	1			**1**
	RSMDCL	3			**3**
	VSLPPL	1			**1**
	BLMCL	1			**1**
	Total	**16**			**16**

Table 11.2: Numberof Coal & Lignite Mines -Statewise as on 31.03.2011

Coal / Lignite	States	Number of Mines			
		OC	UG	Mixed	**Total**
(1)	(2)	(3)	(4)	(5)	**(6)**
Coal	Andhra Pradesh	15	35	0	**50**
	Arunachal Pradesh	1	0	0	**1**
	Assam	3	3	0	**6**
	Chhattisgarh	22	37	1	**60**
	J & K	0	4	0	**4**
	Jharkhand	76	79	21	**176**
	Madhya Pradesh	22	48	1	**71**
	Maharashtra	35	23	0	**58**
	Orissa	17	11	0	**28**
	Uttar Pradesh	4	0	0	**4**
	West Bengal	20	80	1	**101**
	Meghalaya	0	0	0	**0**
	All India	**215**	**320**	**24**	**559**
Lignite	Gujarat	7			**7**
	Tamilnadu	3			**3**
	Rajasthan	6			**6**
	All India	**16**			**16**

Coal Mines in the state of Meghalaya operated in private sector are not accounted here.

Table 11.3: Numberof Mines -Sectorwise as on 31/03/2013

Type	Sector	Number of Mines			
		OC	UG	Mixed	**Total**
(1)	(2)	(3)	(4)	(5)	**(6)**
COAL :	Public	193	313	24	**530**
	Private	22	7	0	**29**
	Total	**215**	**320**	**24**	**559**
LIGNITE :	Public	15			**15**
	Private	1			**1**
	Total	**16**			**16**

Table 11.4: Number of Mines -Captive/Non Captive as on 31/03/2013

Type	Sector	Number of Mines			
		OC	UG	Mixed	**Total**
(1)	(2)	(3)	(4)	(5)	**(6)**
COAL :	Captive	29	9	1	**39**
	Non Captive	186	311	23	**520**
	Total	**215**	**320**	**24**	**559**
LIGNITE :	Captive	7			**7**
	Non Captive	9			**9**
	Total	**16**			**16**

Table 11.5: Number of Mines -Public/Private, Captive/Non Captive as on 31/03/2013

Type	Sector	No. of Collieries			
		OC	UG	Mixed	**Total**
(1)	(2)	(3)	(4)	(5)	**(6)**
COAL :	Public Captive	7	2	1	**10**
	Public Non-Captive	186	311	23	**520**
	Private Captive	22	7	0	**29**
	Private Non-Captive	0	0	0	**0**
	Total	**215**	**320**	**24**	**559**
LIGNITE :	Public Captive	6			**6**
	Public Non-Captive	9			**9**
	Private Captive	1			**1**
	Private Non-Captive	0			**0**
	Total	**16**			**16**

Table 11.6: Number of Working Coal Mines as on 31/03/2013 (including non-producing but not yet closed and under construction mines)

Company	Andhra Pradesh			Arunachal Pradesh			Assam			Chhattisgarh				J & K			Jharkhand				Madhya Pradesh			
	OC	UG	TOTAL	OC	UG	TOTAL	OC	UG	TOTAL	OC	UG	Mixed	TOTAL	OC	UG	TOTAL	OC	UG	Mixed	TOTAL	OC	UG	Mixed	TOTAL
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)
ECL			0						0				0			0	5	10		15				0
BCCL			0						0				0			0	18	38	20	76				0
CCL			0						0				0			0	42	25		67				0
NCL			0						0				0			0				0	6			6
WCL			0						0							0				0	7	20	1	28
SECL			0						0	16	36	1	53			0				0	7	28		35
MCL			0						0				0			0				0				0
NEC			0				3	3	6				0			0				0				0
CIL	**0**	**0**	**0**				**3**	**3**	**6**	**16**	**36**	**1**	**53**	**0**	**0**	**0**	**65**	**73**	**20**	**158**	**20**	**48**	**1**	**69**
SCCL	15	35	50			0			0				0			0				0				0
JSMDCL			0			0			0				0			0	1			1				0
DVC			0			0			0				0			0	1			1				0
DVC EMTA			0			0			0				0			0	0			0				0
IISCO			0			0			0				0			0		1	1	2				0
JKML			0			0			0				0		4	4				0				0
APMDTCL			0	1		1			0				0			0				0				0
WBPDCL			0			0			0				0			0				0				0
SAIL			0			0			0				0			0	1			1				0
RRUVNL			0			0			0	1			1			0				0				0
WBMDTCL			0			0			0				0			0				0				0
BECML			0			0			0				0			0				0				0
ICML			0			0			0				0			0				0				0
JSPL			0			0			0	1			1			0				0				0
HIL			0			0			0				0			0				0				0
TISCO			0			0			0				0			0	3	5		8				0
MIL			0			0			0		1		1			0				0				0
BLA			0			0			0				0			0				0	1			1
CML			0			0			0				0			0	1			1				0
PANEM			0			0			0				0			0	1			1				0
PIL			0			0			0	1			1			0				0				0
JNL			0			0			0	1			1			0				0				0
JPL			0			0			0	1			1			0				0				0
SIL			0			0			0				0			0				0				0
UML			0			0			0				0			0	1			1				0
KEMTA			0			0			0				0			0				0				0
ESCL			0			0			0				0			0	1			1				0
SEML			0			0			0	1			1			0				0				0
BSISPAT			0			0			0				0			0	0			0				0
TUML			0			0			0				0			0	0			0				0
SPL			0			0			0				0			0				0	1			1
SOVA			0			0			0				0			0				0				0
GVK			0			0			0				0			0	1			1				0
Total	**15**	**35**	**50**	**1**	**0**	**1**	**3**	**3**	**6**	**22**	**37**	**1**	**60**	**0**	**4**	**4**	**76**	**79**	**21**	**176**	**22**	**48**	**1**	**71**

Contd…

Table 11.6: Number of Working Coal Mines as on 31/03/2013 (including non-producing but not closed yet and under construction mines)

Company	Maharashtra				Orissa			UP		West Bengal				Meghalaya		All India			
	OC	UG	Mixed	TOTAL	OC	UG	TOTAL	OC	TOTAL	OC	UG	Mixed	TOTAL	UG	TOTAL	**OC**	**UG**	**Mixed**	**TOTAL**
(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)
ECL				0			0		0	12	77	1	90		0	**17**	**87**	**1**	**105**
BCCL				0			0		0	1	2		3		0	**19**	**40**	**20**	**79**
CCL				0			0		0				0		0	**42**	**25**	**0**	**67**
NCL				0			0	4	4				0		0	**10**	**0**	**0**	**10**
WCL	32	22		54			0		0				0		0	**39**	**42**	**1**	**82**
SECL				0			0		0				0		0	**23**	**64**	**1**	**88**
MCL				0	16	11	27		0				0		0	**16**	**11**	**0**	**27**
NEC				0			0		0				0		0	**3**	**3**	**0**	**6**
CIL	**32**	**22**	**0**	**54**	**16**	**11**	**27**	**4**	**4**	**13**	**79**	**1**	**93**	**0**	**0**	**169**	**272**	**23**	**464**
SCCL				0			0		0				0		0	**15**	**35**	**0**	**50**
JSMDCL				0			0		0				0		0	**1**	**0**	**0**	**1**
DVC				0			0		0				0		0	**1**	**0**	**0**	**1**
DVC EMTA				0			0		0	1			1		0	**1**	**0**	**0**	**1**
IISCO				0			0		0	1	1		2		0	**1**	**2**	**1**	**4**
JKML				0			0		0				0		0	**0**	**4**	**0**	**4**
APMDCL				0			0		0				0		0	**1**	**0**	**0**	**1**
WBPDCL				0			0		0	1			1		0	**1**	**0**	**0**	**1**
SAIL				0			0		0				0		0	**1**	**0**	**0**	**1**
RRUVNL				0			0		0				0		0	**1**	**0**	**0**	**1**
WBMDTCL				0			0		0	1			1		0	**1**	**0**	**0**	**1**
BECML				0			0		0	1			1		0	**1**	**0**	**0**	**1**
ICML				0			0		0	1			1		0	**1**	**0**	**0**	**1**
JSPL				0			0		0				0		0	**1**	**0**	**0**	**1**
HIL				0	1		1		0				0		0	**1**	**0**	**0**	**1**
TSL				0			0		0				0		0	**3**	**5**	**0**	**8**
MIL				0			0		0				0		0	**0**	**1**	**0**	**1**
BLA				0			0		0				0		0	**1**	**0**	**0**	**1**
CML				0			0		0				0		0	**1**	**0**	**0**	**1**
PANEM				0			0		0				0		0	**1**	**0**	**0**	**1**
PIL				0			0		0				0		0	**1**	**0**	**0**	**1**
JNL				0			0		0				0		0	**1**	**0**	**0**	**1**
JPL				0			0		0				0		0	**1**	**0**	**0**	**1**
SIL		1		1			0		0				0		0	**0**	**1**	**0**	**1**
UML				0			0		0				0		0	**1**	**0**	**0**	**1**
KEMTA	1			1			0		0				0		0	**1**	**0**	**0**	**1**
ESCL				0			0		0				0		0	**1**	**0**	**0**	**1**
SEML				0			0		0				0		0	**1**	**0**	**0**	**1**
BSISPAT	1			1			0		0				0		0	**1**	**0**	**0**	**1**
TUML	1			1			0		0				0		0	**1**	**0**	**0**	**1**
SPL				0			0		0				0		0	**1**	**0**	**0**	**1**
SOVA				0			0		0	1			1		0	**1**	**0**	**0**	**1**
GVK				0			0		0				0		0	**1**	**0**	**0**	**1**
Total	**35**	**23**	**0**	**58**	**17**	**11**	**28**	**4**	**4**	**20**	**80**	**1**	**101**	**0**	**0**	**215**	**320**	**24**	**559**

Table 11.7: Number of Working Lignite Mines as on 31/03/2013

Company	Captive / Non-Captive	Public / Private	GUJARAT			TAMILNADU			RAJASTHAN			**All India**		
			OC	UG	TOTAL	OC	UG	TOTAL	OC	UG	TOTAL	**OC**	**UG**	**TOTAL**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
NLC	Captive	Public			0	3		3	1		1	**4**		**4**
GMDCL	Non-Captive	Public	5		5			0			0	**5**		**5**
GIPCL	Captive	Public	1		1			0			0	**1**		**1**
GHCL	Captive	Private	1		1			0			0	**1**		**1**
RSMML	Non-Captive	Public			0			0	3		3	**3**		**3**
VSLPPL	Non-Captive	Public			0			0	1		1	**1**		**1**
BLMCL	Captive	Public							1		1	**1**		**1**
TOTAL			**7**	**0**	**7**	**3**	**0**	**3**	**6**	**0**	**6**	**16**	**0**	**16**

TABLE 11.8: NO. OF COAL MINES CAPTIVE, NON-CAPTIVE, PUBLIC AND PRIVATE AS WELL AS STATE-WISE BREAKUP as on 31/03/2013

State	Captive	Non-Captive	**Total**	Public	Private	**Total**
Andhra Pradesh	0	50	**50**	50	0	**50**
Arunachal Pradesh	0	1	**1**	1	0	**1**
Assam	0	6	**6**	6	0	**6**
Chhattisgarh	7	53	**60**	54	6	**60**
Jammu & Kashmir	0	4	**4**	4	0	**4**
Jharkhand	17	159	**176**	163	13	**176**
Madhya Pradesh	2	69	**71**	69	2	**71**
Maharashtra	4	54	**58**	54	4	**58**
Meghalaya	0	0	**0**	0	0	**0**
Orissa	1	27	**28**	27	1	**28**
Uttar Pradesh	0	4	**4**	4	0	**4**
West Bengal	8	93	**101**	98	3	**101**
All India	**39**	**520**	**559**	**530**	**29**	**559**

TABLE 11.9: NO. OF LIGNITE MINES CAPTIVE, NON-CAPTIVE, PUBLIC AND PRIVATE AS WELL AS STATE-WISE BREAK UP FOR 2010-11

State	Captive	Non-Captive	**Total**	Public	Private	**Total**
Gujarat	2	5	**7**	6	1	**7**
Rajasthan	2	4	**6**	6		**6**
Tamilnadu	3		**3**	3		**3**
All India	**7**	**9**	**16**	**15**	**1**	**16**

Annexure-I

NOTE ON MEGHALAYA COAL

The Status of Coal Mining in the State of Meghalaya:-

In course of the last few years the state of Meghalaya has emerged as an important coal producer of the country. As reported by the Geological Survey of India, the quantum of coal reserve in Meghalaya as on 01.04.2013 is 576 million tonnes (out of which 89 million tonnes is proved). The quantity of coal produced in the state during previous 18 years are as follows.

(Quantity in Million Tonnes)

Years	**Production**
1995-1996	3.248
1996-1997	3.241
1997-1998	3.234
1998-1999	4.238
1999-2000	4.060
2000-2001	4.065
2001-2002	5.149
2002-2003	4.406
2003-2004	5.439
2004-2005	5.345
2005-2006	5.566
2006-2007	5.787
2007-2008	6.541
2008-2009	5.489
2009-2010	5.767
2010-2011	6.974
2011-2012	7.206
2012-2013	5.640

According to the Mining & Geology Deptt. of the Govt. Of Meghalaya ungraded type of coal is mined from the large number of small scale coal mines of Jaintia Hills, Garo Hills, West Khasi Hills and East Khasi Hills.

Areawise Production of Coal in Meghalaya (Quantity in Million Tonnes)

Years	Jaintia Hills	Garo Hills	West Khasi Hills	East Khasi Hills	**Total**
1998-99	3.246	0.807	0.170	0.015	**4.238**
1999-00	2.936	0.907	0.203	0.014	**4.060**
2000-01	2.840	1.018	0.202	0.005	**4.065**
2001-02	3.955	0.906	0.283	0.005	**5.149**
2002-03	N.A.	N.A.	N.A.	N.A.	**4.406**
2003-04	3.918	1.058	0.463	0	**5.439**
2004-05	3.611	1.101	0.633	0	**5.345**
2005-06	3.880	1.121	0.565	0	**5.566**
2006-07	3.046	1.175	0.566	0	**5.787**
2007-08	4.360	1.370	0.811	0	**6.541**
2008-09	2.891	1.004	1.594	0	**5.489**
2009-10	3.722	1.562	0.483	0	**5.767**
2010-11	4.743	1.940	0.291	0	**6.974**
2011-12	4.622	2.108	0.476	0	**7.206**
2012-13	2.870	2.380	0.390	0	**5.640**

These mines are in unorganised sector (Private non-captive) and are mostly operated by the local tribal in their private lands.

Meghalaya coal is despatched by road as there is no rail link in the state. Coal extracted from this state is primarily despatched to the other North Eastern states and different Northern non-coal-producing states like Haryana, Himachal Pradesh, Punjab, Rajasthan etc. Besides, it is also exported to the neighboring countries, particularly to Bangladesh.

The availability of data on coal from the State of Meghalaya:-

The Directorate of Mineral Resources, Government of Meghalaya, collects production and despatch data on coal. The figures relating to despatch of coal are compiled by the Directorate from the monthly returns furnished by the different check gates. Since there is no other source of production data and small miners are expected to sell off their produce as soon as it is mined, production is assumed to be same as despatch.

Monthly Production /Despatch of Meghalaya coal during 2012-13

(Quantity in Million Tonnes)

Month	**Production**
April'12	0.520
May'12	0.580
June'12	0.390
July'12	0.210
August'12	0.210
September'12	0.140
October'12	0.310
November'12	0.530
December'12	0.700
January'13	0.720
February'13	0.520
March'13	0.810
Total	5.640

ABBREVIATIONS

O.C.	OPENCAST
U.G.	UNDERGROUND
ECL	Eastern Coalfields Limited (Coal India Ltd. Subsidiary) -Public - Non Captive
BCCL	Bharat Coking Coal Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
CCL	Central Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
NCL	Northern Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
WCL	Western Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
SECL	South Eastern Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
MCL	Mahanadi Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
NEC	North Eastern Coalfields (Coal India Ltd. Subsidiary) - Public - Non Captive
SCCL	Singareni Collieries Company Limited - Public - Non Captive
JKML	Jammu & Kashmir Minerals Limited - Public - Non Captive
JSMDCL	Jharkhand State Mineral Development Corporation Limited - Public - Non Captive
DVC	Damodar Valley Corporation - Public - Captive
DVC EMTA	D. V. C. Emta Coal Mines Limited - Public - Captive
IISCO	Indian Iron & Steel Company Limited - Public - Captive
SAIL	Steel Authority of India Limited - Public - Captive
APMDTCL	Arunachal Pradesh Mineral Development & Trading Corp. Ltd. - Public - Non Captive
WBPDCL	West Bengal Power Development Corporation Limited - Public - Captive
RRVUNL	Rajasthan Rajya Viddyut Unnayan Nigam Limited - Public - Captive
WBMDTCL	West Bengal Mineral Deveplopment and Trading Corpopration Limited - Public - Captive
ICML	Integrated Coal Mining Limited - Private - Captive
BECML	Bengal Emta Coal Mines Limited - Private - Captive
JSPL	Jindal Steel & Power Limited - Private - Captive
TISCO	Tata Steel Company Limited - Private - Captive
HIL	Hindalco Industries Limited - Private - Captive
CML	Castron Mining Limited - Private - Captive
BLA	BLA Industries Limited - Private - Captive
MIL	Monnet Ispat Lilited - Private - Captive
PANEM	PANEM Coal Mines Limited - Private - Captive
PIL	Prakash Industries Limited - Private - Captive
JNL	Jayswal Neco Limited - Private - Captive
JPL	Jindal Power Open Cast Coal Mine - Private - Captive
SIL	Sunflag Iron & Steel Company Limited - Private - Captive
ESCL	Electro Steel Casting Limited - Private - Captive
UML	Usha Martin Limited - Private - Captive
KECML	Karnataka Emta Coal Mines Limited
SEML	Sarda Energy & Minarals Limited - Private - Captive
BSIL	B. S. Ispat Limited - Private - Captive
TUML	Topworth Urja and Minerals Limited - Private - Captive
SPL	Sasan Power Limted - Private - Captive
SOVA	Sova Ispat Limited - Private - Captive
GVK	GVK Power (Goindwal Sahib) Limited - Private - Captive
NLC	Neyveli Lignite Corporation Limited - Public - Non Captive
GIPCL	Gujarat Industries Power Company Limited - Public - Captive
GMDCL	Gujarat Mineral Development Corporation Limited - Public - Non Captive
GHCL	Gujarat Heavy Chemical Limited - Private - Captive
RSMML	Rajasthan State Mines and Mineral Limited - Public - Non Captive
VS LIGNITE	V. S Lignite Power Limited - Private - Captive
R/P Ratio	Reserve/ Production ratio, calculated at the end of the year indicates the number of years the remaining reserve would last if the production were to continue at that level.