



कोल डाईरेक्टरी ऑफ इंडिया

**COAL DIRECTORY OF INDIA**

**2011-12**

कोयला सांख्यिकी

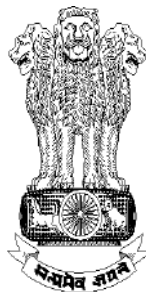
**Coal Statistics**

भारत सरकार  
कोयला मंत्रालय  
कोयला नियंत्रक का कार्यालय  
कोलकाता

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

# **COAL DIRECTORY OF INDIA 2011 – 2012**

**Coal Statistics**



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

# COAL DIRECTORY OF INDIA 2011-12

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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 mitigate the effects of transportation energy shortage that will occur under peak oil.

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, despatches, 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 2011-12 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  
March, 2013



(A. Acharya)  
Coal Controller

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# Section I

## A. Historical Perspective

### 1.1 Coal Sector in Indian

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 backdrop 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 nationalised w.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 nationalised w.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 VIII<sup>th</sup> Five year Plan, the Government decided to allow private participation in the power sector. The Coal Mines (Nationalisation) Act, 1973 was amended on 9<sup>th</sup> 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 31.3.2012, 218 coal blocks were allocated to different companies. Out of these 218 coal blocks, 23 have been ultimately de-allocated for non-performance reducing the effective allocation to 195 as on 31.3.2012.

#### **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 clean 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 carbonisation 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%.

Grade	Ash Content
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
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,

$$\text{Off-take} = \text{Despatches} + \text{Colliery Consumption}$$

### 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.

## **1.13 Commodity 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 2011-12, the total production of raw coal in India increased by 1.4% (from 532.694 MT in 2010-11 to 539.950 MT in 2011-12) whereas the corresponding increase in the production of lignite was 12.2% (from 37.733 MT in 2010-11 to 42.332 MT in 2011-12).
2. The contribution of public sector and private sector in the production(MT) of Raw Coal in 2011-12 was as follows:

Sector	Year 2011-2012		
	Coking	Non-Coking	Total Coal
Public	44.160	446.595	490.755
Private	7.500	41.695	49.195
All India	51.660	488.290	539.950

3. The production of coking coal in 2011-12 in India was 51.660 MT (4.26% growth over 2010-11) whereas the corresponding figure for non-coking coal was 488.290 MT (1.06% growth over 2010-11).
4. The production of washed (coking) coal in 2011-12 was 6.496 MT (decreased by 7.03% over 2010-11) whereas the production of middling (coking) was 3.697 MT (decreased by 20.87% over 2010-11).
5. During 2011-12, Chhattisgarh registered highest coal production of 113.958 MT (21.1%) followed by Jharkhand 109.566 MT (20.3%) and Orissa 105.476 MT (19.5%). Tamil Nadu was the largest producer of lignite 24.590 MT (58.17%).
6. The contribution of Coal India Limited in the coal production in 2011-12 was 435.828 MT (80.72%) and that of SCCL 52.211 MT (9.67%). During the period 2011-12, Neyveli Lignite Corporation contributed 24.590 MT (58.09%) of lignite production.
7. Highest coking coal producing state of India was Jharkhand (51.108 MT i.e. 98.93%) whereas highest non-coking coal producing state was Chhattisgarh (113.7869 MT i.e. 23.30%).
8. Around 90.38% of coal production of India in 2011-12 was from open-cast mines (487.993 MT).
9. SECL produced highest quantity of coal from underground i.e. 16.408 MT (31.58%) followed by SCCL which produced 10.638 MT (20.47%).
10. Overall stripping ratio for the year 2011-12 was 2.22 (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 2011-12 was 0.8 (0.75 for CIL and 1.10 for SCCL). During 2011-12, OMS for opencast mines for CIL and SCCL were 10.40 and 13.26 respectively. (OMS is the output measured in tones per unit of man-shift).

## (B) Despatch

1. During 2011-12, despatch of indigenous raw coal was 535.299 MT (increase of 2.26% over 2011-12) against the corresponding figure of 523.465 MT during 2010-11. Lignite despatch was 41.883 MT (increase of 7.26% over 2011-12) against the corresponding figure of 37.685 MT during 2010-11. Despatches of solid fossil fuel increased from 561.150 MT to 577.182 MT registering an increase of 2.86% over the previous year.
2. Despates of coking coal increased from 48.950 MT in 2010-11 to 51.723 MT in 2011-12 (increase of 5.66% over the previous year).
3. Despates of Metallurgical coal reduced from 16.075 MT in 2010-11 to 15.903 MT in 2011-12 registering a decrease of 1.07%.
4. Despates of non-coking coal grew by 1.91% [from 474.515 MT in 2010-11 to 483.576 MT in 2011-12].
5. During 2011-12, despates of washed coal (coking) and middling (coking) were 6.532 MT (decreased by 4.70% over 2010-11) and 3.802 MT (decreased by 15.59% over 2010-11).
6. During 2011-12, despatch of hard coke also registered decline from 10.689 MT in 2010-11 to 10.146 MT in 2011-12.
7. The contribution of public sector and private sector in the dispatch (MT) of Raw Coal in 2011-12 was as follows:

Despates (MT) of Raw Coal in 2011-12			
Sector	Year 2011-12		
	Coking	Non-coking	Total
Public	44.315	442.585	486.900
Private	7.408	40.991	48.399
All India	51.723	483.576	535.299

8. All coal producing states except Assam, J&K and Maharashtra showed a positive growth in coal despates resulting into a 2.26% growth in coal despatch across India during 2011-12.
9. In terms of coal despatch, Chhattisgarh had highest share of 114.610 MT (21.41%) followed by Jharkhand of 109.792 MT (21.51%) and Orissa of 104.819 MT (19.58%).
10. In case of lignite despatch, Tamil Nadu had the largest share of 58.43%(24.472 MT).
11. CIL despatched 432.618 MT and SCCL 51.398 MT of coal in 2011-12.
12. Among other PSUs largest share in coal despatch were of DVC Emta and APMDTCL.
13. Private sector despatched 48.399 MT of coal in which PANEM had largest share of 8.126 MT.
14. Powerhouses (Utility) continued to be the largest coal receiver. This sector received 358.604 MT (67%) in 2011-12 against 353.918 MT in 2010-11.
15. Cement sector received 13.179 MT in 2011-12 against 15.079 MT in 2010-11.
16. Despatch to Steel Sector in 2011-12 was 15.637 MT against 15.079 MT in 2010-11.
17. During the year 2011-12 despatch of raw coal by rail was 252.301 MT (47%). The despatch by road was 142.471 MT (27%).

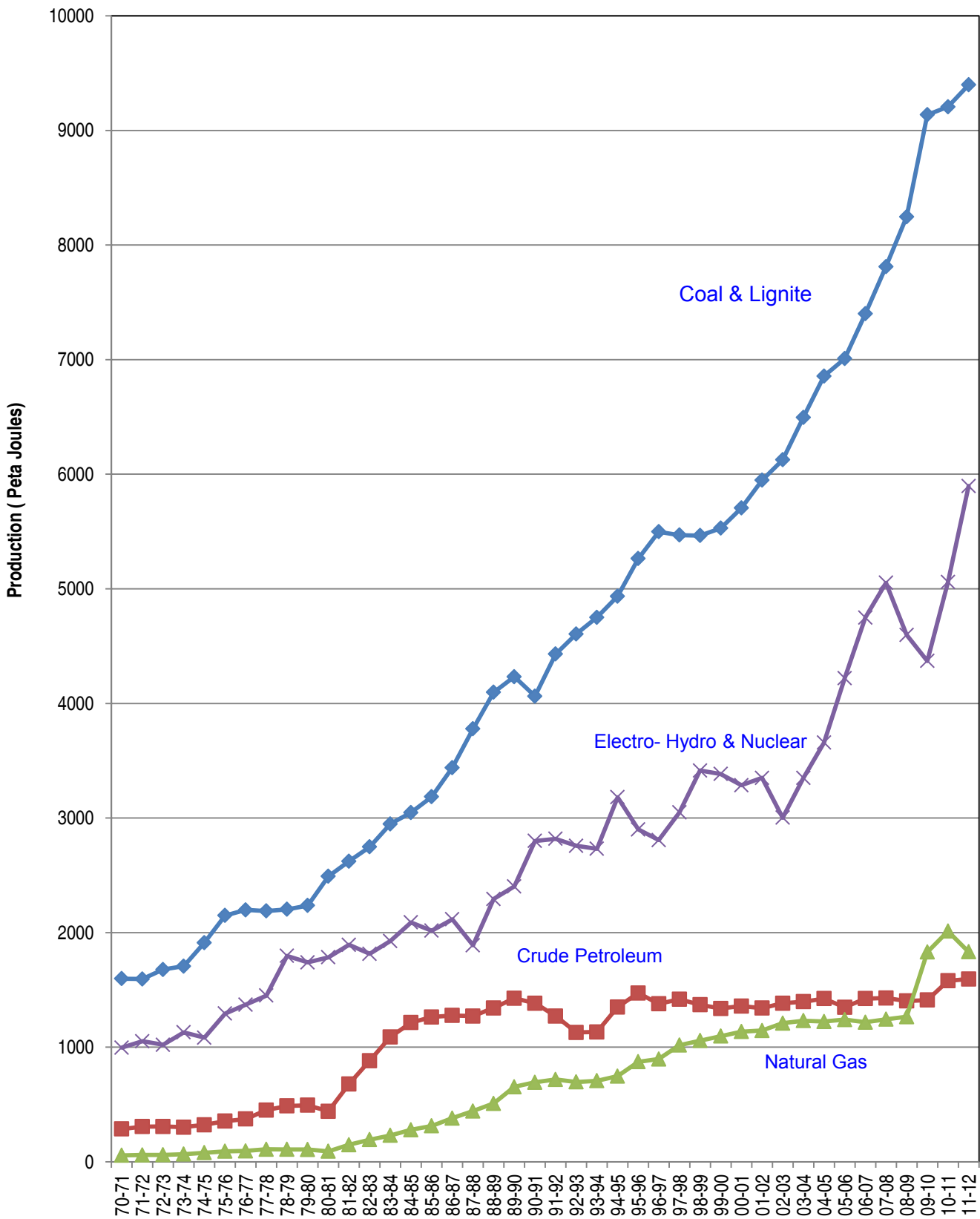
### **(C) Pit Head Closing Stock**

1. Pit-head Closing Stock of raw coal, as on 31-03-2012, was 74.040 MT against 72.192 MT in 2010-11. The same for lignite was 1.051 MT in 2011-12 against 0.610 MT in 2010-11.
2. Pit-head closing stock of coking coal was 11.132 MT in 2011-12 against 12.7543 MT in 2010-11.
3. Pit-head closing stock of non-coking coal was 62.980 MT in 2011-12 against 59.439 MT in 2010-11.
4. Out of total closing stock as on 31.-13-2012, Public sector accounted for 72.628 MT against 71.569 MT in 2010-11.

### **(D) Import and Export**

1. Import of coking coal was 31.801 MT in 2011-12 against 19.484 MT in 2010-11 resulting into an increase of 63% over 2010-11. Import of Non-coking coal was 71.052 MT in 2011-12 against 49.434 MT in 2010-11 (an increase of 44% over 2010-11).
2. Main exporter of coal to India was Indonesia followed by Australia and South Africa.
3. Coal was mainly imported through Paradip and Chennai sea ports.
4. Export of coal during 2011-12 was 2.032 MT against 1.875 MT in 2010-11.
5. Coal is mainly exported to Bangladesh and Nepal. Main ports for coal exports are Panaji and Borsorah.

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	2007-08	2008-09	2009-10	2010-11	2011-12
	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	1138	1154	1170	1186	1222
3.	Gross Domestic Product at factor cost :						
	(i) At current prices	Rs.Billion	49871R	56301R	64573R	71574Q	82800
	(ii) At constant prices	"	45821R	53036R	60915R	48860	52220
4.	Net National Income at factor cost :						
	(i) At current prices	Rs.Billion	44819R	50319R	57615R	63250	73289
	(ii) At constant prices	"	40769R	47054R	53959R	42699	45682
5.	Per Capita Net National Product :						
	(i) At current prices	Rupees	35825R	40775R	46117R	53331Q	60972
6.	Foreign Exchange Reserves						
	(i) Gold	US \$ Million		9577	17986	22972	28128
	(ii) SDR	Mn. Of SDR	18.0	1.0	5006	4569	4449
	(iii) Foreign Exchange	US \$ Million		241426	254685	274330	259741
7.	Foreign Trade :						
	(i) Import	Rs.Billion	10123.12	13744.36	13564.7	16834.67	20559.19
	(ii) Export	"	6558.64	8407.55	8451.25	11426.49	12747.75
	(iii) Balance of Trade	"	-3564.48	-5336.81	-5113.44	-5408.18	-7811.44
8.	Index of Production :						
	(i) Industrial	2004-05=100	141.7	145.2	152.9	165.5	170.4
9.	Wholesale Price Index :	2004-05=100	116.63	126.02	130.81	150.00	161.00
10.	Consumer Price Index:						
	(i) Industrial Workers #	2001=100	133	145	163	180	195
	(ii) Agricultural Labourers	July86- June87=100	423	462	530	577	630
	(iii) Urban non-manual workers	1984-85=100	528	577	634	-	-
11.	Fuel (gross)						
	Coal	Mn.Tonne	457.08	492.76	532.042	532.694	539.950
	Lignite	"	33.98	32.42	34.071	37.733	42.332
	Natural Gas	Bn.Cub.Mtr.	32.417	32.849	47.51	52.221	47.539
	Crude Oil	Mn.Tonne	34.118	33.506	33.691	37.712	38.090
	Petroleum Products(Incl RBF)	"	158.74	164.59	163.505	164.85	170.15
12.	Electricity Generated (Gr.)						
	(i) Utilities						
	Hydel	B.KWH	120.4	110.1	106.7	114.3	130.5
	Thermal	"	585.3	616.1	671.0	704.3	759.4
	Nuclear	"	16.9	14.92	14.71	26.3	33.3
	Total	"	722.6	741.16	792.4	844.8	923.2
	(ii) Non-utilities	"	90.5	99.72	109.69	120.9	N. A.
	Grand Total	"	813.1	840.9	902.0	965.7	923.2

# : calender year basis, Q : Quick Estimates.

P: Provisional

Source: M/o SPI, Economic Survey, M/o Industry,RBI, M/o Petroleum &amp; 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	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
	1	2	3	4	5	6	7	8
<b>1</b>	<b>Reserves (Proved)</b>							
	(i) Coking Coal	Mn.Tonne	16949	17404	17545	17,669	17,669	17,933
	(ii) Non Coking	"	81624	84425	88175	92,129	96,333	100,211
	(iii) Lignite	"	4177	4824	5363	6146	6146	6181
<b>2</b>	<b>Consumption</b>							
	(i) Coal	Mn.Tonne	419.800	453.491	549.567	620.389	589.874	638.923
	(ii) Lignite	"	30.797	34.657	31.846	33.733	37.688	41.891
	(iii) Coal Products*	"	40.478	41.825	42.878	44.441	42.069	43.865
<b>3</b>	<b>Production :</b>							
	(i) Coal	Mn.Tonne	430.832	457.082	492.757	532.042	532.694	539.950
	(ii) Lignite	"	31.285	33.980	32.421	34.071	37.733	42.332
	(iii) Coal Products*	"	41.013	41.825	41.908	41.964	40.244	39.241
<b>4</b>	<b>Imports</b>							
	(a) Qty : Coal	Mn.Tonne	43.081	49.794	59.003	73.255	68.918	102.853
	Coal Products	"	4.6869	4.248	1.881	2.355	1.490	2.365
	Total (a)	"	47.7679	54.042	60.884	75.610	70.408	105.218
	(b) Value: Coal	Rs.Million	166886	207384	413408	391800	415496	788376
	Coal Products	"	40211	51231	46051	33311	31204	47585
	Total (b)	"	207097	258615	459459	425111	446699	835961
<b>5</b>	<b>Exports</b>							
	(a) Qty : Coal	Mn.Tonne	1.554	1.627	1.655	2.454	4.409	2.032
	Coal Products	"	0.076	0.097	1.338	0.178	0.650	0.613
	Total (a)		1.630	1.724	2.994	2.632	5.059	2.645
	(b) Value: Coal	Rs.Million	3,137	2,768	3,485	5045	12641	5900
	Coal Products	"	323	987	7,246	2264	9912	11525
	Total (b)		3,460	3,755	10,731	7309	22554	17425
6	Unit Value of coal imports (gr.)	Rs./Tonne	3874	4165	7007	5348	6029	7665
7	India's Total Exports	Rs.Million	5717790	6558635	8407551	8455336	11426489.7	13970200
8	India's Total Imports	Rs.Million	8405060	10123117	13744356	13637355	16834669.6	22475600
9	(i) Coal imports as percentage of India's total import	%	2.5	2.6	3.3	3.1	2.7	3.7
	(ii) Coal exports as percentage of India's total export	%	0.1	0.1	0.1	0.1	0.2	0.1

\* Coal Products includes Washed coal, Middlings and Hard coke produced from washeries owned by collieries and integrated 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	121393	4370	16747
10-11	570427	9207	37712	1579	52221	2012	140523	5059	17856
11-12	582282	9398	38090	1595	47559	1832	163797	5897	18722

\* 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 : 2002-03 to 2011-12 (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)
2002-03	Coal	341.272	23.260	1.517	21.743	18.124	19.394	-1.270	361.745
	Lignite	26.018			0.000	0.742	0.731	0.011	26.029
	Total	367.290	23.260	1.517	21.743	18.866	20.125	-1.259	387.774
2003-04	Coal	361.246	21.683	1.627	20.056	19.394	21.291	-1.897	379.405
	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
2004-05	Coal	382.615	28.950	1.374	27.576	21.291	23.969	-2.678	407.513
	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
2005-06	Coal	407.039	38.586	1.989	36.597	23.969	34.334	-10.365	433.271
	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
2006-07	Coal	430.832	43.081	1.554	41.527	34.334	44.348	-10.014	462.345
	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
2007-08	Coal	457.082	49.794	1.627	48.167	44.348	46.779	-2.431	502.818
	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
2008-09	Coal	492.757	59.003	1.655	57.348	46.779	47.317	-0.538	549.567
	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
2009-10	Coal	532.042	73.255	2.454	70.801	47.317	64.863	-17.546	585.297
	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
2010-11	Coal	532.694	68.918	4.409	64.509	64.863	72.192	-7.329	589.874
	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
2011-12	Coal	539.950	102.853	2.032	100.821	72.192	74.040	-1.848	638.923
	Lignite	42.332				0.610	1.051	-0.441	41.891
	Total	582.282	102.853	2.032	100.821	72.802	75.091	-2.289	680.814

Note: Total Primary Supply is estimated as sum of indigenous 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 2011, 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 2011, in situ geological resources of coal in India up to a depth of 1200 meters is 285.862 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 (27.61%), Orissa (24.19%), Chhattisgarh (17.24%), West Bengal (10.48%), Madhya Pradesh (8.09%) and Andhra Pradesh (7.72%).

**2.4.2** Out of the total resource of 285.862 BT, the share of proved, indicated and inferred resources are 114.002 BT (39.88%), 137.471 BT (48.09%) and 34.390 BT (12.03%).

2.4.3 In the total resources, the share of Prime Coking, Medium Coking, Blendable / Semi Coking and Non Coking (Including High Sulphur) are 1.86 %, 9.25%, 0.60% and 88.29%. It is to be noted that the increase in the total resource from 2010 to 2011 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.

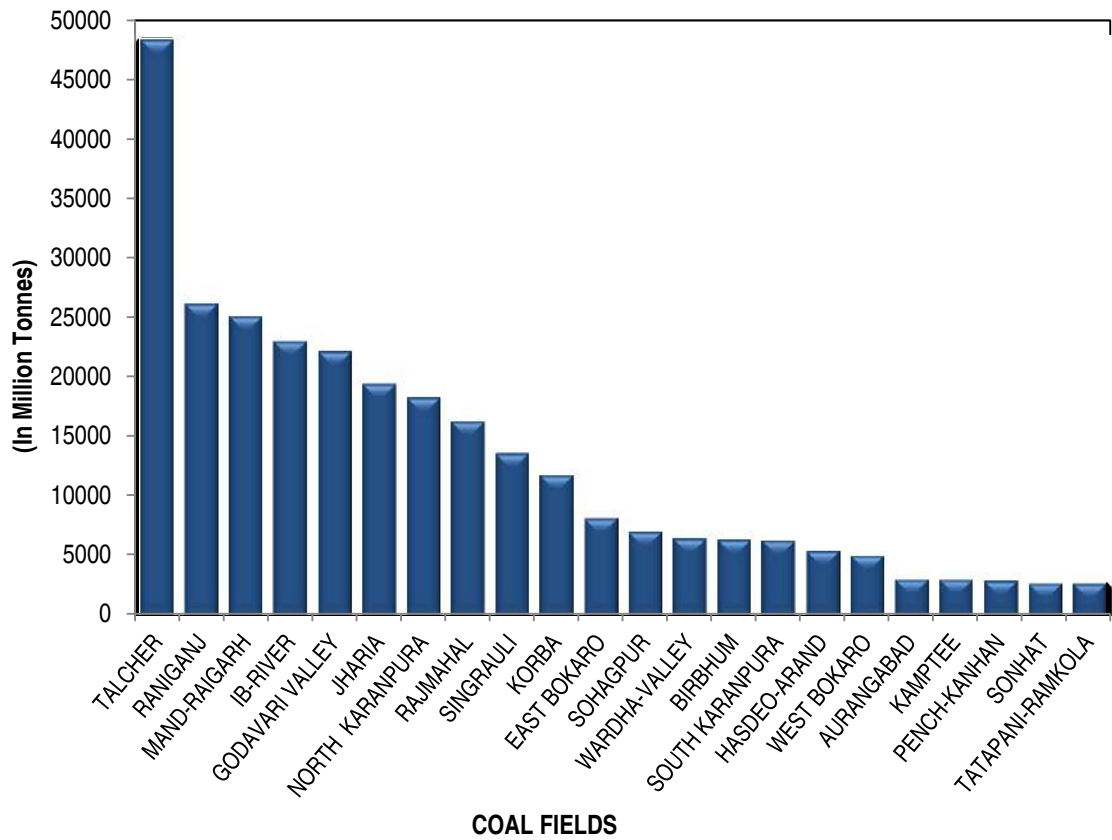
2.5.1 Total lignite resources in the country as on 1st April 2011 was 40.906 BT which includes proved, indicated and inferred resources. In the total lignite resources, three major states, namely, Tamil Nadu (80.41%), Rajasthan (11.82%) and Gujarat (6.65%) accounted for 98.89% of the resources.

2.5.2 Information on agency wise and Coal Company command area wise promotional drilling and detailed drilling achievement during the IX<sup>th</sup>, X<sup>th</sup> and XI<sup>th</sup> plan period are reported in Tables 2.8 and Table 2.9. While the discussion above is based on data as on 01.04.2011, results for period up to 01.04.2012 have been presented in the tables attached here.

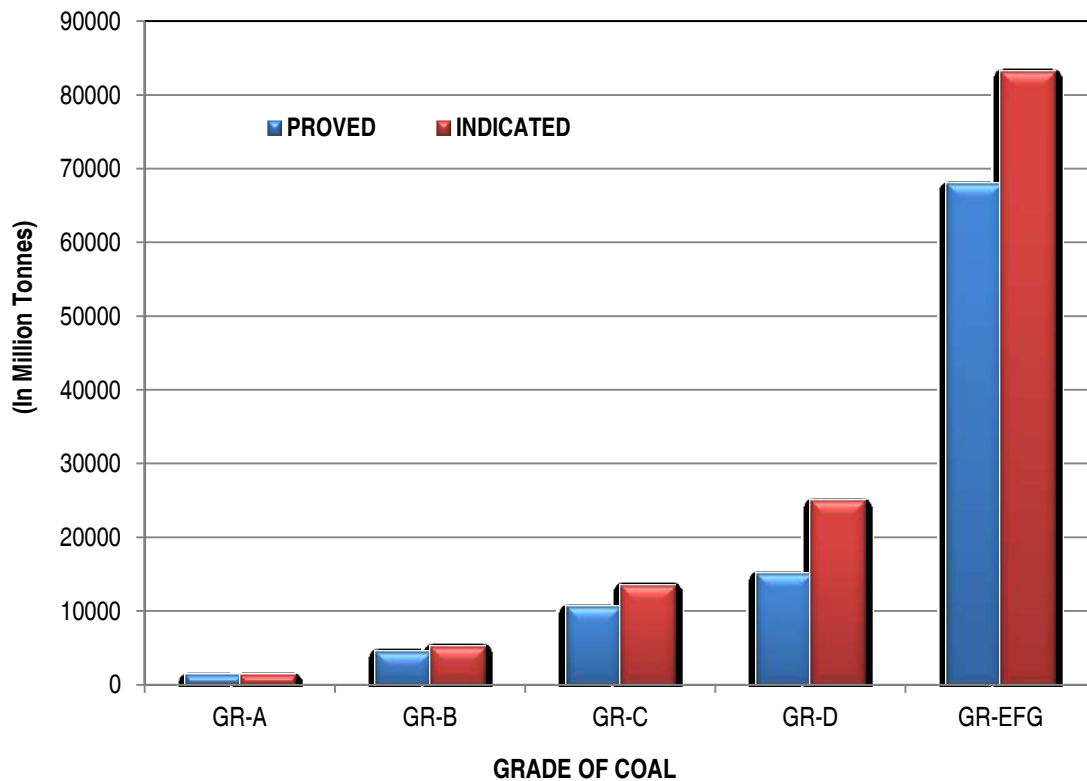
2.6 The different exploration stages and agencies involved in the exercise are summarized below for easy comprehension of the readers.

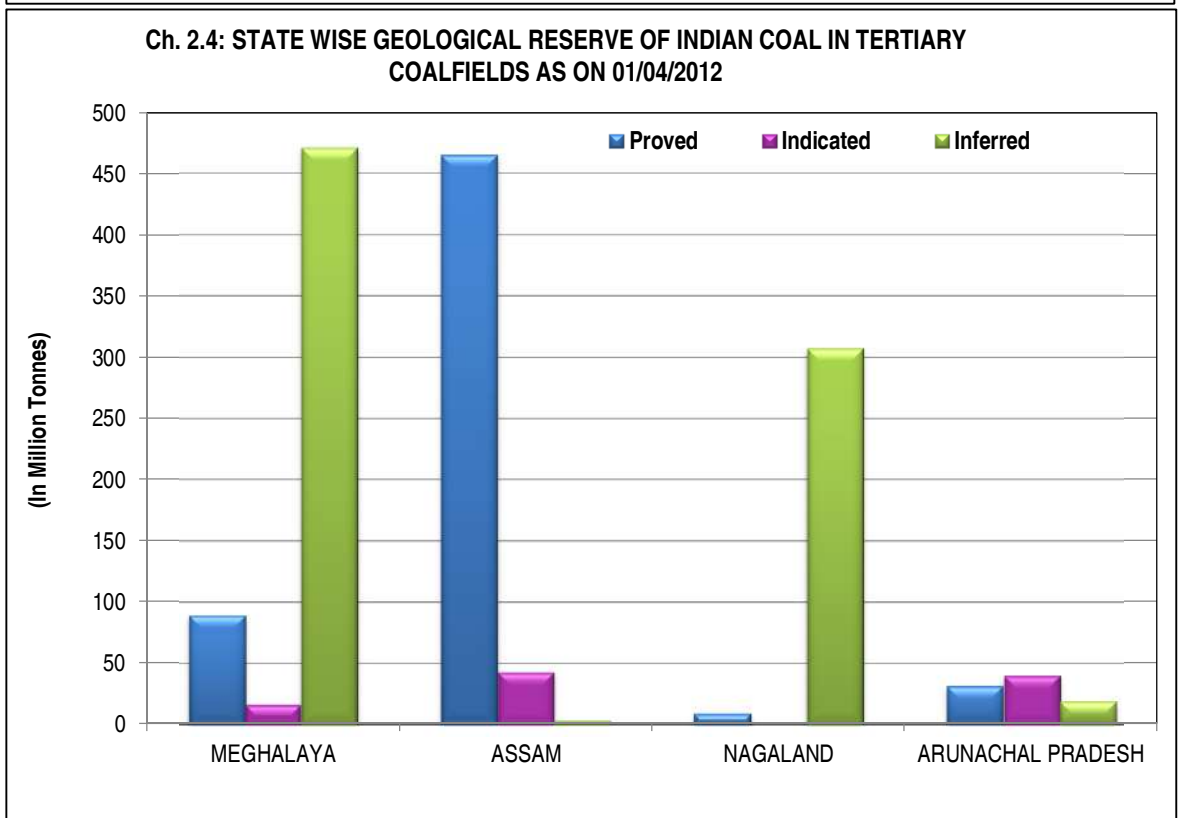
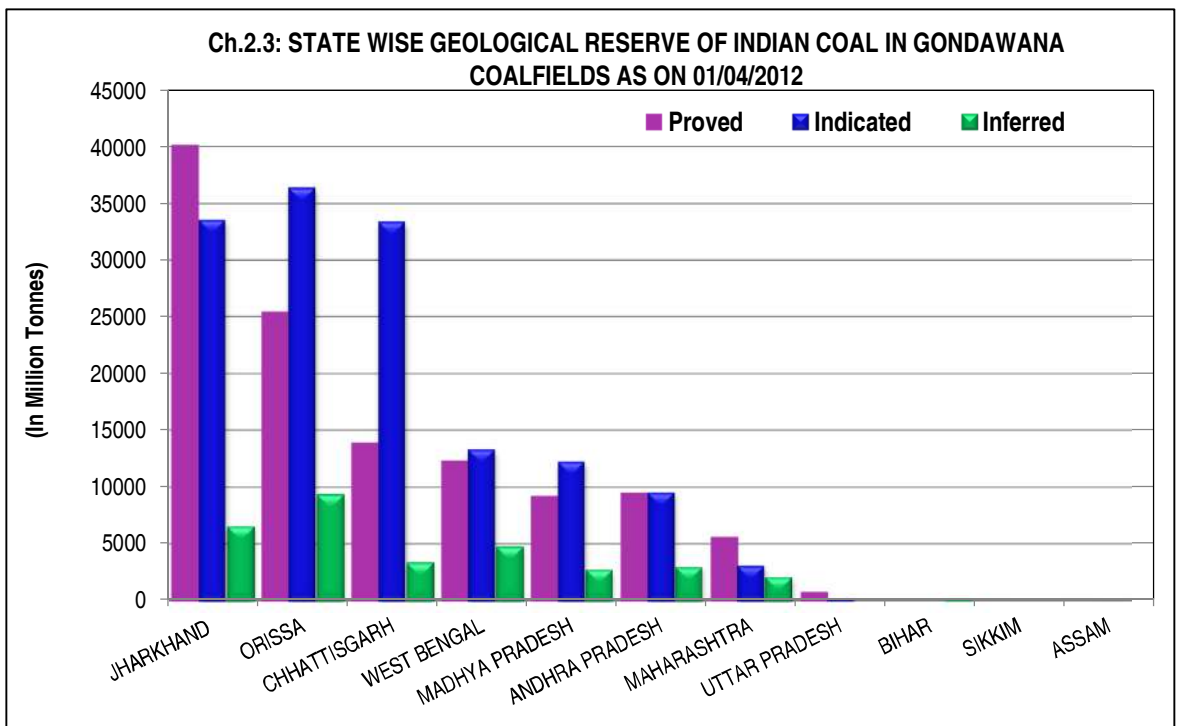
Exploration Stage: Regional (funded by Ministry of Mines)	
Exploration Agencies	
1.	Geological Survey of India
2.	State Directorates of Geology & Mining
Exploration Stage: Regional (Promotional - funded by Ministry of Coal)	
Exploration Agencies	
1.	Geological Survey of India
2.	Mineral Exploration Corporation 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 01/04/2012**



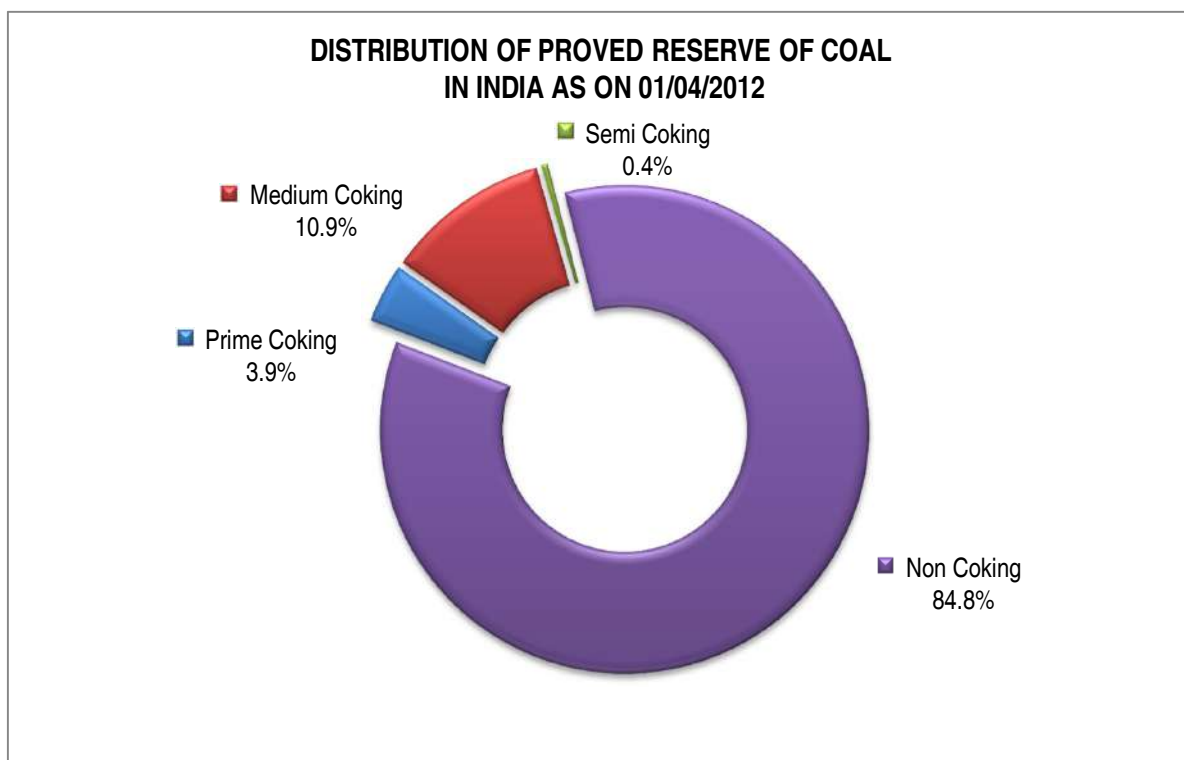
**Ch. 2.2: GRADEWISE GEOLOGICAL RESERVE OF NON-COKING COAL IN GONDAWANA COALFIELDS AS ON 01/04/2012**





**TABLE - 2.1: INVENTORY OF GEOLOGICAL RESERVE OF COAL BY TYPE AS ON 2010, 2011 & 2012 (1st APRIL)**

Type of Coal (1)	As on (2)	Reserve (Mill.Tonnes)			
		Proved (3)	Indicated (4)	Inferred (5)	Total (6)
Prime Coking	01/04/2010	4,614	699	0	<b>5,313</b>
	01/04/2011	4,614	699	0	<b>5,313</b>
	01/04/2012	4,614	699	0	<b>5,313</b>
Medium Coking	01/04/2010	12,573	11,940	1,880	<b>26,393</b>
	01/04/2011	12,573	12,001	1,880	<b>26,454</b>
	01/04/2012	12,837	11,951	1,880	<b>26,669</b>
Blendable / Semi Coking	01/04/2010	482	1,003	222	<b>1,707</b>
	01/04/2011	482	1,003	222	<b>1,707</b>
	01/04/2012	482	1,003	222	<b>1,707</b>
Non Coking (Including High Sulphur )	01/04/2010	92,129	117,012	34,257	<b>243,398</b>
	01/04/2011	96,333	123,768	32,287	<b>252,388</b>
	01/04/2012	100,211	128,515	31,081	<b>259,808</b>
<b>Total</b>	<b>01/04/2010 *</b>	<b>109,798</b>	<b>130,654</b>	<b>36,359</b>	<b>276,811</b>
	<b>01/04/2011 *</b>	<b>114,002</b>	<b>137,471</b>	<b>34,389</b>	<b>285,862</b>
	<b>01/04/2012 *</b>	<b>118,145</b>	<b>142,169</b>	<b>33,182</b>	<b>293,497</b>



\* Including Sikkim

Source: Geological Survey of India

**TABLE - 2.2: STATEWISE INVENTORY OF GEOLOGICAL RESOURCES OF COAL AS ON 1st APRIL 2010, 2011 & 2012**

State	As on	Resources (Million Tonnes)				State	As on	Resources (Million Tonnes)			
		Proved	Indicated	Inferred	Total			Proved	Indicated	Inferred	Total
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)
<b>GONDAWANA COALFIELDS</b>						<b>TERTIARY COAL FIELDS</b>					
ASSAM	1/4/2010	0	3	0	<b>3</b>	ARUNACHAL	1/4/2010	31	40	19	<b>90</b>
	1/4/2011	0	3	0	<b>3</b>	PRADESH	1/4/2011	31	40	19	<b>90</b>
	1/4/2012	0	3	0	<b>3</b>		1/4/2011	31	40	19	<b>90</b>
ANDHRA PRADESH	1/4/2010	9,257	9,730	3,029	<b>22,016</b>	ASSAM	1/4/2010	349	33	3	<b>385</b>
	1/4/2011	9,297	9,728	3,029	<b>22,055</b>		1/4/2011	465	43	3	<b>511</b>
	1/4/2012	9,567	9,554	3,034	<b>22,155</b>		1/4/2012	465	43	3	<b>511</b>
JHARKHAND	1/4/2010	39,633	30,992	6,338	<b>76,964</b>	MEGHALAYA	1/4/2010	89	17	471	<b>576</b>
	1/4/2011	39,761	32,592	6,584	<b>78,936</b>		1/4/2011	89	17	471	<b>576</b>
	1/4/2012	40,163	33,609	6,584	<b>80,356</b>		1/4/2012	89	17	471	<b>576</b>
BIHAR	1/4/2010	0	0	160	<b>160</b>	NAGALAND	1/4/2010	9	0	307	<b>315</b>
	1/4/2011	0	0	160	<b>160</b>		1/4/2011	9	0	307	<b>315</b>
	1/4/2012	0	0	160	<b>160</b>		1/4/2012	9	0	307	<b>315</b>
MADHYA PRADESH	1/4/2010	8,505	11,267	2,216	<b>21,988</b>	TERTIARY	1/4/2010	478	90	799	<b>1,367</b>
	1/4/2011	8,871	12,192	2,063	<b>23,126</b>	Coalfields	1/4/2011	594	99	799	<b>1,492</b>
	1/4/2012	9,309	12,291	2,777	<b>24,376</b>		1/4/2012	594	99	799	<b>1,493</b>
CHHATTISGARH	1/4/2010	12,441	30,230	4,011	<b>46,682</b>	<b>INDIA</b>	<b>1/4/2010</b>	<b>109,798</b>	<b>130,654</b>	<b>36,359</b>	<b>276,811</b>
	1/4/2011	12,879	32,390	4,011	<b>49,280</b>		<b>1/4/2011</b>	<b>114,002</b>	<b>137,471</b>	<b>34,390</b>	<b>285,862</b>
	1/4/2012	13,988	33,448	3,410	<b>50,846</b>		<b>1/4/2012</b>	<b>118,145</b>	<b>142,169</b>	<b>33,183</b>	<b>293,497</b>
MAHARASHTRA	1/4/2010	5,360	2,984	1,965	<b>10,308</b>	Singrimari coalfield of Assam (Non-Coking) is included in Gondawana coalfield, not considered in Tertiary coalfields.					
	1/4/2011	5,490	3,094	1,950	<b>10,533</b>						
	1/4/2012	5,667	3,104	2,110	<b>10,882</b>						
ORISSA	1/4/2010	21,507	32,074	12,726	<b>66,307</b>						
	1/4/2011	24,492	33,987	10,680	<b>69,159</b>						
	1/4/2012	25,548	36,466	9,434	<b>71,447</b>						
SIKKIM	1/4/2010	0	58	43	<b>101</b>						
	1/4/2011	0	58	43	<b>101</b>						
	1/4/2012	0	58	43	<b>101</b>						
UTTAR PRADESH	1/4/2010	866	196	0	<b>1,062</b>						
	1/4/2011	866	196	0	<b>1,062</b>						
	1/4/2012	884	178	0	<b>1,062</b>						
WEST BENGAL	1/4/2010	11,753	13,030	5,071	<b>29,853</b>						
	1/4/2011	11,753	13,132	5,071	<b>29,955</b>						
	1/4/2012	12,425	13,358	4,832	<b>30,616</b>						
<b>GONDAWANA</b>	<b>1/4/2010</b>	<b>109,320</b>	<b>130,564</b>	<b>35,559</b>	<b>275,444</b>						
	<b>1/4/2011</b>	<b>113,408</b>	<b>137,372</b>	<b>33,590</b>	<b>284,370</b>						
	<b>1/4/2012</b>	<b>117,551</b>	<b>142,070</b>	<b>32,384</b>	<b>292,005</b>						

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 01-04-2012)**

State	Field	Type of Coal	Depth (Mt.)	Reserve (Mill.Tonnes)				
				Proved	Indicated	Inferred	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
WEST BENGAL	RANIGANJ	Medium Coking	0-300	194.70	1.60	0.00	<b>196.30</b>	
		Medium Coking	300-600	15.30	16.90	0.00	<b>32.20</b>	
		Semi Coking	0-300	45.75	14.19	0.00	<b>59.94</b>	
		Semi Coking	300-600	109.51	113.23	23.48	<b>246.22</b>	
		Semi Coking	600-1200	32.79	305.07	144.75	<b>482.61</b>	
		Non Coking	0-300	9799.17	1786.40	250.57	<b>11836.14</b>	
		Non Coking	300-600	2036.00	3562.89	2074.63	<b>7673.52</b>	
		Non Coking	600-1200	77.95	1913.67	1636.86	<b>3628.48</b>	
		<b>TOTAL</b>			<b>12311.17</b>	<b>7713.95</b>	<b>4130.29</b>	<b>24155.41</b>
		BARJORA	Non Coking	0-300	114.27	0.00	0.00	<b>114.27</b>
		BIRBHUM	Non Coking	0-300	0.00	818.42	114.98	<b>933.40</b>
			Non Coking	300-600	0.00	3652.23	523.19	<b>4175.42</b>
			Non Coking	600-1200	0.00	1173.64	48.58	<b>1222.22</b>
			<b>TOTAL</b>			<b>0.00</b>	<b>5644.29</b>	<b>686.75</b>
		DARJEELING	Non Coking	0-300	0.00	0.00	15.00	<b>15.00</b>
	<b>WEST BENGAL</b>	<b>TOTAL</b>	<b>Medium Coking</b>	<b>0-1200</b>	<b>210.00</b>	<b>18.50</b>	<b>0.00</b>	<b>228.50</b>
	<b>WEST BENGAL</b>	<b>TOTAL</b>	<b>Semi Coking</b>	<b>0-1200</b>	<b>188.05</b>	<b>432.49</b>	<b>168.23</b>	<b>788.77</b>
	<b>WEST BENGAL</b>	<b>TOTAL</b>	<b>Non Coking</b>	<b>0-1200</b>	<b>12027.39</b>	<b>12907.25</b>	<b>4663.81</b>	<b>29598.45</b>
	<b>WEST BENGAL</b>	<b>TOTAL</b>	<b>ALL</b>	<b>0-1200</b>	<b>12425.44</b>	<b>13358.24</b>	<b>4832.04</b>	<b>30615.72</b>
JHARKHAND	RANIGANJ	Medium Coking	0-300	220.00	8.87	0.00	<b>228.87</b>	
		Medium Coking	300-600	49.23	8.30	0.00	<b>57.53</b>	
		Semi Coking	0-300	51.40	0.00	0.00	<b>51.40</b>	
		Semi Coking	300-600	0.00	40.00	0.00	<b>40.00</b>	
		Non Coking	0-300	1111.53	89.32	29.55	<b>1230.40</b>	
		Non Coking	300-600	106.03	320.07	2.00	<b>428.10</b>	
			<b>TOTAL</b>			<b>1538.19</b>	<b>466.56</b>	<b>31.55</b>
		JHARIA	Prime Coking	0-600	4039.41	4.01	0.00	<b>4043.42</b>
			Prime Coking	600-1200	574.94	694.70	0.00	<b>1269.64</b>
			Medium Coking	0-600	4064.18	2.82	0.00	<b>4067.00</b>
			Medium Coking	600-1200	296.30	1800.70	0.00	<b>2097.00</b>
			Non Coking	0-600	5606.74	495.26	0.00	<b>6102.00</b>
			Non Coking	600-1200	496.00	1355.00	0.00	<b>1851.00</b>
			<b>TOTAL</b>			<b>15077.57</b>	<b>4352.49</b>	<b>0.00</b>
		EAST BOKARO	Medium Coking	0-300	2607.20	1269.94	18.71	<b>3895.85</b>
			Medium Coking	300-600	384.67	1203.06	58.53	<b>1646.26</b>
			Medium Coking	600-1200	255.93	1394.07	786.08	<b>2436.08</b>
			Non Coking	0-300	95.17	56.81	0.00	<b>151.98</b>
			Non Coking	300-600	8.90	5.69	0.00	<b>14.59</b>
			<b>TOTAL</b>			<b>3351.87</b>	<b>3929.57</b>	<b>863.32</b>



**Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2012)**

State	Field	Type of Coal	Depth (Mt.)	Reserve (Mill.Tonnes)			
				Proved	Indicated	Inferred	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
JHARKHAND	WEST BOKARO	Medium Coking	0-300	3051.51	1202.44	29.09	<b>4283.04</b>
		Medium Coking	300-600	303.14	132.57	5.33	<b>441.04</b>
		Non Coking	0-300	268.57	9.37	0.00	<b>277.94</b>
		Non Coking	300-600	5.81	4.66	0.00	<b>10.47</b>
		<b>TOTAL</b>			<b>3629.03</b>	<b>1349.04</b>	<b>34.42</b>
	RAMGARH	Medium Coking	0-300	531.52	37.55	0.00	<b>569.07</b>
		Semi Coking	0-300	171.94	95.33	0.55	<b>267.82</b>
		Semi Coking	300-600	0.00	336.22	52.90	<b>389.12</b>
		Non Coking	0-300	7.13	26.20	4.60	<b>37.93</b>
		<b>TOTAL</b>			<b>710.59</b>	<b>495.30</b>	<b>58.05</b>
	NORTH KARANPURA	Medium Coking	0-300	485.08	1163.22	0.00	<b>1648.30</b>
		Medium Coking	300-600	23.59	1635.92	413.43	<b>2072.94</b>
		Non Coking	0-300	8388.03	2463.07	722.03	<b>11573.13</b>
		Non Coking	300-600	602.72	1626.64	729.50	<b>2958.86</b>
		Non Coking	600-1200	0.00	25.76	0.00	<b>25.76</b>
		<b>TOTAL</b>			<b>9499.42</b>	<b>6914.61</b>	<b>1864.96</b>
	SOUTH KARANPURA	Medium Coking	300-600	0.00	248.04	32.83	<b>280.87</b>
		Medium Coking	600-1200	0.00	265.36	263.40	<b>528.76</b>
		Non Coking	0-300	2517.35	634.55	287.45	<b>3439.35</b>
		Non Coking	300-600	230.74	763.67	644.03	<b>1638.44</b>
		Non Coking	600-1200	0.00	136.94	252.51	<b>389.45</b>
		<b>TOTAL</b>			<b>2748.09</b>	<b>2048.56</b>	<b>1480.22</b>
	AURANGABAD	Non Coking	0-300	352.05	1241.22	43.07	<b>1636.34</b>
		Non Coking	300-600	0.00	867.01	423.07	<b>1290.08</b>
		Non Coking	600-1200	0.00	33.42	37.27	<b>70.69</b>
		<b>TOTAL</b>			<b>352.05</b>	<b>2141.65</b>	<b>503.41</b>
	HUTAR	Non Coking	0-300	190.79	14.22	32.48	<b>237.49</b>
		Non Coking	300-600	0.00	12.33	0.00	<b>12.33</b>
		<b>TOTAL</b>			<b>190.79</b>	<b>26.55</b>	<b>32.48</b>
	DALTONGUNJ DEOGARH	Non Coking	0-300	83.86	60.10	0.00	<b>143.96</b>
		Non Coking	0-300	326.24	73.60	0.00	<b>399.84</b>
		<b>TOTAL</b>			<b>410.10</b>	<b>133.70</b>	<b>0.00</b>
RAJMAHAL	Non Coking	0-300	2631.89	7855.22	558.23	<b>11045.34</b>	
	Non Coking	300-600	23.63	3865.58	1151.95	<b>5041.16</b>	
	Non Coking	600-1200	0.00	30.46	5.10	<b>35.56</b>	
	<b>TOTAL</b>			<b>2655.52</b>	<b>11751.26</b>	<b>1715.28</b>	<b>16122.06</b>
<b>JHARKHAND</b>	<b>TOTAL</b>	<b>Prime Coking</b>	<b>0-1200</b>	<b>4614.35</b>	<b>698.71</b>	<b>0.00</b>	<b>5313.06</b>
<b>JHARKHAND</b>	<b>TOTAL</b>	<b>Medium Coking</b>	<b>0-1200</b>	<b>12272.35</b>	<b>10372.86</b>	<b>1607.40</b>	<b>24252.61</b>
<b>JHARKHAND</b>	<b>TOTAL</b>	<b>Semi Coking</b>	<b>0-1200</b>	<b>223.34</b>	<b>471.55</b>	<b>53.45</b>	<b>748.34</b>
<b>JHARKHAND</b>	<b>TOTAL</b>	<b>Non Coking</b>	<b>0-1200</b>	<b>23053.18</b>	<b>22066.17</b>	<b>4922.84</b>	<b>50042.19</b>
<b>JHARKHAND</b>	<b>TOTAL</b>	<b>ALL</b>	<b>0-1200</b>	<b>40163.22</b>	<b>33609.29</b>	<b>6583.69</b>	<b>80356.20</b>

**Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2012)**

State	Field	Type of Coal	Depth (Mt.)	Reserve (Mill.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	<b>160.00</b>
<b>BIHAR</b>	<b>TOTAL</b>	<b>Non Coking</b>	<b>0-1200</b>	<b>0.00</b>	<b>0.00</b>	<b>160.00</b>	<b>160.00</b>
MADHYA PRADESH	JOHILLA	Non Coking	0-300	185.08	104.09	32.83	<b>322.00</b>
	UMARIA	Non Coking	0-300	177.70	3.59	0.00	<b>181.29</b>
	PENCH-KANHAN	Medium Coking	0-300	67.54	263.11	16.41	<b>347.06</b>
		Medium Coking	300-600	40.29	136.90	142.17	<b>319.36</b>
		Non Coking	0-300	1084.74	212.76	138.67	<b>1436.17</b>
		Non Coking	300-600	212.67	176.84	394.02	<b>783.53</b>
		Non Coking	600-1200	0.00	0.00	0.86	<b>0.86</b>
		<b>TOTAL</b>			<b>1405.24</b>	<b>789.61</b>	<b>692.13</b>
	PATHAKHERA	Non Coking	0-300	261.08	51.70	0.00	<b>312.78</b>
		Non Coking	300-600	29.72	36.43	68.00	<b>134.15</b>
		<b>TOTAL</b>	<b>0-600</b>	<b>290.80</b>	<b>88.13</b>	<b>68.00</b>	<b>446.93</b>
	GURGUNDA	Non Coking	0-300	0.00	47.39	0.00	<b>47.39</b>
	MOHPANI	Non Coking	0-300	7.83	0.00	0.00	<b>7.83</b>
	SOHAGPUR	Medium Coking	0-300	184.57	211.38	2.01	<b>397.96</b>
		Medium Coking	300-600	62.09	866.78	90.54	<b>1019.41</b>
		Medium Coking	600-1200	0.00	81.94	21.70	<b>103.64</b>
		Non Coking	0-300	1477.98	2291.83	57.74	<b>3827.55</b>
		Non Coking	300-600	1.27	1504.42	18.19	<b>1523.88</b>
		Non Coking	600-1200	0.00	31.27	0.00	<b>31.27</b>
		<b>TOTAL</b>			<b>1725.91</b>	<b>4987.62</b>	<b>190.18</b>
	SINGRAULI	Non Coking	0-300	4970.73	2566.01	950.88	<b>8487.62</b>
		Non Coking	300-600	545.41	3562.95	767.51	<b>4875.87</b>
		Non Coking	600-1200	0.00	141.26	75.38	<b>216.64</b>
		<b>TOTAL</b>			<b>5516.14</b>	<b>6270.22</b>	<b>1793.77</b>
<b>MADHYA PRADESH</b>	<b>TOTAL</b>	<b>Medium Coking</b>	<b>0-1200</b>	<b>354.49</b>	<b>1560.11</b>	<b>272.83</b>	<b>2187.43</b>
<b>MADHYA PRADESH</b>	<b>TOTAL</b>	<b>Non Coking</b>	<b>0-1200</b>	<b>8954.21</b>	<b>10730.54</b>	<b>2504.08</b>	<b>22188.83</b>
<b>MADHYA PRADESH</b>	<b>TOTAL</b>	<b>ALL</b>	<b>0-1200</b>	<b>9308.70</b>	<b>12290.65</b>	<b>2776.91</b>	<b>24376.26</b>

**Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2012)**

State	Field	Type of Coal	Depth (Mt.)	Reserve (Mill.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	<b>104.38</b>
	SONHAT	Semi Coking	0-300	70.77	16.45	0.00	<b>87.22</b>
		Semi Coking	300-600	0.00	82.80	0.00	<b>82.80</b>
		Non Coking	0-300	101.00	936.39	0.00	<b>1037.39</b>
		Non Coking	300-600	27.72	859.37	1.89	<b>888.98</b>
		Non Coking	600-1200	0.00	568.85	0.00	<b>568.85</b>
		<b>TOTAL</b>			<b>199.49</b>	<b>2463.86</b>	<b>1.89</b>
	JHILIMILI	Non Coking	0-300	228.20	38.90	0.00	<b>267.10</b>
	CHIRIMIRI	Non Coking	0-300	320.33	10.83	31.00	<b>362.16</b>
	BISRAMPUR	Non Coking	0-300	986.06	628.64	0.00	<b>1614.70</b>
	EAST BISRAPUR	Non Coking	0-300	0.00	164.82	0.00	<b>164.82</b>
	LAKHANPUR	Non Coking	0-300	455.88	3.35	0.00	<b>459.23</b>
	PANCHBAHINI	Non Coking	0-300	0.00	11.00	0.00	<b>11.00</b>
	HASDEO-ARAND	Non Coking	0-300	1369.84	3589.66	390.66	<b>5350.16</b>
		Non Coking	300-600	0.00	39.98	7.33	<b>47.31</b>
		<b>TOTAL</b>			<b>1369.84</b>	<b>3629.64</b>	<b>397.99</b>
	SENDURGARH	Non Coking	0-300	152.89	126.32	0.00	<b>279.21</b>
	KORBA	Non Coking	0-300	5087.19	3644.30	99.91	<b>8831.40</b>
		Non Coking	300-600	563.95	2292.20	68.11	<b>2924.26</b>
		<b>TOTAL</b>			<b>5651.14</b>	<b>5936.50</b>	<b>168.02</b>
	MAND-RAIGARH	Non Coking	0-300	4274.32	11769.33	1974.87	<b>18018.52</b>
		Non Coking	300-600	204.97	5651.86	634.09	<b>6490.92</b>
		Non Coking	600-1200	0.00	610.40	0.00	<b>610.40</b>
		<b>TOTAL</b>			<b>4479.29</b>	<b>18031.59</b>	<b>2608.96</b>
	TATAPANI-RAMKOLA	Non Coking	0-300	50.43	1092.58	24.85	<b>1167.86</b>
		Non Coking	300-600	0.00	997.47	177.34	<b>1174.81</b>
Non Coking		600-1200	0.00	302.67	0.00	<b>302.67</b>	
<b>TOTAL</b>				<b>50.43</b>	<b>2392.72</b>	<b>202.19</b>	<b>2645.34</b>
<b>CHHATTISGARH</b>	<b>TOTAL</b>	<b>Semi Coking</b>	<b>0-1200</b>	<b>70.77</b>	<b>99.25</b>	<b>0.00</b>	<b>170.02</b>
<b>CHHATTISGARH</b>	<b>TOTAL</b>	<b>Non Coking</b>	<b>0-1200</b>	<b>13917.08</b>	<b>33349.00</b>	<b>3410.05</b>	<b>50676.13</b>
<b>CHHATTISGARH</b>	<b>TOTAL</b>	<b>ALL</b>	<b>0-1200</b>	<b>13987.85</b>	<b>33448.25</b>	<b>3410.05</b>	<b>50846.15</b>

**Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2012)**

State	Field	Type of Coal	Depth (Mt.)	Reserve (Mill.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	
<b>UTTAR PRADESH</b>	<b>TOTAL</b>	<b>Non Coking</b>	<b>0-1200</b>	<b>884.04</b>	<b>177.76</b>	<b>0.00</b>	<b>1061.80</b>	
<b>UTTAR PRADESH</b>	<b>TOTAL</b>	<b>ALL</b>	<b>0-1200</b>	<b>884.04</b>	<b>177.76</b>	<b>0.00</b>	<b>1061.80</b>	
MAHARASHTRA	WARDHA-VALLEY	Non Coking	0-300	3570.32	743.61	298.17	4612.10	
		Non Coking	300-600	34.53	658.59	1125.90	1819.02	
		Non Coking	600-1200	0.00	13.37	0.00	13.37	
		<b>TOTAL</b>		<b>3604.85</b>	<b>1415.57</b>	<b>1424.07</b>	<b>6444.49</b>	
	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	
		<b>TOTAL</b>		<b>1276.14</b>	<b>1204.88</b>	<b>505.44</b>	<b>2986.46</b>	
	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	
		<b>TOTAL</b>		<b>308.41</b>	<b>0.00</b>	<b>160.70</b>	<b>469.11</b>	
	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	
		<b>TOTAL</b>		<b>468.08</b>	<b>483.95</b>	<b>0.00</b>	<b>952.03</b>	
	BOKHARA	Non Coking	0-300	10.00	0.00	20.00	30.00	
		<b>TOTAL</b>		<b>10.00</b>	<b>0.00</b>	<b>20.00</b>	<b>30.00</b>	
	<b>MAHARASHTRA</b>	<b>TOTAL</b>	<b>Non Coking</b>	<b>0-1200</b>	<b>5667.48</b>	<b>3104.40</b>	<b>2110.21</b>	<b>10882.09</b>
	<b>MAHARASHTRA</b>	<b>TOTAL</b>	<b>ALL</b>	<b>0-1200</b>	<b>5667.48</b>	<b>3104.40</b>	<b>2110.21</b>	<b>10882.09</b>
ORISSA	IB-RIVER	Non Coking	0-300	8309.03	5532.59	543.84	14385.46	
		Non Coking	300-600	166.59	3891.78	4564.32	8622.69	
		Non Coking	600-1200	0.00	27.52	0.00	27.52	
		<b>TOTAL</b>		<b>8475.62</b>	<b>9451.89</b>	<b>5108.16</b>	<b>23035.67</b>	
	TALCHER	Non Coking	0-300	16227.51	13230.11	2810.59	32268.21	
		Non Coking	300-600	844.53	12570.81	1048.70	14464.04	
		Non Coking	600-1200	0.00	1213.16	466.33	1679.49	
		<b>TOTAL</b>		<b>17072.04</b>	<b>27014.08</b>	<b>4325.62</b>	<b>48411.74</b>	
	<b>ORISSA</b>	<b>TOTAL</b>	<b>Non Coking</b>	<b>0-1200</b>	<b>25547.66</b>	<b>36465.97</b>	<b>9433.78</b>	<b>71447.41</b>
	<b>ORISSA</b>	<b>TOTAL</b>	<b>ALL</b>	<b>0-1200</b>	<b>25547.66</b>	<b>36465.97</b>	<b>9433.78</b>	<b>71447.41</b>

**Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2012)**

State	Field	Type of Coal	Depth (Mt.)	Reserve (Mill.Tonnes)			
				Proved	Indicated	Inferred	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ANDHRA PRADESH	GODAVARI VALLEY	Non Coking	0-300	6097.96	3403.97	152.24	<b>9654.17</b>
		Non Coking	300-600	3442.14	4708.23	604.37	<b>8754.74</b>
		Non Coking	600-1200	26.51	1441.71	2277.73	<b>3745.95</b>
		<b>TOTAL</b>	<b>0-1200</b>	<b>9566.61</b>	<b>9553.91</b>	<b>3034.34</b>	<b>22154.86</b>
<b>ANDHRA PRADESH</b>	<b>TOTAL</b>	<b>Non Coking</b>	<b>0-1200</b>	<b>9566.61</b>	<b>9553.91</b>	<b>3034.34</b>	<b>22154.86</b>
<b>ANDHRA PRADESH</b>	<b>TOTAL</b>	<b>ALL</b>	<b>0-1200</b>	<b>9566.61</b>	<b>9553.91</b>	<b>3034.34</b>	<b>22154.86</b>
SIKKIM	RANGIT VALLEY	Non Coking	0-300	0.00	58.25	42.98	<b>101.23</b>
<b>SIKKIM</b>	<b>TOTAL</b>	<b>Non Coking</b>	<b>0-1200</b>	<b>0.00</b>	<b>58.25</b>	<b>42.98</b>	<b>101.23</b>
ASSAM	SINGRIMARI	Non Coking	0-300	0.00	2.79	0.00	<b>2.79</b>
		High Sulphur	0-300	246.24	4.55	0.00	<b>250.79</b>
			300-600	185.85	16.15	0.00	<b>202.00</b>
	<b>TOTAL</b>			<b>432.09</b>	<b>20.70</b>	<b>0.00</b>	<b>452.79</b>
	DILLI-JEYPORE	High Sulphur	0-300	32.00	22.02	0.00	<b>54.02</b>
MIKIR HILLS	High Sulphur	0-300	0.69	0.00	3.02	<b>3.71</b>	
<b>ASSAM</b>	<b>TOTAL</b>	<b>Non Coking</b>	<b>0-1200</b>	<b>0.00</b>	<b>2.79</b>	<b>0.00</b>	<b>2.79</b>
<b>ASSAM</b>	<b>TOTAL</b>	<b>High Sulphur</b>	<b>0-1200</b>	<b>464.78</b>	<b>42.72</b>	<b>3.02</b>	<b>510.52</b>
<b>ASSAM</b>	<b>TOTAL</b>	<b>ALL</b>	<b>0-1200</b>	<b>464.78</b>	<b>45.51</b>	<b>3.02</b>	<b>513.31</b>
ARUNACHAL PRADESH	NAMCHIK-NAMPHUK	High Sulphur	0-300	31.23	40.11	12.89	<b>84.23</b>
ARUNACHAL PRADESH	MIAO BUM	High Sulphur	0-300	0.00	0.00	6.00	<b>6.00</b>
<b>ARUNACHAL PRADESH</b>	<b>TOTAL</b>	<b>High Sulphur</b>	<b>0-1200</b>	<b>31.23</b>	<b>40.11</b>	<b>18.89</b>	<b>90.23</b>
<b>ARUNACHAL PRADESH</b>	<b>TOTAL</b>	<b>ALL</b>	<b>0-1200</b>	<b>31.23</b>	<b>40.11</b>	<b>18.89</b>	<b>90.23</b>
MEGHALAYA	WEST-DARANGIRI	High Sulphur	0-300	65.40	0.00	59.60	<b>125.00</b>
	EAST DARANGIRI	High Sulphur	0-300	0.00	0.00	34.19	<b>34.19</b>
	BALPHAKRAM-PENDENGURU	High Sulphur	0-300	0.00	0.00	107.03	<b>107.03</b>
	SIJU	High Sulphur	0-300	0.00	0.00	125.00	<b>125.00</b>
	LANGRIN	High Sulphur	0-300	10.46	16.51	106.19	<b>133.16</b>
	MAWLONG SHELIA	High Sulphur	0-300	2.17	0.00	3.83	<b>6.00</b>

**Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2012)**

State	Field	Type of Coal	Depth (Mt.)	Reserve (Mill.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
<b>MEGHALAYA</b>	<b>TOTAL</b>	<b>High Sulphur</b>	<b>0-1200</b>	<b>89.04</b>	<b>16.51</b>	<b>470.93</b>	<b>576.48</b>
<b>MEGHALAYA</b>	<b>TOTAL</b>	<b>ALL</b>	<b>0-1200</b>	<b>89.04</b>	<b>16.51</b>	<b>470.93</b>	<b>576.48</b>
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
<b>NAGALAND</b>	<b>TOTAL</b>	<b>High Sulphur</b>	<b>0-1200</b>	<b>8.76</b>	<b>0.00</b>	<b>306.65</b>	<b>315.41</b>
<b>NAGALAND</b>	<b>TOTAL</b>	<b>ALL</b>	<b>0-1200</b>	<b>8.76</b>	<b>0.00</b>	<b>306.65</b>	<b>315.41</b>
INDIA	<b>TOTAL</b>	<b>Prime Coking</b>	<b>0-1200</b>	<b>4614.35</b>	<b>698.71</b>	<b>0.00</b>	<b>5313.06</b>
INDIA	<b>TOTAL</b>	<b>Medium Coking</b>	<b>0-1200</b>	<b>12836.84</b>	<b>11951.47</b>	<b>1880.23</b>	<b>26668.54</b>
INDIA	<b>TOTAL</b>	<b>Semi Coking</b>	<b>0-1200</b>	<b>482.16</b>	<b>1003.29</b>	<b>221.68</b>	<b>1707.13</b>
INDIA	<b>TOTAL</b>	<b>Non Coking</b>	<b>0-1200</b>	<b>99617.65</b>	<b>128416.04</b>	<b>30282.09</b>	<b>258315.78</b>
INDIA	<b>TOTAL</b>	<b>High Sulphur</b>	<b>0-1200</b>	<b>593.81</b>	<b>99.34</b>	<b>799.49</b>	<b>1492.64</b>
INDIA	<b>TOTAL</b>		<b>0-1200</b>	<b>118144.81</b>	<b>142168.85</b>	<b>33183.49</b>	<b>293497.15</b>
INDIA	<b>Total for Tertiary Coalfields</b>		<b>0-1200</b>	<b>593.81</b>	<b>99.34</b>	<b>799.49</b>	<b>1492.64</b>
INDIA	<b>Total for Gondwana Coalfields*</b>		<b>0-1200</b>	<b>117551.00</b>	<b>142069.51</b>	<b>32384.00</b>	<b>292004.51</b>
INDIA	<b>GRAND TOTAL</b>		<b>0-1200</b>	<b>118144.81</b>	<b>142168.85</b>	<b>33183.49</b>	<b>293497.15</b>

\* Including Sikkim

**TABLE 2.4: COAL RESERVE BY TYPE OF COAL AND DEPTH (as on 01-04-2012)**

State	Field	Type of Coal	Depth (Metre)	Reserve (Mill.Tonnes)			
				Proved	Indicated	Inferred	<b>Total</b>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
INDIA	<i>TOTAL (Jharia)</i>	Prime Coking	0-600	4039.41	4.01	0.00	<b>4043.42</b>
INDIA	<i>TOTAL (Jharia)</i>	Prime Coking	600-1200	574.94	694.70	0.00	<b>1269.64</b>
INDIA	<i>TOTAL ( Other than Jharia)</i>	Medium Coking	0-300	7342.12	4158.11	66.22	<b>11566.45</b>
INDIA	<i>TOTAL ( Other than Jharia)</i>	Medium Coking	300-600	878.31	4248.47	742.83	<b>5869.61</b>
INDIA	<i>TOTAL (Jharia)</i>	Medium Coking	0-600	4064.18	2.82	0.00	<b>4067.00</b>
INDIA	<i>TOTAL</i>	Medium Coking	600-1200	552.23	3542.07	1071.18	<b>5165.48</b>
INDIA	<i>TOTAL</i>	Semi Coking	0-300	339.86	125.97	0.55	<b>466.38</b>
INDIA	<i>TOTAL</i>	Semi Coking	300-600	109.51	572.25	76.38	<b>758.14</b>
INDIA	<i>TOTAL</i>	Semi Coking	600-1200	32.79	305.07	144.75	<b>482.61</b>
INDIA	<i>TOTAL</i>	High Sulphur	0-300	407.96	83.19	799.49	<b>1290.64</b>
INDIA	<i>TOTAL</i>	High Sulphur	300-600	185.85	16.15	0.00	<b>202.00</b>
INDIA	<i>TOTAL ( Other than Jharia)</i>	Non Coking	0-300	84161.39	66463.18	9894.48	<b>160519.05</b>
INDIA	<i>TOTAL ( Other than Jharia)</i>	Non Coking	300-600	9249.06	52408.05	15436.32	<b>77093.43</b>
INDIA	<i>TOTAL (Jharia)</i>	Non Coking	0-600	5606.74	495.26	0.00	<b>6102.00</b>
INDIA	<i>TOTAL</i>	Non Coking	600-1200	600.46	9049.55	4951.29	<b>14601.30</b>
<b>INDIA</b>	<b>TOTAL</b>	<b>Grand Total</b>	<b>0-1200</b>	<b>118144.81</b>	<b>142168.85</b>	<b>33183.49</b>	<b>293497.15</b>

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 01-04-2012)**  
(Figs. 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)
<b>WEST BENGAL</b>															
Raniganj	0-300	114.74	1544.42	3422.98	2753.81	1963.22	<b>9799.17</b>	32.26	199.03	518.67	503.92	532.52	<b>1786.40</b>	250.57	<b>11836.14</b>
	300-600	50.88	566.10	574.72	401.31	442.99	<b>2036.00</b>	103.70	759.14	1303.10	743.40	653.55	<b>3562.89</b>	2074.63	<b>7673.52</b>
	600-1200	0.00	18.53	19.54	28.81	11.07	<b>77.95</b>	156.63	391.71	562.98	418.43	383.92	<b>1913.67</b>	1636.86	<b>3628.48</b>
	0-1200	165.62	2129.05	4017.24	3183.93	2417.28	<b>11913.12</b>	292.59	1349.88	2384.75	1665.75	1569.99	<b>7262.96</b>	3962.06	<b>23138.14</b>
Barjora	0-300	0.00	0.00	0.00	0.00	114.27	<b>114.27</b>	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	<b>114.27</b>
Darjeeling	0-300	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	15.00	<b>15.00</b>
Birbhum	0-300	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	1.28	0.00	33.58	198.97	584.59	<b>818.42</b>	114.98	<b>933.40</b>
	300-600	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	45.10	1111.02	576.85	1919.26	<b>3652.23</b>	523.19	<b>4175.42</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	18.60	291.48	528.37	335.19	<b>1173.64</b>	48.58	<b>1222.22</b>
	0-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	1.28	63.70	1436.08	1304.19	2839.04	<b>5644.29</b>	686.75	<b>6331.04</b>
<b>Total</b>		<b>165.62</b>	<b>2129.05</b>	<b>4017.24</b>	<b>3183.93</b>	<b>2531.55</b>	<b>12027.39</b>	<b>293.87</b>	<b>1413.58</b>	<b>3820.83</b>	<b>2969.94</b>	<b>4409.03</b>	<b>12907.25</b>	<b>4663.81</b>	<b>29598.45</b>
<b>Jharkhand</b>															
Raniganj	0-300	0.00	3.04	51.03	190.45	867.01	<b>1111.53</b>	0.00	0.00	0.00	0.72	88.60	<b>89.32</b>	29.55	<b>1230.40</b>
	300-600	0.00	0.00	0.00	20.63	85.40	<b>106.03</b>	0.00	0.00	0.00	142.07	178.00	<b>320.07</b>	2.00	<b>428.10</b>
	600-1200	0.00	3.04	51.03	211.08	952.41	<b>1217.56</b>	0.00	0.00	0.00	142.79	266.60	<b>409.39</b>	31.55	<b>1658.50</b>
Jharia	0-600	63.39	42.84	86.59	460.30	4953.62	<b>5606.74</b>	6.08	2.27	1.25	9.34	476.32	<b>495.26</b>	0.00	<b>6102.00</b>
	600-1200	5.64	3.42	6.50	35.95	444.49	<b>496.00</b>	15.41	9.34	17.76	98.21	1214.28	<b>1355.00</b>	0.00	<b>1851.00</b>
	0-1200	69.03	46.26	93.09	496.25	5398.11	<b>6102.74</b>	21.49	11.61	19.01	107.55	1690.60	<b>1850.26</b>	0.00	<b>7953.00</b>
East	0-300	0.00	0.11	3.15	13.61	78.30	<b>95.17</b>	0.00	7.76	7.77	19.82	21.46	<b>56.81</b>	0.00	<b>151.98</b>
Bokaro	300-600	0.00	0.00	0.30	1.55	7.05	<b>8.90</b>	0.00	0.40	0.40	1.61	3.28	<b>5.69</b>	0.00	<b>14.59</b>
	0-600	0.00	0.11	3.45	15.16	85.35	<b>104.07</b>	0.00	8.16	8.17	21.43	24.74	<b>62.50</b>	0.00	<b>166.57</b>
West	0-300	0.00	1.26	14.15	45.93	207.23	<b>268.57</b>	0.00	0.02	0.11	0.11	9.13	<b>9.37</b>	0.00	<b>277.94</b>
Bokaro	300-600	0.00	0.00	0.38	1.44	3.99	<b>5.81</b>	0.00	0.00	0.30	1.15	3.21	<b>4.66</b>	0.00	<b>10.47</b>
	0-600	0.00	1.26	14.53	47.37	211.22	<b>274.38</b>	0.00	0.02	0.41	1.26	12.34	<b>14.03</b>	0.00	<b>288.41</b>
Ramgarh	0-300	0.00	0.00	0.00	3.50	3.63	<b>7.13</b>	0.00	0.00	0.00	13.10	13.10	<b>26.20</b>	4.60	<b>37.93</b>
North	0-300	37.21	66.56	143.92	968.35	7171.99	<b>8388.03</b>	6.56	1.19	4.05	308.19	2143.08	<b>2463.07</b>	722.03	<b>11573.13</b>
Karanpura	300-600	0.00	0.25	7.56	127.77	467.14	<b>602.72</b>	0.00	2.85	3.77	451.75	1168.27	<b>1626.64</b>	729.50	<b>2958.86</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	0.00	0.39	25.37	<b>25.76</b>	0.00	<b>25.76</b>
	0-1200	37.21	66.81	151.48	1096.12	7639.13	<b>8990.75</b>	6.56	4.04	7.82	760.33	3336.72	<b>4115.47</b>	1451.53	<b>14557.75</b>



**TABLE-2.5: GRADEWISE INVENTORY OF NON-COKING COAL RESERVE IN GONDWANA COALFIELDS OF INDIA (as on 01-04-2012)**  
(Figs. 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)
South	0-300	149.61	121.80	332.17	577.83	1335.94	<b>2517.35</b>	0.06	46.00	113.39	214.21	260.89	<b>634.55</b>	287.45	<b>3439.35</b>
Karanpura	300-600	10.57	19.80	30.19	47.08	123.10	<b>230.74</b>	1.46	69.15	104.23	235.03	353.80	<b>763.67</b>	644.03	<b>1638.44</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.83	12.09	37.00	43.49	43.53	<b>136.94</b>	252.51	<b>389.45</b>
	0-1200	160.18	141.60	362.36	624.91	1459.04	<b>2748.09</b>	2.35	127.24	254.62	492.73	658.22	<b>1535.16</b>	1183.99	<b>5467.24</b>
Aurangabad	0-300	0.00	0.00	0.00	0.04	352.01	<b>352.05</b>	0.00	8.04	11.03	134.71	1087.44	<b>1241.22</b>	43.07	<b>1636.34</b>
	300-600	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	22.33	95.19	749.49	<b>867.01</b>	423.07	<b>1290.08</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	0.00	14.74	18.68	<b>33.42</b>	37.27	<b>70.69</b>
	0-1200	0.00	0.00	0.00	0.04	352.01	<b>352.05</b>	0.00	8.04	33.36	244.64	1855.61	<b>2141.65</b>	503.41	<b>2997.11</b>
Hutar	0-300	28.39	56.51	41.01	40.23	24.65	<b>190.79</b>	4.22	5.00	5.00	0.00	0.00	<b>14.22</b>	32.48	<b>237.49</b>
	300-600	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	3.17	3.83	3.83	0.72	0.78	<b>12.33</b>	0.00	<b>12.33</b>
	0-600	28.39	56.51	41.01	40.23	24.65	<b>190.79</b>	7.39	8.83	8.83	0.72	0.78	<b>26.55</b>	32.48	<b>249.82</b>
Daltonganj	0-300	10.00	20.00	29.00	4.00	20.86	<b>83.86</b>	7.14	14.28	20.71	2.86	15.11	<b>60.10</b>	0.00	<b>143.96</b>
Deogarh	0-300	0.87	25.19	70.81	90.03	139.34	<b>326.24</b>	0.20	5.68	15.97	20.31	31.44	<b>73.60</b>	0.00	<b>399.84</b>
Rajmahal	0-300	0.00	0.56	52.15	138.48	2440.70	<b>2631.89</b>	0.34	27.73	321.51	1693.06	5812.58	<b>7855.22</b>	558.23	<b>11045.34</b>
	300-600	0.00	0.00	1.25	3.16	19.22	<b>23.63</b>	0.00	30.45	382.64	1259.40	2193.09	<b>3865.58</b>	1151.95	<b>5041.16</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	0.00	0.71	29.75	<b>30.46</b>	5.10	<b>35.56</b>
	0-1200	0.00	0.56	53.40	141.64	2459.92	<b>2655.52</b>	0.34	58.18	704.15	2953.17	8035.42	<b>11751.26</b>	1715.28	<b>16122.06</b>
<b>Total</b>		<b>305.68</b>	<b>361.34</b>	<b>870.16</b>	<b>2770.33</b>	<b>18745.67</b>	<b>23053.18</b>	<b>45.47</b>	<b>246.08</b>	<b>1073.05</b>	<b>4760.89</b>	<b>15940.68</b>	<b>22066.17</b>	<b>4922.84</b>	<b>50042.19</b>
<b>Bihar</b>															
Rajmahal	0-300	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	160.00	<b>160.00</b>
<b>Total</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>160.00</b>	<b>160.00</b>
<b>Madhya Pradesh</b>															
Johilla	0-300	0.31	36.17	70.29	44.33	33.98	<b>185.08</b>	0.00	32.52	32.59	17.25	21.73	<b>104.09</b>	32.83	<b>322.00</b>
Umaria	0-300	0.50	11.63	39.02	59.69	66.86	<b>177.70</b>	0.11	0.49	1.02	1.36	0.61	<b>3.59</b>	0.00	<b>181.29</b>
Pench-	0-300	53.94	153.23	292.81	276.59	308.17	<b>1084.74</b>	12.11	31.66	49.61	78.43	40.95	<b>212.76</b>	138.67	<b>1436.17</b>
Kanhan	300-600	17.61	41.15	61.68	59.47	32.76	<b>212.67</b>	3.84	65.44	74.81	6.57	26.18	<b>176.84</b>	394.02	<b>783.53</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.86	<b>0.86</b>
	0-600	71.55	194.38	354.49	336.06	340.93	<b>1297.41</b>	15.95	97.10	124.42	85.00	67.13	<b>389.60</b>	533.55	<b>2220.56</b>
Pathakhera	0-300	1.08	13.12	63.51	87.45	95.92	<b>261.08</b>	0.00	2.76	4.36	12.54	32.04	<b>51.70</b>	0.00	<b>312.78</b>
	300-600	0.00	0.22	4.73	13.63	11.14	<b>29.72</b>	0.00	0.00	2.72	14.68	19.03	<b>36.43</b>	68.00	<b>134.15</b>
	0-600	1.08	13.34	68.24	101.08	107.06	<b>290.80</b>	0.00	2.76	7.08	27.22	51.07	<b>88.13</b>	68.00	<b>446.93</b>
Gurgunda	0-300	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	0.00	0.00	47.39	<b>47.39</b>	0.00	<b>47.39</b>

**TABLE-2.5: GRADEWISE INVENTORY OF NON-COKING COAL RESERVE IN GONDWANA COALFIELDS OF INDIA (as on 01-04-2012)**  
(Figs. 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)
Mohpani	0-300	0.00	0.00	0.00	0.00	7.83	<b>7.83</b>	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	<b>7.83</b>
Sohagpur	0-300	114.59	238.21	426.68	354.36	344.14	<b>1477.98</b>	90.50	382.22	821.20	534.97	462.94	<b>2291.83</b>	57.74	<b>3827.55</b>
	300-600	0.00	0.00	0.40	0.27	0.60	<b>1.27</b>	111.13	386.29	482.02	273.89	251.09	<b>1504.42</b>	18.19	<b>1523.88</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.96	12.64	3.14	6.88	7.65	<b>31.27</b>	0.00	<b>31.27</b>
	0-1200	114.59	238.21	427.08	354.63	344.74	<b>1479.25</b>	202.59	781.15	1306.36	815.74	721.68	<b>3827.52</b>	75.93	<b>5382.70</b>
Singrauli	0-300	3.40	41.74	693.45	1090.33	3141.81	<b>4970.73</b>	43.51	304.78	845.57	578.42	793.73	<b>2566.01</b>	950.88	<b>8487.62</b>
	300-600	0.02	0.46	52.98	160.65	331.30	<b>545.41</b>	39.29	356.16	860.64	1210.88	1095.98	<b>3562.95</b>	767.51	<b>4875.87</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	17.14	42.63	47.22	25.22	9.05	<b>141.26</b>	75.38	<b>216.64</b>
	0-1200	3.42	42.20	746.43	1250.98	3473.11	<b>5516.14</b>	99.94	703.57	1753.43	1814.52	1898.76	<b>6270.22</b>	1793.77	<b>13580.13</b>
<b>Total</b>		<b>191.45</b>	<b>535.93</b>	<b>1705.55</b>	<b>2146.77</b>	<b>4374.51</b>	<b>8954.21</b>	<b>318.59</b>	<b>1617.59</b>	<b>3224.90</b>	<b>2761.09</b>	<b>2808.37</b>	<b>10730.54</b>	<b>2504.08</b>	<b>22188.83</b>
<b>Chhattisgarh</b>															
Sohagpur	0-300	23.20	35.40	29.02	4.92	1.76	<b>94.30</b>	0.43	1.28	6.99	0.96	0.42	<b>10.08</b>	0.00	<b>104.38</b>
Sonhat	0-300	14.31	35.83	20.00	12.80	18.06	<b>101.00</b>	0.00	9.21	51.22	291.53	584.43	<b>936.39</b>	0.00	<b>1037.39</b>
	300-600	1.25	19.37	5.45	1.65	0.00	<b>27.72</b>	11.71	129.29	201.72	373.10	143.55	<b>859.37</b>	1.89	<b>888.98</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.10	46.09	105.85	176.77	240.04	<b>568.85</b>	0.00	<b>568.85</b>
	0-1200	15.56	55.20	25.45	14.45	18.06	<b>128.72</b>	11.81	184.59	358.79	841.40	968.02	<b>2364.61</b>	1.89	<b>2495.22</b>
Jhilimili	0-300	64.86	49.70	27.40	15.02	71.22	<b>228.20</b>	14.02	10.11	7.78	0.66	6.33	<b>38.90</b>	0.00	<b>267.10</b>
Chirimiri	0-300	66.14	116.11	116.09	11.00	10.99	<b>320.33</b>	0.76	5.04	5.03	0.00	0.00	<b>10.83</b>	31.00	<b>362.16</b>
Bisrampur	0-300	97.83	257.49	158.79	215.22	256.73	<b>986.06</b>	15.37	141.69	138.34	127.23	206.01	<b>628.64</b>	0.00	<b>1614.70</b>
East of Bisrampur	0-300	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	14.95	5.59	28.17	77.54	38.57	<b>164.82</b>	0.00	<b>164.82</b>
Lakhanpur	0-300	4.22	44.21	125.23	135.25	146.97	<b>455.88</b>	0.00	0.00	0.03	0.79	2.53	<b>3.35</b>	0.00	<b>459.23</b>
Panchbahini	0-300	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.01	6.60	1.73	2.66	<b>11.00</b>	0.00	<b>11.00</b>
Hasdo-Arand	0-300	1.36	18.40	91.54	298.05	960.49	<b>1369.84</b>	61.42	147.06	637.16	1598.06	1145.96	<b>3589.66</b>	390.66	<b>5350.16</b>
	300-600	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	6.19	13.69	5.22	12.57	2.31	<b>39.98</b>	7.33	<b>47.31</b>
	0-600	1.36	18.40	91.54	298.05	960.49	<b>1369.84</b>	67.61	160.75	642.38	1610.63	1148.27	<b>3629.64</b>	397.99	<b>5397.47</b>
Sendurgarh	0-300	0.78	27.79	48.24	32.53	43.55	<b>152.89</b>	11.57	51.22	30.77	19.27	13.49	<b>126.32</b>	0.00	<b>279.21</b>
Korba	0-300	223.01	110.08	148.80	252.60	4352.70	<b>5087.19</b>	38.15	32.95	114.86	126.29	3332.05	<b>3644.30</b>	99.91	<b>8831.40</b>
	300-600	10.00	0.00	0.00	6.03	547.92	<b>563.95</b>	7.50	0.00	39.81	372.77	1872.12	<b>2292.20</b>	68.11	<b>2924.26</b>
	0-600	233.01	110.08	148.80	258.63	4900.62	<b>5651.14</b>	45.65	32.95	154.67	499.06	5204.17	<b>5936.50</b>	168.02	<b>11755.66</b>

**TABLE-2.5: GRADEWISE INVENTORY OF NON-COKING COAL RESERVE IN GONDWANA COALFIELDS OF INDIA (as on 01-04-2012)**  
(Figs. 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)
Mand-Raigarh	0-300	26.74	38.53	175.18	381.64	3652.23	<b>4274.32</b>	78.71	32.91	268.81	1793.13	9595.77	<b>11769.33</b>	1974.87	<b>18018.52</b>
	300-600	40.39	23.95	24.40	35.10	81.13	<b>204.97</b>	96.79	92.92	489.42	1762.84	3209.89	<b>5651.86</b>	634.09	<b>6490.92</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	82.03	162.49	365.88	<b>610.40</b>	0.00	<b>610.40</b>
	0-1200	67.13	62.48	199.58	416.74	3733.36	<b>4479.29</b>	175.50	125.83	840.26	3718.46	13171.54	<b>18031.59</b>	2608.96	<b>25119.84</b>
Tatapani-Ramkola	0-300	1.15	1.08	2.54	3.92	41.74	<b>50.43</b>	28.55	73.59	236.84	283.62	469.98	<b>1092.58</b>	24.85	<b>1167.86</b>
	300-600	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	44.04	46.30	208.37	253.43	445.33	<b>997.47</b>	177.34	<b>1174.81</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	17.73	12.42	30.74	49.79	191.99	<b>302.67</b>	0.00	<b>302.67</b>
	0-1200	1.15	1.08	2.54	3.92	41.74	<b>50.43</b>	90.32	132.31	475.95	586.84	1107.30	<b>2392.72</b>	202.19	<b>2645.34</b>
<b>Total</b>		<b>575.24</b>	<b>777.94</b>	<b>972.68</b>	<b>1405.73</b>	<b>10185.49</b>	<b>13917.08</b>	<b>447.99</b>	<b>851.37</b>	<b>2695.76</b>	<b>7484.57</b>	<b>21869.31</b>	<b>33349.00</b>	<b>3410.05</b>	<b>50676.13</b>
<b>Uttar Pradesh</b>															
Singrauli	0-300	0.00	0.00	8.05	275.80	600.19	<b>884.04</b>	0.00	0.00	0.00	99.09	78.67	<b>177.76</b>	0.00	<b>1061.80</b>
<b>Total</b>	<b>0-300</b>	<b>0.00</b>	<b>0.00</b>	<b>8.05</b>	<b>275.80</b>	<b>600.19</b>	<b>884.04</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>99.09</b>	<b>78.67</b>	<b>177.76</b>	<b>0.00</b>	<b>1061.80</b>
<b>Maharashtra</b>															
Wardha Valley	0-300	0.00	31.47	297.86	1644.17	1596.82	<b>3570.32</b>	0.00	23.75	46.03	322.15	351.68	<b>743.61</b>	298.17	<b>4612.10</b>
	300-600	0.00	0.00	1.59	21.17	11.77	<b>34.53</b>	0.00	39.55	89.22	194.39	335.43	<b>658.59</b>	1125.90	<b>1819.02</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	0.00	11.09	2.28	<b>13.37</b>	0.00	<b>13.37</b>
	0-1200	0.00	31.47	299.45	1665.34	1608.59	<b>3604.85</b>	0.00	63.30	135.25	527.63	689.39	<b>1415.57</b>	1424.07	<b>6444.49</b>
Kamptee	0-300	1.86	53.12	327.66	339.31	481.10	<b>1203.05</b>	5.13	12.02	113.36	190.87	262.45	<b>583.83</b>	41.76	<b>1828.64</b>
	300-600	0.00	0.91	23.86	28.82	19.50	<b>73.09</b>	16.64	21.73	178.33	153.33	237.33	<b>607.36</b>	324.96	<b>1005.41</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	6.77	0.00	0.31	2.22	4.39	<b>13.69</b>	138.72	<b>152.41</b>
	0-1200	1.86	54.03	351.52	368.13	500.60	<b>1276.14</b>	28.54	33.75	292.00	346.42	504.17	<b>1204.88</b>	505.44	<b>2986.46</b>
Umrer-Makardhokra	0-300	0.00	0.53	42.18	127.29	138.41	<b>308.41</b>	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	65.53	<b>373.94</b>
	300-600	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	83.22	<b>83.22</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	11.95	<b>11.95</b>
	0-1200	0.00	0.53	42.18	127.29	138.41	<b>308.41</b>	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	160.70	<b>469.11</b>
Nand-Bander	0-300	2.80	45.41	88.14	94.31	148.78	<b>379.44</b>	0.00	9.84	77.52	110.84	100.00	<b>298.20</b>	0.00	<b>677.64</b>
	300-600	0.06	5.18	18.80	6.76	57.84	<b>88.64</b>	0.00	11.45	72.33	41.06	44.15	<b>168.99</b>	0.00	<b>257.63</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	5.40	9.00	1.72	0.64	<b>16.76</b>	0.00	<b>16.76</b>
	0-1200	2.86	50.59	106.94	101.07	206.62	<b>468.08</b>	0.00	26.69	158.85	153.62	144.79	<b>483.95</b>	0.00	<b>952.03</b>
Bokhara	0-300	0.00	1.33	1.33	2.66	4.68	<b>10.00</b>	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	20.00	<b>30.00</b>
<b>Total</b>		<b>4.72</b>	<b>137.95</b>	<b>801.42</b>	<b>2264.49</b>	<b>2458.90</b>	<b>5667.48</b>	<b>28.54</b>	<b>123.74</b>	<b>586.10</b>	<b>1027.67</b>	<b>1338.35</b>	<b>3104.40</b>	<b>2110.21</b>	<b>10882.09</b>
<b>Orissa</b>															
Ib-River	0-300	0.33	4.30	46.01	260.18	7998.21	<b>8309.03</b>	4.15	32.68	92.11	895.14	4508.51	<b>5532.59</b>	543.84	<b>14385.46</b>
	300-600	0.00	5.47	18.15	23.20	119.77	<b>166.59</b>	15.86	142.20	209.76	495.67	3028.29	<b>3891.78</b>	4564.32	<b>8622.69</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.63	0.19	13.34	13.36	<b>27.52</b>	0.00	<b>27.52</b>
	0-1200	0.33	9.77	64.16	283.38	8117.98	<b>8475.62</b>	20.01	175.51	302.06	1404.15	7550.16	<b>9451.89</b>	5108.16	<b>23035.67</b>

**TABLE-2.5: GRADEWISE INVENTORY OF NON-COKING COAL RESERVE IN GONDWANA COALFIELDS OF INDIA (as on 01-04-2012)**  
(Figs. 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)
Talcher	0-300	22.08	201.62	226.56	425.42	15351.83	<b>16227.51</b>	64.40	189.28	390.19	1458.96	11127.28	<b>13230.11</b>	2810.59	<b>32268.21</b>
	300-600	0.01	1.24	1.81	20.32	821.15	<b>844.53</b>	49.42	200.96	346.57	1409.48	10564.38	<b>12570.81</b>	1048.70	<b>14464.04</b>
	600-1200	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	21.12	79.10	111.69	1001.25	<b>1213.16</b>	466.33	<b>1679.49</b>
Talcher	0-1200	22.09	202.86	228.37	445.74	16172.98	<b>17072.04</b>	113.82	411.36	815.86	2980.13	22692.91	<b>27014.08</b>	4325.62	<b>48411.74</b>
<b>Total</b>		<b>22.42</b>	<b>212.63</b>	<b>292.53</b>	<b>729.12</b>	<b>24290.96</b>	<b>25547.66</b>	<b>133.83</b>	<b>586.87</b>	<b>1117.92</b>	<b>4384.28</b>	<b>30243.07</b>	<b>36465.97</b>	<b>9433.78</b>	<b>71447.41</b>
<b>Andhra Pradesh</b>															
Godavari	0-300	45.13	230.04	1227.53	1264.51	3330.75	<b>6097.96</b>	46.51	99.35	290.73	454.14	2513.24	<b>3403.97</b>	152.24	<b>9654.17</b>
	300-600	25.76	175.34	684.55	1060.84	1495.65	<b>3442.14</b>	46.41	166.13	501.27	662.25	3332.17	<b>4708.23</b>	604.37	<b>8754.74</b>
	600-1200	2.17	3.56	1.66	7.52	11.60	<b>26.51</b>	8.19	150.48	230.39	361.74	690.91	<b>1441.71</b>	2277.73	<b>3745.95</b>
	0-1200	73.06	408.94	1913.74	2332.87	4838.00	<b>9566.61</b>	101.11	415.96	1022.39	1478.13	6536.32	<b>9553.91</b>	3034.34	<b>22154.86</b>
<b>Total</b>		<b>73.06</b>	<b>408.94</b>	<b>1913.74</b>	<b>2332.87</b>	<b>4838.00</b>	<b>9566.61</b>	<b>101.11</b>	<b>415.96</b>	<b>1022.39</b>	<b>1478.13</b>	<b>6536.32</b>	<b>9553.91</b>	<b>3034.34</b>	<b>22154.86</b>
<b>Assam</b>															
Singrimari	0-300	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	2.79	0.00	0.00	0.00	<b>2.79</b>	0.00	<b>2.79</b>
<b>Total</b>	<b>0-300</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2.79</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2.79</b>	<b>0.00</b>	<b>2.79</b>
<b>Sikkim</b>															
Rangit Valley	0-300	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	4.43	48.21	5.61	<b>58.25</b>	42.98	<b>101.23</b>
<b>Total</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>4.43</b>	<b>48.21</b>	<b>5.61</b>	<b>58.25</b>	<b>42.98</b>	<b>101.23</b>
<b>Grand Total</b>		<b>1338.19</b>	<b>4563.78</b>	<b>10581.37</b>	<b>15109.04</b>	<b>68025.27</b>	<b>99617.65</b>	<b>1369.40</b>	<b>5257.98</b>	<b>13545.38</b>	<b>25013.87</b>	<b>83229.41</b>	<b>128416.04</b>	<b>30282.09</b>	<b>258315.78</b>

Source: Geological Survey Of India

**TABLE - 2.6 : STATEWISE INVENTORY OF GEOLOGICAL RESERVE OF LIGNITE  
AS ON 1<sup>st</sup> APRIL 2010, 2011 & 2012**

As on	State	Resources (Mill.Tonnes)			
		Proved	Indicated	Inferred	<i>Total</i>
(1)	(2)	(3)	(4)	(5)	(6)
1/4/2010	Gujarat	1243.65	259.40	1159.70	<b>2662.75</b>
1/4/2011	Gujarat	1243.65	318.70	1159.70	<b>2722.05</b>
1/4/2012	Gujarat	1278.65	283.70	1159.70	<b>2722.05</b>
1/4/2010	J & K	0.00	20.25	7.30	<b>27.55</b>
1/4/2011	J & K	0.00	20.25	7.30	<b>27.55</b>
1/4/2012	J & K	0.00	20.25	7.30	<b>27.55</b>
1/4/2010	Kerala	0.00	0.00	9.65	<b>9.65</b>
1/4/2011	Kerala	0.00	0.00	9.65	<b>9.65</b>
1/4/2012	Kerala	0.00	0.00	9.65	<b>9.65</b>
1/4/2010	Pondicherry	0.00	405.61	11.00	<b>416.61</b>
1/4/2011	Pondicherry	0.00	405.61	11.00	<b>416.61</b>
1/4/2012	Pondicherry	0.00	405.61	11.00	<b>416.61</b>
1/4/2010	Rajasthan	1166.96	2136.47	1500.50	<b>4803.93</b>
1/4/2011	Rajasthan	1166.96	2148.72	1519.61	<b>4835.29</b>
1/4/2012	Rajasthan	1167.02	2152.59	1587.40	<b>4907.01</b>
1/4/2010	Tamilnadu	3735.23	22521.92	5718.70	<b>31975.85</b>
1/4/2011	Tamilnadu	3735.23	22900.05	6257.64	<b>32892.92</b>
1/4/2012	Tamilnadu	3735.23	22900.05	7242.85	<b>33878.13</b>
1/4/2010	West Bengal	0.00	0.29	0.86	<b>1.15</b>
1/4/2011	West Bengal	0.00	0.93	0.86	<b>1.79</b>
1/4/2012	West Bengal	0.00	0.93	0.86	<b>1.79</b>
<b>1/4/2010</b>	<b>All India</b>	<b>6145.84</b>	<b>25343.94</b>	<b>8407.71</b>	<b>39897.49</b>
<b>1/4/2011</b>	<b>All India</b>	<b>6145.84</b>	<b>25794.26</b>	<b>8965.76</b>	<b>40905.86</b>
<b>1/4/2012</b>	<b>All India</b>	<b>6180.90</b>	<b>25763.13</b>	<b>10018.76</b>	<b>41962.79</b>

Note: Figures compiled by Neyveli Lignite Corporation Ltd.

**Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 1.4.2012)**

(Mill.Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<b>Pandicherry</b>	<b>Neyveli lignite field</b>						
	Bahur	0-150	0.00	405.61	0.00	<b>405.61</b>	<b>405.61</b>
	West of Bahur	0-150	0.00	0.00	11.00	<b>11.00</b>	<b>11.00</b>
<b>Total for Pandicherry</b>			<b>0.00</b>	<b>405.61</b>	<b>11.00</b>	<b>416.61</b>	<b>416.61</b>
<b>Tamil Nadu</b>							
Cuddalore	NLC Leasehold areas	0-150	2831.00	134.00	138.00	<b>3103.00</b>	
	(Mine-I & Expansion, Mine 1A, II & Expansion, Mine III, Block B, Devangudi & areas locked up between Mine I, Mine II, Mine III and river)	150-300	0.00	0.00	24.00	<b>24.00</b>	<b>3127.00</b>
Cuddalore	South of Vellar(Srimushnam)	0-150	0.00	501.00	0.00	<b>501.00</b>	
		150-300	0.00	9.00	0.00	<b>9.00</b>	<b>510.00</b>
Cuddalore	Veeranam(Lalpettai)	150-300	0.00	1341.17	0.00	<b>1341.17</b>	
		>300	0.00	1.28	0.00	<b>1.28</b>	<b>1342.45</b>
	Eastern part of NLC leasehold area	>150	0.00	0.00	55.00	<b>55.00</b>	<b>55.00</b>
	Kullanchavadi	>150	0.00	0.00	175.00	<b>175.00</b>	<b>175.00</b>
	Kudikadu	0-150	0.00	0.00	133.38	<b>133.38</b>	<b>133.38</b>
	Bhuvanagiri-Kullanchavadi	150-300	0.00	0.00	385.40	<b>385.40</b>	<b>385.40</b>
	Eastern part of Neyveli	150-300	0.00	218.65	37.68	<b>256.33</b>	
		>300	0.00	156.86	149.13	<b>305.99</b>	<b>562.32</b>
	*Bahur	0-150	0.00	168.78	0.00	<b>168.78</b>	<b>168.78</b>
	*West of Bahur	0-150	0.00	0.00	102.19	<b>102.19</b>	<b>102.19</b>
Ariyalur	Meensuruti	0-150	0.00	0.00	458.00	<b>458.00</b>	<b>458.00</b>
	Jayamkondamcholapuram	0-150	904.23	302.50	0.00	<b>1206.73</b>	<b>1206.73</b>
	Michaelpatti	0-150	0.00	0.00	23.07	<b>23.07</b>	<b>23.07</b>
<b>Neyveli Lignite Fields</b>			<b>3735.23</b>	<b>3238.85</b>	<b>1691.85</b>	<b>8665.93</b>	<b>8665.93</b>
*(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 1.4.2012)**

(Mill.Tonnes)

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

**Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 1.4.2012)**

(Mill.Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ramanathapuram	Ramanathapuram lignite field						
	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
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
	<b>Ramanathapuram lignite field</b>		<b>0.00</b>	<b>168.83</b>	<b>1257.64</b>	<b>1426.47</b>	<b>1426.47</b>
<b>Total for Tamil Nadu</b>			<b>3735.23</b>	<b>22900.05</b>	<b>7242.85</b>	<b>33878.13</b>	<b>33878.13</b>
<b>Rajasthan</b>							
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
	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	



**Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 1.4.2012)**

(Mill.Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<b>Rajasthan</b> Bikaner	East of Riri	0-150	0.00	0.00	1.76	1.76	1.76
	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
	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	

**Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 1.4.2012)**

(Mill.Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<b>Rajasthan</b> Bikaner	Rneri	0-150	33.92	0.00	0.00	33.92	33.92
	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. of Bhane-ka-gaon	150-300	0.06	0.00	0.00	0.06	0.06
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
	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	

**Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 1.4.2012)**

(Mill.Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Mithra	0-150	0.00	0.09	0.39	<b>0.48</b>	
		150-300	0.00	0.45	1.53	<b>1.98</b>	<b>2.46</b>
	Hodu	0-300	0.00	78.17	80.55	<b>158.72</b>	
		>300	0.00	0.00	6.85	<b>6.85</b>	<b>165.57</b>
	Nimbalkot	0-100	0.00	0.00	8.97	<b>8.97</b>	
		100-300	0.00	0.00	85.49	<b>85.49</b>	
		>300	0.00	0.00	15.14	<b>15.14</b>	<b>109.60</b>
	Nimbalkot North	0-100	0.00	0.00	1.93	<b>1.93</b>	
		100-300	0.00	0.00	22.34	<b>22.34</b>	
		>300	0.00	0.00	3.45	<b>3.45</b>	<b>27.72</b>
	Nagurda	0-150	0.00	103.68	0.00	<b>103.68</b>	
		150-300	0.00	127.87	0.00	<b>127.87</b>	
		>300	0.00	0.70	0.00	<b>0.70</b>	<b>232.25</b>
	Nagurda (East)	0-150	0.00	18.46	0.00	<b>18.46</b>	
		150-300	0.00	3.23	0.00	<b>3.23</b>	<b>21.69</b>
	Munabao	150-300	0.00	0.00	9.85	<b>9.85</b>	<b>9.85</b>
	Kawas Gravity Block	150-300	0.00	0.00	53.03	<b>53.03</b>	<b>53.03</b>
	South of Nimbla	0-150	0.00	0.00	96.39	<b>96.39</b>	
		150-300	0.00	0.00	13.21	<b>13.21</b>	<b>109.60</b>
	Magne-ki-Dhani	0-150	0.00	0.00	8.78	<b>8.78</b>	
		150-300	0.00	0.00	3.91	<b>3.91</b>	
		>300	0.00	0.00	0.04	<b>0.04</b>	<b>12.74</b>
Jaisalmer & barmer	Khuri	0-300	0.00	0.00	13.80	<b>13.80</b>	<b>13.80</b>
Jaisalmer	Ramgarh	0-150	0.00	0.00	40.96	<b>40.96</b>	
		150-300	0.00	0.00	4.30	<b>4.30</b>	<b>45.26</b>

**Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 1.4.2012)**

(Mill.Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Nagaur & Pali	Kasnau-Igiar	0-150	64.90	0.00	0.00	<b>64.90</b>	<b>64.90</b>
	Matasukh	0-150	10.10	0.00	0.00	<b>10.10</b>	<b>10.10</b>
	Mokala	0-150	0.00	29.00	0.00	<b>29.00</b>	<b>29.00</b>
	Nimbri-Chandawatan	0-150	9.00	0.00	0.00	<b>9.00</b>	<b>9.00</b>
	Kapriion-ka-Dhani	0-150	17.00	0.00	0.00	<b>17.00</b>	<b>17.00</b>
	Merta Road & Meeranagar	0-150	0.00	23.90	59.35	<b>83.25</b>	<b>83.25</b>
	Indawar	0-150	12.00	0.00	0.00	<b>12.00</b>	<b>12.00</b>
	Kuchera	0-150	0.00	0.00	1.00	<b>1.00</b>	<b>1.00</b>
	Lunsara	0-300	0.00	7.17	0.00	<b>7.17</b>	<b>7.17</b>
	Phalki	0-150	0.00	0.18	0.00	<b>0.18</b>	
		150-300	0.00	0.32	0.00	<b>0.32</b>	<b>0.50</b>
Jalore	Sewara	150-300	0.00	0.00	33.43	<b>33.43</b>	
		>300	0.00	0.00	42.65	<b>42.65</b>	<b>76.08</b>
<b>Total for Rajasthan</b>			<b>1167.02</b>	<b>2152.59</b>	<b>1587.40</b>	<b>4907.01</b>	<b>4907.01</b>
<b>Gujarat</b>							
Kachchh	Panandhro	0-150	98.00	0.00	0.00	<b>98.00</b>	<b>98.00</b>
	Panandhro Ext.	0-150	0.00	0.00	14.45	<b>14.45</b>	<b>14.45</b>
	Barkhan Dam	0-150	0.00	0.00	7.19	<b>7.19</b>	<b>7.19</b>
	Kaiyari Block-A	0-150	40.36	20.30	0.00	<b>60.66</b>	<b>60.66</b>
	Kaiyari Block-B	0-150	0.00	10.52	0.00	<b>10.52</b>	<b>10.52</b>
	Mata-No-Madh	0-150	34.00	0.00	0.00	<b>34.00</b>	<b>34.00</b>
	Umarsar	0-150	19.47	0.00	0.00	<b>19.47</b>	<b>19.47</b>

**Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 1.4.2012)**

(Mill.Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Lakhpat-Dhedadi(Punahrajpur)	0-150	49.00	24.30	0.00	<b>73.30</b>	<b>73.30</b>
	Akrimota	0-150	91.78	0.00	0.00	<b>91.78</b>	<b>91.78</b>
	Jhularai-Waghapadar	0-150	3.00	0.00	0.00	<b>3.00</b>	<b>3.00</b>
	Hamla-Ratadia	0-150	0.00	0.00	3.00	<b>3.00</b>	<b>3.00</b>
	Pranpur	0-300	0.00	1.28	8.45	<b>9.73</b>	<b>9.73</b>
Bhavnagar	Kharsalia,Rampur,Hoidad, Bhuteshwar, Surka etc.	0-300	0.00	0.00	299.17	<b>299.17</b>	<b>299.17</b>
Bharuch	Bhuri	0-150	10.59	31.56	0.00	<b>42.15</b>	<b>42.15</b>
	Valia,Bhaga,Luna,Pansoli, Nani Pardi etc.	0-150	225.88	0.00	0.00	<b>225.88</b>	
		>150	232.50	0.00	0.00	<b>232.50</b>	
		0-300	251.68	87.03	178.47	<b>517.18</b>	<b>975.56</b>
	Bhimpur	0-150	3.60	0.00	0.00	<b>3.60</b>	
		150-300	0.51	0.00	0.00	<b>0.51</b>	<b>4.11</b>
	Rajpardi (GMDC leasehold) byMECL	0-150	0.00	0.00	20.72	<b>20.72</b>	<b>20.72</b>
	Rajpardi (CGM) by MECL	0-300	0.00	0.00	292.04	<b>292.04</b>	<b>292.04</b>
Surat	Tadkeswar	0-300	0.00	0.00	123.10	<b>123.10</b>	<b>123.10</b>
	Dungra	0-300	0.00	0.00	92.52	<b>92.52</b>	<b>92.52</b>
	East of Kamrej-Vesma	150-300	0.00	0.00	7.92	<b>7.92</b>	<b>7.92</b>
Surat	Tadkeswar Block-Mongrol, Mandvi, Vastan, Nani Naroli,Ghala etc.	0-300	218.28	108.71	112.67	<b>439.66</b>	<b>439.66</b>
<b>Total for Gujarat</b>			<b>1278.65</b>	<b>283.70</b>	<b>1159.70</b>	<b>2722.05</b>	<b>2722.05</b>

**Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 1.4.2012)**

(Mill.Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<b>J &amp; K</b>							
Kupwara	Nichahom	0-150	0.00	20.25	0.00	<b>20.25</b>	<b>20.25</b>
	Nichahom-Budhasung	0-150	0.00	0.00	7.30	<b>7.30</b>	<b>7.30</b>
<b>Total for J &amp; K</b>			<b>0.00</b>	<b>20.25</b>	<b>7.30</b>	<b>27.55</b>	<b>27.55</b>
<b>Kerala</b>							
Kannanur	Madayi	0-150	0.00	0.00	5.60	<b>5.60</b>	<b>5.60</b>
	Nileswaram	0-150	0.00	0.00	2.50	<b>2.50</b>	<b>2.50</b>
	Kadamkottumala	0-150	0.00	0.00	1.00	<b>1.00</b>	<b>1.00</b>
	Kayyur	0-150	0.00	0.00	0.55	<b>0.55</b>	<b>0.55</b>
<b>Total for Kerala</b>			<b>0.00</b>	<b>0.00</b>	<b>9.65</b>	<b>9.65</b>	<b>9.65</b>
<b>West Bengal</b>							
	Rakshitpur	0-150	0.00	0.29	0.86	<b>1.15</b>	<b>1.15</b>
	Mahalla	150-300	0.00	0.64	0.00	<b>0.64</b>	<b>0.64</b>
<b>Total for West Bengal</b>			<b>0.00</b>	<b>0.93</b>	<b>0.86</b>	<b>1.79</b>	<b>1.79</b>
<b>Grand Total for all States</b>			<b>6180.90</b>	<b>25763.13</b>	<b>10018.76</b>	<b>41962.79</b>	<b>41962.79</b>

**Table 2.8: PROMOTIONAL EXPLORATION (DRILLING IN METRES) DURING 2004-05 TO 2011-12**

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
<b>2004-05</b>	<b>All Agencies</b>	<b>62426</b>	<b>15110</b>	<b>57026</b>	<b>134562</b>
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
<b>2005-06</b>	<b>All Agencies</b>	<b>62721</b>	<b>16786</b>	<b>58981</b>	<b>138488</b>
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
<b>2006-07</b>	<b>All Agencies</b>	<b>51675</b>	<b>18212</b>	<b>31721</b>	<b>101608</b>
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
<b>2002-2007(X Plan)</b>	<b>All Agencies</b>	<b>273978</b>	<b>86022</b>	<b>263489</b>	<b>623489</b>
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
<b>2007-08</b>	<b>All Agencies</b>	<b>53028</b>	<b>17154</b>	<b>45350</b>	<b>115532</b>
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
<b>2008-09</b>	<b>All Agencies</b>	<b>49666</b>	<b>14730</b>	<b>62417</b>	<b>126813</b>
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
<b>2009-10</b>	<b>All Agencies</b>	<b>35983</b>	<b>12303</b>	<b>61047</b>	<b>109333</b>
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
<b>2010-11</b>	<b>All Agencies</b>	<b>35627</b>	<b>9638</b>	<b>57403</b>	<b>102668</b>
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
<b>2011-12</b>	<b>All Agencies</b>	<b>34930</b>	<b>9228</b>	<b>49564</b>	<b>93722</b>

**Table 2.9 : DETAILED EXPLORATION (DRILLING IN METERS) DURING IX PLAN & 2002-2011**

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	
<b>1997-02 (IX Plan)</b>	<b>All Agencies</b>	<b>Total</b>	<b>195787</b>		<b>167294</b>	<b>73914</b>	<b>226882</b>	<b>371436</b>	<b>203063</b>	<b>2461</b>	<b>1240837</b>	<b>251379</b>
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
<b>2002-2007(X Plan)</b>	<b>All Agencies</b>	<b>Total</b>	<b>98354</b>	<b>8391</b>	<b>129728</b>	<b>60175</b>	<b>118415</b>	<b>283519</b>	<b>254631</b>	<b>0</b>	<b>951184</b>	<b>332173</b>
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	
<b>2007-08</b>	<b>All Agencies</b>	<b>Total</b>	<b>22353</b>	<b>0</b>	<b>32145</b>	<b>12468</b>	<b>33470</b>	<b>58626</b>	<b>47147</b>	<b>0</b>	<b>206209</b>	<b>78380</b>
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	
<b>2008-09</b>	<b>All Agencies</b>	<b>Total</b>	<b>25666</b>	<b>5259</b>	<b>37164</b>	<b>14104</b>	<b>37649</b>	<b>82538</b>	<b>60602</b>	<b>3733</b>	<b>266715</b>	<b>84686</b>
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	
<b>2009-10</b>	<b>All Agencies</b>	<b>Total</b>	<b>48701</b>	<b>19751</b>	<b>39137</b>	<b>32371</b>	<b>41784</b>	<b>202667</b>	<b>71867</b>	<b>10906</b>	<b>467184</b>	<b>92314</b>
2010-11	DEPARTMENTAL	CIL	31779		40504	17954	21724	73999	15056	0	201016	
2010-11	DEPARTMENTAL	Non-CIL					21238	0	45805		67043	101903
<b>2010-11</b>	<b>DEPARTMENTAL</b>	<b>Total</b>	<b>31779</b>		<b>40504</b>	<b>17954</b>	<b>42962</b>	<b>73999</b>	<b>60861</b>		<b>268059</b>	<b>101903</b>
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	
<b>2010-11</b>	<b>Private /Contractual</b>	<b>Total</b>	<b>23571</b>	<b>14046</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150213</b>	<b>0</b>	<b>536</b>	<b>188366</b>	
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
<b>2010-11</b>	<b>All Agencies</b>	<b>Total</b>	<b>55350</b>	<b>17634</b>	<b>40504</b>	<b>31040</b>	<b>42962</b>	<b>239359</b>	<b>64407</b>	<b>536</b>	<b>491792</b>	<b>101903</b>
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	
<b>2011-12</b>	<b>DEPARTMENTAL</b>	<b>Total</b>	<b>28920</b>		<b>44631</b>	<b>18435</b>	<b>40964</b>	<b>83654</b>	<b>56415</b>		<b>273019</b>	<b>100325</b>
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	
<b>2011-12</b>	<b>Private /Contractual</b>	<b>Total</b>	<b>3875</b>	<b>13731</b>	<b>20138</b>	<b>0</b>	<b>0</b>	<b>84641</b>	<b>0</b>	<b>0</b>	<b>122385</b>	
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
<b>2011-12(XI Plan)</b>	<b>All Agencies</b>	<b>Total</b>	<b>32795</b>	<b>17197</b>	<b>64769</b>	<b>41516</b>	<b>40964</b>	<b>241107</b>	<b>60078</b>	<b>0</b>	<b>498426</b>	<b>109553</b>



# Section III

## Production & Productivity

### 3.1 Production

3.1.1 Coal production in India (including lignite) in the year 2011-12 reached 582.282 MT and registered an increase of 2.1% over the last year. The production of coal excluding lignite was 539.950 MT and the increase in this case over the last year was 1.4%. In case of lignite, the production increased from 37.733 MT to 42.332 MT registering an increase of 12.2% over the last year.

3.1.2 Statement 3.1 shows production of coal in 2011-12 by different companies.

Company	Coal Production (2011-12) [MT]		
	Coking	Non-coking	Total
ECL	0.051	30.507	30.558
BCCL	27.250	2.957	30.207
CCL	15.549	32.455	48.004
NCL		66.401	66.401
WCL	0.319	42.791	43.110
SECL	0.189	113.648	113.837
MCL		103.119	103.119
NEC		0.602	0.602
CIL	43.358	392.480	435.838
SCCL		52.211	52.211
Other Public	0.802	1.904	2.706
Total Public	44.160	446.595	490.755
Total Private	7.500	41.695	49.195
ALL INDIA	51.660	488.290	539.950

It can be seen that the Coal India Ltd. accounted for 80.72% of coal production in the country. The share of SCCL in the coal production was 9.67% and the contribution of private sector was 9.11%. In the CIL group, the major contributors were SECL, MCL and NCL with share of 21.08%, 19.10%, and 12.30% respectively at all India level. These companies collectively accounted for 52.48% 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 (90.43%). Statement 3.2 shows that almost all coking coals were produced in the state of Jharkhand which accounted for 98.9% of the total coking coal production. From Table 3.2 it can be seen that in 2011-12, the production of coking coal registered an increase of 4.3% over the previous year whereas the corresponding increase in the case of non-coking coal was 1.1%. In case of coking coal, Metallurgical coal with the production of 16.24 MT registered an decrease of 8.2% and non-metallurgical coal with the production of 35.42 MT registered an increase of 11.2%.

3.1.4 Statement 3.2 shows the coal production in India in 2011-12 by states. It is observed that the three major players are Chhattisgarh (21.11%), Jharkhand (20.29%) and Odisha (19.53%) which together accounted for about 61% of the total coal production in the country.

States	Coal Production (2011-12) [MT]		
	Coking	Non Coking	Total
Andhra Pradesh		52.211	52.211
Arunachal Pradesh		0.221	0.221
Assam		0.602	0.602
Chhattisgarh	0.189	113.769	113.958
Jammu & Kashmir		0.020	0.020
Jharkhand	51.108	58.458	109.566
Madhya Pradesh	0.319	70.804	71.123
Maharashtra	0.000	39.159	39.159
Meghalaya		7.206	7.206
Orissa		105.476	105.476
Uttar Pradesh		16.178	16.178
West Bengal	0.044	24.186	24.230
Total Public	44.160	446.595	490.755
Total Private	7.500	41.695	49.195
All India	51.660	488.290	539.950

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 90.38% of the total coal production and the rest 9.62% 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 81.49% (2002-03) to 90.38% (2011-12).

3.1.6 The production of coal products registered a decline from 40.56 MT (2010-11) to 39.24 MT. From Table 3.3, it can be seen that in 2011-12, Washed Coal (Coking), Washed Coal (N-Coking), Middlings (Coking), Middlings (N-Coking) and Hard Coke registered increase of -6.6%, 6.2%, -20.9%, 2.2% and -8.1% respectively over the previous year. It is important to note that in 2011-12, the production of washed coal was 21.93 MT (coking 6.5 MT and non-coking 15.44 MT) against the total production of 539.950 MT of coal (coking 51.660MT and non-coking 488.290 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 2011-12, the stripping ratio at all India level was 2.2. The corresponding figure for the year 2010-11 was 2.27. The stripping ratio in 2011-12 for CIL was 1.85. The corresponding figure for the public sector as a whole was 2.16 and the same for the private sector was 2.85. In case of CIL companies, MCL reported the lowest stripping ratio of 0.85 against the production of 100.93 MT of coal whereas NEC reported the highest stripping ratio of 7.48 with the production of 0.6 MT of coal. In case of CIL companies, WCL reported the second highest stripping ratio of 3.53 with the production of 34.72 MT of coal.

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 in all case of open cast mining the OMS in the current year has been higher than that of previous year. 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 and in case of

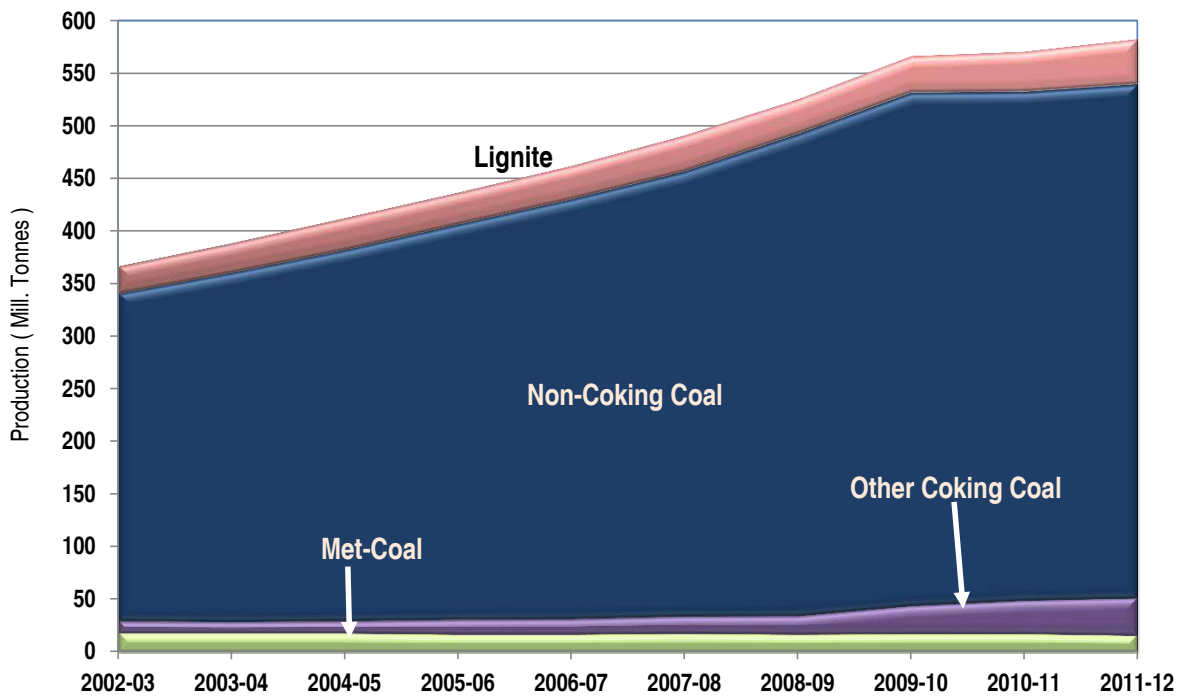
CIL it has increased from 6.30 (2002-03) to 10.40 (2011-12). The corresponding increase in case of SCCL has been from 6.76 (2002-03) to 13.26 (2011-12). Further details on the issue can be seen from the details tables (table 3.20 and 3.21).

Statement 3.3: OMS (Tonne) in OC & UG MINES in 2010-11 & 2011-12 ( CIL & SCCL )			
Year		2010-11	2011-12
OMS ( OC)	CIL	10.06	10.4
	SCCL	11.98	13.26
OMS ( UG)	CIL	0.77	0.75
	SCCL	1.1	1.1
OMS (OVERALL)	CIL	4.74	4.92
	SCCL	3.59	3.94

**3.1.9 Lignite Production:** In case of lignite the two major players were NLC and GMDCL with contribution of 58.09% and 26.80% respectively. The increase of 12.2% in the lignite production in 2011-12 was in succession of the 10.10.75% increase in the production of the lignite in the year 2010-11. During the year 2011-12, the major player, NLC registered an increase of 6.25% over the last year. The second major player GMDCL registered corresponding increase of 10.86%. Clearly, overall better increase of 12.2% was due to contribution of smaller players like RSMML which with a contribution of 2.12 MT registered an increase of 140%. Statement 3.4 shows production of lignite by different companies in 2010-11 and 2011-12.

Statement 3.4: Lignite Production(MT) in India by Company in 2010-11 & 2011-12		
Company	2010-11	2011-12
(1)	(2)	(3)
NLC	23.144	24.590
GMDCL	10.232	11.343
GIPCL	2.521	3.042
RSMML	0.883	2.120
GHCL	0.311	0.394
VS LIGNITE	0.642	0.843
ALL INDIA	37.733	42.332

**Chart III.1 - Area Graph : Trend of Production of Different types of Solid Fossil Fuel during 2002-2003 to 2011-2012**

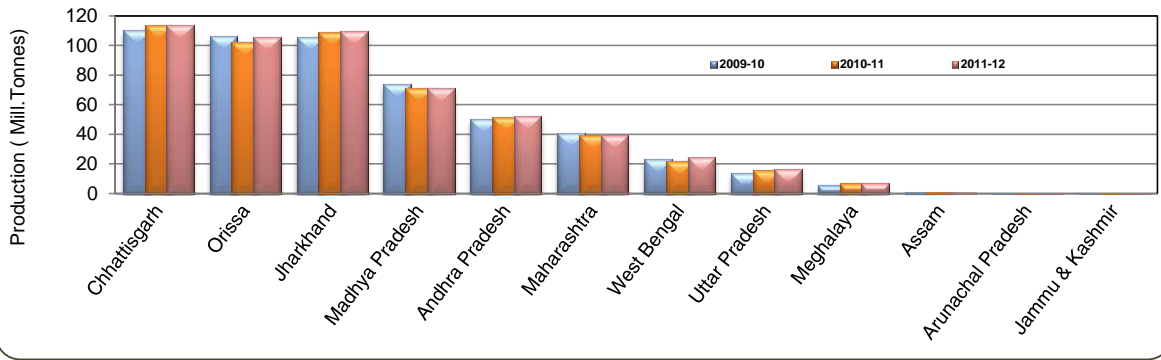


**Production of different types of solid fossil fuels during 2002-03 TO 2011-12 (Mill.Tonnes).**

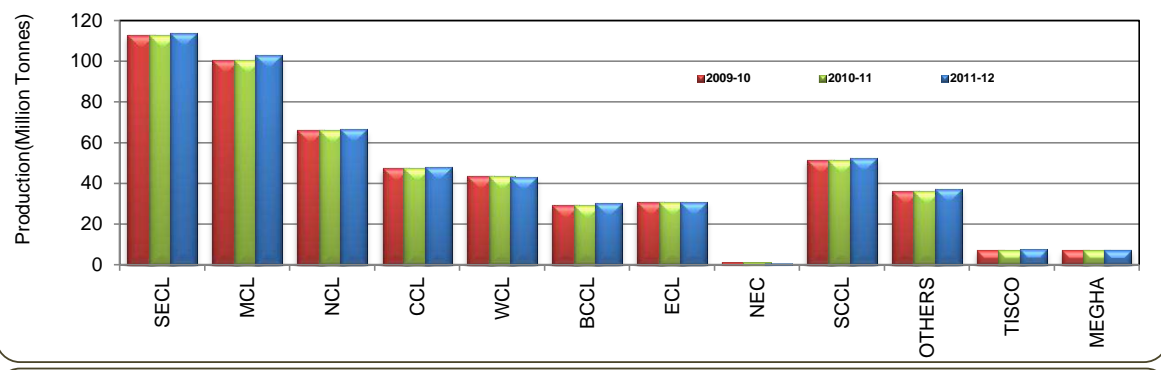
Year -->	Met Coal	Other-Ckg	Coking	Non-Coking	Raw Coal	Lignite
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2002-03	18.353	11.842	30.195	311.077	341.272	26.018
2003-04	18.268	11.133	29.401	331.845	361.246	27.958
2004-05	18.194	12.03	30.224	352.391	382.615	30.411
2005-06	17.123	14.388	31.511	375.528	407.039	30.066
2006-07	17.231	14.866	32.097	398.735	430.832	31.285
2007-08	18.065	16.39	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

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.

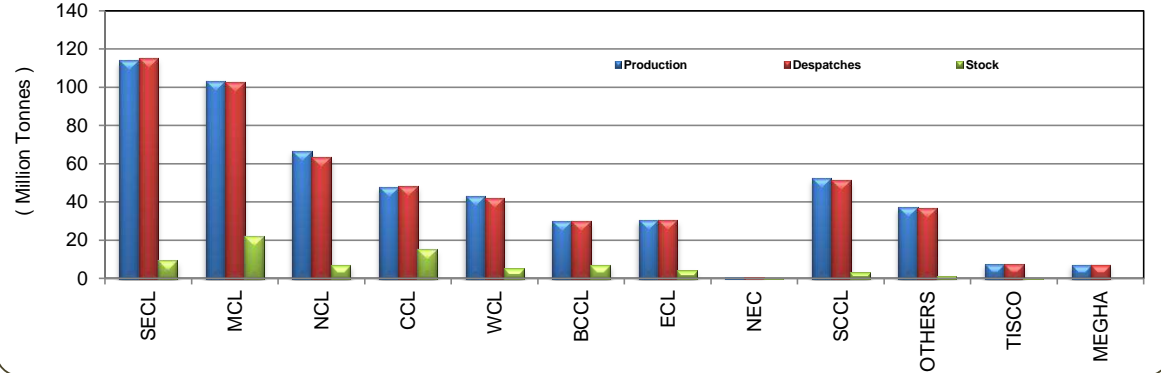
**Ch-III.2: Statewise Production of Raw Coal in last Three Years**



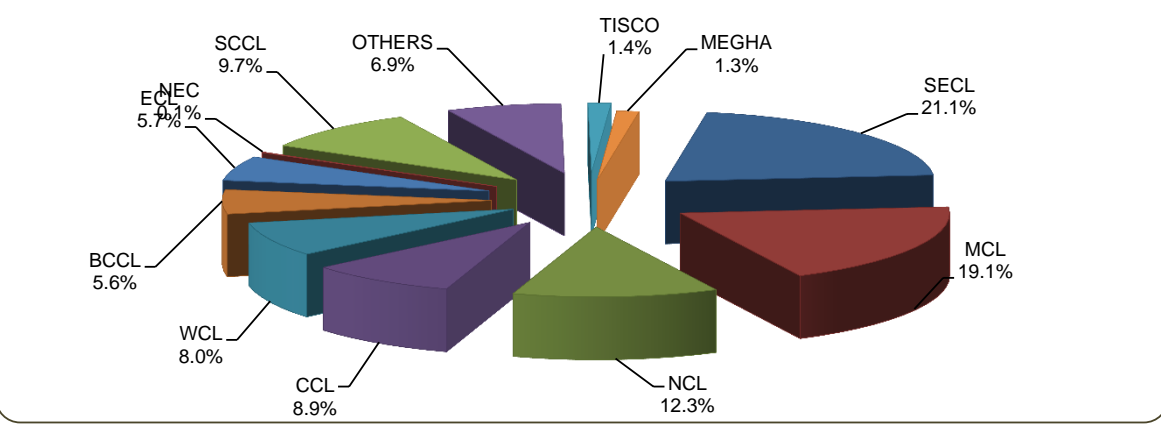
**Ch-III.3 Companywise Production of Raw Coal in last Three Years**



**Ch-III.4: Production, Despatches & Stock Companywise in 2011-12**



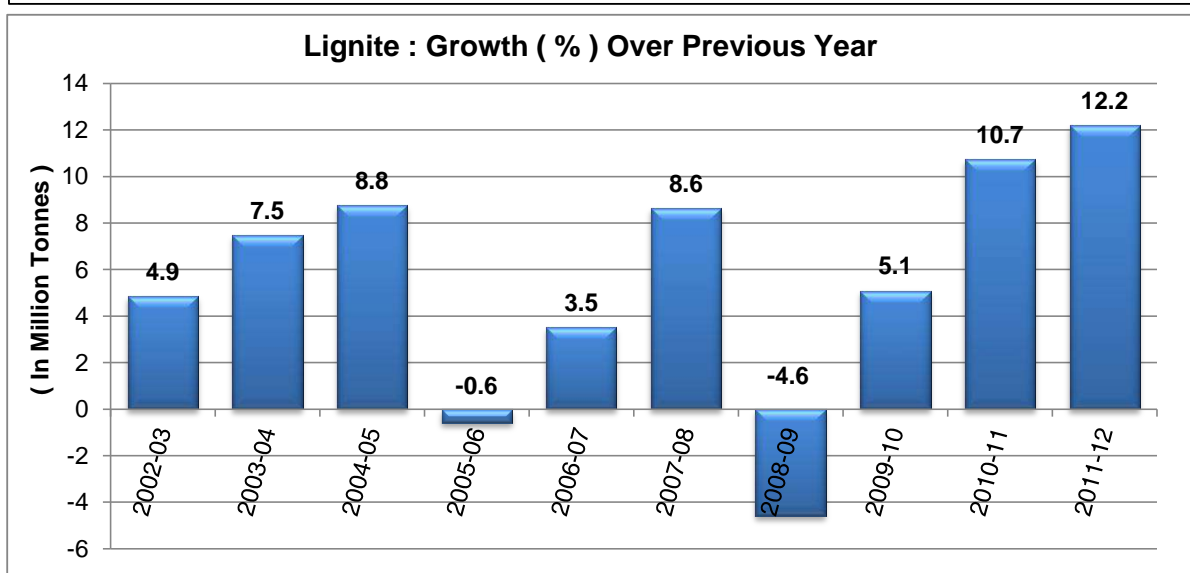
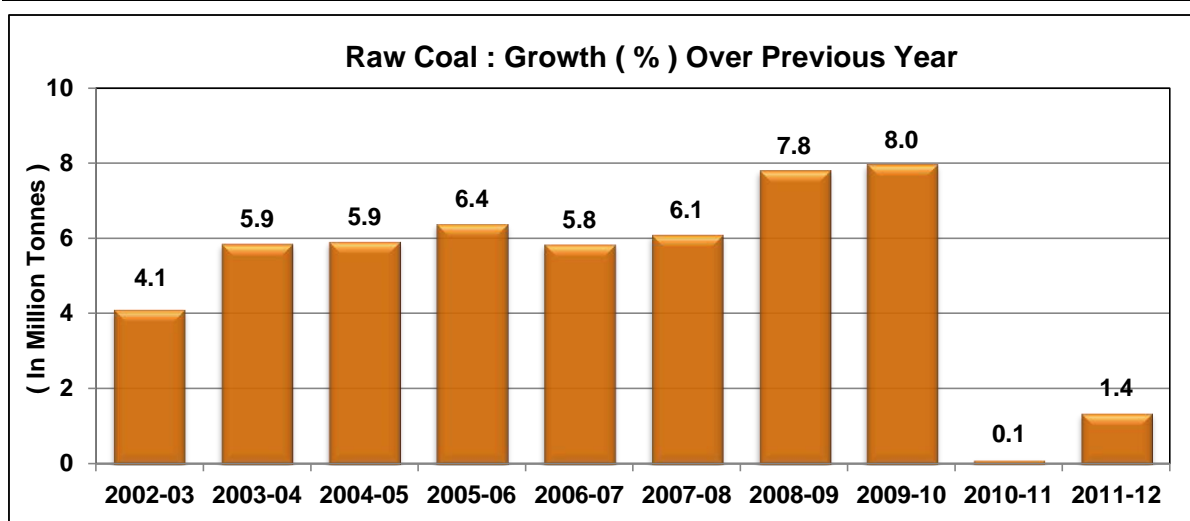
**Ch-III.5: Company Share of Production of Raw Coal in 2011-12**



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

(Million Tonnes)

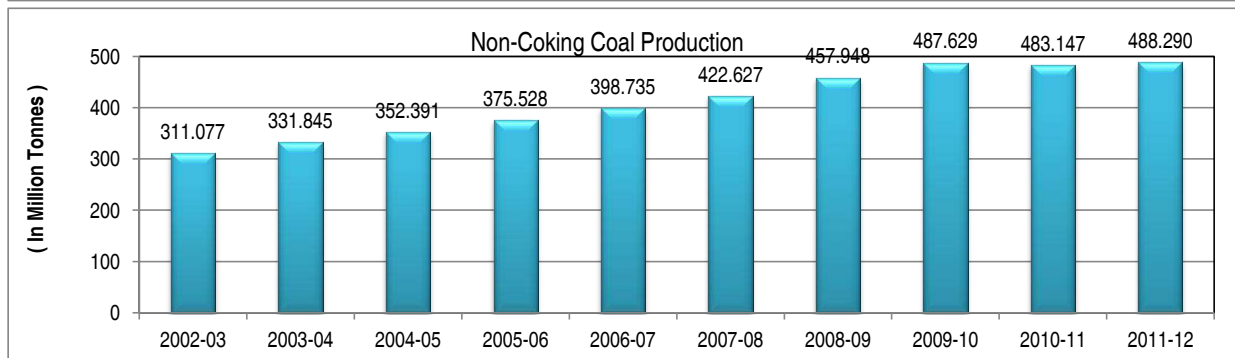
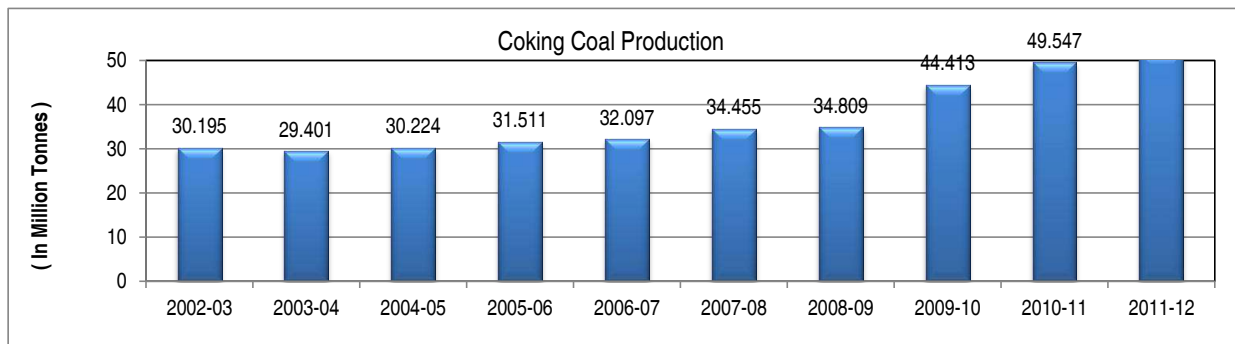
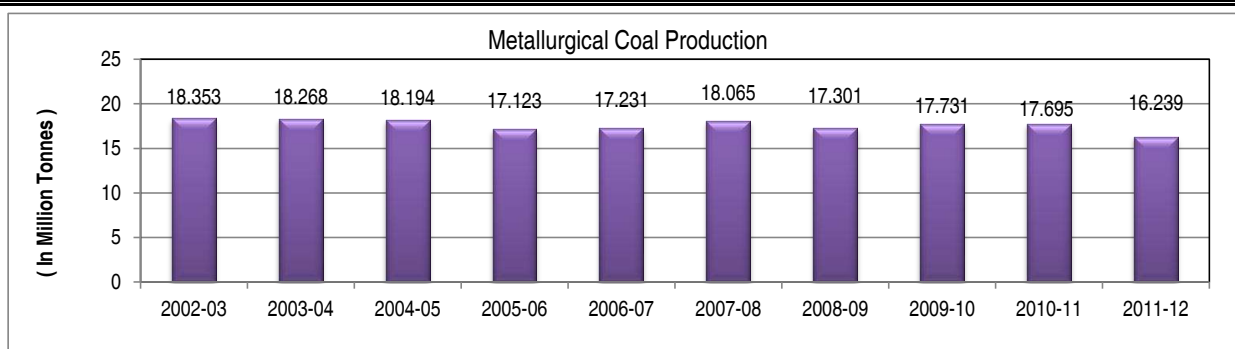
Year	Raw Coal			Lignite			Total Solid Fossil Fuel	
	Production	Share in total solid fossil fuel (%)	Growth over previous year (%)	Production	Share in total solid fossil fuel (%)	Growth over previous year (%)	Production	Growth over previous year (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2002-03	341.272	92.9	4.1	26.018	7.1	4.9	367.290	4.2
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



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

(Million Tonnes)

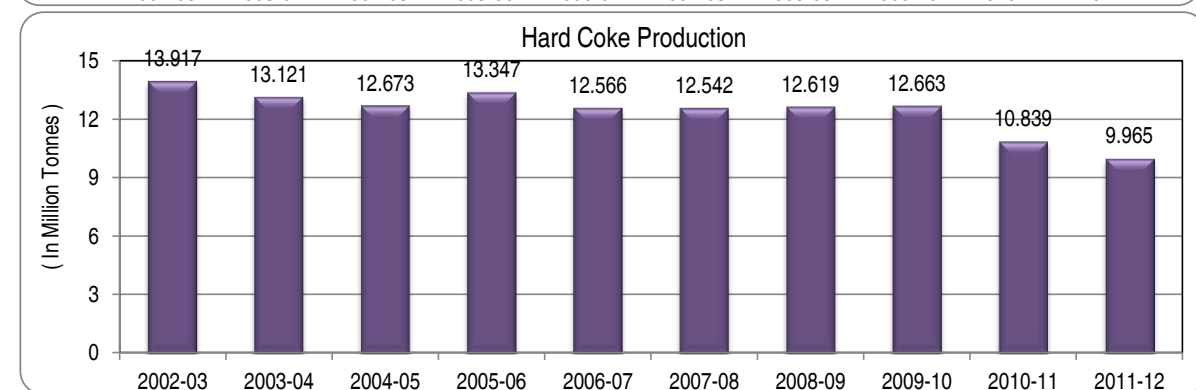
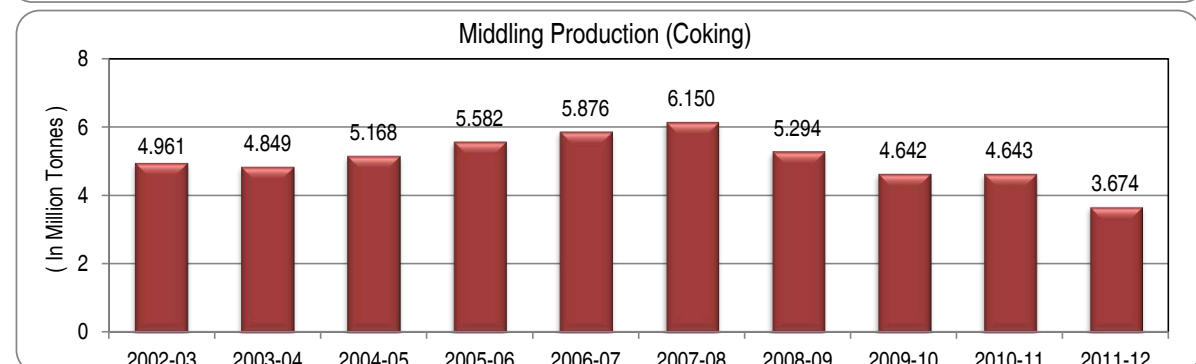
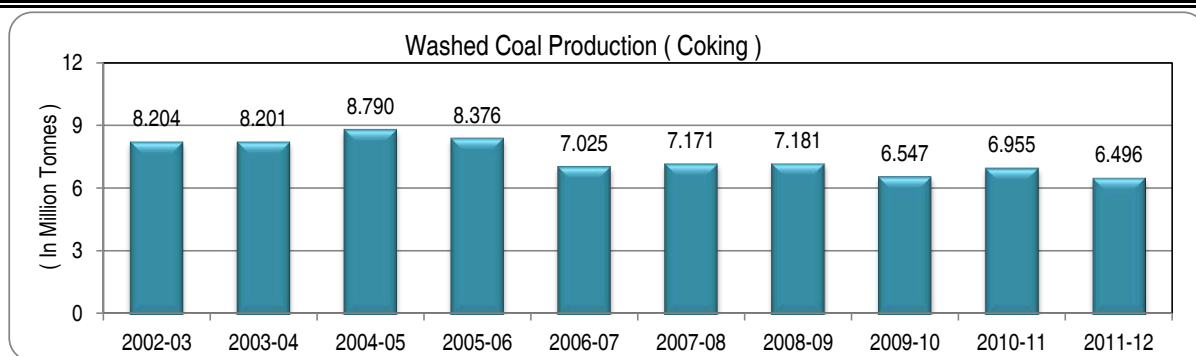
Year	Coking Coal									Non Coking Coal			Raw Coal	
	Metallurgical Coal			Non Metallurgical Coal			Total Coking Coal			Production	Share in raw coal(%)	Growth over previous year (%)	Production	Growth over previous year (%)
	Production	Share in coking coal(%)	Growth over previous year (%)	Production	Share in coking coal(%)	Growth over previous year (%)	Production	Share in raw coal(%)	Growth over previous year (%)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
2002-03	18.353	60.8	2.2	11.842	39.2	10.5	30.195	8.8	5.3	311.077	91.2	4.0	341.272	4.1
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



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

( 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)
2002-03	8.204	2.4			4.961	1.1			13.917	2.6
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	14.531	4.1	4.643	0.0	3.589	10.0	10.839	-14.4
2011-12	6.496	-6.6	15.437	6.2	3.674	-20.9	3.669	2.2	9.965	-8.1



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 AND LIGNITE IN LAST THREE YEARS**

( 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)
<b>2009-10</b>												
April-June	9.260	36.8	20.8	110.943	11.1	22.8	<b>120.203</b>	12.7	22.6	9.414	6.1	27.6
July-Sept.	9.288	48.4	20.9	101.988	7.4	20.9	<b>111.276</b>	9.9	20.9	7.247	10.0	21.3
Oct-Dec.	11.129	17.7	25.1	126.079	2.8	25.9	<b>137.208</b>	3.8	25.8	7.660	16.3	22.5
Jan-Mar.	14.736	19.6	33.2	148.619	5.9	30.5	<b>163.355</b>	7.0	30.7	9.750	-6.0	28.6
<b>TOTAL</b>	<b>44.413</b>	<b>27.6</b>	<b>100.0</b>	<b>487.629</b>	<b>6.5</b>	<b>100.0</b>	<b>532.042</b>	<b>8.0</b>	<b>100.0</b>	<b>34.071</b>	<b>5.1</b>	<b>100.0</b>
<b>2010-11</b>												
April-June	11.053	19.4	22.3	109.354	-1.4	22.6	<b>120.407</b>	0.2	22.6	10.872	15.5	28.8
July-Sept.	10.476	12.8	21.1	102.216	0.2	21.2	<b>112.692</b>	1.3	21.2	7.606	5.0	20.2
Oct-Dec.	12.866	15.6	26.0	127.174	0.9	26.3	<b>140.040</b>	2.1	26.3	8.019	4.7	21.3
Jan-Mar.	15.152	2.8	30.6	144.403	-2.8	29.9	<b>159.555</b>	-2.3	30.0	11.236	15.2	29.8
<b>TOTAL</b>	<b>49.547</b>	<b>11.6</b>	<b>100.0</b>	<b>483.147</b>	<b>-0.9</b>	<b>100.0</b>	<b>532.694</b>	<b>0.1</b>	<b>100.0</b>	<b>37.733</b>	<b>10.7</b>	<b>100.0</b>
<b>2011-12</b>												
April-June	11.123	0.6	21.5	109.825	0.4	22.5	<b>120.948</b>	0.4	22.4	11.883	9.3	28.1
July-Sept.	9.429	-10.0	18.3	92.495	-9.5	18.9	<b>101.924</b>	-9.6	18.9	8.132	6.9	19.2
Oct-Dec.	13.408	4.2	26.0	127.340	0.1	26.1	<b>140.748</b>	0.5	26.1	9.317	16.2	22.0
Jan-Mar.	17.700	16.8	34.3	158.630	9.9	32.5	<b>176.330</b>	10.5	32.7	13.000	15.7	30.7
<b>TOTAL</b>	<b>51.660</b>	<b>4.3</b>	<b>100.0</b>	<b>488.290</b>	<b>1.1</b>	<b>100.0</b>	<b>539.950</b>	<b>1.4</b>	<b>100.0</b>	<b>42.332</b>	<b>12.2</b>	<b>100.0</b>

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

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

Cont....



**TABLE 3.4 : QUARTERLY PRODUCTION OF DIFFERENT TYPES OF COAL PRODUCTS IN LAST THREE YEARS**

( 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)
<b>2009-10</b>															
April-June	1.557	-10.5	23.8	3.049	0.2	21.8	1.205	-13.1	25.8	0.734	0.0	22.5	2.990	-2.9	23.6
July-Sept.	1.518	-12.8	23.2	3.285	11.8	23.5	1.173	-8.1	25.1	0.774	0.0	23.7	3.127	-4.3	24.7
Oct-Dec.	1.715	-3.7	26.2	3.772	1.5	27.0	1.180	-11.6	25.3	0.916	0.0	28.1	3.285	-0.7	25.9
Jan-Mar.	1.757	-8.5	26.8	3.857	0.2	27.6	1.114	-14.1	23.8	0.840	0.0	25.7	3.261	10.1	25.8
<b>TOTAL</b>	<b>6.547</b>	<b>-8.8</b>	<b>100.0</b>	<b>13.963</b>	<b>3.0</b>	<b>100.0</b>	<b>4.672</b>	<b>-11.7</b>	<b>100.0</b>	<b>3.264</b>	<b>0.0</b>	<b>100.0</b>	<b>12.663</b>	<b>0.3</b>	<b>100.0</b>
<b>2010-11</b>															
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	2.681	-10.3	24.7
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	2.652	-15.2	24.5
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	2.799	-14.8	25.8
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	2.707	-17.0	25.0
<b>TOTAL</b>	<b>6.955</b>	<b>6.2</b>	<b>100.0</b>	<b>14.532</b>	<b>4.1</b>	<b>100.0</b>	<b>4.643</b>	<b>-0.6</b>	<b>100.0</b>	<b>3.589</b>	<b>10.0</b>	<b>100.0</b>	<b>10.839</b>	<b>-14.4</b>	<b>100.0</b>
<b>2011-12</b>															
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	2.555	-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	2.560	-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	2.484	-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	2.366	-12.6	23.7
<b>TOTAL</b>	<b>6.496</b>	<b>-6.6</b>	<b>100.0</b>	<b>15.437</b>	<b>6.2</b>	<b>100.0</b>	<b>3.674</b>	<b>-20.9</b>	<b>100.0</b>	<b>3.669</b>	<b>2.2</b>	<b>100.0</b>	<b>9.965</b>	<b>-8.1</b>	<b>100.0</b>

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

(2) \*\*Share (%) is calculated 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 IN 2011-12**

( 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)
<b>2011-12</b>												
Apr-11	3.267	-6.4	6.3	37.753	4.8	7.7	<b>41.020</b>	3.8	7.6	3.946	4.0	9.3
May-11	3.889	2.9	7.5	37.172	0.6	7.6	<b>41.061</b>	0.8	7.6	4.295	18.3	10.1
Jun-11	3.967	4.8	7.7	34.900	-4.1	7.1	<b>38.867</b>	-3.3	7.2	3.642	5.7	8.6
<b>1st Quarter</b>	<b>11.123</b>	<b>0.6</b>	<b>21.5</b>	<b>109.825</b>	<b>0.4</b>	<b>22.5</b>	<b>120.948</b>	<b>0.4</b>	<b>22.4</b>	<b>11.883</b>	<b>9.3</b>	<b>28.1</b>
Jul-11	3.645	8.1	7.1	35.522	2.6	7.3	<b>39.167</b>	3.0	7.3	2.700	4.4	6.4
Aug-11	2.698	-26.5	5.2	30.088	-13.5	6.2	<b>32.786</b>	-14.7	6.1	2.732	6.3	6.5
Sep-11	3.086	-10.0	6.0	26.885	-18.1	5.5	<b>29.971</b>	-17.3	5.6	2.700	10.2	6.4
<b>2nd Quarter</b>	<b>9.429</b>	<b>-10.0</b>	<b>18.3</b>	<b>92.495</b>	<b>-9.5</b>	<b>18.9</b>	<b>101.924</b>	<b>-9.6</b>	<b>18.9</b>	<b>8.132</b>	<b>6.9</b>	<b>19.2</b>
Oct-11	3.687	-7.2	7.1	36.169	-9.5	7.4	<b>39.856</b>	-9.3	7.4	2.702	6.5	6.4
Nov-11	4.609	10.4	8.9	42.836	3.1	8.8	<b>47.445</b>	3.7	8.8	3.038	22.7	7.2
Dec-11	5.112	8.4	9.9	48.335	5.9	9.9	<b>53.447</b>	6.2	9.9	3.577	19.0	8.4
<b>3rd Quarter</b>	<b>13.408</b>	<b>4.2</b>	<b>26.0</b>	<b>127.340</b>	<b>0.1</b>	<b>26.1</b>	<b>140.748</b>	<b>0.5</b>	<b>26.1</b>	<b>9.317</b>	<b>16.2</b>	<b>22.0</b>
Jan-12	5.315	17.8	10.3	49.900	6.5	10.2	<b>55.215</b>	7.5	10.2	4.035	9.6	9.5
Feb-12	5.254	16.2	10.2	51.081	18.5	10.5	<b>56.335</b>	18.3	10.4	4.285	18.3	10.1
Mar-12	7.131	16.5	13.8	57.649	5.9	11.8	<b>64.780</b>	6.9	12.0	4.680	19.0	11.1
<b>4th Quarter</b>	<b>17.700</b>	<b>16.8</b>	<b>34.3</b>	<b>158.630</b>	<b>9.9</b>	<b>32.5</b>	<b>176.330</b>	<b>10.5</b>	<b>32.7</b>	<b>13.000</b>	<b>15.7</b>	<b>30.7</b>
<b>2011-12</b>	<b>51.660</b>	<b>4.3</b>	<b>100.0</b>	<b>488.290</b>	<b>1.1</b>	<b>100.0</b>	<b>539.950</b>	<b>1.4</b>	<b>100.0</b>	<b>42.332</b>	<b>12.2</b>	<b>112.2</b>

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

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

Cont....

**TABLE 3.5: MONTHLY PRODUCTION OF DIFFERENT TYPES OF COAL PRODUCTS IN 2011-12**

( 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)
<b>2011-12</b>															
Apr-11	0.562	-6.5	8.7	1.252	13.0	8.1	0.301	-21.0	8.2	0.308	-9.4	8.4	0.875	-1.5	8.8
May-11	0.477	-16.6	7.3	1.198	35.1	7.8	0.286	-25.7	7.8	0.327	-1.2	8.9	0.853	-6.5	8.6
Jun-11	0.531	-8.4	8.2	1.213	7.0	7.9	0.312	-15.7	8.5	0.323	2.9	8.8	0.827	-6.1	8.3
<b>1st Quarter</b>	<b>1.570</b>	<b>-10.4</b>	<b>24.2</b>	<b>3.663</b>	<b>17.1</b>	<b>23.7</b>	<b>0.899</b>	<b>-20.9</b>	<b>24.5</b>	<b>0.958</b>	<b>-2.7</b>	<b>26.1</b>	<b>2.555</b>	<b>-4.7</b>	<b>25.6</b>
Jul-11	0.542	-7.2	8.3	1.239	2.4	8.0	0.312	-13.1	8.5	0.323	-3.9	8.8	0.879	-1.2	8.8
Aug-11	0.507	-17.7	7.8	1.071	-13.3	6.9	0.285	-17.4	7.8	0.315	-4.3	8.6	0.855	-4.0	8.6
Sep-11	0.513	-11.7	7.9	1.102	-4.4	7.1	0.305	-4.7	8.3	0.234	-28.0	6.4	0.826	-5.2	8.3
<b>2nd Quarter</b>	<b>1.562</b>	<b>-12.3</b>	<b>24.0</b>	<b>3.412</b>	<b>-5.2</b>	<b>22.1</b>	<b>0.902</b>	<b>-11.9</b>	<b>24.6</b>	<b>0.872</b>	<b>-11.9</b>	<b>23.8</b>	<b>2.560</b>	<b>-3.5</b>	<b>25.7</b>
Oct-11	0.476	-23.8	7.3	1.240	-4.2	8.0	0.286	-22.9	7.8	0.270	-1.5	7.4	0.842	-10.6	8.4
Nov-11	0.549	-6.8	8.5	1.408	12.3	9.1	0.312	-15.4	8.5	0.318	6.7	8.7	0.816	-10.7	8.2
Dec-11	0.570	9.2	8.8	1.509	33.1	9.8	0.321	-22.7	8.7	0.306	37.2	8.3	0.826	-12.4	8.3
<b>3rd Quarter</b>	<b>1.595</b>	<b>-8.1</b>	<b>24.6</b>	<b>4.157</b>	<b>12.9</b>	<b>26.9</b>	<b>0.919</b>	<b>-20.4</b>	<b>25.0</b>	<b>0.894</b>	<b>12.5</b>	<b>24.4</b>	<b>2.484</b>	<b>-11.3</b>	<b>24.9</b>
Jan-12	0.594	9.2	9.1	1.471	7.6	9.5	0.335	-26.9	9.1	0.293	36.3	8.0	0.808	-13.1	8.1
Feb-12	0.585	7.5	9.0	1.328	5.8	8.6	0.328	-17.4	8.9	0.300	6.4	8.2	0.752	-10.3	7.5
Mar-12	0.590	-1.2	9.1	1.406	-6.3	9.1	0.291	-38.5	7.9	0.352	9.3	9.6	0.806	-14.2	8.1
<b>4th Quarter</b>	<b>1.769</b>	<b>5.0</b>	<b>27.2</b>	<b>4.205</b>	<b>2.0</b>	<b>27.2</b>	<b>0.954</b>	<b>-28.2</b>	<b>26.0</b>	<b>0.945</b>	<b>15.4</b>	<b>25.8</b>	<b>2.366</b>	<b>-12.6</b>	<b>23.7</b>
<b>2011-12</b>	<b>6.496</b>	<b>-6.6</b>	<b>93.4</b>	<b>15.437</b>	<b>6.2</b>	<b>106.2</b>	<b>3.674</b>	<b>-20.9</b>	<b>79.1</b>	<b>3.669</b>	<b>2.2</b>	<b>102.2</b>	<b>9.965</b>	<b>-8.1</b>	<b>91.9</b>

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

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

(3) All the above figures of Washed Coal &amp; Middling relate to coal companies (private&amp; 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**

( 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)
2002-03	33.236	9.7	7.9	0.633	0.2	-1.1	56.758	16.6	5.9
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

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)
2002-03	0.025	0.0	-28.6	78.628	23.0	2.4	45.736	13.4	3.6
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

Year	State: Maharashtra			State: Meghalaya		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)
(21)	(22)	(23)	(24)	(25)	(26)	(27)
2002-03	31.359	9.2	1.7	4.406	1.3	-16.9
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

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

Note: The State of Jharkhand is carved 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.**

( 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)
2002-03	52.229	15.3	9.3	17.783	5.2	7.6	20.479	6.0	-4.3
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

Year	State: Arunachal Pradesh			Year	ALL INDIA	
	Quantity	Share (%)	Growth (%)		Quantity	Growth (%)
(41)	(42)	(43)	(44)	(45)	(46)	(47)
2002-03				2002-03	<b>341.272</b>	4.1
2003-04				2003-04	<b>361.246</b>	5.9
2004-05				2004-05	<b>382.615</b>	5.9
2005-06				2005-06	<b>407.039</b>	6.4
2006-07				2006-07	<b>430.832</b>	5.8
2007-08	0.079	0.0	0.0	2007-08	<b>457.082</b>	6.1
2008-09	0.142	0.0	79.7	2008-09	<b>492.757</b>	7.8
2009-10	0.251	0.0	76.8	2009-10	<b>532.042</b>	8.0
2010-11	0.299	0.1	19.1	2010-11	<b>532.694</b>	0.1
2011-12	0.221	0.0	-26.1	2011-12	<b>539.950</b>	1.4

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

( Million Tonnes)

Year	State: Tamilnadu			State: Gujarat			State: Rajasthan		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2002-03	18.624	71.6	1.4	6.921	26.6	12.2	0.473	1.8	70.8
2003-04	20.556	73.5	10.4	6.724	24.1	-2.8	0.678	2.4	43.3
2004-05	21.567	71.1	4.9	8.222	27.1	22.3	0.548	1.8	-19.2
2005-06	20.435	68.0	-5.2	8.944	29.7	8.8	0.687	2.3	25.4
2006-07	21.014	67.2	2.8	9.808	31.4	9.7	0.463	1.5	-32.6
2007-08	21.586	63.5	2.7	11.788	34.7	20.2	0.606	1.8	30.9
2008-09	21.308	65.7	-1.3	10.114	31.2	-14.2	0.999	3.1	64.9
2009-10	22.338	65.6	4.8	10.526	30.9	4.1	1.207	3.5	20.8
2010-11	23.144	61.3	3.6	13.064	34.6	24.1	1.525	4.0	26.3
2011-12	24.590	58.1	6.2	14.779	34.9	13.1	2.963	7.0	94.3

Year	ALL INDIA	
	Quantity	Growth (%)
(11)	(12)	(13)
2002-03	<b>26.018</b>	4.9
2003-04	<b>27.958</b>	7.5
2004-05	<b>30.337</b>	8.5
2005-06	<b>30.066</b>	-0.9
2006-07	<b>31.285</b>	4.1
2007-08	<b>33.980</b>	8.6
2008-09	<b>32.421</b>	-4.6
2009-10	<b>34.071</b>	5.1
2010-11	<b>37.733</b>	10.7
2011-12	<b>42.332</b>	12.2

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

[Million tonnes]

Company	2009-10			2010-11			2011-12		
	Coking	Non-coking	Total	Coking	Non-coking	Total	Coking	Non-coking	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ECL	0.062	29.996	<b>30.058</b>	0.046	30.757	<b>30.803</b>	0.051	30.507	<b>30.558</b>
BCCL	19.161	8.351	<b>27.512</b>	25.283	3.721	<b>29.004</b>	27.250	2.957	<b>30.207</b>
CCL	16.209	30.874	<b>47.083</b>	15.435	32.086	<b>47.521</b>	15.549	32.455	<b>48.004</b>
NCL		67.670	<b>67.670</b>		66.253	<b>66.253</b>		66.401	<b>66.401</b>
WCL	0.545	45.190	<b>45.735</b>	0.403	43.251	<b>43.654</b>	0.319	42.791	<b>43.110</b>
SECL	0.150	107.859	<b>108.009</b>	0.163	112.542	<b>112.705</b>	0.189	113.648	<b>113.837</b>
MCL		104.079	<b>104.079</b>		100.280	<b>100.280</b>		103.119	<b>103.119</b>
NEC		1.113	<b>1.113</b>		1.101	<b>1.101</b>		0.602	<b>0.602</b>
<b>CIL</b>	<b>36.127</b>	<b>395.132</b>	<b>431.259</b>	<b>41.330</b>	<b>389.991</b>	<b>431.321</b>	<b>43.358</b>	<b>392.480</b>	<b>435.838</b>
SCCL		50.429	<b>50.429</b>		51.333	<b>51.333</b>		52.211	<b>52.211</b>
JKML		0.023	<b>0.023</b>		0.024	<b>0.024</b>		0.020	<b>0.020</b>
JSMDCL		0.461	<b>0.461</b>		0.399	<b>0.399</b>		0.118	<b>0.118</b>
DVC	0.141		<b>0.141</b>	0.311		<b>0.311</b>	0.328	0	<b>0.328</b>
IISCO	0.932	0.366	<b>1.298</b>	0.855	0.227	<b>1.082</b>	0.434	0.164	<b>0.598</b>
APMDTCL		0.251	<b>0.251</b>		0.299	<b>0.299</b>		0.221	<b>0.221</b>
SAIL		0.063	<b>0.063</b>	0.014		<b>0.014</b>	0.040		<b>0.040</b>
WBPDCCL		0.115	<b>0.115</b>		0.257	<b>0.257</b>		0.216	<b>0.216</b>
DVC EMTA					0.021	<b>0.021</b>		1.165	<b>1.165</b>
<b>Total Public</b>	<b>37.200</b>	<b>446.840</b>	<b>484.040</b>	<b>42.510</b>	<b>442.551</b>	<b>485.061</b>	<b>44.160</b>	<b>446.595</b>	<b>490.755</b>
BECML		3.303	<b>3.303</b>		2.876	<b>2.876</b>		2.598	<b>2.598</b>
ICML		3.213	<b>3.213</b>		2.929	<b>2.929</b>		3.745	<b>3.745</b>
JSPL		5.999	<b>5.999</b>		5.999	<b>5.999</b>		5.998	<b>5.998</b>
HIL		2.330	<b>2.330</b>		2.285	<b>2.285</b>		2.357	<b>2.357</b>
Meghalaya		5.767	<b>5.767</b>		6.974	<b>6.974</b>		7.206	<b>7.206</b>
TSL	7.158	0.052	<b>7.210</b>	7.003	0.023	<b>7.026</b>	7.394	0.067	<b>7.461</b>
MIL		1.000	<b>1.000</b>		0.952	<b>0.952</b>		0.851	<b>0.851</b>
BLA		0.299	<b>0.299</b>		0.297	<b>0.297</b>		0.299	<b>0.299</b>
CML			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>
PANEM		8.476	<b>8.476</b>		8.031	<b>8.031</b>		8.301	<b>8.301</b>
PIL		1.000	<b>1.000</b>		1.000	<b>1.000</b>		1.000	<b>1.000</b>
JNL		0.560	<b>0.560</b>		0.406	<b>0.406</b>		0.480	<b>0.480</b>
JPL		6.045	<b>6.045</b>		5.688	<b>5.688</b>		5.250	<b>5.250</b>
SIL		0.140	<b>0.140</b>		0.114	<b>0.114</b>		0.160	<b>0.160</b>
ESCL	0.055		<b>0.055</b>	0.034		<b>0.034</b>	0.106		<b>0.106</b>
UML		0.062	<b>0.062</b>		0.300	<b>0.300</b>		0.351	<b>0.351</b>
KEMTA		2.252	<b>2.252</b>		2.275	<b>2.275</b>		2.189	<b>2.189</b>
SEML		0.291	<b>0.291</b>		0.432	<b>0.432</b>		0.774	<b>0.774</b>
BS ISPAT					0.015	<b>0.015</b>		0.003	<b>0.003</b>
TUML								0.066	<b>0.066</b>
<b>Total Private</b>	<b>7.213</b>	<b>40.789</b>	<b>48.002</b>	<b>7.037</b>	<b>40.596</b>	<b>47.633</b>	<b>7.500</b>	<b>41.695</b>	<b>49.195</b>
<b>ALL INDIA</b>	<b>44.413</b>	<b>487.629</b>	<b>532.042</b>	<b>49.547</b>	<b>483.147</b>	<b>532.694</b>	<b>51.660</b>	<b>488.290</b>	<b>539.950</b>
<b>LIGNITE</b>									
NLC			<b>22.338</b>			<b>23.144</b>			<b>24.590</b>
GMDCL			<b>8.374</b>			<b>10.232</b>			<b>11.343</b>
GIPCL			<b>1.836</b>			<b>2.521</b>			<b>3.042</b>
RSMML			<b>1.207</b>			<b>0.883</b>			<b>2.120</b>
GHCL			<b>0.316</b>			<b>0.311</b>			<b>0.394</b>
VS LIGNITE						<b>0.642</b>			<b>0.843</b>
<b>ALL INDIA</b>			<b>34.071</b>			<b>37.733</b>			<b>42.332</b>
<b>COAL &amp; LIGNITE</b>			<b>566.113</b>			<b>570.427</b>			<b>582.282</b>

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

Million Tonnes

State	2007-2008	2008-2009	2009-2010	2010-11	2011-12
(1)	(2)	(3)	(4)	(5)	(6)
<b>COKING</b>					
Chhattisgarh	0.159	0.146	0.150	0.163	0.189
Jharkhand	33.566	33.877	43.666	48.945	51.108
Madhya Pradesh	0.676	0.730	0.545	0.403	0.319
West Bengal	0.054	0.056	0.052	0.036	0.044
<b>Total Coking</b>	<b>34.455</b>	<b>34.809</b>	<b>44.413</b>	<b>49.547</b>	<b>51.660</b>
<b>NON-COKING</b>					
Andhra Pradesh	40.604	44.546	50.429	51.333	52.211
Arunachal Pradesh	0.079	0.142	0.251	0.299	0.221
Assam	1.101	1.009	1.113	1.101	0.602
Chhattisgarh	90.013	101.776	109.803	113.661	113.769
Jammu & Kashmir	0.017	0.011	0.023	0.024	0.020
Jharkhand	57.329	62.395	62.251	60.004	58.458
Madhya Pradesh	67.165	70.595	73.529	70.701	70.804
Maharashtra	36.403	38.705	41.005	39.336	39.159
Meghalaya	6.541	5.489	5.767	6.974	7.206
Orissa	89.482	98.402	106.409	102.565	105.476
Uttar Pradesh	11.426	12.029	13.968	15.526	16.178
West Bengal	22.467	22.849	23.081	21.623	24.186
<b>Total Non-Coking</b>	<b>422.627</b>	<b>457.948</b>	<b>487.629</b>	<b>483.147</b>	<b>488.290</b>

**TABLE 3.10: STATEWISE PRODUCTION OF LIGNITE IN LAST FIVE YEARS**

Million Tonnes

State	2007-2008	2008-09	2009-10	2010-11	2011-12
(1)	(2)	(3)	(4)	(5)	(6)
Tamilnadu	21.586	21.308	22.338	23.144	24.590
Gujarat	11.788	10.114	10.526	13.064	14.779
Rajasthan	0.606	0.999	1.207	1.525	2.963
<b>TOTAL</b>	<b>33.980</b>	<b>32.421</b>	<b>34.071</b>	<b>37.733</b>	<b>42.332</b>



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

[ Million Tonnes ]

STATES	COAL COMPANY	2 0 0 9 - 2 0 1 0			2010 - 2011			2011 - 2012		
		Coking	Non Coking	Total	Coking	Non Coking	Total	Coking	Non Coking	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<b>Andhra Pradesh</b>	<b>SCCL</b>		<b>50.429</b>	<b>50.429</b>		<b>51.333</b>	<b>51.333</b>		<b>52.211</b>	<b>52.211</b>
<b>Arunachal Pradesh</b>	<b>APMDTCL</b>		<b>0.251</b>	<b>0.251</b>		<b>0.299</b>	<b>0.299</b>		<b>0.221</b>	<b>0.221</b>
<b>Assam</b>	<b>NEC</b>		<b>1.113</b>	<b>1.113</b>		<b>1.101</b>	<b>1.101</b>		<b>0.602</b>	<b>0.602</b>
Chhattisgarh	SECL	0.150	94.908	95.058	0.163	99.184	99.347	0.189	99.416	99.605
Chhattisgarh	JSPL		5.999	5.999		5.999	5.999		5.998	5.998
Chhattisgarh	MIL		1.000	1.000		0.952	0.952		0.851	0.851
Chhattisgarh	PIL		1.000	1.000		1.000	1.000		1.000	1.000
Chhattisgarh	JPL		6.045	6.045		5.688	5.688		5.250	5.250
Chhattisgarh	JNL		0.560	0.560		0.406	0.406		0.480	0.480
Chhattisgarh	SEML		0.291	0.291		0.432	0.432		0.774	0.774
<b>Chhattisgarh</b>	<b>TOTAL</b>	<b>0.150</b>	<b>109.803</b>	<b>109.953</b>	<b>0.163</b>	<b>113.661</b>	<b>113.824</b>	<b>0.189</b>	<b>113.769</b>	<b>113.958</b>
<b>Jammu &amp; Kashmir</b>	<b>JKML</b>		<b>0.023</b>	<b>0.023</b>		<b>0.024</b>	<b>0.024</b>		<b>0.020</b>	<b>0.020</b>
Jharkhand	ECL	0.045	13.940	13.985	0.039	15.444	15.483	0.041	14.209	14.250
Jharkhand	BCCL	19.126	8.323	27.449	25.254	3.721	28.975	27.216	2.957	30.173
Jharkhand	CCL	16.209	30.874	47.083	15.435	32.086	47.521	15.549	32.455	48.004
Jharkhand	JSMDC		0.461	0.461		0.399	0.399		0.118	0.118
Jharkhand	DVC	0.141		0.141	0.311		0.311	0.328		0.328
Jharkhand	IISCO	0.932		0.932	0.855		0.855	0.434		0.434
Jharkhand	TSL	7.158	0.052	7.210	7.003	0.023	7.026	7.394	0.067	7.461
Jharkhand	CML			0.000			0.000			0.000
Jharkhand	PANEM		8.476	8.476		8.031	8.031		8.301	8.301
Jharkhand	UML		0.062	0.062		0.300	0.300		0.351	0.351
Jharkhand	ESCL	0.055		0.055	0.034		0.034	0.106		0.106
Jharkhand	SAIL		0.063	0.063	0.014		0.014	0.040		0.040
<b>Jharkhand</b>	<b>TOTAL</b>	<b>43.666</b>	<b>62.251</b>	<b>105.917</b>	<b>48.945</b>	<b>60.004</b>	<b>108.949</b>	<b>51.108</b>	<b>58.458</b>	<b>109.566</b>
Madhya Pradesh	NCL		53.702	53.702		50.727	50.727		50.223	50.223
Madhya Pradesh	WCL	0.545	6.577	7.122	0.403	6.319	6.722	0.319	6.050	6.369
Madhya Pradesh	SECL		12.951	12.951		13.358	13.358		14.232	14.232
Madhya Pradesh	BLA		0.299	0.299		0.297	0.297		0.299	0.299
<b>Madhya Pradesh</b>	<b>TOTAL</b>	<b>0.545</b>	<b>73.529</b>	<b>74.074</b>	<b>0.403</b>	<b>70.701</b>	<b>71.104</b>	<b>0.319</b>	<b>70.804</b>	<b>71.123</b>
Maharashtra	WCL		38.613	38.613		36.932	36.932		36.741	36.741
Maharashtra	SIL		0.140	0.140		0.114	0.114		0.160	0.160
Maharashtra	BS ISPAT					0.015	0.015		0.003	0.003
Maharashtra	KEMTA		2.252	2.252		2.275	2.275		2.189	2.189
Maharashtra	TUML								0.066	0.066
<b>Maharashtra</b>	<b>TOTAL</b>	<b>0.000</b>	<b>41.005</b>	<b>41.005</b>	<b>0.000</b>	<b>39.336</b>	<b>39.336</b>	<b>0.000</b>	<b>39.159</b>	<b>39.159</b>
<b>Meghalaya</b>	<b>MEG</b>		<b>5.767</b>	<b>5.767</b>		<b>6.974</b>	<b>6.974</b>		<b>7.206</b>	<b>7.206</b>
Orissa	MCL		104.079	104.079		100.280	100.280		103.119	103.119
Orissa	HIL		2.330	2.330		2.285	2.285		2.357	2.357
<b>Orissa</b>	<b>TOTAL</b>		<b>106.409</b>	<b>106.409</b>		<b>102.565</b>	<b>102.565</b>		<b>105.476</b>	<b>105.476</b>
<b>Uttar Pradesh</b>	<b>NCL</b>		<b>13.968</b>	<b>13.968</b>		<b>15.526</b>	<b>15.526</b>		<b>16.178</b>	<b>16.178</b>
West Bengal	ECL	0.017	16.056	16.073	0.007	15.313	15.320	0.010	16.298	16.308
West Bengal	BCCL	0.035	0.028	0.063	0.029	0.000	0.029	0.034	0.000	0.034
West Bengal	IISCOR		0.366	0.366		0.227	0.227		0.164	0.164
West Bengal	BECML		3.303	3.303		2.876	2.876		2.598	2.598
West Bengal	ICML		3.213	3.213		2.929	2.929		3.745	3.745
West Bengal	WBPDC		0.115	0.115		0.257	0.257		0.216	0.216
West Bengal	DVC EMTA					0.021	0.021		1.165	1.165
<b>West Bengal</b>	<b>TOTAL</b>	<b>0.052</b>	<b>23.081</b>	<b>23.133</b>	<b>0.036</b>	<b>21.623</b>	<b>21.659</b>	<b>0.044</b>	<b>24.186</b>	<b>24.230</b>
<b>Total Public</b>		<b>37.200</b>	<b>446.840</b>	<b>484.040</b>	<b>42.510</b>	<b>442.551</b>	<b>485.061</b>	<b>44.160</b>	<b>446.595</b>	<b>490.755</b>
<b>Total Private</b>	<b>TOTAL</b>	<b>7.213</b>	<b>40.789</b>	<b>48.002</b>	<b>7.037</b>	<b>40.596</b>	<b>47.633</b>	<b>7.500</b>	<b>41.695</b>	<b>49.195</b>
<b>All India</b>		<b>44.413</b>	<b>487.629</b>	<b>532.042</b>	<b>49.547</b>	<b>483.147</b>	<b>532.694</b>	<b>51.660</b>	<b>488.290</b>	<b>539.950</b>

**TABLE 3.12: COMPANYWISE PRODUCTION OF DIFFERENT COAL PRODUCTS IN LAST THREE YEARS**  
(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)
2009-10	BCCL	1329	874					
	CCL	1396	1110					
	WCL	248	190					
	DCC				26	91	55	156
	SAIL	526	182	8381				
	RINL (Est)			2385				
	TISCO	3048	2316	1897				
	<b>TOTAL</b>		<b>6547</b>	<b>4672</b>	<b>12663</b>	<b>26</b>	<b>91</b>	<b>55</b>
2010-11	BCCL	1549	872					
	CCL	1453	1000					
	WCL	191	139					
	DCC				26	70	6	151
	SAIL	592	247	8874				
	RINL (Est)			2041				
	TISCO	3170	2385	1965				
	<b>TOTAL</b>		<b>6955</b>	<b>4643</b>	<b>12880</b>	<b>26</b>	<b>70</b>	<b>6</b>
2011-12	BCCL	1421						
	CCL	1334	914					
	WCL	137	97					
	DCC				28	31	42	145
	SAIL	339	197	9976				
	RINL (Est)			2414				
	TISCO	3266	2466	1940				
	<b>TOTAL</b>		<b>6497</b>	<b>3674</b>	<b>14330</b>	<b>28</b>	<b>31</b>	<b>42</b>

Coke production of RINL is included in this table.

**TABLE 3.13: GRADEWISE PRODUCTION OF COKING COAL BY COMPANIES IN 2011-12**

(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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
ECL			0.010			0.041			0.010	0.041	0.051
BCCL	0.083	1.135		0.246	1.399	7.157	17.230		4.143	23.107	27.250
CCL					0.097	3.421	12.031		3.707	11.842	15.549
NCL											0
WCL					0.319				0.319	0	0.319
SECL			0.189						0.189	0	0.189
MCL											0
NEC											0
<b>CIL</b>	<b>0.083</b>	<b>1.135</b>	<b>0.199</b>	<b>0.246</b>	<b>1.815</b>	<b>10.619</b>	<b>29.261</b>	<b>0.000</b>	<b>8.368</b>	<b>34.990</b>	<b>43.358</b>
SCCL											0
JKML											0
JSMDCCL											0
DVC							0.328			0.328	0.328
IISCO							0.434		0.434		0.434
APMDTCL											0
WBPDCCL											0
SAIL							0.040		0.040		0.040
DVC EMTA											0
<b>PUBLIC</b>	<b>0.083</b>	<b>1.135</b>	<b>0.199</b>	<b>0.246</b>	<b>1.815</b>	<b>10.619</b>	<b>30.063</b>	<b>0</b>	<b>8.842</b>	<b>35.318</b>	<b>44.160</b>
BECML											
ICML											
JSPL											
HIL											
Meghalaya											
TSL						2.528	4.866		7.394	0.000	7.394
MIL											
BLA											
CML											
PANEM											
PIL											
JNL											
JPL											
SIL											
ESCL							0.106			0.106	0.106
UML											
KEMTA											
SEML											
BS ISPAT											
TUML											
<b>PRIVATE</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>2.528</b>	<b>4.972</b>	<b>0.000</b>	<b>7.394</b>	<b>0.106</b>	<b>7.500</b>
<b>India (11-12)</b>	<b>0.083</b>	<b>1.135</b>	<b>0.199</b>	<b>0.246</b>	<b>1.815</b>	<b>13.147</b>	<b>35.035</b>	<b>0.000</b>	<b>16.236</b>	<b>35.424</b>	<b>51.660</b>
<b>India (10-11)</b>	<b>0.263</b>	<b>1.558</b>	<b>0.170</b>	<b>0.235</b>	<b>1.757</b>	<b>10.165</b>	<b>35.399</b>	<b>0.000</b>	<b>17.695</b>	<b>31.852</b>	<b>49.547</b>
<b>India (09-10)</b>	<b>0.109</b>	<b>1.380</b>	<b>0.167</b>	<b>0.297</b>	<b>1.868</b>	<b>10.068</b>	<b>30.524</b>	<b>0.000</b>	<b>17.731</b>	<b>26.682</b>	<b>44.413</b>

Contd....

**TABLE 3.13: GRADEWISE PRODUCTION OF NON COKING COAL BY COMPANIES IN 2011-12**

(Million Tonnes)

Companies	PRODUCTION OF NON-COKING COAL										Total Coal
	A	B	C	D	E	F	G	SLV2	Ungr	Total Coking	
(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
ECL	1.012	11.363	3.714	1.946	0.943	11.529				30.507	30.558
BCCL			2.003	0.896		0.058				2.957	30.207
CCL		0.329	2.767	24.985	4.374					32.455	48.004
NCL		0.640		26.826	38.935					66.401	66.401
WCL	3.399	37.541	1.851							42.791	43.110
SECL	2.683	8.387	10.359	5.358	6.898	79.963				113.648	113.837
MCL		0.200	0.218	1.863	8.216	92.622				103.119	103.119
NEC	0.602									0.602	0.602
<b>CIL</b>	<b>7.696</b>	<b>58.460</b>	<b>20.912</b>	<b>61.874</b>	<b>59.366</b>	<b>184.172</b>				<b>392.480</b>	<b>435.838</b>
SCCL	0.034	0.616		6.678	13.191	15.629	13.154		2.909	52.211	52.211
JKML					0.020					0.020	0.020
JSMDC						0.118				0.118	0.118
DVC										0.000	0.328
IISCO	0.006	0.017			0.141					0.164	0.598
APMDTCL									0.221	0.221	0.221
WBPDC		0.216								0.216	0.216
SAIL										0.000	0.040
DVC EMTA			0.35	0.815						1.165	1.165
<b>PUBLIC</b>	<b>7.736</b>	<b>59.309</b>	<b>21.262</b>	<b>69.367</b>	<b>72.718</b>	<b>199.919</b>	<b>13.154</b>	<b>0.000</b>	<b>3.130</b>	<b>446.595</b>	<b>490.755</b>
BECML			2.598							2.598	2.598
ICML						3.745				3.745	3.745
JSPL						0.772			5.226	5.998	5.998
HIL									2.357	2.357	2.357
Meghalaya	7.206									7.206	7.206
TSL									0.067	0.067	7.461
MIL				0.393		0.458				0.851	0.851
BLA		0.003		0.165	0.131					0.299	0.299
CML										0.000	0.000
PANEM			2.490	4.151	1.660					8.301	8.301
PIL					1.000					1.000	1.000
JNL					0.399	0.081				0.480	0.480
JPL			2.217	3.033						5.250	5.250
SIL					0.160					0.160	0.160
ESCL										0.000	0.106
UML			0.351							0.351	0.351
KEMTA					2.189					2.189	2.189
BS ISPAT						0.219	0.555			0.774	0.774
SEML							0.003			0.003	0.003
TUML									0.066	0.066	0.066
<b>PRIVATE</b>	<b>7.206</b>	<b>0.003</b>	<b>7.656</b>	<b>7.742</b>	<b>5.539</b>	<b>5.275</b>	<b>0.558</b>	<b>0.000</b>	<b>7.716</b>	<b>41.695</b>	<b>49.195</b>
<b>India (11-12)</b>	<b>14.942</b>	<b>59.312</b>	<b>28.918</b>	<b>77.109</b>	<b>78.257</b>	<b>205.194</b>	<b>13.712</b>	<b>0.000</b>	<b>10.846</b>	<b>488.290</b>	<b>539.950</b>
<b>India (10-11)</b>	<b>12.182</b>	<b>24.023</b>	<b>55.581</b>	<b>45.710</b>	<b>121.227</b>	<b>212.693</b>	<b>10.612</b>	<b>0.000</b>	<b>1.119</b>	<b>483.147</b>	<b>532.694</b>
<b>India (09-10)</b>	<b>10.692</b>	<b>25.827</b>	<b>56.147</b>	<b>50.518</b>	<b>117.855</b>	<b>219.097</b>	<b>7.099</b>	<b>0.000</b>	<b>0.394</b>	<b>487.629</b>	<b>532.042</b>

**TABLE 3.14: GRADEWISE PRODUCTION OF COKING COAL AND NON COKING COAL BY STATES IN 2011-12**  
(Million Tonnes)

Grade	Andhra Pradesh	Arunachal Pradesh	Assam	Chhattisgarh	Jammu & Kashmir	Jharkhand	Madhya Pradesh	Maharashtra	Meghalaya	Orissa	Uttar Pradesh	West Bengal	India (2011-12)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Steel-I						0.049						0.034	0.083
Steel-II						1.135							1.135
SC				0.189								0.010	0.199
Wash-I						0.246							0.246
Wash-II						1.496	0.319						1.815
Wash-III						13.147							13.147
Wash-IV						35.035							35.035
SLV1													0.000
<b>Met.Coal</b>				<b>0.189</b>		<b>15.687</b>	<b>0.319</b>					<b>0.044</b>	<b>16.239</b>
<b>Non Met</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>35.421</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>35.421</b>
<b>Tot Ckg.</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.189</b>	<b>0.000</b>	<b>51.108</b>	<b>0.319</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.044</b>	<b>51.660</b>
A	0.034		0.602	1.195		0.353	2.491	2.396	7.206			0.665	14.942
B	0.616			6.725		0.332	7.352	32.494		0.200		11.593	59.312
C	0.000			5.259		9.203	7.317	1.851		0.218		5.070	28.918
D	6.678			5.019		30.621	23.281			1.863	7.475	2.172	77.109
E	13.191			8.297	0.020	6.177	30.363	2.349		8.216	8.703	0.941	78.257
F	15.629			81.493		11.705				92.622		3.745	205.194
G	13.154			0.555				0.003					13.712
SLV2													0.000
Ungr	2.909	0.221		5.226		0.067		0.066		2.357			10.846
<b>Tot. Nckg</b>	<b>52.211</b>	<b>0.221</b>	<b>0.602</b>	<b>113.769</b>	<b>0.020</b>	<b>58.458</b>	<b>70.804</b>	<b>39.159</b>	<b>7.206</b>	<b>105.476</b>	<b>16.178</b>	<b>24.186</b>	<b>488.290</b>
<b>Total Coal</b>	<b>52.211</b>	<b>0.221</b>	<b>0.602</b>	<b>113.958</b>	<b>0.020</b>	<b>109.566</b>	<b>71.123</b>	<b>39.159</b>	<b>7.206</b>	<b>105.476</b>	<b>16.178</b>	<b>24.230</b>	<b>539.950</b>

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**  
(Million Tonnes)

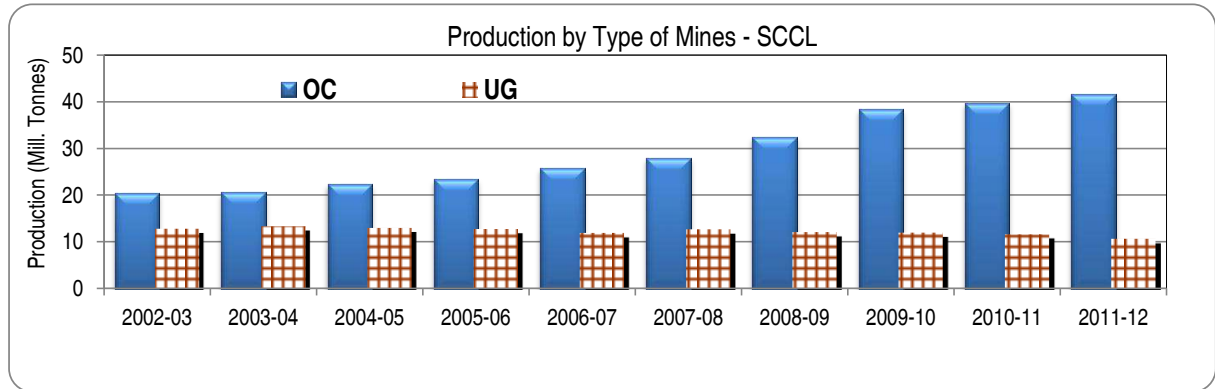
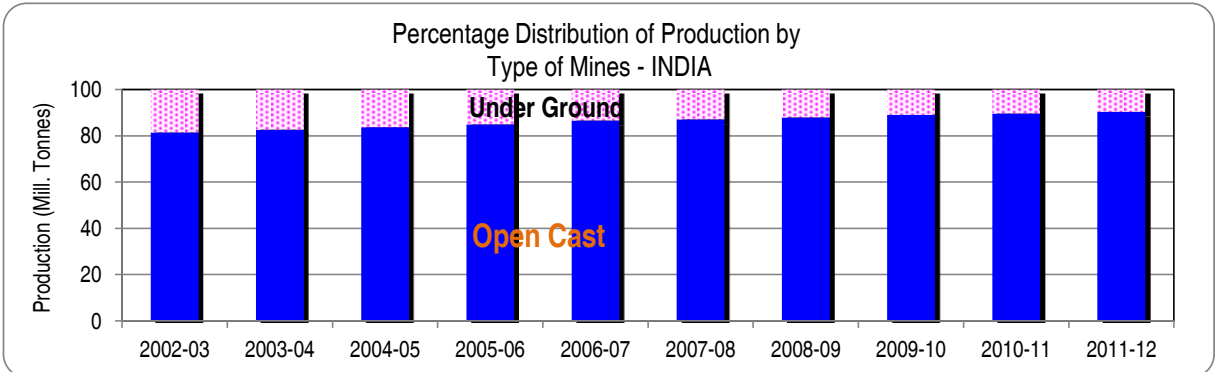
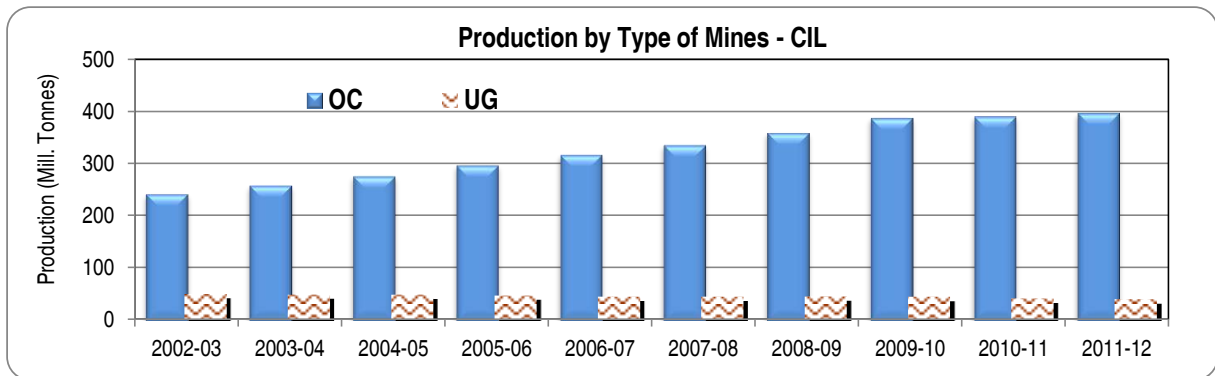
Type	Grade	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
<b>PRODUCTION OF COKING COAL</b>	Steel-I	0.281	0.199	0.147	0.139	0.127	0.083	0.075	0.109	0.263	0.083	
	Steel-II	0.277	0.107	0.106	0.999	0.559	0.282	0.960	1.380	1.558	1.135	
	SC-1	0.211	0.207	0.206	0.192	0.182	0.181	0.169	0.167	0.17	0.199	
	Wash-I	0.519	0.355	0.342	0.249	0.291	0.471	0.318	0.297	0.235	0.246	
	Wash-II	3.874	4.391	3.827	4.641	3.171	2.085	1.717	1.868	1.757	1.815	
	Wash-III	6.178	5.729	7.655	6.039	6.737	7.759	8.090	10.068	10.165	13.147	
	Wash-IV	18.855	18.413	17.837	19.203	20.999	23.568	23.472	30.524	35.399	35.035	
	SLV1			0.104	0.050	0.031	0.026	0.008	0	0	0	
	<b>Met.Coal</b>		<b>18.353</b>	<b>18.268</b>	<b>18.194</b>	<b>17.123</b>	<b>17.231</b>	<b>18.065</b>	<b>17.301</b>	<b>17.731</b>	<b>17.695</b>	<b>16.239</b>
	<b>Non Met</b>		<b>11.842</b>	<b>11.133</b>	<b>12.030</b>	<b>14.389</b>	<b>14.866</b>	<b>16.390</b>	<b>17.508</b>	<b>26.682</b>	<b>31.852</b>	<b>35.421</b>
<b>Total Coking</b>		<b>30.195</b>	<b>29.401</b>	<b>30.224</b>	<b>31.512</b>	<b>32.097</b>	<b>34.455</b>	<b>34.809</b>	<b>44.413</b>	<b>49.547</b>	<b>51.660</b>	
<b>PRODUCTION OF NON - COKING COAL</b>	A	3.370	3.824	3.929	4.599	4.958	4.901	10.179	10.692	12.182	<b>14.942</b>	
	B	21.867	21.972	22.152	21.723	20.815	21.959	24.854	25.827	24.023	<b>59.312</b>	
	C	47.157	51.942	53.017	50.720	53.059	55.526	51.058	56.147	55.581	<b>28.918</b>	
	D	39.305	41.543	41.544	41.881	42.439	45.721	48.006	50.518	45.710	<b>77.109</b>	
	E	75.586	80.039	85.645	96.175	98.079	102.277	112.993	117.855	121.227	<b>78.257</b>	
	F	115.535	123.299	136.034	148.170	165.673	178.877	201.286	219.097	212.693	<b>205.194</b>	
	G	3.381	3.313	2.401	6.560	7.733	6.590	9.332	7.099	10.612	<b>13.712</b>	
	SLV2	0.445	0.277	0	0	0	0	0	0	0	<b>0</b>	
	Ungr	4.431	5.636	7.669	5.700	5.979	6.776	0.240	0.394	1.119	<b>10.846</b>	
	<b>Total Non-Coking</b>		<b>311.077</b>	<b>331.845</b>	<b>352.391</b>	<b>375.528</b>	<b>398.735</b>	<b>422.627</b>	<b>457.948</b>	<b>487.629</b>	<b>483.147</b>	<b>488.290</b>
<b>TOTAL COAL</b>		<b>341.272</b>	<b>361.246</b>	<b>382.615</b>	<b>407.040</b>	<b>430.832</b>	<b>457.082</b>	<b>492.757</b>	<b>532.042</b>	<b>532.694</b>	<b>539.950</b>	

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**  
( 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)
2002-03	242.272	20.428	278.113	81.49	5.76	48.416	12.808	63.159	18.51	-2.56	341.272	4.11
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



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

( Million Tonnes )

COMPANIES	Y E A R 2010 - 2011						Y E A R 2011 - 2012					
	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)	(2)	(3)	(4)	(5)	(6)	(7)
ECL	23.431	76.07	7.36	7.372	23.93	-10.47	23.725	77.64	1.25	6.833	22.36	-7.31
BCCL	25.308	87.26	7.19	3.696	12.74	-5.28	26.725	88.47	5.60	3.482	11.53	-5.79
CCL	46.247	97.32	1.39	1.274	2.68	-13.39	46.914	97.73	1.44	1.090	2.27	-14.44
NCL	66.253	100.00	-2.09	0	0		66.401	100.00	0.22	0	0	
WCL	34.950	80.06	-3.22	8.704	19.94	-9.53	34.720	80.54	-0.66	8.390	19.46	-3.61
SECL	95.902	85.09	6.35	16.803	14.91	-5.76	97.429	85.59	1.59	16.408	14.41	-2.35
MCL	98.113	97.84	-3.69	2.167	2.16	-1.68	100.933	97.88	2.87	2.186	2.12	0.88
NEC	1.099	99.82	-1.26	0.002	0.18		0.598	99.34	-45.59	0.004	0.66	
<b>CIL</b>	<b>391.303</b>	<b>90.72</b>	<b>0.85</b>	<b>40.018</b>	<b>9.28</b>	<b>-7.50</b>	<b>397.445</b>	<b>91.19</b>	<b>1.57</b>	<b>38.393</b>	<b>8.81</b>	<b>-4.06</b>
SCCL	39.705	77.35	3.24	11.628	22.65	-2.85	41.573	79.62	4.70	10.638	20.38	-8.51
JKML				0.024	100.00	4.35				0.020	100.00	-16.67
JSMDCL	0.399	100.00	-13.45	0	0		0.118	100.00	-70.43	0	0	
DVC	0.311	100.00	120.57	0	0		0.328	100.00	5.47	0	0	
IISCO	0.825	76.25	-15.47	0.257	23.75	-20.19	0.469	78.43	-43.15	0.129	21.57	-49.81
APMDTCL	0.299	100.00	19.12	0	0		0.221	100.00	-26.09	0	0	
WBPDCCL	0.257	100.00	123.48	0	0		0.216	100.00	-15.95	0	0	
SAIL	0.014	100.00	-77.78	0	0		0.040	100.00	185.71	0	0	
DVC EMTA	0.021	100.00		0	0		1.165	100.00		0	0	
<b>PUBLIC</b>	<b>433.134</b>	<b>89.29</b>	<b>1.09</b>	<b>51.927</b>	<b>10.71</b>	<b>-6.57</b>	<b>441.575</b>	<b>89.98</b>	<b>1.95</b>	<b>49.180</b>	<b>10.02</b>	<b>-5.29</b>
BECML	2.876	100.00	-12.93	0	0		2.598	100.00	-9.67	0	0	
ICML	2.929	100.00	-8.84	0	0		3.745	100.00	27.86	0	0	
JSPL	5.999	100.00	0.00	0	0		5.998	100.00	-0.02	0	0	
HIL	2.285	100.00	-1.93	0	0		2.357	100.00	3.15	0	0	
Meghalaya	6.974	100.00	20.93	0	0		7.206	100.00	3.33	0	0	
TSL	5.439	77.41	-3.55	1.587	22.59	1.02	5.975	80.08	9.85	1.486	19.92	-6.36
MIL				0.952	100.00	-4.80				0.851	100.00	-10.61
BLA	0.297	100.00	-0.67	0	0		0.299	100.00	0.67	0	0	
CML	0			0	0		0			0	0	
PANEM	8.031	100.00	-5.25	0	0		8.301	100.00	3.36	0	0	
PIL	1.000	100.00	0.00	0	0		1.000	100.00	0.00	0	0	
JNL	0.131	32.27	-59.57	0.275	67.73	16.53	0.200	41.67	52.67	0.280	58.33	1.82
JPL	5.688	100.00	-5.91	0	0		5.250	100.00	-7.70	0	0	
SIL		0.00		0.114	100.00	-18.57		0.00		0.160	100.00	40.35
UML	0.300	100.00	383.87	0	0		0.351	100.00	17.00	0	0	
KEMTA	2.275	100.00	1.02	0	0		2.189	100.00	-3.78	0	0	
ESCL	0.034	100.00	-38.18	0	0		0.106	100.00	211.76	0	0	
SEML	0.432	100.00	48.45	0	0		0.774	100.00	79.17	0	0	
BS ISPAT	0.015	100.00		0	0		0.003	100.00		0	0	
TUML							0.066	100.00		0	0	
<b>PRIVATE</b>	<b>44.705</b>	<b>93.85</b>	<b>-0.78</b>	<b>2.928</b>	<b>6.15</b>	<b>-0.64</b>	<b>46.418</b>	<b>94.36</b>	<b>3.83</b>	<b>2.777</b>	<b>5.64</b>	<b>-5.16</b>
<b>INDIA</b>	<b>477.839</b>	<b>89.70</b>	<b>0.91</b>	<b>54.855</b>	<b>10.30</b>	<b>-6.27</b>	<b>487.993</b>	<b>90.38</b>	<b>2.12</b>	<b>51.957</b>	<b>9.62</b>	<b>-5.28</b>

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 2011-12**

( Million Tonnes )

Type of Mine	OPENCAST						UNDER GROUND													Total Quantity
	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 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	23.725	100.0			23.725	77.6	2.075	30.4	3.976	58.2	0.000	0.0	0.002	0.0	0.780	11.4	6.833	22.4	30.558	
BCCL	26.725	100.0			26.725	88.5	0.125	3.6	3.205	92.0			0.046	1.3	0.106	3.0	3.482	11.5	30.207	
CCL	46.509	99.1	0.405	0.9	46.914	97.7	1.090	100.0									1.090	2.3	48.004	
NCL	66.401	100.0			66.401	100.0											0.000	0.0	66.401	
WCL	34.720	100.0			34.720	80.5	0.332	4.0	7.908	94.3					0.150	1.8	8.390	19.5	43.110	
SECL	97.429	100.0			97.429	85.6	0.246	1.5	14.676	89.4			0.118	0.7	1.368	8.3	16.408	14.4	113.837	
MCL	100.933	100.0			100.933	97.9			2.186	100.0						0.0	2.186	2.1	103.119	
NEC	0.598	100.0			0.598	99.3									0.004		0.004	0.7	0.602	
<b>CIL</b>	<b>397.040</b>	<b>99.9</b>	<b>0.405</b>	<b>0.1</b>	<b>397.445</b>	<b>91.2</b>	<b>3.868</b>	<b>10.1</b>	<b>31.951</b>	<b>83.2</b>	<b>0.000</b>	<b>0.0</b>	<b>0.166</b>	<b>0.4</b>	<b>2.408</b>	<b>6.3</b>	<b>38.393</b>	<b>8.8</b>	<b>435.838</b>	
SCCL	41.573	100.0			41.573	79.6	1.613	15.2	6.572	61.8			0.424	4.0	2.029	19.1	10.638	20.4	52.211	
JKML					0.000		0.020	100.0									0.020	100.0	0.020	
JSMDCCL	0.118	100.0			0.118	100.0											0.000	0.0	0.118	
DVC	0.328	100.0			0.328	100.0											0.000	0.0	0.328	
IISCO	0.469	100.0			0.469	78.4	0.006	4.7	0.123	95.3							0.129	21.6	0.598	
APMDTCL	0.221	100.0			0.221	100.0											0.000	0.0	0.221	
WBPDCCL	0.216	100.0			0.216	100.0											0.000	0.0	0.216	
SAIL	0.040	100.0			0.040	100.0											0.000	0.0	0.040	
DVC EMTA	1.165	100.0			1.165	100.0											0.000	0.0	1.165	
<b>PUBLIC</b>	<b>441.170</b>	<b>99.9</b>	<b>0.405</b>	<b>0.1</b>	<b>441.575</b>	<b>90.0</b>	<b>5.507</b>	<b>11.2</b>	<b>38.646</b>	<b>78.6</b>	<b>0.000</b>	<b>0.0</b>	<b>0.590</b>	<b>1.2</b>	<b>4.437</b>	<b>25.3</b>	<b>49.180</b>	<b>10.0</b>	<b>490.755</b>	
BECML	2.598	100.0			2.598	100.0											0.000	0.0	2.598	
ICML	3.745	100.0			3.745	100.0											0.000	0.0	3.745	
JSPL	5.998	100.0			5.998	100.0											0.000	0.0	5.998	
HIL	2.357	100.0			2.357	100.0											0.000	0.0	2.357	
Meghalaya	7.206	100.0			7.206	100.0											0.000	0.0	7.206	
TSL	5.975	100.0			5.975	80.1	0.575	38.7	0.911	61.3							1.486	19.9	7.461	
MIL					0.000	0.0			0.851	100.0							0.851	100.0	0.851	
BLA	0.299	100.0			0.299	100.0											0.000	0.0	0.299	
CML	0.000				0.000												0.000	0.0	0.000	
PANEM	8.301	100.0			8.301	100.0											0.000	0.0	8.301	
PIL	1.000	100.0			1.000	100.0											0.000	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					0.000				0.160	100.0							0.160	100.0	0.160	
UML	0.351	100.0			0.351	100.0											0.000	0.0	0.351	
KEMTA	2.189	100.0			2.189	100.0											0.000	0.0	2.189	
ESCL	0.106	100.0			0.106	100.0											0.000	0.0	0.106	
SEML	0.774	100.0			0.774	100.0											0.000	0.0	0.774	
BS ISPAT	0.003	100.0			0.003	100.0											0.000	0.0	0.003	
TUML	0.066	100.0			0.066	100.0											0.000	0.0	0.066	
<b>PRIVATE</b>	<b>46.418</b>	<b>100.0</b>	<b>0.000</b>	<b>0.0</b>	<b>46.418</b>	<b>94.4</b>	<b>0.575</b>	<b>20.7</b>	<b>2.202</b>	<b>79.3</b>	<b>0.000</b>	<b>0.0</b>	<b>0.000</b>	<b>0.0</b>	<b>0.000</b>	<b>0.0</b>	<b>2.777</b>	<b>100.0</b>	<b>49.195</b>	
<b>India(11-12)</b>	<b>487.588</b>	<b>99.9</b>	<b>0.405</b>	<b>0.1</b>	<b>487.993</b>	<b>90.4</b>	<b>6.082</b>	<b>11.7</b>	<b>40.848</b>	<b>78.6</b>	<b>0.000</b>	<b>0.0</b>	<b>0.590</b>	<b>1.1</b>	<b>4.437</b>	<b>8.5</b>	<b>51.957</b>	<b>9.6</b>	<b>539.950</b>	
<b>India(10-11)</b>	<b>470.460</b>	<b>98.5</b>	<b>7.379</b>	<b>1.5</b>	<b>477.839</b>	<b>89.7</b>	<b>8.045</b>	<b>14.7</b>	<b>42.501</b>	<b>77.5</b>	<b>0.000</b>	<b>0.0</b>	<b>1.048</b>	<b>1.9</b>	<b>3.261</b>	<b>5.9</b>	<b>54.855</b>	<b>10.3</b>	<b>532.694</b>	
<b>India(09-10)</b>	<b>467.391</b>	<b>98.7</b>	<b>6.128</b>	<b>1.3</b>	<b>473.519</b>	<b>88.0</b>	<b>11.668</b>	<b>19.9</b>	<b>42.619</b>	<b>72.8</b>	<b>0.000</b>	<b>0.0</b>	<b>1.279</b>	<b>2.2</b>	<b>2.957</b>	<b>5.1</b>	<b>58.523</b>	<b>11.0</b>	<b>532.042</b>	

Note: B&amp;P: Board &amp; 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 2009 - 2010			YEAR 2010 - 2011			YEAR 2011 - 2012		
	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	49.741	21.824	2.28	56.246	23.431	2.40	60.306	23.725	2.54
BCCL	61.634	23.610	2.61	83.226	25.308	3.29	81.361	26.725	3.04
CCL	56.048	45.612	1.23	62.522	46.247	1.35	65.677	46.914	1.40
NCL	177.976	67.670	2.63	182.216	66.253	2.75	201.664	66.401	3.04
WCL	133.965	36.114	3.71	115.824	34.950	3.31	122.490	34.720	3.53
SECL	129.803	90.179	1.44	137.565	95.902	1.43	113.494	97.429	1.16
MCL	66.073	101.875	0.65	88.702	98.113	0.90	85.668	100.933	0.85
NEC	7.230	1.113	6.50	5.810	1.099	5.29	4.475	0.598	7.48
<b>CIL</b>	<b>682.470</b>	<b>387.997</b>	<b>1.76</b>	<b>732.111</b>	<b>391.303</b>	<b>1.87</b>	<b>735.135</b>	<b>397.445</b>	<b>1.85</b>
SCCL	247.049	38.460	6.42	218.310	39.705	5.50	211.325	41.573	5.08
JKML		0.000					0.000	0.000	
JSMDCCL	0.838	0.461	1.82	0.379	0.399	0.95	0.153	0.118	1.30
DVC	0.183	0.141	1.30	0.890	0.311	1.30	0.890	0.328	2.71
IISCO	5.829	0.976	5.97	4.662	0.825	5.65	4.025	0.469	8.58
APMDTCL	2.181	0.251	8.69	2.181	0.299	7.29	2.181	0.221	9.87
WBPDCCL	0.518	0.115	4.50	0.934	0.257	3.63	1.461	0.216	6.76
SAIL	0.272	0.063	4.32	0.272	0.014	19.41	0.201	0.040	5.03
DVC EMTA				0.098	0.021	4.67	5.211	1.165	4.47
<b>PUBLIC</b>	<b>939.340</b>	<b>428.464</b>	<b>2.19</b>	<b>959.837</b>	<b>433.134</b>	<b>2.22</b>	<b>960.582</b>	<b>441.575</b>	<b>2.18</b>
BECML	11.790	3.303	3.57	10.025	2.876	3.49	9.410	2.598	3.62
ICML	8.450	3.213	2.63	7.679	2.929	2.62	10.511	3.745	2.81
JSPL	10.247	5.999	1.71	10.440	5.999	1.74	9.072	5.998	1.51
HIL	0.545	2.330	0.23	0.764	2.285	0.33	0.764	2.357	0.32
Meghalaya		5.767			6.974			7.206	
TSL	26.393	5.639	4.68	25.714	5.439	4.73	26.597	5.975	4.45
MIL									
BLA	1.235	0.299	4.13	1.149	0.297	3.87	2.612	0.299	8.74
CML									
PANEM	9.239	8.476	1.09	17.188	8.031	1.09	13.320	8.301	1.60
PIL	5.225	1.000	5.23	5.211	1.000	5.21	5.000	1.000	5.00
JNL	2.072	0.324	6.40	1.613	0.131	12.31	0.756	0.200	3.78
JPL	14.207	6.045	2.35	15.432	5.688	2.71	12.865	5.250	2.45
SIL									
UML	0.401	0.062	6.47	3.054	0.300	10.18	3.996	0.351	11.38
KEMTA	5.027	2.252	2.23	5.622	2.275	2.47	5.543	2.189	2.53
ESCL	1.843	0.055	33.51	1.937	0.034	56.97	3.996	0.106	37.70
SEML	2.005	0.291	6.89	2.576	0.432	5.96	2.303	0.774	2.98
BS ISPAT				0.356	0.015	23.73	0.024	0.003	8.00
TUML							0.127	0.066	1.92
<b>PRIVATE</b>	<b>98.679</b>	<b>45.055</b>	<b>2.51</b>	<b>108.760</b>	<b>44.705</b>	<b>2.88</b>	<b>106.896</b>	<b>46.418</b>	<b>2.73</b>
<b>INDIA</b>	<b>1038.019</b>	<b>473.519</b>	<b>2.22</b>	<b>1068.597</b>	<b>477.839</b>	<b>2.27</b>	<b>1067.478</b>	<b>487.993</b>	<b>2.22</b>

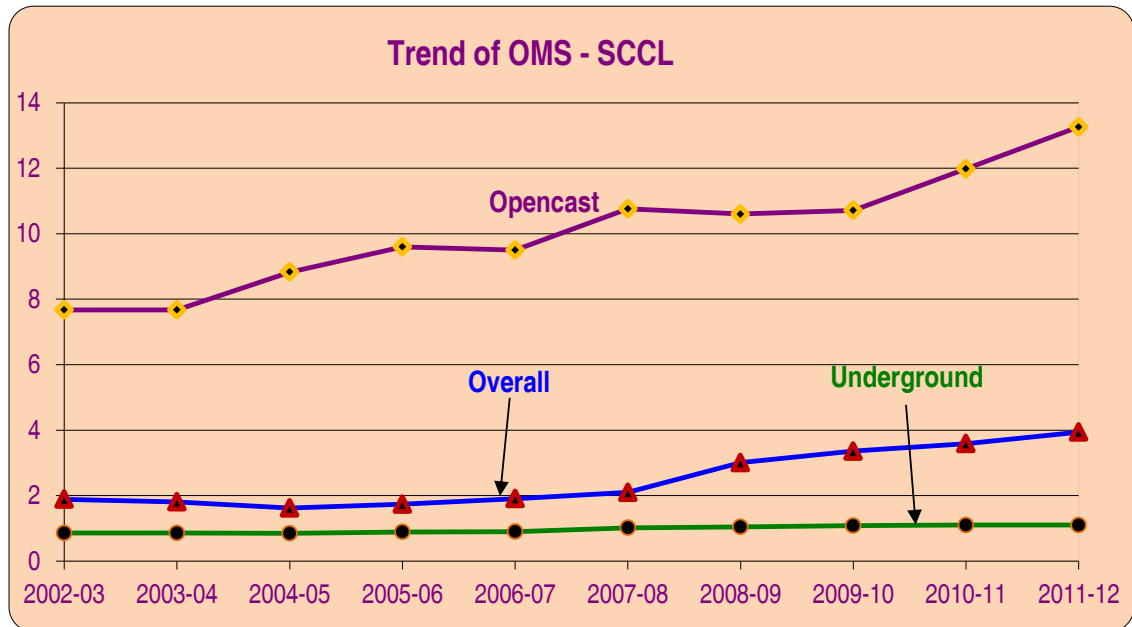
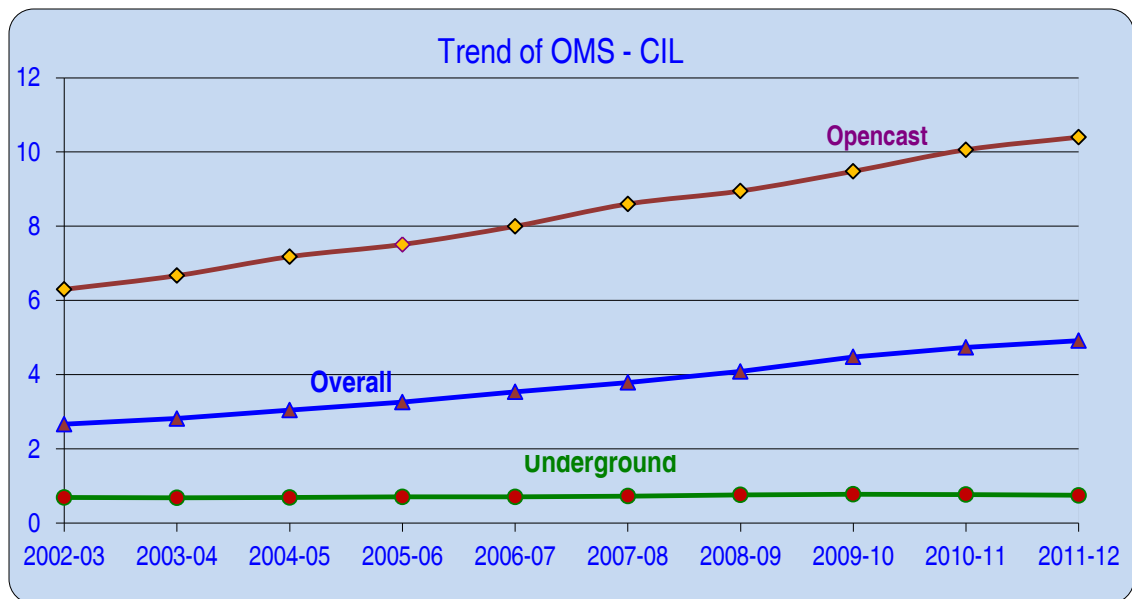
Note: (1) Stripping ratio is defined as the ratio of OBR to Coal produced in Open Cast mining.

(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**

Year	OMS ( OPEN CAST )		OMS ( UNDER GROUND )		OMS ( OVERALL )	
	CIL	SCCL	CIL	SCCL	CIL	SCCL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2002-03	6.30	7.67	0.69	0.86	2.67	1.89
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



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

Companies	Type of Mines	2009-2010			2010-2011			2011-2012		
		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	21.824	2.994	7.29	23.431	2.877	8.14	23.725	2.746	8.64
BCCL	OC	23.610	4.867	4.85	25.308	4.486	5.64	26.725	4.067	6.57
CCL	OC	45.612	8.711	5.24	46.247	8.386	5.51	46.914	7.021	5.79
NCL	OC	67.670	5.132	13.19	66.253	4.902	13.52	66.401	4.900	13.55
WCL	OC	36.114	8.722	4.12	34.950	8.438	4.14	34.720	8.227	4.22
SECL	OC	90.179	4.773	18.89	95.902	4.743	20.22	97.429	5.698	19.32
MCL	OC	101.875	5.393	18.89	98.113	4.786	20.50	100.933	4.936	20.38
NEC	OC	1.113	0.321	3.47	1.099	0.155	7.09	0.598	0.310	3.79
<b>CIL</b>	<b>OC</b>	<b>387.997</b>	<b>40.913</b>	<b>9.48</b>	<b>391.303</b>	<b>38.773</b>	<b>10.09</b>	<b>397.445</b>	<b>37.905</b>	<b>10.40</b>
<b>SCCL</b>	<b>OC</b>	<b>38.460</b>	<b>2.414</b>	<b>10.71</b>	<b>39.705</b>	<b>2.41</b>	<b>11.98*</b>	<b>41.573</b>	<b>2.520</b>	<b>13.26</b>
ECL	UG	8.234	17.542	0.47	7.372	16.370	0.45	6.833	15.454	0.44
BCCL	UG	3.902	10.016	0.39	3.696	9.397	0.39	3.482	9.672	0.36
CCL	UG	1.471	4.151	0.35	1.274	3.758	0.34	1.090	3.353	0.32
NCL	UG									
WCL	UG	9.621	8.465	1.12	8.704	7.970	1.09	8.390	7.769	1.08
SECL	UG	17.830	13.358	1.33	16.803	12.669	1.33	16.408	11.823	1.30
MCL	UG	2.204	1.709	1.29	2.167	1.737	1.25	2.186	1.758	1.24
NEC	UG				0.002	0.355	0.01	0.004	0.333	0.01
<b>CIL</b>	<b>UG</b>	<b>43.262</b>	<b>55.241</b>	<b>0.78</b>	<b>40.018</b>	<b>52.256</b>	<b>0.77</b>	<b>38.393</b>	<b>50.162</b>	<b>0.75</b>
<b>SCCL</b>	<b>UG</b>	<b>11.969</b>	<b>11.000</b>	<b>1.08</b>	<b>11.628</b>	<b>11.000</b>	<b>1.06</b>	<b>10.638</b>	<b>9.407</b>	<b>1.10</b>
ECL	ALL	30.058	20.536	1.46	30.803	19.247	1.60	30.558	18.200	1.68
BCCL	ALL	27.512	14.883	1.85	29.004	13.883	2.09	30.207	13.739	2.20
CCL	ALL	47.083	12.862	3.66	47.521	12.144	3.91	48.004	10.374	4.19
NCL	ALL	67.670	5.132	13.19	66.253	4.902	13.52	66.401	4.900	13.55
WCL	ALL	45.735	17.187	2.64	43.654	16.408	2.65	43.110	15.996	2.70
SECL	ALL	108.009	18.131	5.96	112.705	17.412	6.47	113.837	17.521	6.44
MCL	ALL	104.079	7.102	14.66	100.280	6.523	15.37	103.119	6.694	15.36
NEC	ALL	1.113	0.321	1.51	1.101	0.510	2.16	0.602	0.643	1.23
<b>CIL</b>	<b>ALL</b>	<b>431.259</b>	<b>96.154</b>	<b>4.48</b>	<b>431.321</b>	<b>91.029</b>	<b>4.74</b>	<b>435.838</b>	<b>88.067</b>	<b>4.92</b>
<b>SCCL</b>	<b>ALL</b>	<b>50.429</b>	<b>13.414</b>	<b>3.36</b>	<b>51.333</b>	<b>13.414</b>	<b>3.59*</b>	<b>52.211</b>	<b>11.927</b>	<b>3.94</b>

\* Reported by SCCL.

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

( Million Tonnes )

STATES	Production ( 2009 - 2010 )			Production ( 2010-2011 )			Production ( 2011-2012 )		
	OC	UG	TOTAL	OC	UG	TOTAL	OC	UG	TOTAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ANDHRA PRADESH	38.460	11.969	<b>50.429</b>	39.705	11.628	<b>51.333</b>	41.573	10.638	<b>52.211</b>
ARUNACHAL PRADESH	0.251		<b>0.251</b>	0.299		<b>0.299</b>	0.221		<b>0.221</b>
ASSAM	1.113		<b>1.113</b>	1.099	0.002	<b>1.101</b>	0.598	0.004	<b>0.602</b>
CHHATTISGARH	97.763	12.190	<b>109.953</b>	102.612	11.212	<b>113.824</b>	103.616	10.342	<b>113.958</b>
JAMMU & KASHMIR		0.023	<b>0.023</b>		0.024	<b>0.024</b>		0.020	<b>0.020</b>
JHARKHAND	98.271	7.646	<b>105.917</b>	101.743	7.206	<b>108.949</b>	102.947	6.619	<b>109.566</b>
MADHYA PRADESH	61.726	12.348	<b>74.074</b>	59.108	11.996	<b>71.104</b>	58.957	12.166	<b>71.123</b>
MAHARASHTRA	36.716	4.289	<b>41.005</b>	35.696	3.640	<b>39.336</b>	35.578	3.581	<b>39.159</b>
MEGHALAYA	5.767		<b>5.767</b>	6.974		<b>6.974</b>	7.206		<b>7.206</b>
ORISSA	104.205	2.204	<b>106.409</b>	100.398	2.167	<b>102.565</b>	103.290	2.186	<b>105.476</b>
UTTAR PRADESH	13.968		<b>13.968</b>	15.526		<b>15.526</b>	16.178		<b>16.178</b>
WEST BENGAL	15.279	7.854	<b>23.133</b>	14.679	6.980	<b>21.659</b>	17.829	6.401	<b>24.230</b>
<b>ALL INDIA</b>	<b>473.519</b>	<b>58.523</b>	<b>532.042</b>	<b>477.839</b>	<b>54.855</b>	<b>532.694</b>	<b>487.993</b>	<b>51.957</b>	<b>539.950</b>

# 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 2011-12 was 535.299 MT, 2.26% more than the previous year. The increase of 2.26% in despatch against the increase of 1.14% in the production indicates slightly better dispatch mechanism than the previous year.

4.1.2 Statement 4.1 shows despatch as well as off-take of raw coal in 2011-12 by different companies.

Statement 4.1 Despatches / Off-take of Raw Coal in India in 2011-12 by Company [MT]		
Company	Raw Coal	
	Despatches	Off-take
ECL	30.491	30.830
BCCL	30.070	30.158
CCL	48.033	48.041
NCL	63.605	63.605
WCL	41.959	41.968
SECL	115.139	115.154
MCL	102.521	102.527
NEC	0.800	0.800
<b>CIL</b>	<b>432.618</b>	<b>433.083</b>
SCCL	51.389	51.504
Other Public	2.893	2.894
Total Public	486.900	487.481
Total Private	48.399	48.400
<b>ALL INDIA</b>	<b>535.299</b>	<b>535.881</b>

It can be seen that the Coal India Ltd. accounted for 80.82% of coal despatches in the country. The share of SCCL in the coal despatches was 9.60% and the contribution of private sector was 9.04%. In the CIL group, the major contributors were SECL, MCL and NCL with share of 21.51%, 19.15% and 11.88% respectively at all India level. These companies collectively accounted for 52.54% 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 (0.582 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 2011-12 by different Companies which was 22.283 MT. It is observed that the private sector accounted for 26.11% of the total washed Coal despatches/Off-takes. In case of Raw Coal, the corresponding figure was 9.04% only. It needs to be noted that the ratio of washed coal despatches to raw coal dispatch was 1.00: 24.02.

Statement 4.2: Despatches / Off-take of Washed Coal in India in 2011-12 by Company [MT]		
Company	Washed Coal	
	Despatches	Off-take
BCCL	3.259	3.259
CCL	9.059	9.059
NCL	3.671	3.671
WCL	0.136	0.136
CIL	16.125	16.125
IISCO	0.339	0.339
Total Public	16.464	16.464
Total Private	5.819	5.819
<b>ALL INDIA</b>	<b>22.283</b>	<b>22.283</b>

4.1.5 In case of Middling (Table 4.9), 7.347 MT of Middling was reported to be dispatched by various companies. The share of private companies was reported to be 83.18% against the corresponding figure of 16.82% for the public sector companies.

4.1.6 Statement 4.3 provides details on Off-take of Raw Coal in India in 2011-12 by different sectors of economy. Analysis of total off-take by different sector shows that power sector accounted for 74.87% of Raw Coal Off-take (Power Utilities: 66.92%; Captive Power: 7.95%). The share of Sponge Iron, Metallurgical Uses, Non Coking Washery and Cement was reported to be 2.99%, 2.92%, 2.83% and 2.40% 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-

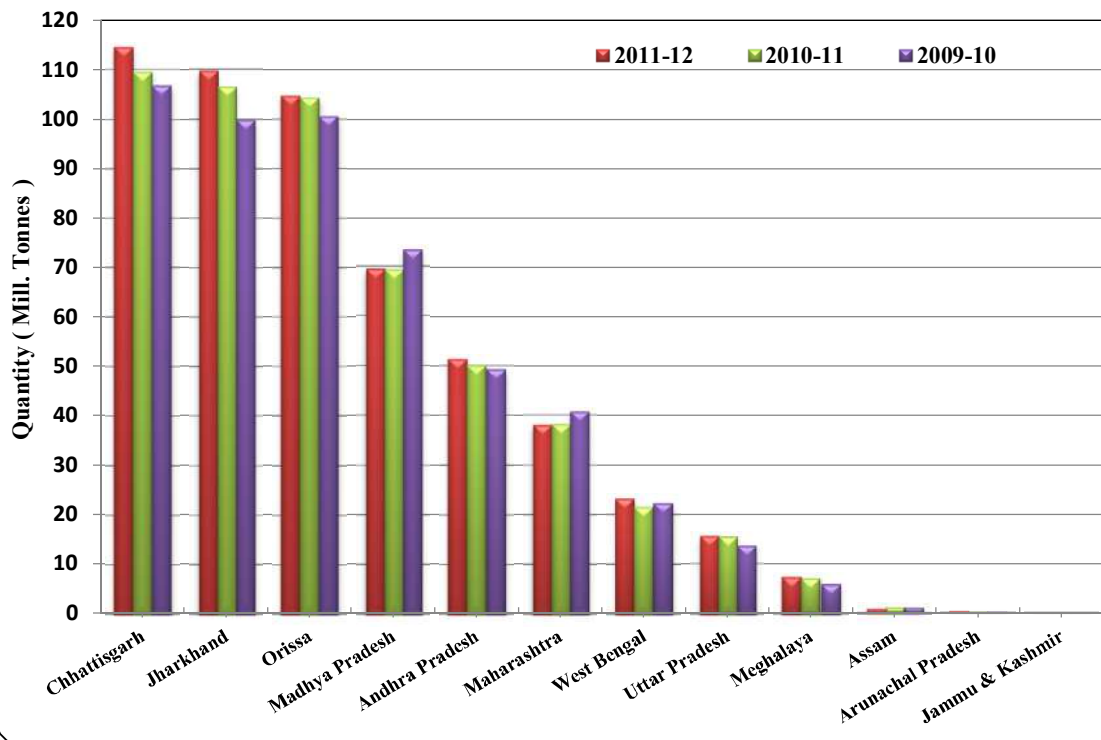
take, in case of Captive Blocks, has been almost nil.

Statement 4.3: Off-take of Raw Coal in India in 2011-12 by Sector [MT]	
Sector	Off-take [MT]
Power (Utility)	358.604
Power (Captive)	42.607
Metallurgical Use	
Direct Feed	1.034
Coking Washery	14.382
Cokeries	0.221
Non Coking Washery	15.143
Steel (Boilers)	0.417
Cement	12.88
Fertilizers	2.821
Sponge Iron	15.999
Other basic-Metal	0.24
Chemical	0.369
Pulp & Paper	2.026
Textiles & Rayons	0.258
Bricks	0.129
Other	68.169
<b>Total Despatches</b>	<b>535.299</b>
Colliery Own - Consumption	0.438
Colliery Staff	0.144
<b>Total Off-take</b>	<b>535.881</b>

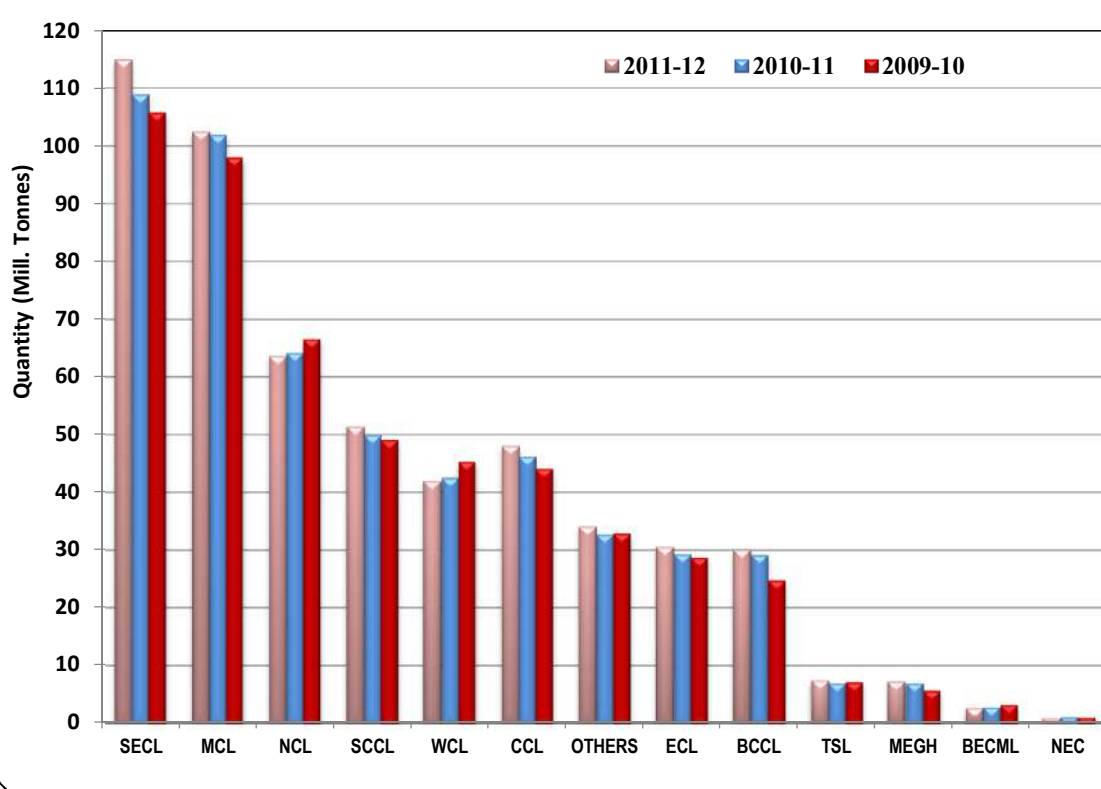
4.2.1 The despatch as well as Off-take of Lignite in 2011-12 was 41.883 MT. From the statement 4.4 it is observed that power sector has taken the lion share of 76.55% of the total off-take of lignite production in the current year (2011-12). This has been followed by Textiles & Rayons (8.76%) and Cement (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: Off-take of Lignite in India in 2011-12 by Sector [MT]	
Sector	Off-take [MT]
Power (Utility)	22.309
Power (Captive)	9.754
Cement	1.014
Chemical	0.870
Pulp & Paper	0.631
Textiles & Rayons	3.669
Bricks	0.982
Other	2.656
<b>Total Despatches</b>	<b>41.883</b>

Ch. IV.1: Despatches of Raw Coal from different States during last 3 years

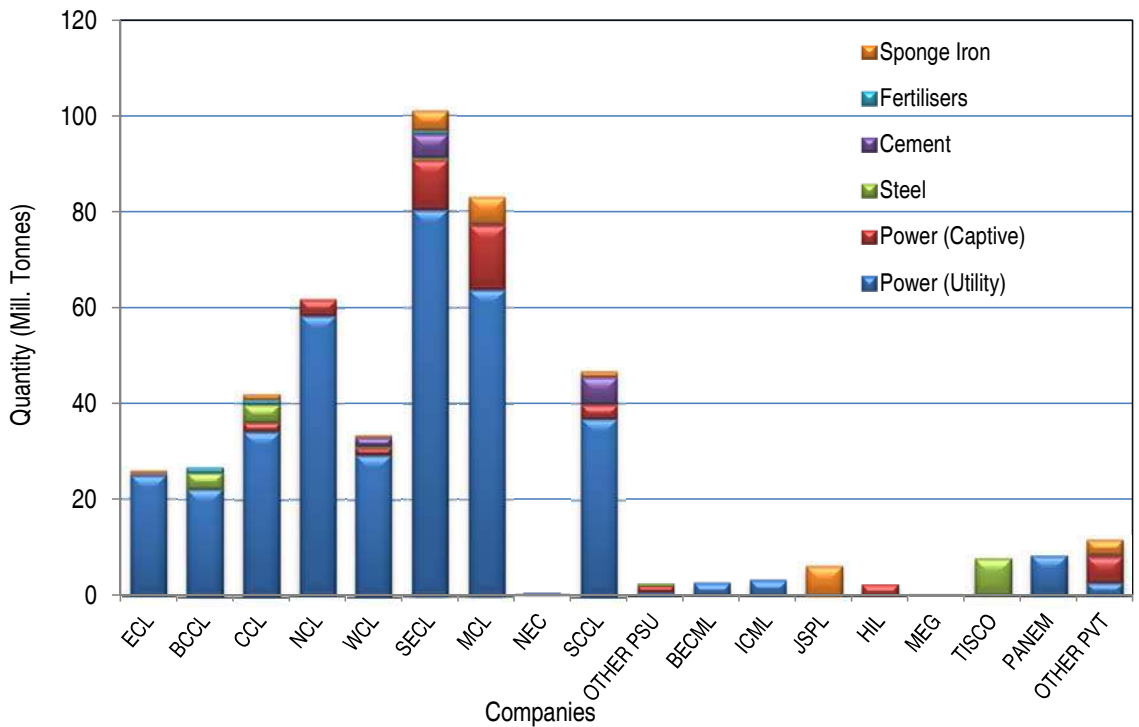


Ch. IV.2: Despatches of Raw Coal from different companies during last 3 years

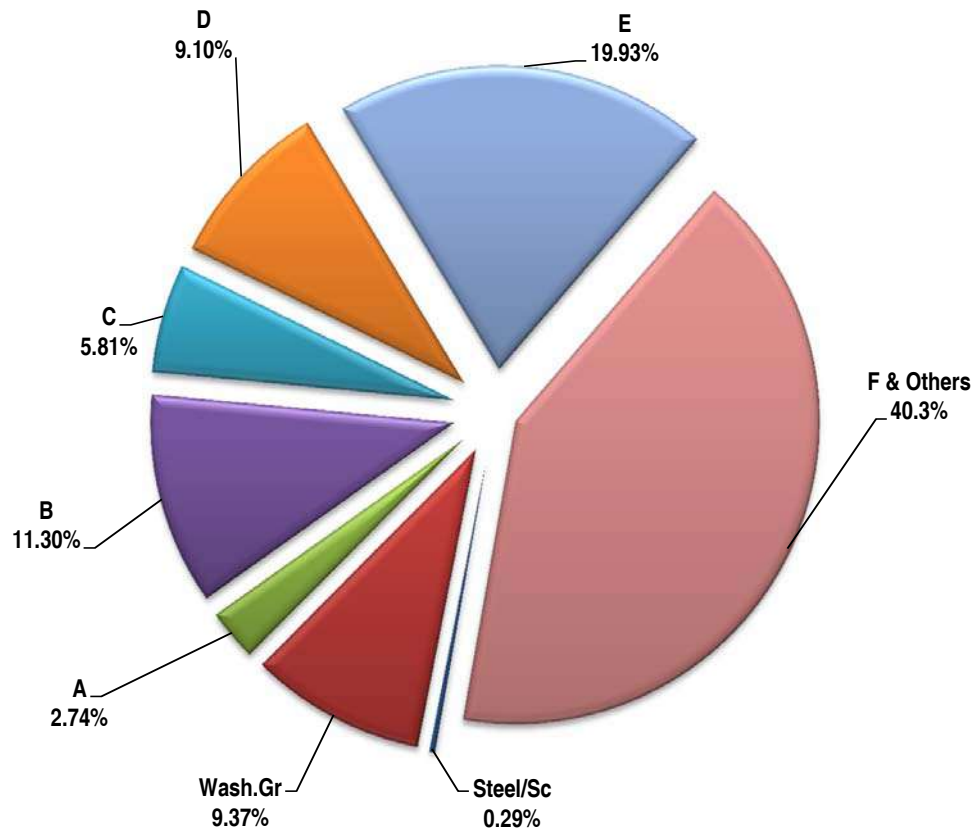




**Chart 4.3: Sectorwise Despatches of Raw Coal from differant companies in 2011-12**



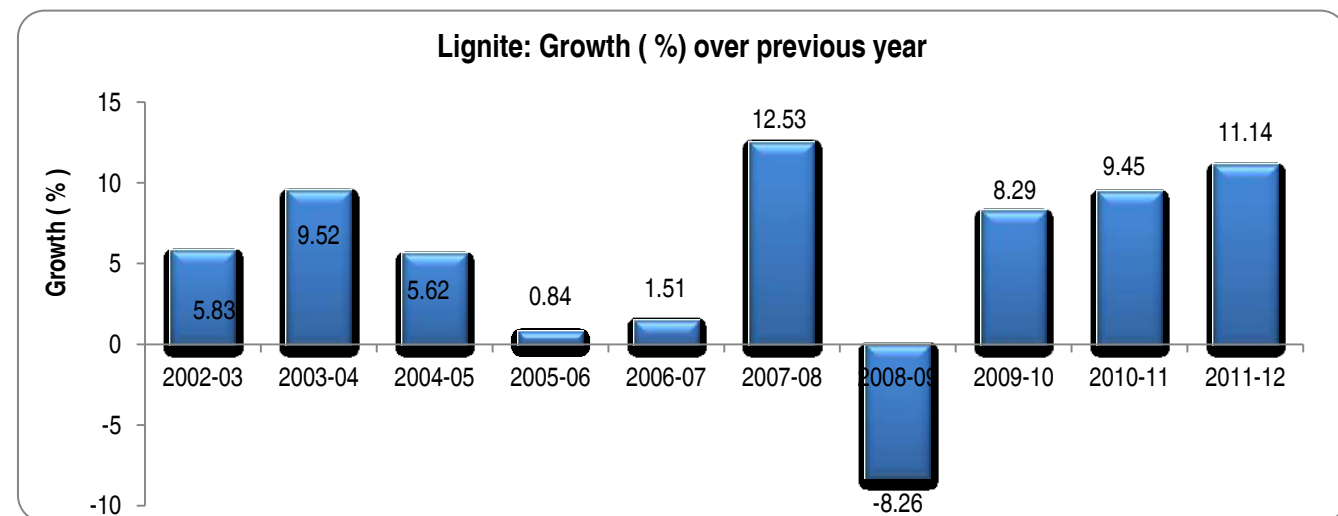
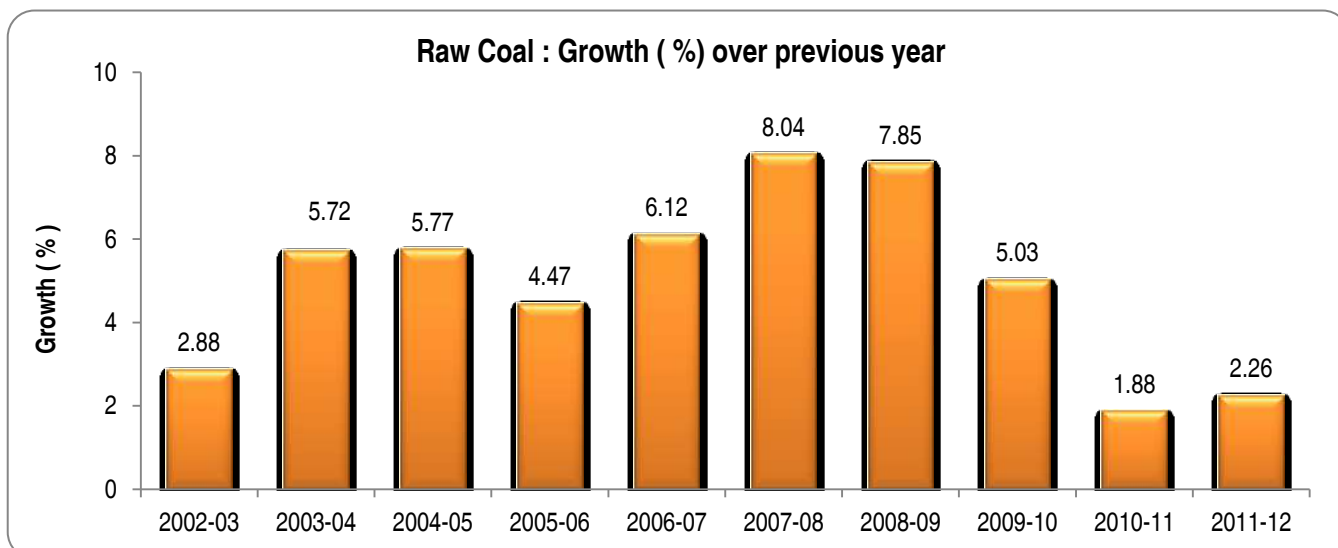
**Ch.4.4: Share of diff. Grades of Raw Coal Despatched in 2011-12**



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

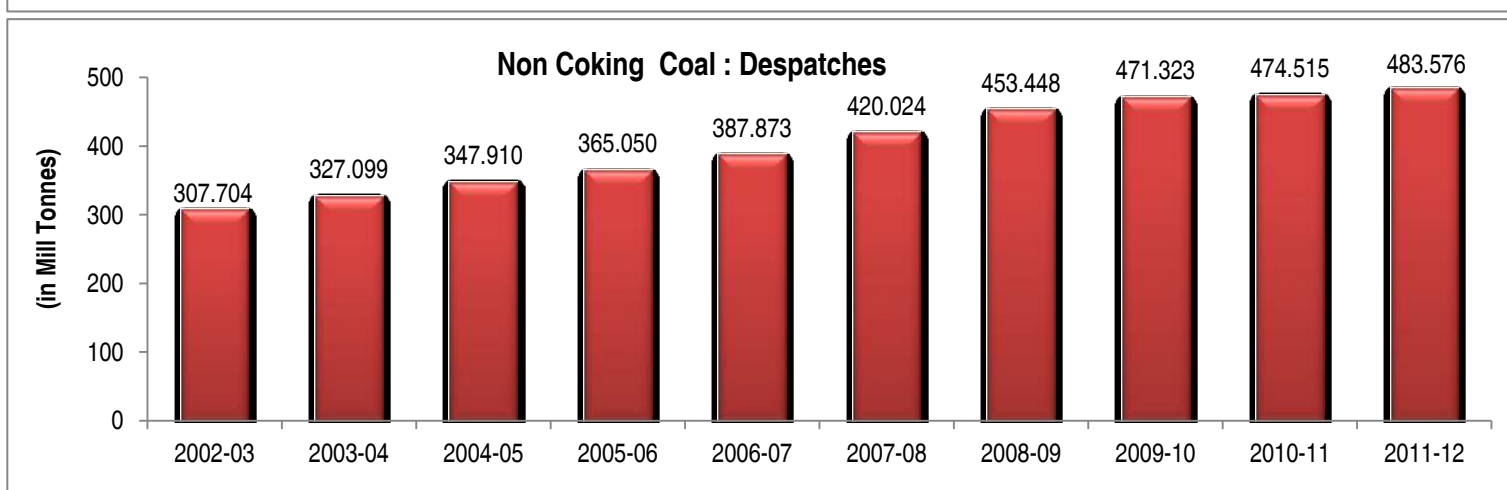
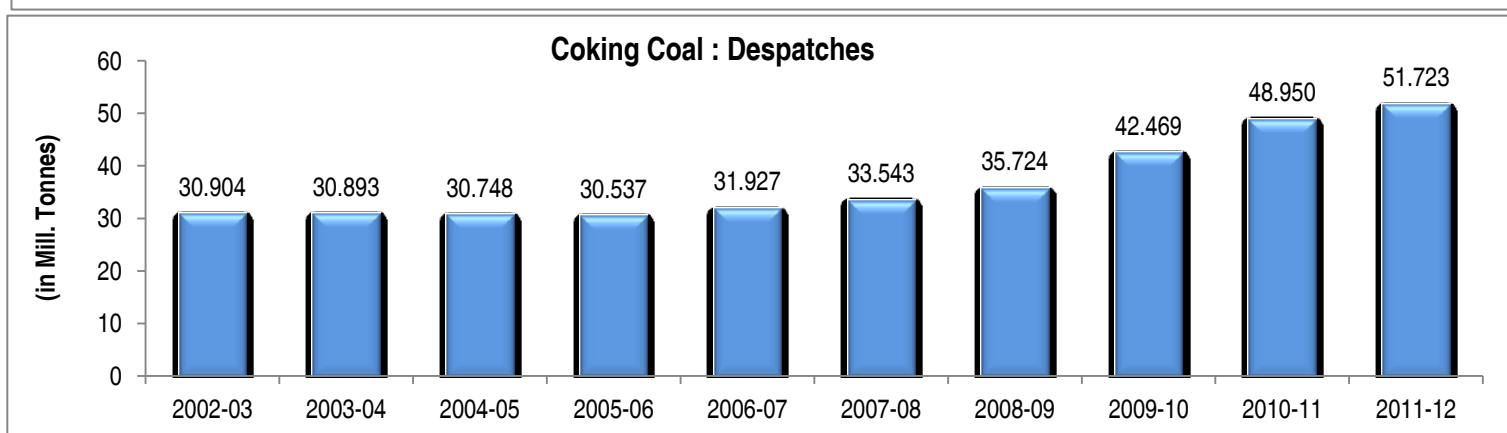
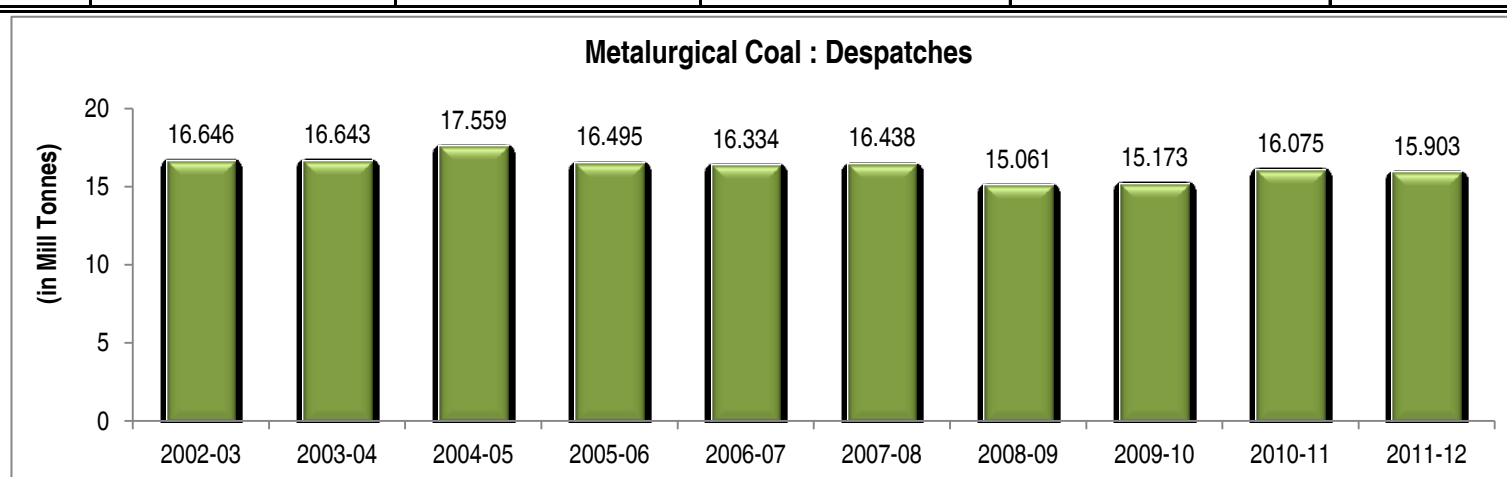
(Million Tonnes)

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)
2002-03	338.608	92.87	2.88	26.010	7.13	5.83	364.618	3.08
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



**TABLE 4.2: TREND OF DESPATCHES OF DIFFERENT TYPES OF RAW COAL DURING LAST TEN YEARS**  
(Million Tonnes)

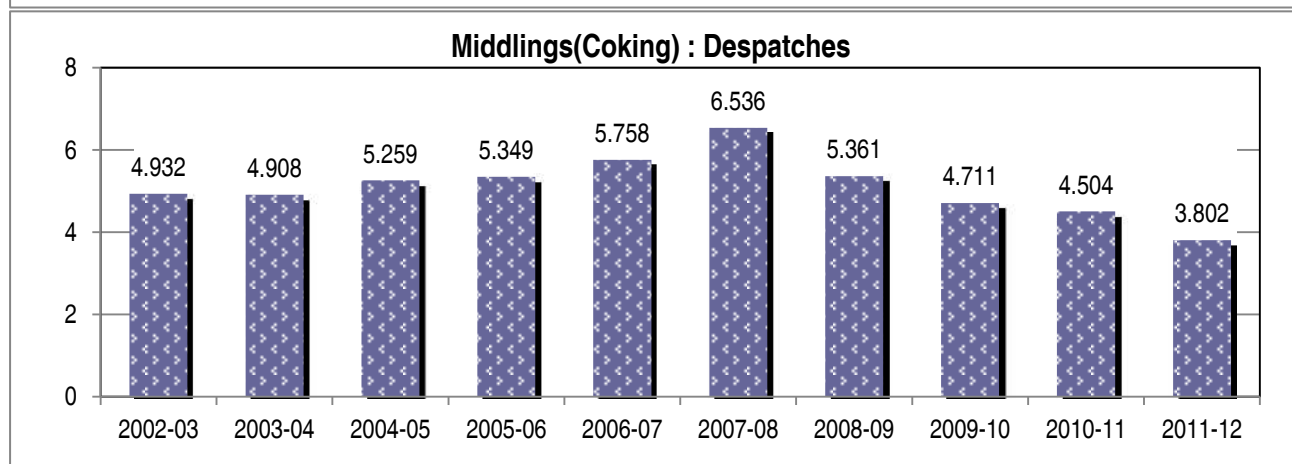
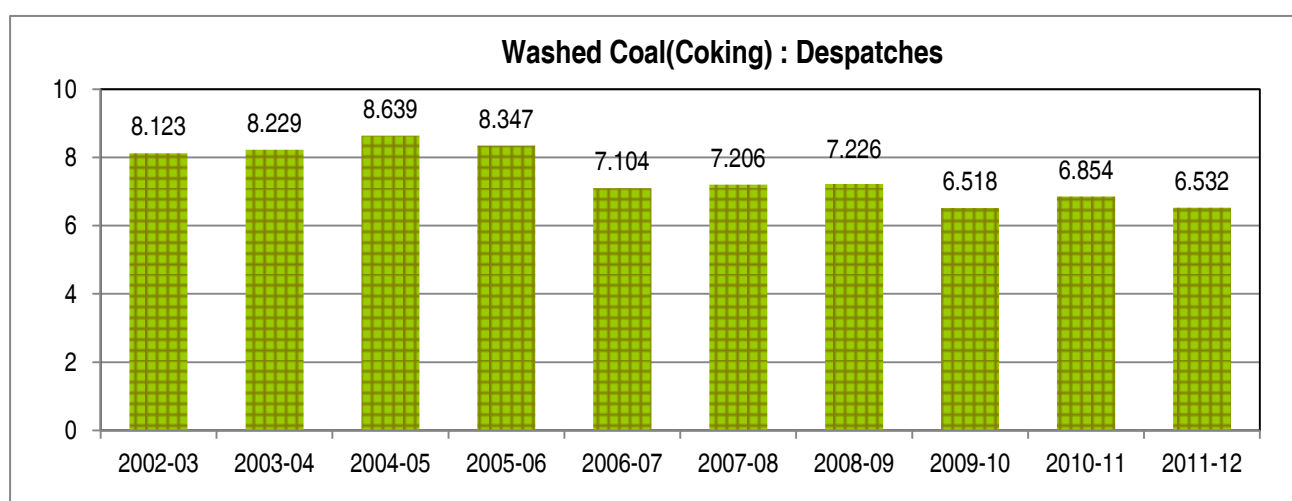
Year	Coking Coal									Non Coking Coal			Raw Coal	
	Metallurgical Coal			Non Metallurgical Coal			Total Coking Coal			Despatches	Share in in coking coal(%)	Change over previous year (%)	Despatches	Change over previous year (%)
	Despatches	Share in in coking coal(%)	Change over previous year (%)	Despatches	Share in in coking coal(%)	Change over previous year (%)	Despatches	Share in in coking coal(%)	Change over previous year (%)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
2002-03	16.646	53.86	3.47	14.258	46.14	6.05	30.904	9.13	4.65	307.704	90.87	2.70	338.608	2.88
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



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

( 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)
2002-03	8.123	1.75			4.932	-3.80			13.702	1.54
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	10.689	-13.53
2011-12	6.532	-4.70	15.751	8.35	3.802	-15.59	3.545	-6.46	10.146	-5.08



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**  
( 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)
<b>2009-10</b>												
April - June	10.035	25.0	23.6	113.277	7.7	24.0	123.312	8.9	24.0	9.334	10.3	27.1
July - Sept.	10.379	28.7	24.4	106.330	1.7	22.6	116.709	3.6	22.7	7.572	8.2	22.0
Oct. - Dec.	10.634	15.0	25.0	122.124	3.3	25.9	132.758	4.2	25.8	7.927	18.9	23.0
Jan. - Mar.	11.421	9.9	26.9	129.592	3.3	27.5	141.013	3.8	27.4	9.597	-0.6	27.9
<b>TOTAL</b>	<b>42.469</b>	<b>18.9</b>	<b>100.0</b>	<b>471.323</b>	<b>3.9</b>	<b>100.0</b>	<b>513.792</b>	<b>5.0</b>	<b>100.0</b>	<b>34.430</b>	<b>8.3</b>	<b>100.0</b>
<b>2010-11</b>												
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
<b>TOTAL</b>	<b>48.937</b>	<b>15.2</b>	<b>100.0</b>	<b>474.528</b>	<b>0.7</b>	<b>100.0</b>	<b>523.465</b>	<b>1.9</b>	<b>100.0</b>	<b>37.685</b>	<b>9.5</b>	<b>100.0</b>
<b>2011-12</b>												
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
<b>TOTAL</b>	<b>51.723</b>	<b>5.7</b>	<b>100.0</b>	<b>483.576</b>	<b>1.9</b>	<b>100.0</b>	<b>535.299</b>	<b>2.3</b>	<b>100.0</b>	<b>41.883</b>	<b>11.1</b>	<b>100.0</b>

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**  
( 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)
<b>2009-10</b>															
April - June	1.542	-14.2	23.7	3.134	3.0	22.4	1.231	-5.2	26.1	0.860	31.5	23.1	2.944	-4.9	23.8
July - Sept.	1.519	-11.7	23.3	3.268	13.4	23.4	1.236	-8.2	26.2	0.751	-15.5	20.2	3.083	-7.3	24.9
Oct. - Dec.	1.639	-6.2	25.1	3.769	0.9	27.0	1.153	-17.0	24.5	1.004	-19.8	26.9	3.201	2.1	25.9
Jan. - Mar.	1.818	-7.2	27.9	3.810	0.6	27.3	1.091	-17.8	23.2	1.111	-9.2	29.8	3.133	7.7	25.3
<b>TOTAL</b>	<b>6.518</b>	<b>-9.8</b>	<b>100.0</b>	<b>13.981</b>	<b>4.0</b>	<b>100.0</b>	<b>4.711</b>	<b>-12.1</b>	<b>100.0</b>	<b>3.726</b>	<b>-7.3</b>	<b>100.0</b>	<b>12.361</b>	<b>-0.8</b>	<b>100.0</b>
<b>2010-11</b>															
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	2.593	-11.9	24.3
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	2.594	-15.9	24.3
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	2.793	-12.7	26.1
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	2.709	-13.5	25.3
<b>TOTAL</b>	<b>6.854</b>	<b>5.2</b>	<b>100.0</b>	<b>14.537</b>	<b>4.0</b>	<b>100.0</b>	<b>4.504</b>	<b>-4.4</b>	<b>100.0</b>	<b>3.790</b>	<b>1.7</b>	<b>100.0</b>	<b>10.689</b>	<b>-13.5</b>	<b>100.0</b>
<b>2011-12</b>															
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	2.546	-1.8	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	2.505	-3.4	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	2.567	-8.1	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	2.528	-6.7	24.9
<b>TOTAL</b>	<b>6.532</b>	<b>-4.7</b>	<b>100.0</b>	<b>15.751</b>	<b>8.4</b>	<b>108.4</b>	<b>3.802</b>	<b>-15.6</b>	<b>84.4</b>	<b>3.545</b>	<b>-6.5</b>	<b>93.5</b>	<b>10.146</b>	<b>-5.1</b>	<b>100.0</b>

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 2011-12**

( 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-11	4.231	7.7	8.18	41.897	8.7	8.66	46.128	8.6	8.62	3.594	4.2	8.58
May-11	4.249	1.2	8.21	39.355	2.5	8.14	43.604	2.4	8.15	3.753	14.5	8.96
Jun-11	4.212	11.5	8.14	38.527	3.4	7.97	42.739	4.1	7.98	3.443	5.4	8.22
<b>1st Quarter</b>	<b>12.692</b>	<b>6.6</b>	<b>24.54</b>	<b>119.779</b>	<b>4.9</b>	<b>24.77</b>	<b>132.471</b>	<b>5.0</b>	<b>24.75</b>	<b>10.790</b>	<b>8.0</b>	<b>25.76</b>
Jul-11	4.312	9.6	8.34	39.480	6.0	8.16	43.792	6.3	8.18	2.988	6.2	7.13
Aug-11	3.976	-1.2	7.69	34.478	-7.3	7.13	38.454	-6.7	7.18	2.810	1.3	6.71
Sep-11	4.010	3.6	7.75	30.580	-12.3	6.32	34.590	-10.7	6.46	2.831	5.1	6.76
<b>2nd Quarter</b>	<b>12.298</b>	<b>3.9</b>	<b>23.78</b>	<b>104.538</b>	<b>-4.4</b>	<b>21.62</b>	<b>116.836</b>	<b>-3.6</b>	<b>21.83</b>	<b>8.629</b>	<b>4.2</b>	<b>20.60</b>
Oct-11	3.798	-4.0	7.34	36.712	-8.7	7.59	40.510	-8.3	7.57	3.172	5.3	7.57
Nov-11	4.291	10.8	8.30	41.648	3.2	8.61	45.939	3.9	8.58	3.159	33.2	7.54
Dec-11	4.349	-1.2	8.41	44.727	4.2	9.25	49.076	3.7	9.17	3.512	19.1	8.39
<b>3rd Quarter</b>	<b>12.438</b>	<b>1.7</b>	<b>24.05</b>	<b>123.087</b>	<b>-0.4</b>	<b>25.45</b>	<b>135.525</b>	<b>-0.2</b>	<b>25.32</b>	<b>9.843</b>	<b>18.1</b>	<b>23.50</b>
Jan-12	4.643	9.1	8.98	44.750	2.7	9.25	49.393	3.3	9.23	4.177	11.1	9.97
Feb-12	4.439	9.1	8.58	44.301	13.5	9.16	48.740	13.1	9.11	4.122	15.8	9.84
Mar-12	5.213	12.1	10.08	47.121	5.1	9.74	52.334	5.7	9.78	4.322	14.9	10.32
<b>4th Quarter</b>	<b>14.295</b>	<b>10.2</b>	<b>27.64</b>	<b>136.172</b>	<b>6.8</b>	<b>28.16</b>	<b>150.467</b>	<b>7.1</b>	<b>28.11</b>	<b>12.621</b>	<b>13.9</b>	<b>30.13</b>
<b>Yr. 2011-12</b>	<b>51.723</b>	<b>5.7</b>	<b>100.00</b>	<b>483.576</b>	<b>1.9</b>	<b>100.00</b>	<b>535.299</b>	<b>2.3</b>	<b>100.00</b>	<b>41.883</b>	<b>11.1</b>	<b>100.00</b>

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

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

Cont....

**TABLE 4.5: MONTHLY DESPATCHES OF DIFFERENT TYPES OF COAL, LIGNITE AND COAL PRODUCTS IN 2011-12**

( 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-11	0.589	-3.3	9.02	1.485	26.8	9.43	0.359	-3.5	9.44	0.287	26.4	8.10	0.870	0.7	8.57
May-11	0.477	-15.7	7.30	1.298	31.1	8.24	0.296	-23.7	7.79	0.303	8.2	8.55	0.870	-0.6	8.57
Jun-11	0.539	-5.8	8.25	1.240	5.5	7.87	0.339	-11.7	8.92	0.198	-37.3	5.59	0.806	-5.6	7.94
<b>1st Quarter</b>	<b>1.605</b>	<b>-8.1</b>	<b>24.57</b>	<b>4.023</b>	<b>20.6</b>	<b>25.54</b>	<b>0.994</b>	<b>-13.1</b>	<b>26.14</b>	<b>0.788</b>	<b>-4.3</b>	<b>22.23</b>	<b>2.546</b>	<b>-1.8</b>	<b>25.09</b>
Jul-11	0.566	-2.1	8.67	1.264	5.5	8.02	0.340	-6.6	8.94	0.227	-18.6	6.40	0.835	-8.0	8.23
Aug-11	0.510	-15.4	7.81	1.077	-14.0	6.84	0.350	-3.3	9.21	0.247	-7.8	6.97	0.839	0.7	8.27
Sep-11	0.513	-7.6	7.85	1.102	0.2	7.00	0.300	-4.2	7.89	0.264	-17.0	7.45	0.831	-2.6	8.19
<b>2nd Quarter</b>	<b>1.589</b>	<b>-8.5</b>	<b>24.33</b>	<b>3.443</b>	<b>-3.0</b>	<b>21.86</b>	<b>0.990</b>	<b>-4.7</b>	<b>26.04</b>	<b>0.738</b>	<b>-14.7</b>	<b>20.82</b>	<b>2.505</b>	<b>-3.4</b>	<b>24.69</b>
Oct-11	0.487	-21.1	7.46	1.197	-3.8	7.60	0.295	-15.0	7.76	0.281	-11.4	7.93	0.860	-7.9	8.48
Nov-11	0.559	-6.1	8.56	1.432	16.8	9.09	0.299	-18.3	7.86	0.250	-27.7	7.05	0.837	-9.1	8.25
Dec-11	0.549	18.8	8.40	1.574	25.0	9.99	0.286	-28.7	7.52	0.414	6.7	11.68	0.870	-7.2	8.57
<b>3rd Quarter</b>	<b>1.595</b>	<b>-4.7</b>	<b>24.42</b>	<b>4.203</b>	<b>12.7</b>	<b>26.68</b>	<b>0.880</b>	<b>-21.0</b>	<b>23.15</b>	<b>0.945</b>	<b>-10.1</b>	<b>26.66</b>	<b>2.567</b>	<b>-8.1</b>	<b>25.30</b>
Jan-12	0.577	7.2	8.83	1.454	9.2	9.23	0.320	-28.6	8.42	0.386	-6.3	10.89	0.842	-8.2	8.30
Feb-12	0.595	6.2	9.11	1.314	5.3	8.34	0.335	-4.0	8.81	0.339	23.3	9.56	0.804	-5.0	7.92
Mar-12	0.571	-4.7	8.74	1.314	-2.1	8.34	0.283	-31.0	7.44	0.349	-4.1	9.84	0.882	-6.8	8.69
<b>4th Quarter</b>	<b>1.743</b>	<b>2.7</b>	<b>26.68</b>	<b>4.082</b>	<b>4.1</b>	<b>25.92</b>	<b>0.938</b>	<b>-22.3</b>	<b>24.67</b>	<b>1.074</b>	<b>2.2</b>	<b>30.30</b>	<b>2.528</b>	<b>-6.7</b>	<b>24.92</b>
<b>Yr. 2011-12</b>	<b>6.532</b>	<b>-4.7</b>	<b>100.00</b>	<b>15.751</b>	<b>8.4</b>	<b>100.00</b>	<b>3.802</b>	<b>-15.6</b>	<b>100.00</b>	<b>3.545</b>	<b>-6.5</b>	<b>100.00</b>	<b>10.146</b>	<b>-5.1</b>	<b>100.00</b>

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**

( 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)
2002-03	33.367	9.85	7.49	0.640	0.19	3.23	58.835	17.38	7.31
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	9.53	1.58	1.102	0.21	2.89	109.562	20.86	2.47
2011-12	51.389	9.60	2.68	0.800	0.15	-27.40	114.610	21.41	4.61

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)
2002-03	0.024	0.01	-7.69	75.840	22.40	0.58	44.990	13.29	7.77
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	20.30	6.78	69.443	13.22	-5.50
2011-12	0.023	0.00	-8.00	109.792	20.51	2.96	69.560	12.99	0.17

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)
2002-03	31.779	9.39	-0.03	4.406	1.30	-16.86	51.360	15.17	4.75
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	7.28	-6.14	6.974	1.33	17.31	104.359	19.87	3.75
2011-12	38.108	7.12	-0.35	7.206	1.35	3.22	104.819	19.58	0.44

Contd....

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

( 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)
2002-03	17.313	5.11	-7.71	20.054	5.92	-3.36			
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	2.93	13.29	23.203	4.42	4.24	0.245	0.05	8.41
2011-12	15.467	2.89	0.48	23.203	4.33	0.00	0.322	0.06	31.43

Year	All India	
	Quantity	Growth(%)
(41)	(42)	(43)
2002-03	<b>338.608</b>	<b>2.88</b>
2003-04	<b>357.992</b>	<b>5.72</b>
2004-05	<b>378.658</b>	<b>5.77</b>
2005-06	<b>395.587</b>	<b>4.47</b>
2006-07	<b>419.800</b>	<b>6.12</b>
2007-08	<b>453.567</b>	<b>8.04</b>
2008-09	<b>489.172</b>	<b>7.85</b>
2009-10	<b>513.792</b>	<b>5.03</b>
2010-11	<b>525.229</b>	<b>2.23</b>
2011-12	<b>535.299</b>	<b>1.92</b>

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

( Million Tonnes)

Year	State: Tamilnadu			State: Gujarat		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2002-03	18.609	71.55	2.98	6.928	26.64	11.20
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

Year	State: Rajasthan			ALL INDIA	
	Quantity	Share (%)	Growth (%)	Quantity	Growth (%)
(8)	(9)	(10)	(11)	(12)	(13)
2002-03	0.473	1.82	70.76	<b>26.010</b>	<b>5.83</b>
2003-04	0.678	2.38	43.34	<b>28.486</b>	<b>9.52</b>
2004-05	0.548	1.82	-19.17	<b>30.087</b>	<b>5.62</b>
2005-06	0.677	2.23	23.54	<b>30.339</b>	<b>0.84</b>
2006-07	0.467	1.52	-31.02	<b>30.797</b>	<b>1.51</b>
2007-08	0.606	1.75	29.76	<b>34.657</b>	<b>12.53</b>
2008-09	0.999	3.14	64.85	<b>31.793</b>	<b>-8.26</b>
2009-10	1.207	3.51	20.82	<b>34.430</b>	<b>8.29</b>
2010-11	1.525	4.05	26.35	<b>37.685</b>	<b>9.45</b>
2011-12	2.963	7.07	94.30	<b>41.883</b>	<b>11.14</b>

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

(Million Tonnes)

Company	2009-10			2010-11			2011-12		
	Coking	Non-Coking	Total	Coking	Non-Coking	Total	Coking	Non-Coking	Total
(1)	(5)	(6)	(7)	(8)	(9)	(10)	(8)	(9)	(10)
ECL	0.055	28.772	28.827	0.050	29.314	29.364	0.099	30.392	30.491
BCCL	18.953	5.910	24.863	25.674	3.577	29.251	27.132	2.938	30.070
CCL	14.434	29.840	44.274	14.555	31.663	46.218	15.701	32.332	48.033
NCL	0	66.669	66.669	0	64.208	64.208	0	63.605	63.605
WCL	0.540	44.959	45.499	0.421	42.130	42.551	0.310	41.649	41.959
SECL	0.150	105.720	105.870	0.163	108.837	109.000	0.189	114.950	115.139
MCL	0	98.147	98.147	0.000	102.087	102.087		102.521	102.521
NEC	0	1.071	1.071	0.000	1.102	1.102		0.800	0.800
<b>CIL</b>	<b>34.132</b>	<b>381.088</b>	<b>415.220</b>	<b>40.863</b>	<b>382.918</b>	<b>423.781</b>	<b>43.431</b>	<b>389.187</b>	<b>432.618</b>
SCCL	0	49.266	49.266	0	50.046	50.046		51.389	51.389
JKML	0	0.017	0.017	0	0.025	0.025		0.023	0.023
JSMDCL	0	0.461	0.461	0	0.399	0.399		0.118	0.118
DVC	0.205	0	0.205	0.193	0	0.193	0.410	0	0.410
IISCO	0.934	0.357	1.291	0.855	0.234	1.089	0.434	0.164	0.598
APMDTCL	0	0.226	0.226	0	0.245	0.245		0.322	0.322
SAIL	0	0.058	0.058	0.014	0.000	0.014	0.040		0.040
WBPDCCL	0	0.101	0.101	0	0.268	0.268		0.213	0.213
DVC EMTA	0	0	0	0	0	0		1.169	1.169
<b>Total Public</b>	<b>35.271</b>	<b>431.574</b>	<b>466.845</b>	<b>41.925</b>	<b>434.135</b>	<b>476.060</b>	<b>44.315</b>	<b>442.585</b>	<b>486.900</b>
BECML	0	3.300	3.300	0	2.883	2.883		2.581	2.581
ICML	0	2.985	2.985	0	2.923	2.923		3.168	3.168
JSPL	0	5.999	5.999	0	5.995	5.995		5.993	5.993
Meghalaya	0	5.767	5.767	0	6.974	6.974		7.206	7.206
TSL	7.169	0.052	7.221	7.003	0.023	7.026	7.371	0.067	7.438
MIL	0	1.000	1.000	0	0.960	0.960		0.846	0.846
BLA	0	0.301	0.301	0	0.297	0.297		0.299	0.299
CML	0	0	0	0	0	0		0	0
HIL	0	2.444	2.444	0	2.272	2.272		2.298	2.298
PANEM	0	8.449	8.449	0	8.126	8.126		8.278	8.278
PIL	0	1.000	1.000	0	1.000	1.000		1.000	1.000
JNL	0	0.519	0.519	0	0.477	0.477		0.457	0.457
JPL	0	5.249	5.249	0	5.249	5.249		5.249	5.249
SIL	0	0.137	0.137	0	0.102	0.102		0.164	0.164
ESCL	0.029	0	0.029	0.022	0	0.022	0.037	0	0.037
UML	0	0.058	0.058	0	0.300	0.300		0.351	0.351
KEMTA	0	2.216	2.216	0	2.368	2.368		2.205	2.205
SEML	0	0.273	0.273	0	0.431	0.431		0.784	0.784
BS ISPAT				0	0	0		0.006	0.006
TUML								0.039	0.039
<b>Total Private</b>	<b>7.198</b>	<b>39.749</b>	<b>46.947</b>	<b>7.025</b>	<b>40.380</b>	<b>47.405</b>	<b>7.408</b>	<b>40.991</b>	<b>48.399</b>
<b>ALL INDIA</b>	<b>42.469</b>	<b>471.323</b>	<b>513.792</b>	<b>48.950</b>	<b>474.515</b>	<b>523.465</b>	<b>51.723</b>	<b>483.576</b>	<b>535.299</b>
<b>LIGNITE :</b>									
NLC			22.812			23.081			24.472
GMDCL			8.374			10.232			11.343
GIPCL			1.714			2.548			2.716
RSMMML			1.207			0.883			2.120
GHCL			0.323			0.299			0.389
VS LIGNITE						0.642			0.843
<b>ALL INDIA</b>			<b>34.430</b>			<b>37.685</b>			<b>41.883</b>
<b>COAL &amp; LIGNITE</b>			<b>548.222</b>			<b>561.150</b>			<b>577.182</b>

**TABLE 4.9 : DESPATCHES OF RAW COAL AND COAL PRODUCTS (Washed Coal and Middlings)  
BY COMPANIES IN 2011-12**

(Million Tonnes)

Company	Raw Coal		Washed Coal		Middlings	
	Despatches	Offtake	Despatches	Offtake	Despatches	Offtake
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>COAL :</b>						
ECL	30.491	30.830				
BCCL	30.070	30.158	3.259	3.259		
CCL	48.033	48.041	9.059	9.059	0.944	0.944
NCL	63.605	63.605	3.671	3.671	0	0.000
WCL	41.959	41.968	0.136	0.136	0.098	0.098
SECL	115.139	115.154				
MCL	102.521	102.527				
NEC	0.800	0.800				
<b>CIL</b>	<b>432.618</b>	<b>433.083</b>	<b>16.125</b>	<b>16.125</b>	<b>1.042</b>	<b>1.042</b>
SCCL	51.389	51.504				
JKML	0.023	0.023				
JSMDCL	0.118	0.118				
DVC	0.410	0.411				
IISCO	0.598	0.598	0.339	0.339	0.194	0.194
APMDTCL	0.322	0.322				
SAIL	0.040	0.040				
WBPDCCL	0.213	0.213				
DVCEMTA	1.169	1.169				
<b>Total Public</b>	<b>486.900</b>	<b>487.481</b>	<b>16.464</b>	<b>16.464</b>	<b>1.236</b>	<b>1.236</b>
BECML	2.581	2.581				
ICML	3.168	3.168				
JSPL	5.993	5.993	2.062	2.062	3.522	3.522
MEG	7.206	7.206				
TSL	7.438	7.438	3.267	3.267	2.566	2.566
MIL	0.846	0.846				
BLA	0.299	0.299	0.281	0.281	0.008	0.008
CML	0.000	0.000				
HIL	2.298	2.298				
PANEM	8.278	8.278				
PIL	1.000	1.000				
JNL	0.457	0.458				
JPL	5.249	5.249				
SIL	0.164	0.164				
ESCL	0.037	0.037				
UML	0.351	0.351				
KEMTA	2.205	2.205				
SEML	0.784	0.784	0.209	0.209	0.015	0.015
BSIL	0.006	0.006				
TUML	0.039	0.039				
<b>PRIVATE</b>	<b>48.399</b>	<b>48.400</b>	<b>5.819</b>	<b>5.819</b>	<b>6.111</b>	<b>6.111</b>
<b>ALL INDIA</b>	<b>535.299</b>	<b>535.881</b>	<b>22.283</b>	<b>22.283</b>	<b>7.347</b>	<b>7.347</b>

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

YEAR	Companies	Hard Coke	CIL Coke	Coke Fines	Coal gas (Unit: NM3)	Coal Fines
2009-10	BCCL					
	CCL					
	WCL					
	DCC		17	82	55	156
	SAIL	8224				
	RINL	2240				
	TSL	1897				
	<b>TOTAL</b>		<b>12361</b>	<b>17</b>	<b>82</b>	<b>55</b>
2010-11	BCCL					
	CCL					
	WCL					
	DCC		31	61	6	138
	SAIL	8724				
	RINL					
	TSL	1965				
	<b>TOTAL</b>		<b>10689</b>	<b>31</b>	<b>61</b>	<b>6</b>
2011-12	BCCL	3				
	CCL					
	WCL					
	DCC		14	7	41	145
	SAIL	8203				
	RINL	2197				
	TSL	1940				
	<b>TOTAL</b>		<b>12343</b>	<b>14</b>	<b>7</b>	<b>41</b>

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

( Million Tonnes)

States	Company	2009-10			2010-11			2011-12		
		Coking	N-Coking	Total	Coking	N-Coking	Total	Coking	N-Coking	Total
(1)	(2)	(6)	(7)	(8)	(9)	(10)	(11)	(9)	(10)	(11)
<b>Andhra Pradesh</b>	<b>SCCL</b>		<b>49.266</b>	<b>49.266</b>		<b>50.046</b>	<b>50.046</b>		<b>51.389</b>	<b>51.389</b>
<b>Arunachal Pradesh</b>	<b>APMDTCL</b>		<b>0.226</b>	<b>0.226</b>		<b>0.245</b>	<b>0.245</b>		<b>0.322</b>	<b>0.322</b>
<b>Assam</b>	<b>NEC</b>		<b>1.071</b>	<b>1.071</b>		<b>1.102</b>	<b>1.102</b>		<b>0.800</b>	<b>0.800</b>
Chhattisgarh	SECL	0.150	92.731	<b>92.881</b>	0.163	95.287	<b>95.450</b>	0.189	100.092	<b>100.281</b>
Chhattisgarh	JSPL		5.999	<b>5.999</b>		5.995	<b>5.995</b>		5.993	<b>5.993</b>
Chhattisgarh	MIL		1.000	<b>1.000</b>		0.960	<b>0.960</b>		0.846	<b>0.846</b>
Chhattisgarh	PIL		1.000	<b>1.000</b>		1.000	<b>1.000</b>		1.000	<b>1.000</b>
Chhattisgarh	JNL		0.519	<b>0.519</b>		0.477	<b>0.477</b>		0.457	<b>0.457</b>
Chhattisgarh	JPL		5.249	<b>5.249</b>		5.249	<b>5.249</b>		5.249	<b>5.249</b>
Chhattisgarh	SEML		0.273	<b>0.273</b>		0.431	<b>0.431</b>		0.784	<b>0.784</b>
<b>Chhattisgarh</b>	<b>TOTAL</b>	<b>0.150</b>	<b>106.771</b>	<b>106.921</b>	<b>0.163</b>	<b>109.399</b>	<b>109.562</b>	<b>0.189</b>	<b>114.421</b>	<b>114.610</b>
<b>Jammu &amp; Kashmir</b>	<b>JKML</b>		<b>0.017</b>	<b>0.017</b>	<b>0.000</b>	<b>0.025</b>	<b>0.025</b>	<b>0.000</b>	<b>0.023</b>	<b>0.023</b>
Jharkhand	ECL	0.047	13.365	<b>13.412</b>	0.043	14.239	<b>14.282</b>	0.084	14.531	<b>14.615</b>
Jharkhand	BCCL	18.909	5.853	<b>24.762</b>	25.642	3.560	<b>29.202</b>	27.100	2.938	<b>30.038</b>
Jharkhand	CCL	14.434	29.840	<b>44.274</b>	14.555	31.663	<b>46.218</b>	15.701	32.332	<b>48.033</b>
Jharkhand	JSMDCL		0.461	<b>0.461</b>		0.399	<b>0.399</b>		0.118	<b>0.118</b>
Jharkhand	DVC	0.205		<b>0.205</b>	0.193		<b>0.193</b>	0.410		<b>0.410</b>
Jharkhand	IISCO	0.934		<b>0.934</b>	0.855		<b>0.855</b>	0.434		<b>0.434</b>
Jharkhand	TSL	7.169	0.052	<b>7.221</b>	7.003	0.023	<b>7.026</b>	7.371	0.067	<b>7.438</b>
Jharkhand	CML									
Jharkhand	PANEM		8.449	<b>8.449</b>		8.126	<b>8.126</b>		8.278	<b>8.278</b>
Jharkhand	UML		0.058	<b>0.058</b>		0.300	<b>0.300</b>		0.351	<b>0.351</b>
Jharkhand	ESCL	0.029		<b>0.029</b>	0.022		<b>0.022</b>	0.037		<b>0.037</b>
Jharkhand	SAIL		0.058	<b>0.058</b>	0.014		<b>0.014</b>	0.040		<b>0.040</b>
<b>Jharkhand</b>	<b>TOTAL</b>	<b>41.727</b>	<b>58.136</b>	<b>99.863</b>	<b>48.327</b>	<b>58.310</b>	<b>106.637</b>	<b>51.177</b>	<b>58.615</b>	<b>109.792</b>
Madhya Pradesh	NCL		53.082	<b>53.082</b>		48.815	<b>48.815</b>		48.138	<b>48.138</b>
Madhya Pradesh	WCL	0.540	6.569	<b>7.109</b>	0.421	6.360	<b>6.781</b>	0.310	5.955	<b>6.265</b>
Madhya Pradesh	SECL		12.989	<b>12.989</b>		13.550	<b>13.550</b>		14.858	<b>14.858</b>
Madhya Pradesh	BLA		0.301	<b>0.301</b>		0.297	<b>0.297</b>		0.299	<b>0.299</b>
<b>Madhya Pradesh</b>	<b>TOTAL</b>	<b>0.540</b>	<b>72.941</b>	<b>73.481</b>	<b>0.421</b>	<b>69.022</b>	<b>69.443</b>	<b>0.310</b>	<b>69.250</b>	<b>69.560</b>
Maharashtra	WCL		38.390	<b>38.390</b>		35.770	<b>35.770</b>		35.694	<b>35.694</b>
Maharashtra	SIL		0.137	<b>0.137</b>		0.102	<b>0.102</b>		0.164	<b>0.164</b>
Maharashtra	KEMTA		2.216	<b>2.216</b>		2.368	<b>2.368</b>		2.205	<b>2.205</b>
Maharashtra	BS ISPAT								0.006	<b>0.006</b>
Maharashtra	TUML								0.039	<b>0.039</b>
<b>Maharashtra</b>	<b>TOTAL</b>		<b>40.743</b>	<b>40.743</b>	<b>0.000</b>	<b>38.240</b>	<b>38.240</b>	<b>0.000</b>	<b>38.108</b>	<b>38.108</b>
<b>Meghalaya</b>	<b>MEGHALAYA</b>		<b>5.767</b>	<b>5.767</b>		<b>6.974</b>	<b>6.974</b>		<b>7.206</b>	<b>7.206</b>
Orissa	MCL		98.147	<b>98.147</b>		102.087	<b>102.087</b>		102.521	<b>102.521</b>
Orissa	HIL		2.444	<b>2.444</b>		2.272	<b>2.272</b>		2.298	<b>2.298</b>
<b>Orissa</b>	<b>TOTAL</b>		<b>100.591</b>	<b>100.591</b>		<b>104.359</b>	<b>104.359</b>		<b>104.819</b>	<b>104.819</b>
<b>Uttar Pradesh</b>	<b>NCL</b>		<b>13.587</b>	<b>13.587</b>		<b>15.393</b>	<b>15.393</b>		<b>15.467</b>	<b>15.467</b>
West Bengal	ECL	0.008	15.407	<b>15.415</b>	0.007	15.075	<b>15.082</b>	0.015	15.861	<b>15.876</b>
West Bengal	BCCL	0.044	0.057	<b>0.101</b>	0.032	0.017	<b>0.049</b>	0.032		<b>0.032</b>
West Bengal	IISCO		0.357	<b>0.357</b>		0.234	<b>0.234</b>		0.164	<b>0.164</b>
West Bengal	BECML		3.300	<b>3.300</b>		2.883	<b>2.883</b>		2.581	<b>2.581</b>
West Bengal	ICML		2.985	<b>2.985</b>		2.923	<b>2.923</b>		3.168	<b>3.168</b>
West Bengal	WBPDCCL		0.101	<b>0.101</b>		0.268	<b>0.268</b>		0.213	<b>0.213</b>
West Bengal	DVC EMTA								1.169	<b>1.169</b>
<b>West Bengal</b>	<b>TOTAL</b>	<b>0.052</b>	<b>22.207</b>	<b>22.259</b>	<b>0.039</b>	<b>21.400</b>	<b>21.439</b>	<b>0.047</b>	<b>23.156</b>	<b>23.203</b>
<b>Total Public</b>		<b>35.271</b>	<b>431.574</b>	<b>466.845</b>	<b>41.925</b>	<b>434.135</b>	<b>476.060</b>	<b>44.315</b>	<b>442.585</b>	<b>486.900</b>
<b>Total Private</b>		<b>7.198</b>	<b>39.749</b>	<b>46.947</b>	<b>7.025</b>	<b>40.380</b>	<b>47.405</b>	<b>7.408</b>	<b>40.991</b>	<b>48.399</b>
<b>All India</b>		<b>42.469</b>	<b>471.323</b>	<b>513.792</b>	<b>48.950</b>	<b>474.515</b>	<b>523.465</b>	<b>51.723</b>	<b>483.576</b>	<b>535.299</b>

**TABLE 4.12: GRADEWISE DESPATCHES OF COKING COAL BY COMPANIES DURING 2011-12**

(Million Tonnes)											
Companies	DESPATCHES OF COKING COAL										
	Steel-I	Steel-II	SC	Wash-I	Wash-II	Wash-III	Wash-IV	SLV1	Met.Coal	Non Met	Tot. Coking
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
ECL			0.015			0.084			0.015	0.084	<b>0.099</b>
BCCL	0.092	1.271		0.185	1.416	7.590	16.578		4.543	22.589	<b>27.132</b>
CCL					0.090	3.526	12.085		3.041	12.660	<b>15.701</b>
NCL										0.000	<b>0.000</b>
WCL					0.310				0.270	0.040	<b>0.310</b>
SECL			0.189						0.189		<b>0.189</b>
MCL											<b>0.000</b>
NEC											<b>0.000</b>
<b>CIL</b>	<b>0.092</b>	<b>1.271</b>	<b>0.204</b>	<b>0.185</b>	<b>1.816</b>	<b>11.200</b>	<b>28.663</b>	<b>0.000</b>	<b>8.058</b>	<b>35.373</b>	<b>43.431</b>
SCCL											<b>0.000</b>
JKML											<b>0.000</b>
JSMDCL											<b>0.000</b>
DVC							0.410			0.410	<b>0.410</b>
DVCEMTA											<b>0.000</b>
IISCO							0.434		0.434	0.000	<b>0.434</b>
SAIL							0.040		0.040	0.000	<b>0.040</b>
APMDTCL											<b>0.000</b>
WBPDCCL											<b>0.000</b>
<b>PUBLIC</b>	<b>0.092</b>	<b>1.271</b>	<b>0.204</b>	<b>0.185</b>	<b>1.816</b>	<b>11.200</b>	<b>29.547</b>	<b>0.000</b>	<b>8.532</b>	<b>35.783</b>	<b>44.315</b>
<b>BECML</b>											<b>0.000</b>
<b>ICML</b>											<b>0.000</b>
JSPL											<b>0.000</b>
HIL											<b>0.000</b>
MEG											<b>0.000</b>
TSL						2.530	4.841		7.371	0.000	<b>7.371</b>
MIL											<b>0.000</b>
BLA											<b>0.000</b>
CML											<b>0.000</b>
PANEM											<b>0.000</b>
PIL											<b>0.000</b>
JNL											<b>0.000</b>
JPL											<b>0.000</b>
SIL											<b>0.000</b>
ESCL							0.037			0.037	<b>0.037</b>
UML											<b>0.000</b>
KEMTA											<b>0.000</b>
SEML											<b>0.000</b>
BSIL											<b>0.000</b>
TUML											<b>0.000</b>
<b>PRIVATE</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>2.530</b>	<b>4.878</b>	<b>0.000</b>	<b>7.371</b>	<b>0.037</b>	<b>7.408</b>
<b>India (11-12)</b>	<b>0.092</b>	<b>1.271</b>	<b>0.204</b>	<b>0.185</b>	<b>1.816</b>	<b>13.730</b>	<b>34.425</b>	<b>0.000</b>	<b>15.903</b>	<b>35.820</b>	<b>51.723</b>
<b>India (10-11)</b>	<b>0.224</b>	<b>1.226</b>	<b>0.170</b>	<b>0.193</b>	<b>1.601</b>	<b>10.432</b>	<b>35.081</b>	<b>0.023</b>	<b>16.075</b>	<b>32.875</b>	<b>48.950</b>
<b>India (09-10)</b>	<b>0.091</b>	<b>1.057</b>	<b>0.158</b>	<b>0.291</b>	<b>1.756</b>	<b>9.114</b>	<b>30.000</b>	<b>0.002</b>	<b>15.144</b>	<b>27.296</b>	<b>42.469</b>



**TABLE 4.12A: GRADEWISE DESPATCHES OF NON COKING COAL BY COMPANIES DURING 2011-12**

(Million Tonnes)

Companies	DESPATCHES OF NON-COKING COAL										Total Coal
	A	B	C	D	E	F	G	SLV2	Ungr	Tot. NCKg	
(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
ECL	1.004	11.331	3.478	2.118	0.937	11.524				30.392	30.491
BCCL		0.003	2.138	0.740		0.057				2.938	30.070
CCL	0.087	0.392	2.301		24.504	4.510			0.538	32.332	48.033
NCL		0.640		25.859	37.106					63.605	63.605
WCL	3.379	36.369	1.901							41.649	41.959
SECL	2.162	10.352	10.225	5.125	7.342	79.744				114.950	115.139
MCL		0.228	0.024	1.900	14.234	86.135				102.521	102.521
NEC	0.800									0.800	0.800
<b>CIL</b>	<b>7.432</b>	<b>59.315</b>	<b>20.067</b>	<b>35.742</b>	<b>84.123</b>	<b>181.970</b>	<b>0.000</b>	<b>0.000</b>	<b>0.538</b>	<b>389.187</b>	<b>432.618</b>
SCCL	0.034	0.627		7.601	16.999	11.070	12.822		2.236	51.389	51.389
JKML					0.023					0.023	0.023
JSMDCL						0.118				0.118	0.118
DVC										0.000	0.410
DVCEMTA			0.351	0.818						1.169	1.169
IISCO	0.006	0.017			0.141					0.164	0.598
SAIL										0.000	0.040
APMDTCL									0.322	0.322	0.322
WBPDCCL		0.213								0.213	0.213
<b>PUBLIC</b>	<b>7.472</b>	<b>60.172</b>	<b>20.418</b>	<b>44.161</b>	<b>101.286</b>	<b>193.158</b>	<b>12.822</b>	<b>0.000</b>	<b>3.096</b>	<b>442.585</b>	<b>486.900</b>
<b>BECML</b>			2.581							2.581	2.581
<b>ICML</b>						3.168				3.168	3.168
JSPL						0.772			5.221	5.993	5.993
HIL									2.298	2.298	2.298
MEG	7.206									7.206	7.206
TSL									0.067	0.067	7.438
MIL				0.390		0.456				0.846	0.846
BLA		0.299								0.299	0.299
CML										0.000	0.000
PANEM			2.483	4.139	1.656					8.278	8.278
PIL					1.000					1.000	1.000
JNL					0.392	0.065				0.457	0.457
JPL			2.217	3.032						5.249	5.249
SIL					0.164					0.164	0.164
ESCL										0.000	0.037
UML			0.351							0.351	0.351
KEMTA					2.205					2.205	2.205
SEML						0.226	0.558			0.784	0.784
BSIL							0.006			0.006	0.006
TUML									0.039	0.039	0.039
<b>PRIVATE</b>	<b>7.206</b>	<b>0.299</b>	<b>7.632</b>	<b>7.561</b>	<b>5.417</b>	<b>4.687</b>	<b>0.564</b>	<b>0.000</b>	<b>7.625</b>	<b>40.991</b>	<b>48.399</b>
<b>India (11-12)</b>	<b>14.678</b>	<b>60.471</b>	<b>28.050</b>	<b>51.722</b>	<b>106.703</b>	<b>197.845</b>	<b>13.386</b>	<b>0.000</b>	<b>10.721</b>	<b>483.576</b>	<b>535.299</b>
<b>India (10-11)</b>	<b>11.772</b>	<b>25.648</b>	<b>54.760</b>	<b>49.524</b>	<b>117.677</b>	<b>207.576</b>	<b>6.075</b>	<b>0</b>	<b>1.483</b>	<b>474.515</b>	<b>523.465</b>
<b>India (09-10)</b>	<b>10.266</b>	<b>27.689</b>	<b>53.242</b>	<b>52.679</b>	<b>118.933</b>	<b>205.325</b>	<b>2.712</b>	<b>0</b>	<b>0.477</b>	<b>471.323</b>	<b>513.792</b>

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 2011-12**  
(Million Tonnes)

Grade	Andhra Pradesh	Arunachal Pradesh	Assam	Chhattisgarh	Jammu & Kashmir	Jharkhand	Madhya Pradesh	Maharashtra	Meghalaya	Orissa	Uttar Pradesh	West Bengal	India (11-12)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Steel-I						0.060						0.032	0.092
Steel-II						1.271							1.271
SC-I				0.189								0.015	0.204
Wash-I						0.185							0.185
Wash-II						1.506	0.310						1.816
Wash-III						13.730							13.730
Wash-IV						34.425							34.425
SLV1													0.000
<b>Met.Coal</b>				<b>0.189</b>		<b>15.397</b>	<b>0.270</b>					<b>0.047</b>	<b>15.903</b>
<b>Non Met</b>						<b>35.780</b>	<b>0.040</b>					<b>0.000</b>	<b>35.820</b>
<b>Tot Ckg.</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.189</b>	<b>0</b>	<b>51.177</b>	<b>0.310</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.047</b>	<b>51.723</b>
A	0.034		0.800	0.829		0.440	2.327	2.385	7.206			0.657	14.678
B	0.627			8.063		0.398	7.893	31.408		0.228		11.558	60.175
C				5.015		8.941	7.427	1.901		0.024		4.742	28.050
D	7.601			4.738		5.665	22.545			1.900	7.288	2.150	51.887
E	16.999			8.734	0.023	26.357	29.058	2.369		14.234	8.179	0.881	106.834
F	11.070			81.263		16.209				86.135		3.168	197.845
G	12.822			0.558				0.006					13.386
SLV2													0.000
Ungr	2.236	0.322		5.221		0.605		0.039		2.298			10.721
<b>Tot. Nckg</b>	<b>51.389</b>	<b>0.322</b>	<b>0.800</b>	<b>114.421</b>	<b>0.023</b>	<b>58.615</b>	<b>69.250</b>	<b>38.108</b>	<b>7.206</b>	<b>104.819</b>	<b>15.467</b>	<b>23.156</b>	<b>483.576</b>
<b>Total Coal</b>	<b>51.389</b>	<b>0.322</b>	<b>0.800</b>	<b>114.610</b>	<b>0.023</b>	<b>109.792</b>	<b>69.560</b>	<b>38.108</b>	<b>7.206</b>	<b>104.819</b>	<b>15.467</b>	<b>23.203</b>	<b>535.299</b>

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**  
(Million Tonnes)

Type	Grade	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
COKING COAL	Steel-I	0.255	0.191	0.146	0.130	0.133	0.089	0.064	0.091	0.224	0.092
	Steel-II	0.270	0.099	0.106	0.976	0.512	0.280	0.871	1.057	1.226	1.271
	SC-1	0.209	0.212	0.204	0.188	0.188	0.178	0.171	0.158	0.170	0.204
	Wash-I	0.490	0.373	0.329	0.228	0.275	0.462	0.309	0.291	0.193	0.185
	Wash-II	3.849	4.294	2.622	4.490	3.242	2.106	2.551	1.756	1.601	1.816
	Wash-III	6.285	5.848	7.217	5.742	6.893	7.212	7.841	9.114	10.432	13.730
	Wash-IV	19.546	19.876	20.008	18.586	20.600	23.014	23.865	30.000	35.081	34.425
	SLV1	0.000	0.000	0.116	0.197	0.084	0.202	0.052	0.002	0.023	0.000
	Met.Coal	16.646	16.651	17.559	16.495	16.334	16.438	15.061	15.144	16.075	15.903
	Non Met	14.258	14.242	13.189	14.042	15.593	17.105	20.663	27.325	32.875	35.820
	<b>Total Coking</b>		<b>30.904</b>	<b>30.893</b>	<b>30.748</b>	<b>30.537</b>	<b>31.927</b>	<b>33.543</b>	<b>35.724</b>	<b>42.469</b>	<b>48.950</b>
NON - COKING COAL	A	3.301	3.707	3.704	4.360	4.825	4.650	4.023	10.266	11.772	14.678
	B	24.430	23.198	24.342	23.556	23.524	24.717	26.024	27.689	25.648	60.175
	C	44.033	49.252	48.467	48.680	52.197	53.177	46.101	53.242	54.760	28.050
	D	40.575	42.088	43.072	43.215	42.543	47.928	53.338	52.679	49.524	51.887
	E	72.256	75.444	80.282	90.436	93.693	101.850	117.612	118.933	117.677	106.834
	F	114.850	124.045	137.959	142.501	157.304	174.411	191.143	205.325	207.576	197.845
	SLV	0.263	3.648	2.254	6.501	7.652	6.375	8.833	2.712		
	G	3.566	0.067					0.437		6.075	13.386
	Ungr	4.430	5.650	7.830	5.801	6.135	6.916	5.937	0.477	1.483	10.721
	<b>Total Non-Coking</b>		<b>307.704</b>	<b>327.099</b>	<b>347.910</b>	<b>365.050</b>	<b>387.873</b>	<b>420.024</b>	<b>453.448</b>	<b>471.323</b>	<b>474.515</b>
<b>TOTAL COAL</b>		<b>338.608</b>	<b>357.992</b>	<b>378.658</b>	<b>395.587</b>	<b>419.800</b>	<b>453.567</b>	<b>489.172</b>	<b>513.792</b>	<b>523.465</b>	<b>535.299</b>

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 2011-12**

(Million Tonnes).

Company	Raw Coal/Coal Product	YEAR 2011-12 (External)							YEAR 2011-12 (Internal)							Grand Total
		RAIL	ROAD	MGR	BELT	ROPE	Other	TOTAL	RAIL	ROAD	MGR	BELT	ROPE	Other	TOTAL	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
ECL	RC	19.804	2.187	8.500				30.491							0.000	30.491
BCCL	RC	21.360	5.430					26.790	1.482	1.798					3.280	30.070
BCCL	CP	3.259						3.259							0.000	3.259
CCL	RC	25.190	11.213					36.403		11.630					11.630	48.033
CCL	CP	9.967	0.036					10.003							0.000	10.003
NCL	RC	20.992	4.635	33.200		0.311	0.397	59.535		4.070					4.070	63.605
NCL	CP	3.671						3.671							0.000	3.671
WCL	RC	18.040	18.525	1.072	1.044	3.008		41.689					0.270		0.270	41.959
WCL	CP	0.234						0.234							0.000	0.234
SECL	RC	44.365	44.015	18.966	5.018		2.775	115.139							0.000	115.139
MCL	RC	60.311	25.623	14.796	1.791			102.521							0.000	102.521
NEC	RC	0.641	0.159					0.800							0.000	0.800
<b>CIL</b>	<b>RC</b>	<b>210.703</b>	<b>111.787</b>	<b>76.534</b>	<b>7.853</b>	<b>3.319</b>	<b>3.172</b>	<b>413.368</b>	<b>1.482</b>	<b>17.498</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.270</b>	<b>19.250</b>	<b>432.618</b>
<b>CIL</b>	<b>CP</b>	<b>17.131</b>	<b>0.036</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>17.167</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>17.167</b>
SCCL	RC	26.954	13.723	10.297		0.415		51.389							0.000	51.389
JKML	RC		0.023					0.023							0.000	0.023
JSMDCL	RC		0.118					0.118							0.000	0.118
DVC	RC		0.410					0.410							0.000	0.410
DVCEMTA	RC	1.169						1.169							0.000	1.169
IISCO	RC		0.041					0.041	0.434		0.073	0.050			0.557	0.598
IISCO	CP	0.533						0.533							0.000	0.533
SAIL	RC		0.040					0.040							0.000	0.040
APMDTCL	RC		0.322					0.322							0.000	0.322
WBPDCCL	RC	0.213						0.213							0.000	0.213
<b>PUBLIC</b>	<b>RC</b>	<b>239.039</b>	<b>126.464</b>	<b>86.831</b>	<b>7.853</b>	<b>3.734</b>	<b>3.172</b>	<b>467.093</b>	<b>1.482</b>	<b>17.932</b>	<b>0.000</b>	<b>0.073</b>	<b>0.050</b>	<b>0.270</b>	<b>19.807</b>	<b>486.900</b>
<b>PUBLIC</b>	<b>CP</b>	<b>17.664</b>	<b>0.036</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>17.700</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>17.700</b>
BECML	RC	2.581						2.581							0.000	2.581
ICML	RC		3.168					3.168							0.000	3.168
JSPL	RC		0.306					0.306				5.687			5.687	5.993
JSPL	CP		5.584					5.584							0.000	5.584
HIL	RC		2.298					2.298							0.000	2.298
MEG	RC		7.206					7.206							0.000	7.206
TSL	RC							0.000	0.522		4.768	2.148			7.438	7.438
TSL	CP	5.697	0.136					5.833							0.000	5.833
MIL	RC		0.846					0.846							0.000	0.846
BLA	RC							0.000	0.299						0.299	0.299
BLA	CP		0.289					0.289							0.000	0.289
PANEM	RC	8.278						8.278							0.000	8.278
PIL	RC		1.000					1.000							0.000	1.000
JNL	RC		0.457					0.457							0.000	0.457
JPL	RC		0.030		5.219			5.249							0.000	5.249
SIL	RC	0.153	0.011					0.164							0.000	0.164
ESCL	RC		0.037					0.037							0.000	0.037
UML	RC		0.351					0.351							0.000	0.351
KEMTA	RC	2.205						2.205							0.000	2.205
SEML	RC	0.045	0.252					0.297	0.487						0.487	0.784
SEML	CP	0.046	0.178					0.224							0.000	0.224
BSIL	RC		0.006					0.006							0.000	0.006
TUML	RC		0.039					0.039							0.000	0.039
<b>PRIVATE</b>	<b>RC</b>	<b>13.262</b>	<b>16.007</b>	<b>0.000</b>	<b>5.219</b>	<b>0.000</b>	<b>0.000</b>	<b>34.488</b>	<b>0.000</b>	<b>1.308</b>	<b>0.000</b>	<b>10.455</b>	<b>2.148</b>	<b>0.000</b>	<b>13.911</b>	<b>48.399</b>
<b>PRIVATE</b>	<b>CP</b>	<b>5.743</b>	<b>6.187</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>11.930</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>11.930</b>
<b>INDIA</b>	<b>RC</b>	<b>252.301</b>	<b>142.471</b>	<b>86.831</b>	<b>13.072</b>	<b>3.734</b>	<b>3.172</b>	<b>501.581</b>	<b>1.482</b>	<b>19.240</b>	<b>0.000</b>	<b>10.528</b>	<b>2.198</b>	<b>0.270</b>	<b>33.718</b>	<b>535.299</b>
<b>INDIA</b>	<b>CP</b>	<b>23.407</b>	<b>6.223</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>29.630</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>29.630</b>

**TABLE 4.16A: COMPANYWISE OFF-TAKE OF RAW COAL TO DIFFERENT PRIORITY SECTORS ( INCLUDING WASHERIES) DURING 2011-12**

(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	24.994	0.229	0.010		0.089			0.162		0.345		0.011	0.010	0.003		4.638	<b>30.491</b>	0.236	0.103	<b>30.830</b>
BCCL	22.159		0.076	3.280					1.076							3.479	<b>30.070</b>	0.064	0.024	<b>30.158</b>
CCL	25.527	1.918	0.571	3.027	0.092	8.603		0.142	0.947	0.997		0.025	0.004			6.180	<b>48.033</b>	0.008		<b>48.041</b>
NCL	58.384	3.371						0.011		0.109	0.240					1.490	<b>63.605</b>			<b>63.605</b>
WCL	29.252	1.507		0.270	0.040			1.843		0.352		0.108	0.505	0.111		7.971	<b>41.959</b>	0.009		<b>41.968</b>
SECL	80.376	10.322	0.189				0.417	4.861	0.737	4.071		0.002	0.267	0.047		13.850	<b>115.139</b>		0.015	<b>115.154</b>
MCL	63.748	13.359						0.233	0.026	5.622			0.332			19.201	<b>102.521</b>	0.006		<b>102.527</b>
NEC	0.352	0.026						0.035					0.041			0.346	<b>0.800</b>			<b>0.800</b>
<b>CIL</b>	<b>304.792</b>	<b>30.732</b>	<b>0.846</b>	<b>6.577</b>	<b>0.221</b>	<b>8.603</b>	<b>0.417</b>	<b>7.287</b>	<b>2.786</b>	<b>11.496</b>	<b>0.240</b>	<b>0.146</b>	<b>1.159</b>	<b>0.161</b>	<b>0.000</b>	<b>57.155</b>	<b>432.618</b>	<b>0.323</b>	<b>0.142</b>	<b>433.083</b>
SCCL	36.933	2.924	0.111					5.588		1.108		0.223	0.867	0.096	0.053	3.486	<b>51.389</b>	0.115		<b>51.504</b>
JKML								0.005						0.001	0.017		<b>0.023</b>			<b>0.023</b>
JSMDCL	0.024								0.035						0.059		<b>0.118</b>			<b>0.118</b>
DVC	0.410																<b>0.410</b>	0.001		<b>0.411</b>
DVCEMTA		1.169															<b>1.169</b>			<b>1.169</b>
IISCO		0.164		0.434													<b>0.598</b>			<b>0.598</b>
SAIL			0.040														<b>0.040</b>			<b>0.040</b>
APMDTCL																0.322	<b>0.322</b>			<b>0.322</b>
WBPDCL	0.213																<b>0.213</b>			<b>0.213</b>
<b>PUBLIC</b>	<b>342.372</b>	<b>34.989</b>	<b>0.997</b>	<b>7.011</b>	<b>0.221</b>	<b>8.603</b>	<b>0.417</b>	<b>12.880</b>	<b>2.821</b>	<b>12.604</b>	<b>0.240</b>	<b>0.369</b>	<b>2.026</b>	<b>0.258</b>	<b>0.129</b>	<b>60.963</b>	<b>486.900</b>	<b>0.438</b>	<b>0.143</b>	<b>487.481</b>
BECML	2.581																<b>2.581</b>			<b>2.581</b>
ICML	3.168																<b>3.168</b>			<b>3.168</b>
JSPL						5.687				0.306							<b>5.993</b>			<b>5.993</b>
HIL		2.298															<b>2.298</b>			<b>2.298</b>
MEG																7.206	<b>7.206</b>			<b>7.206</b>
TISCO				7.371		0.067											<b>7.438</b>			<b>7.438</b>
MIL										0.846							<b>0.846</b>			<b>0.846</b>
BLA						0.299											<b>0.299</b>			<b>0.299</b>
CML																	<b>0.000</b>			<b>0.000</b>
PANEM	8.278																<b>8.278</b>			<b>8.278</b>
PIL										1.000							<b>1.000</b>			<b>1.000</b>
JNL										0.457							<b>0.457</b>	0.001		<b>0.458</b>
JPL		5.249															<b>5.249</b>			<b>5.249</b>
SIL										0.164							<b>0.164</b>			<b>0.164</b>
ESCL			0.037														<b>0.037</b>			<b>0.037</b>
UML										0.351							<b>0.351</b>			<b>0.351</b>
KEMTA	2.205																<b>2.205</b>			<b>2.205</b>
SEML		0.071				0.487				0.226							<b>0.784</b>			<b>0.784</b>
BSIL										0.006							<b>0.006</b>			<b>0.006</b>
TUML										0.039							<b>0.039</b>			<b>0.039</b>
<b>PRIVATE</b>	<b>16.232</b>	<b>7.618</b>	<b>0.037</b>	<b>7.371</b>	<b>0.000</b>	<b>6.540</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>3.395</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>7.206</b>	<b>48.399</b>	<b>0.000</b>	<b>0.001</b>	<b>48.400</b>
<b>GRAND TOTAL</b>	<b>358.604</b>	<b>42.607</b>	<b>1.034</b>	<b>14.382</b>	<b>0.221</b>	<b>15.143</b>	<b>0.417</b>	<b>12.880</b>	<b>2.821</b>	<b>15.999</b>	<b>0.240</b>	<b>0.369</b>	<b>2.026</b>	<b>0.258</b>	<b>0.129</b>	<b>68.169</b>	<b>535.299</b>	<b>0.438</b>	<b>0.144</b>	<b>535.881</b>

**TABLE 4.16B: COMPANYWISE OFF-TAKE OF LIGNITE TO DIFFERENT PRIORITY SECTORS DURING 2011-12**

(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)
GHCL		0.389															0.389			0.389
GIPCL		2.716															2.716			2.716
GMDCL	0.469	2.600						0.340				0.831	0.579	3.536	0.915	2.073	11.343			11.343
NLCL	21.840	1.900					0.031	0.586			0.010	0.001	0.052	0.001	0.014	0.037	24.472			24.472
RSMML		1.306					0.001	0.088	0.002			0.038		0.132	0.053	0.502	2.120			2.120
VS Lignite		0.843															0.843			0.843
<b>TOTAL</b>	<b>22.309</b>	<b>9.754</b>					<b>0.032</b>	<b>1.014</b>	<b>0.002</b>		<b>0.010</b>	<b>0.870</b>	<b>0.631</b>	<b>3.669</b>	<b>0.982</b>	<b>2.612</b>	<b>41.883</b>			<b>41.883</b>

**TABLE 4.17A: COMPANYWISE OFF-TAKE OF RAW COAL TO DIFFERENT PRIORITY SECTORS DURING 2011-12**

(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	24.994	0.229	0.010	0.089		0.162		0.345		0.011	0.010	0.003		4.638	<b>30.491</b>	0.236	0.103	<b>30.830</b>
BCCL	22.159		0.076	3.280			1.076							3.479	<b>30.070</b>	0.064	0.024	<b>30.158</b>
CCL	34.130	1.918	0.571	3.119		0.142	0.947	0.997		0.025	0.004			6.180	<b>48.033</b>	0.008		<b>48.041</b>
NCL	58.384	3.371				0.011		0.109	0.240					1.490	<b>63.605</b>			<b>63.605</b>
WCL	29.252	1.507		0.310		1.843		0.352		0.108	0.505	0.111		7.971	<b>41.959</b>	0.009		<b>41.968</b>
SECL	80.376	10.322	0.189		0.417	4.861	0.737	4.071		0.002	0.267	0.047		13.850	<b>115.139</b>		0.015	<b>115.154</b>
MCL	63.748	13.359				0.233	0.026	5.622			0.332			19.201	<b>102.521</b>	0.006		<b>102.527</b>
NEC	0.352	0.026				0.035					0.041			0.346	<b>0.800</b>			<b>0.800</b>
<b>CIL</b>	<b>313.395</b>	<b>30.732</b>	<b>0.846</b>	<b>6.798</b>	<b>0.417</b>	<b>7.287</b>	<b>2.786</b>	<b>11.496</b>	<b>0.240</b>	<b>0.146</b>	<b>1.159</b>	<b>0.161</b>	<b>0.000</b>	<b>57.155</b>	<b>432.618</b>	<b>0.323</b>	<b>0.142</b>	<b>433.083</b>
SCCL	36.933	2.924	0.111			5.588		1.108		0.223	0.867	0.096	0.053	3.486	<b>51.389</b>	0.115		<b>51.504</b>
JKML						0.005						0.001	0.017		<b>0.023</b>			<b>0.023</b>
JSMDC	0.024						0.035						0.059		<b>0.118</b>			<b>0.118</b>
DVC	0.410														<b>0.410</b>		0.001	<b>0.411</b>
DVCEMTA		1.169													<b>1.169</b>			<b>1.169</b>
IISCO		0.164		0.434											<b>0.598</b>			<b>0.598</b>
SAIL			0.040												<b>0.040</b>			<b>0.040</b>
APMDTCL														0.322	<b>0.322</b>			<b>0.322</b>
WBPDC	0.213														<b>0.213</b>			<b>0.213</b>
<b>PUBLIC</b>	<b>350.975</b>	<b>34.989</b>	<b>0.997</b>	<b>7.232</b>	<b>0.417</b>	<b>12.880</b>	<b>2.821</b>	<b>12.604</b>	<b>0.240</b>	<b>0.369</b>	<b>2.026</b>	<b>0.258</b>	<b>0.129</b>	<b>60.963</b>	<b>486.900</b>	<b>0.438</b>	<b>0.143</b>	<b>487.481</b>
BECML	2.581														<b>2.581</b>			<b>2.581</b>
ICML	3.168														<b>3.168</b>			<b>3.168</b>
JSPL								5.993							<b>5.993</b>			<b>5.993</b>
HIL		2.298													<b>2.298</b>			<b>2.298</b>
MEG														7.206	<b>7.206</b>			<b>7.206</b>
TISCO	0.067			7.371											<b>7.438</b>			<b>7.438</b>
MIL								0.846							<b>0.846</b>			<b>0.846</b>
BLA						0.299									<b>0.299</b>			<b>0.299</b>
CML															<b>0.000</b>			<b>0.000</b>
PANEM	8.278														<b>8.278</b>			<b>8.278</b>
PIL								1.000							<b>1.000</b>			<b>1.000</b>
JNL								0.457							<b>0.457</b>		0.001	<b>0.458</b>
JPL		5.249													<b>5.249</b>			<b>5.249</b>
SIL								0.164							<b>0.164</b>			<b>0.164</b>
ESCL			0.037												<b>0.037</b>			<b>0.037</b>
UML								0.351							<b>0.351</b>			<b>0.351</b>
KEMTA	2.205														<b>2.205</b>			<b>2.205</b>
SEML	0.487	0.071						0.226							<b>0.784</b>			<b>0.784</b>
BSIL								0.006							<b>0.006</b>			<b>0.006</b>
TUML								0.039							<b>0.039</b>			<b>0.039</b>
<b>PRIVATE</b>	<b>16.786</b>	<b>7.618</b>	<b>0.037</b>	<b>7.371</b>	<b>0.000</b>	<b>0.299</b>	<b>0.000</b>	<b>9.082</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>7.206</b>	<b>48.399</b>	<b>0.000</b>	<b>0.001</b>	<b>48.400</b>
<b>GRAND TOTAL</b>	<b>367.761</b>	<b>42.607</b>	<b>1.034</b>	<b>14.603</b>	<b>0.417</b>	<b>13.179</b>	<b>2.821</b>	<b>21.686</b>	<b>0.240</b>	<b>0.369</b>	<b>2.026</b>	<b>0.258</b>	<b>0.129</b>	<b>68.169</b>	<b>535.299</b>	<b>0.438</b>	<b>0.144</b>	<b>535.881</b>

**TABLE 4.17B: COMPANYWISE OFF-TAKE OF LIGNITE TO DIFFERENT PRIORITY SECTORS DURING 2011-12**

(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)
GHCL	0.389														0.389			0.389
GIPCL	2.716														2.716			2.716
GMDCL	3.069					0.340			0.831	0.579	3.536	0.915	2.073		11.343			11.343
NLCL	23.740				0.031	0.586			0.010	0.001	0.052	0.001	0.014	0.037	24.472			24.472
RSMML	1.306				0.001	0.088	0.002			0.038		0.132	0.053	0.502	2.120			2.120
VS Lignite	0.843														0.843			0.843
<b>TOTAL</b>	<b>32.063</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.032</b>	<b>1.014</b>	<b>0.002</b>	<b>0.000</b>	<b>0.010</b>	<b>0.870</b>	<b>0.631</b>	<b>3.669</b>	<b>0.982</b>	<b>2.612</b>	<b>41.883</b>	<b>0.000</b>	<b>0.000</b>	<b>41.883</b>



TABLE-4.18A: SECTORWISE OFFTAKE OF COKING COAL (RAW COAL, WASHED COAL & MIDDLING) FOR FINAL CONSUMPTION - COMPANYWISE IN 2011-12

(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			0.010	0.089											0.099			0.099
<b>ECL</b>	<b>TOT</b>			<b>0.010</b>	<b>0.089</b>											<b>0.099</b>			<b>0.099</b>
BCCL	RCE	19.975		0.076				0.831							2.970	23.852	0.057	0.022	23.931
BCCL	WC	1.427														1.427			1.427
<b>BCCL</b>	<b>TOT</b>	<b>21.402</b>		<b>0.076</b>				<b>0.831</b>							<b>2.970</b>	<b>25.279</b>	<b>0.057</b>	<b>0.022</b>	<b>25.358</b>
CCL	RCE	9.982		0.571	0.092			0.348							1.681	12.674			12.674
CCL	WC				1.363											1.363			1.363
CCL	MID	0.113	0.831													0.944			0.944
<b>CCL</b>	<b>TOT</b>	<b>10.095</b>	<b>0.831</b>	<b>0.571</b>	<b>1.455</b>			<b>0.348</b>							<b>1.681</b>	<b>14.981</b>			<b>14.981</b>
WCL	RCE				0.040											0.040			0.040
WCL	WC				0.136											0.136			0.136
WCL	MID	0.098														0.098			0.098
<b>WCL</b>	<b>TOT</b>	<b>0.098</b>			<b>0.176</b>											<b>0.274</b>			<b>0.274</b>
SECL	RCE			0.189												0.189			0.189
<b>SECL</b>	<b>TOT</b>			<b>0.189</b>												<b>0.189</b>			<b>0.189</b>
CIL	RCE	29.957		0.846	0.221			1.179							4.651	36.854	0.057	0.022	36.933
CIL	WC	1.427			1.499											2.926			2.926
CIL	MID	0.211	0.831													1.042			1.042
<b>CIL</b>	<b>TOT</b>	<b>31.595</b>	<b>0.831</b>	<b>0.846</b>	<b>1.720</b>			<b>1.179</b>							<b>4.651</b>	<b>40.822</b>	<b>0.057</b>	<b>0.022</b>	<b>40.901</b>
DVC	RCE	0.410														0.410		0.001	0.411
<b>DVC</b>	<b>TOT</b>	<b>0.410</b>														<b>0.410</b>		<b>0.001</b>	<b>0.411</b>
IISCO	WC				0.339											0.339			0.339
IISCO	MID					0.194										0.194			0.194
<b>IISCO</b>	<b>TOT</b>				<b>0.339</b>	<b>0.194</b>										<b>0.533</b>			<b>0.533</b>
SAIL	RCE			0.040												0.040			0.040
<b>SAIL</b>	<b>TOT</b>			<b>0.040</b>												<b>0.040</b>			<b>0.040</b>
<b>PUBLIC</b>	<b>RCE</b>	<b>30.367</b>		<b>0.886</b>	<b>0.221</b>			<b>1.179</b>							<b>4.651</b>	<b>37.304</b>	<b>0.057</b>	<b>0.023</b>	<b>37.384</b>
<b>PUBLIC</b>	<b>WC</b>	<b>1.427</b>			<b>1.838</b>											<b>3.265</b>			<b>3.265</b>
<b>PUBLIC</b>	<b>MID</b>	<b>0.211</b>	<b>0.831</b>			<b>0.194</b>										<b>1.236</b>			<b>1.236</b>
<b>PUBLIC</b>	<b>TOT</b>	<b>32.005</b>	<b>0.831</b>	<b>0.886</b>	<b>2.059</b>	<b>0.194</b>		<b>1.179</b>							<b>4.651</b>	<b>41.805</b>	<b>0.057</b>	<b>0.023</b>	<b>41.885</b>
TISCO	WC		0.971		2.296											3.267			3.267
TISCO	MID	2.205	0.361													2.566	0.000	0.000	2.566
<b>TISCO</b>	<b>TOT</b>		<b>3.537</b>		<b>2.296</b>											<b>5.833</b>			<b>5.833</b>
ESCL	RCE			0.037												0.037			0.037
<b>ESCL</b>	<b>TOT</b>			<b>0.037</b>												<b>0.037</b>			<b>0.037</b>
<b>PRIVATE</b>	<b>RCE</b>			<b>0.037</b>												<b>0.037</b>			<b>0.037</b>
<b>PRIVATE</b>	<b>WC</b>		<b>0.971</b>		<b>2.296</b>											<b>3.267</b>			<b>3.267</b>
<b>PRIVATE</b>	<b>MID</b>	<b>2.205</b>	<b>0.361</b>													<b>2.566</b>			<b>2.566</b>
<b>PRIVATE</b>	<b>TOT</b>	<b>2.205</b>	<b>1.332</b>	<b>0.037</b>	<b>2.296</b>											<b>5.870</b>			<b>5.870</b>
<b>ALL INDIA</b>	<b>RCE</b>	<b>30.367</b>		<b>0.923</b>	<b>0.221</b>			<b>1.179</b>							<b>4.651</b>	<b>37.341</b>	<b>0.057</b>	<b>0.023</b>	<b>37.421</b>
<b>ALL INDIA</b>	<b>WC</b>	<b>1.427</b>	<b>0.971</b>		<b>4.134</b>											<b>6.532</b>			<b>6.532</b>
<b>ALL INDIA</b>	<b>MID</b>	<b>2.416</b>	<b>1.192</b>			<b>0.194</b>										<b>3.802</b>			<b>3.802</b>
<b>ALL INDIA</b>	<b>TOT</b>	<b>34.210</b>	<b>2.163</b>	<b>0.923</b>	<b>4.355</b>	<b>0.194</b>	<b>0.000</b>	<b>1.179</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>4.651</b>	<b>47.675</b>	<b>0.057</b>	<b>0.023</b>	<b>47.755</b>

**TABLE-4.18B: SECTORWISE OFFTAKE OF NON-COKING COAL (RAW COAL, WASHED COAL & MIDDLING) FOR FINAL CONSUMPTION-COMPANYWISE IN 2011-12**

(Million Tonnes)

COMPANY	Type of coal/ coal products/Lignite	Power (Utility)	Power (Captive)	Direct Feed	Cokeeries	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)	(20)
ECL	RCE	24.994	0.229				0.162		0.345		0.011	0.010	0.003		4.638	30.392	0.236	0.103	30.731
<b>ECL</b>	<b>TOT</b>	<b>24.994</b>	<b>0.229</b>				<b>0.162</b>		<b>0.345</b>		<b>0.011</b>	<b>0.010</b>	<b>0.003</b>		<b>4.638</b>	<b>30.392</b>	<b>0.236</b>	<b>0.103</b>	<b>30.731</b>
BCCL	RCE	2.184						0.245							0.509	2.938	0.007	0.002	2.947
BCCL	WC	1.832														1.832			1.832
<b>BCCL</b>	<b>TOT</b>	<b>4.016</b>						<b>0.245</b>							<b>0.509</b>	<b>4.770</b>	<b>0.007</b>	<b>0.002</b>	<b>4.779</b>
CCL	RCE	15.545	1.918				0.142	0.599	0.997		0.025	0.004			4.499	23.729	0.008		23.737
CCL	WC	7.533	0.163													7.696			7.696
<b>CCL</b>	<b>TOT</b>	<b>23.078</b>	<b>2.081</b>				<b>0.142</b>	<b>0.599</b>	<b>0.997</b>		<b>0.025</b>	<b>0.004</b>			<b>4.499</b>	<b>31.425</b>	<b>0.008</b>		<b>31.433</b>
NCL	RCE	54.314	3.371				0.011		0.109	0.240					1.490	59.535			59.535
NCL	WC	3.671														3.671			3.671
<b>NCL</b>	<b>TOT</b>	<b>57.985</b>	<b>3.371</b>				<b>0.011</b>		<b>0.109</b>	<b>0.240</b>					<b>1.490</b>	<b>63.206</b>			<b>63.206</b>
WCL	RCE	29.252	1.507				1.843		0.352		0.108	0.505	0.111		7.971	41.649			41.649
<b>WCL</b>	<b>TOT</b>	<b>29.252</b>	<b>1.507</b>				<b>1.843</b>		<b>0.352</b>		<b>0.108</b>	<b>0.505</b>	<b>0.111</b>		<b>7.971</b>	<b>41.649</b>			<b>41.649</b>
SECL	RCE	80.376	10.322		0.417	4.861	0.737	4.071		0.002	0.267	0.047			13.850	114.950		0.015	114.965
<b>SECL</b>	<b>TOT</b>	<b>80.376</b>	<b>10.322</b>		<b>0.417</b>	<b>4.861</b>	<b>0.737</b>	<b>4.071</b>		<b>0.002</b>	<b>0.267</b>	<b>0.047</b>			<b>13.850</b>	<b>114.950</b>		<b>0.015</b>	<b>114.965</b>
MCL	RCE	63.748	13.359			0.233	0.026	5.622				0.332			19.201	102.521	0.006		102.527
<b>MCL</b>	<b>TOT</b>	<b>63.748</b>	<b>13.359</b>			<b>0.233</b>	<b>0.026</b>	<b>5.622</b>				<b>0.332</b>			<b>19.201</b>	<b>102.521</b>	<b>0.006</b>		<b>102.527</b>
NEC	RCE	0.352	0.026				0.035					0.041			0.346	0.800			0.800
<b>NEC</b>	<b>TOT</b>	<b>0.352</b>	<b>0.026</b>				<b>0.035</b>					<b>0.041</b>			<b>0.346</b>	<b>0.800</b>			<b>0.800</b>
CIL	RCE	270.765	30.732		0.417	7.287	1.607	11.496	0.240	0.146	1.159	0.161			52.504	376.514	0.257	0.120	376.891
CIL	WC	13.036	0.163													13.199			13.199
<b>CIL</b>	<b>TOT</b>	<b>283.801</b>	<b>30.895</b>		<b>0.417</b>	<b>7.287</b>	<b>1.607</b>	<b>11.496</b>	<b>0.240</b>	<b>0.146</b>	<b>1.159</b>	<b>0.161</b>			<b>52.504</b>	<b>389.713</b>	<b>0.257</b>	<b>0.120</b>	<b>390.090</b>
SCCL	RCE	36.933	2.924	0.111		5.588		1.108		0.223	0.867	0.096	0.053	3.486	51.389	0.115			51.504
<b>SCCL</b>	<b>TOT</b>	<b>36.933</b>	<b>2.924</b>	<b>0.111</b>		<b>5.588</b>		<b>1.108</b>		<b>0.223</b>	<b>0.867</b>	<b>0.096</b>	<b>0.053</b>	<b>3.486</b>	<b>51.389</b>	<b>0.115</b>			<b>51.504</b>
JKML	RCE						0.005						0.001	0.017		0.023			0.023
<b>JKML</b>	<b>TOT</b>						<b>0.005</b>						<b>0.001</b>	<b>0.017</b>		<b>0.023</b>			<b>0.023</b>
JSMDC	RCE	0.024						0.035						0.059		0.118			0.118
<b>JSMDC</b>	<b>TOT</b>	<b>0.024</b>						<b>0.035</b>						<b>0.059</b>		<b>0.118</b>			<b>0.118</b>
DVCEMTA	RCE	1.169														1.169			1.169
<b>DVCEMTA</b>	<b>TOT</b>	<b>1.169</b>														<b>1.169</b>			<b>1.169</b>
IISCO	RCE		0.041													0.041			0.041
<b>IISCO</b>	<b>TOT</b>		<b>0.041</b>													<b>0.041</b>			<b>0.041</b>
APMDTCL	RCE														0.322	0.322			0.322
<b>APMDTCL</b>	<b>TOT</b>														<b>0.322</b>	<b>0.322</b>			<b>0.322</b>
WBPDC	RCE	0.213														0.213			0.213
<b>WBPDC</b>	<b>TOT</b>	<b>0.213</b>														<b>0.213</b>			<b>0.213</b>
<b>PUBLIC</b>	<b>RCE</b>	<b>309.104</b>	<b>33.697</b>	<b>0.111</b>		<b>0.417</b>	<b>12.880</b>	<b>1.642</b>	<b>12.604</b>	<b>0.240</b>	<b>0.369</b>	<b>2.026</b>	<b>0.258</b>	<b>0.129</b>	<b>56.312</b>	<b>429.789</b>	<b>0.372</b>	<b>0.120</b>	<b>430.281</b>
<b>PUBLIC</b>	<b>WC</b>	<b>13.036</b>	<b>0.163</b>													<b>13.199</b>			<b>13.199</b>
<b>PUBLIC</b>	<b>TOT</b>	<b>322.140</b>	<b>33.860</b>	<b>0.111</b>		<b>0.417</b>	<b>12.880</b>	<b>1.642</b>	<b>12.604</b>	<b>0.240</b>	<b>0.369</b>	<b>2.026</b>	<b>0.258</b>	<b>0.129</b>	<b>56.312</b>	<b>442.988</b>	<b>0.372</b>	<b>0.120</b>	<b>443.480</b>

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TABLE-4.18B: SECTORWISE OFFTAKE OF NON-COKING COAL (RAW COAL, WASHED COAL & MIDDLING) FOR FINAL CONSUMPTION-COMPANYWISE IN 2011-12

(Million Tonnes)

COMPANY	Type of coal/ coal products/Lignite	Power (Utility)	Power (Captive)	Direct Feed	Cokefies	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)	(20)
BECML	RCE	2.581														2.581			2.581
<b>BECML</b>	<b>TOT</b>	<b>2.581</b>														<b>2.581</b>			<b>2.581</b>
ICML	RCE	3.168														3.168			3.168
<b>ICML</b>	<b>TOT</b>	<b>3.168</b>														<b>3.168</b>			<b>3.168</b>
JSPL	RCE								0.306							0.306			0.306
JSPL	WC		0.058						2.004							2.062			2.062
JSPL	MID		3.522													3.522			3.522
<b>JSPL</b>	<b>TOT</b>		<b>3.580</b>						<b>2.310</b>							<b>5.890</b>			<b>5.890</b>
HIL	RCE		2.298													2.298			2.298
<b>HIL</b>	<b>TOT</b>		<b>2.298</b>													<b>2.298</b>			<b>2.298</b>
MEG	RCE														7.206	7.206			7.206
<b>MEG</b>	<b>TOT</b>														<b>7.206</b>	<b>7.206</b>			<b>7.206</b>
MIL	RCE								0.846							0.846			0.846
<b>MIL</b>	<b>TOT</b>								<b>0.846</b>							<b>0.846</b>			<b>0.846</b>
BLA	WC	0.112					0.169									0.281			0.281
BLA	MID	0.008														0.008			0.008
<b>BLA</b>	<b>TOT</b>	<b>0.120</b>					<b>0.169</b>									<b>0.289</b>			<b>0.289</b>
PANEM	RCE	8.278														8.278			8.278
<b>PANEM</b>	<b>TOT</b>	<b>8.278</b>														<b>8.278</b>			<b>8.278</b>
PIL	RCE								1.000							1.000			1.000
<b>PIL</b>	<b>TOT</b>								<b>1.000</b>							<b>1.000</b>			<b>1.000</b>
JNL	RCE								0.457							0.457	0.001		0.458
<b>JNL</b>	<b>TOT</b>								<b>0.457</b>							<b>0.457</b>	<b>0.001</b>		<b>0.458</b>
JPL	RCE		5.249													5.249			5.249
<b>JPL</b>	<b>TOT</b>		<b>5.249</b>													<b>5.249</b>			<b>5.249</b>
SIL	RCE								0.164							0.164			0.164
<b>SIL</b>	<b>TOT</b>								<b>0.164</b>							<b>0.164</b>			<b>0.164</b>
UML	RCE								0.351							0.351			0.351
<b>UML</b>	<b>TOT</b>								<b>0.351</b>							<b>0.351</b>			<b>0.351</b>
KEMTA	RCE	2.205														2.205			2.205
<b>KEMTA</b>	<b>TOT</b>	<b>2.205</b>														<b>2.205</b>			<b>2.205</b>
SEML	RCE		0.071						0.226							0.297			0.297
SEML	WC								0.209							0.209			0.209
SEML	MID		0.015													0.015			0.015
<b>SEML</b>	<b>TOT</b>		<b>0.086</b>						<b>0.435</b>							<b>0.521</b>			<b>0.521</b>
BSIL	RCE								0.006							0.006			0.006
<b>BSIL</b>	<b>TOT</b>								<b>0.006</b>							<b>0.006</b>			<b>0.006</b>
TUML	RCE								0.039							0.039			0.039
<b>TUML</b>	<b>TOT</b>								<b>0.039</b>							<b>0.039</b>			<b>0.039</b>
PRIVATE	RCE	16.232	7.618						3.395						7.206	34.451	0.001		34.452
PRIVATE	WC	0.112	0.058				0.169		2.213							2.552			2.552
PRIVATE	MID	0.008	3.537													3.545			3.545
<b>PRIVATE</b>	<b>TOT</b>	<b>16.352</b>	<b>11.213</b>				<b>0.169</b>		<b>5.608</b>						<b>7.206</b>	<b>40.548</b>	<b>0.001</b>		<b>40.549</b>
ALL INDIA	RCE	325.336	41.315	0.111		0.417	12.880	1.642	15.999	0.240	0.369	2.026	0.258	0.129	63.518	464.240	0.372	0.121	464.733
ALL INDIA	WC	13.148	0.221				0.169		2.213							15.751			15.751
ALL INDIA	MID	0.008	3.537													3.545			3.545
<b>ALL INDIA</b>	<b>TOT</b>	<b>338.492</b>	<b>45.073</b>	<b>0.111</b>		<b>0.417</b>	<b>13.049</b>	<b>1.642</b>	<b>18.212</b>	<b>0.240</b>	<b>0.369</b>	<b>2.026</b>	<b>0.258</b>	<b>0.129</b>	<b>63.518</b>	<b>483.536</b>	<b>0.372</b>	<b>0.121</b>	<b>484.029</b>

**TABLE-4.19: SECTORWISE OFFTAKE OF RAW COAL, WASHED COAL, MIDDLINGS FOR FINAL CONSUMTION TO DIFFERENT STATES: 2011-12**

(Thousand 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)	43.320	3.343	0.109			4.135		0.774		0.217	0.871	0.025	0.051	3.227	56.072	0.115		56.187
An. Pradesh	Washed Coal				0.471											0.471			0.471
<b>An. Pradesh</b>	<b>Tot Coal (FC)</b>	<b>43.320</b>	<b>3.343</b>	<b>0.109</b>	<b>0.471</b>		<b>4.135</b>		<b>0.774</b>		<b>0.217</b>	<b>0.871</b>	<b>0.025</b>	<b>0.051</b>	<b>3.227</b>	<b>56.543</b>	<b>0.115</b>		<b>56.658</b>
Aru. Pradesh	Raw Coal (FC)														0.325	0.325			0.325
<b>Aru. Pradesh</b>	<b>Tot Coal (FC)</b>														<b>0.325</b>	<b>0.325</b>			<b>0.325</b>
Assam	Raw Coal (FC)						0.025					0.041			0.093	0.159			0.159
<b>Assam</b>	<b>Tot Coal (FC)</b>						<b>0.025</b>					<b>0.041</b>			<b>0.093</b>	<b>0.159</b>			<b>0.159</b>
Bihar	Raw Coal (FC)	10.126					0.004				0.008				1.000	11.138			11.138
<b>Bihar</b>	<b>Tot Coal (FC)</b>	<b>10.126</b>					<b>0.004</b>				<b>0.008</b>				<b>1.000</b>	<b>11.138</b>			<b>11.138</b>
Chhattisgarh	Raw Coal (FC)	34.365	11.463	0.425		0.417	0.948		5.883		0.002	0.025	0.047		9.552	63.127		0.004	63.131
Chhattisgarh	Washed Coal	0.549	0.058		0.462				2.213							3.282			3.282
Chhattisgarh	Middlings		3.574													3.574			3.574
<b>Chhattisgarh</b>	<b>Tot Coal (FC)</b>	<b>34.914</b>	<b>15.095</b>	<b>0.425</b>	<b>0.462</b>	<b>0.417</b>	<b>0.948</b>		<b>8.096</b>		<b>0.002</b>	<b>0.025</b>	<b>0.047</b>		<b>9.552</b>	<b>69.983</b>		<b>0.004</b>	<b>69.987</b>
Delhi	Raw Coal (FC)	3.561													0.243	3.804			3.804
Delhi	Washed Coal	1.060														1.060			1.060
<b>Delhi</b>	<b>Tot Coal (FC)</b>	<b>4.621</b>													<b>0.243</b>	<b>4.864</b>			<b>4.864</b>
GOA	Raw Coal (FC)								0.023						0.006	0.029			0.029
<b>GOA</b>	<b>Tot Coal (FC)</b>								<b>0.023</b>						<b>0.006</b>	<b>0.029</b>			<b>0.029</b>
Gujarat	Raw Coal (FC)	18.115	0.453				0.104	0.395			0.066	0.005	0.030		0.293	19.461			19.461
<b>Gujarat</b>	<b>Tot Coal (FC)</b>	<b>18.115</b>	<b>0.453</b>				<b>0.104</b>	<b>0.395</b>			<b>0.066</b>	<b>0.005</b>	<b>0.030</b>		<b>0.293</b>	<b>19.461</b>			<b>19.461</b>
Haryana	Raw Coal (FC)	16.266	0.041					0.660							0.047	17.014			17.014
Haryana	Washed Coal	0.557														0.557			0.557
<b>Haryana</b>	<b>Tot Coal (FC)</b>	<b>16.823</b>	<b>0.041</b>					<b>0.660</b>							<b>0.047</b>	<b>17.571</b>			<b>17.571</b>
H.Pradesh	Raw Coal (FC)	0.070	0.093				0.501				0.008				0.002	0.674			0.674
<b>H.Pradesh</b>	<b>Tot Coal (FC)</b>	<b>0.070</b>	<b>0.093</b>				<b>0.501</b>				<b>0.008</b>				<b>0.002</b>	<b>0.674</b>			<b>0.674</b>
J.& K	Raw Coal (FC)						0.030						0.001	0.017	0.044	0.092			0.092
<b>J.&amp; K</b>	<b>Tot Coal (FC)</b>						<b>0.030</b>						<b>0.001</b>	<b>0.017</b>	<b>0.044</b>	<b>0.092</b>			<b>0.092</b>
Jharkhand	Raw Coal (FC)	8.569	1.271	0.221	0.023		0.108	0.035	1.312		0.005			0.059	6.400	18.003	0.059	0.020	18.082
Jharkhand	Washed Coal	1.658	1.134		2.556											5.348			5.348
Jharkhand	Middlings		3.043			0.011										3.054			3.054
<b>Jharkhand</b>	<b>Tot Coal (FC)</b>	<b>10.227</b>	<b>5.448</b>	<b>0.221</b>	<b>2.579</b>	<b>0.011</b>	<b>0.108</b>	<b>0.035</b>	<b>1.312</b>		<b>0.005</b>			<b>0.059</b>	<b>6.400</b>	<b>26.405</b>	<b>0.059</b>	<b>0.020</b>	<b>26.484</b>
Kerala	Raw Coal (FC)						0.026					0.100				0.126			0.126
<b>Kerala</b>	<b>Tot Coal (FC)</b>						<b>0.026</b>					<b>0.100</b>				<b>0.126</b>			<b>0.126</b>
Karnataka	Raw Coal (FC)	6.393	3.294	0.002			1.209		0.491		0.006	0.248	0.071	0.002	0.504	12.220			12.220
<b>Karnataka</b>	<b>Tot Coal (FC)</b>	<b>6.393</b>	<b>3.294</b>	<b>0.002</b>			<b>1.209</b>		<b>0.491</b>		<b>0.006</b>	<b>0.248</b>	<b>0.071</b>	<b>0.002</b>	<b>0.504</b>	<b>12.220</b>			<b>12.220</b>

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**TABLE-4.19: SECTORWISE OFFTAKE OF RAW COAL, WASHED COAL, MIDDINGS FOR FINAL CONSUMTION TO DIFFERENT STATES: 2011-12**  
(Thousand 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)
Maharashtra	Raw Coal (FC)	32.345	0.692				1.796		0.855		0.029	0.277	0.059		6.049	42.102	0.005		42.107
<b>Maharashtra</b>	<b>Tot Coal (FC)</b>	<b>32.345</b>	<b>0.692</b>				<b>1.796</b>		<b>0.855</b>		<b>0.029</b>	<b>0.277</b>	<b>0.059</b>		<b>6.049</b>	<b>42.102</b>	<b>0.005</b>		<b>42.107</b>
Meghalaya	Raw Coal (FC)						0.010								7.206	7.216			7.216
<b>Meghalaya</b>	<b>Tot Coal (FC)</b>						<b>0.010</b>								<b>7.206</b>	<b>7.216</b>			<b>7.216</b>
M. Pradesh	Raw Coal (FC)	30.543	3.015	0.040			2.752		0.093		0.013	0.244	0.022		3.437	40.159	0.004	0.011	40.174
M. Pradesh	Washed Coal						0.281									0.281			0.281
M. Pradesh	Middlings	0.106														0.106			0.106
<b>M. Pradesh</b>	<b>Tot Coal (FC)</b>	<b>30.649</b>	<b>3.015</b>	<b>0.040</b>			<b>3.033</b>		<b>0.093</b>		<b>0.013</b>	<b>0.244</b>	<b>0.022</b>		<b>3.437</b>	<b>40.546</b>	<b>0.004</b>	<b>0.011</b>	<b>40.561</b>
Orissa	Raw Coal (FC)	21.761	12.587	0.111			0.233	0.026	0.684			0.140			19.901	55.443	0.006		55.449
Orissa	Washed Coal	0.711		0.131												0.842			0.842
Orissa	Middlings		0.095			0.007										0.102			0.102
<b>Orissa</b>	<b>Tot Coal (FC)</b>	<b>22.472</b>	<b>12.682</b>	<b>0.111</b>	<b>0.131</b>	<b>0.007</b>	<b>0.233</b>	<b>0.026</b>	<b>0.684</b>			<b>0.140</b>			<b>19.901</b>	<b>56.387</b>	<b>0.006</b>		<b>56.393</b>
Panjab	Raw Coal (FC)	12.632	0.118					1.070							0.370	14.190			14.190
<b>Panjab</b>	<b>Tot Coal (FC)</b>	<b>12.632</b>	<b>0.118</b>					<b>1.070</b>							<b>0.370</b>	<b>14.190</b>			<b>14.190</b>
Rajasthan	Raw Coal (FC)	14.467	1.956				0.799	0.342							0.813	18.377			18.377
Rajasthan	Washed Coal	1.601														1.601			1.601
<b>Rajasthan</b>	<b>Tot Coal (FC)</b>	<b>16.068</b>	<b>1.956</b>				<b>0.799</b>	<b>0.342</b>							<b>0.813</b>	<b>19.978</b>			<b>19.978</b>
Tamilnadu	Raw Coal (FC)	12.960	0.693				0.171		4.836			0.023			0.053	18.736			18.736
<b>Tamilnadu</b>	<b>Tot Coal (FC)</b>	<b>12.960</b>	<b>0.693</b>				<b>0.171</b>		<b>4.836</b>			<b>0.023</b>			<b>0.053</b>	<b>18.736</b>			<b>18.736</b>
U. Pradesh	Raw Coal (FC)	48.052	3.797	0.069			0.012	0.293	0.522	0.240	0.012	0.004			3.911	56.912			56.912
U. Pradesh	Washed Coal	6.361														6.361			6.361
U. Pradesh	Middlings	0.113														0.113			0.113
<b>U. Pradesh</b>	<b>Tot Coal (FC)</b>	<b>54.526</b>	<b>3.797</b>	<b>0.000</b>	<b>0.069</b>	<b>0.000</b>	<b>0.012</b>	<b>0.293</b>	<b>0.522</b>	<b>0.240</b>	<b>0.012</b>	<b>0.004</b>	<b>0.000</b>	<b>0.000</b>	<b>3.911</b>	<b>63.386</b>	<b>0.000</b>	<b>0.000</b>	<b>63.386</b>
Uttaranchal	Raw Coal (FC)		0.341												0.221	0.562			0.562
<b>Uttaranchal</b>	<b>Tot Coal (FC)</b>		<b>0.341</b>												<b>0.221</b>	<b>0.562</b>			<b>0.562</b>
W. Bengal	Raw Coal (FC)	39.942	0.362	0.126	0.089		0.018		0.480		0.011	0.040	0.003		4.261	45.332	0.249	0.108	45.689
W. Bengal	Washed Coal	1.966		0.514												2.480			2.480
W. Bengal	Middlings		0.222			0.176										0.398			0.398
<b>W. Bengal</b>	<b>Tot Coal (FC)</b>	<b>41.908</b>	<b>0.584</b>	<b>0.126</b>	<b>0.603</b>	<b>0.176</b>	<b>0.018</b>		<b>0.480</b>		<b>0.011</b>	<b>0.040</b>	<b>0.003</b>		<b>4.261</b>	<b>48.210</b>	<b>0.249</b>	<b>0.108</b>	<b>48.567</b>
Others	Raw Coal (FC)														0.308	0.308			0.268
<b>Others</b>	<b>Tot Coal (FC)</b>														<b>0.308</b>	<b>0.308</b>	<b>0.000</b>	<b>0.000</b>	<b>0.268</b>
<b>All India</b>	<b>Raw Coal (FC)</b>	<b>353.487</b>	<b>43.519</b>	<b>0.994</b>	<b>0.221</b>	<b>0.417</b>	<b>12.881</b>	<b>2.821</b>	<b>15.953</b>	<b>0.240</b>	<b>0.369</b>	<b>2.026</b>	<b>0.258</b>	<b>0.129</b>	<b>68.266</b>	<b>501.581</b>	<b>0.438</b>	<b>0.143</b>	<b>502.162</b>
<b>All India</b>	<b>Washed Coal</b>	<b>14.463</b>	<b>1.192</b>	<b>4.134</b>			<b>0.281</b>		<b>2.213</b>							<b>22.283</b>			<b>22.283</b>
<b>All India</b>	<b>Middlings</b>	<b>0.219</b>	<b>6.934</b>			<b>0.194</b>										<b>7.347</b>			<b>7.347</b>
<b>All India</b>	<b>Tot Coal (FC)</b>	<b>368.169</b>	<b>51.645</b>	<b>0.994</b>	<b>4.355</b>	<b>0.611</b>	<b>13.162</b>	<b>2.821</b>	<b>18.166</b>	<b>0.240</b>	<b>0.369</b>	<b>2.026</b>	<b>0.258</b>	<b>0.129</b>	<b>68.266</b>	<b>531.211</b>	<b>0.438</b>	<b>0.143</b>	<b>531.792</b>

TABLE 4.20 : AVAILABILITY AND OFF-TAKE OF INDIAN RAW COAL FROM PUBLIC & PRIVATE SECTORS DURING LAST TEN YEARS  
(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)
2002-03	18.075	325.433	343.508	322.771	1.479	324.250	19.347	0.049	15.839	15.888	15.837	0.003	15.840	0.047	18.124	341.272	359.396	338.608	1.482	340.090	19.394
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	<b>49.195</b>	49.818	48.399	0.001	48.400	1.412	72.192	539.950	612.142	535.299	0.621	535.920	74.040

**TABLE 4.21 : AVAILABILITY AND OFF-TAKE OF INDIAN RAW COAL FROM CAPTIVE AND NON-CAPTIVE MINES DURING LAST TEN YEARS**  
( Millon 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)
2002-03	0.098	16.830	16.928	16.846	0.010	16.856	0.142	18.026	324.442	342.468	321.762	1.472	323.234	19.252	18.124	341.272	359.396	338.608	1.482	340.090	19.394
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	532.042	579.359	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

**TABLE 4.22: AVAILABILITY AND OFF-TAKE OF INDIAN RAW COAL BY COMPANIES DURING 2010-11 & 2011-12**

(Million Tonnes)

Company	2010-11							2011-12						
	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	61.866	431.321	493.187	423.781	0.515	424.296	68.900	68.900	435.838	504.738	432.618	0.465	433.083	69.551
SCCL	1.224	51.333	52.557	50.046	0.098	50.144	2.413	2.413	52.211	54.624	51.389	0.115	51.504	3.038
JKML	0.008	0.024	0.032	0.025		0.025	0.004	0.004	0.020	0.024	0.023		0.023	0.003
JSMDCL	0.000	0.399	0.399	0.399		0.399	0.000	0.000	0.118	0.118	0.118		0.118	0.000
DVC	0.000	0.311	0.311	0.193	0.001	0.194	0.117	0.117	0.328	0.445	0.410	0.001	0.411	0.000
DVC EMTA		0.021	0.021	0.000		0.000	0.021	0.021	1.165	1.186	1.169		1.169	0.017
IISCO	0.015	1.082	1.097	1.089		1.089	0.008	0.008	0.598	0.606	0.598		0.598	0.009
SAIL	0.000	0.014	0.014	0.014		0.014	0.000	0.000	0.040	0.040	0.040		0.040	0.000
APMDTCL	0.049	0.299	0.348	0.245		0.245	0.104	0.104	0.221	0.325	0.322		0.322	0.004
WBPDCCL	0.013	0.257	0.270	0.268		0.268	0.002	0.002	0.216	0.218	0.213		0.213	0.006
<b>PUBLIC</b>	<b>63.175</b>	<b>485.061</b>	<b>548.236</b>	<b>476.060</b>	<b>0.614</b>	<b>476.674</b>	<b>71.569</b>	<b>71.569</b>	<b>490.755</b>	<b>562.324</b>	<b>486.900</b>	<b>0.581</b>	<b>487.481</b>	<b>72.628</b>
BECML	0.013	2.876	2.889	2.883		2.883	0.006	0.006	2.598	2.604	2.581		2.581	0.023
ICML	0.357	2.929	3.286	2.923		2.923	0.363	0.363	3.745	4.108	3.168		3.168	0.941
JSPL	0.001	5.999	6.000	5.995		5.995	0.005	0.005	5.998	6.003	5.993		5.993	0.010
HIL	0.066	2.285	2.351	2.272		2.272	0.008	0.008	2.357	2.365	2.298		2.298	0.139
MEGA	0.000	6.974	6.974	6.974		6.974	0.000	0.000	7.206	7.206	7.206		7.206	0.000
TSL	0.018	7.026	7.044	7.026	0.007	7.033	0.010	0.010	7.461	7.471	7.438		7.438	0.034
MIL	0.016	0.952	0.968	0.960		0.960	0.007	0.007	0.851	0.858	0.846		0.846	0.012
BLA	0.000	0.297	0.297	0.297		0.297	0.008	0.008	0.299	0.307	0.299		0.299	0.000
CML	0.020	0.000	0.020	0.000		0.000	0.020	0.020	0.000	0.020	0.000		0.000	0.020
PANEM	0.100	8.031	8.131	8.126		8.126	0.006	0.006	8.301	8.307	8.278		8.278	0.029
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	0.072	0.406	0.478	0.477		0.477	0.001	0.001	0.480	0.481	0.457	0.001	0.458	0.023
JPL	0.842	5.688	6.530	5.249		5.249	0.001	0.001	5.250	5.251	5.249		5.249	0.002
SIL	0.006	0.114	0.120	0.102		0.102	0.019	0.019	0.160	0.179	0.164		0.164	0.015
ESCL	0.028	0.034	0.062	0.022		0.022	0.040	0.040	0.106	0.146	0.037		0.037	0.108
UML	0.004	0.300	0.304	2.368		2.368	0.005	0.005	0.351	0.356	0.351		0.351	0.005
KEMTA	0.119	2.275	2.394	0.300		0.300	0.025	0.025	2.189	2.214	2.205		2.205	0.009
SEML	0.025	0.432	0.457	0.431		0.431	0.011	0.011	0.774	0.785	0.784		0.784	0.001
BSIL	0.000	0.015		0.000		0.000	0.015	0.015	0.003	0.018	0.006		0.006	0.013
TUML									0.066	0.066	0.039		0.039	0.027
<b>PRIVATE</b>	<b>1.688</b>	<b>47.633</b>	<b>49.306</b>	<b>47.405</b>	<b>0.007</b>	<b>47.412</b>	<b>0.551</b>	<b>0.551</b>	<b>49.195</b>	<b>49.746</b>	<b>48.399</b>	<b>0.001</b>	<b>48.400</b>	<b>1.412</b>
<b>INDIA</b>	<b>64.863</b>	<b>532.694</b>	<b>597.542</b>	<b>523.465</b>	<b>0.621</b>	<b>524.086</b>	<b>72.120</b>	<b>72.120</b>	<b>539.950</b>	<b>612.070</b>	<b>535.299</b>	<b>0.582</b>	<b>535.881</b>	<b>74.040</b>



**Table 4.23: COMPANYWISE AND SECTORWISE OFF-TAKE OF LIGNITE IN LAST FIVE YEARS**

( 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)
GIPCL	2007-08	1.739										<b>1.739</b>
GMDCL	2007-08	2.836	0.151	0.732		0.718	0.016	0.183	0.157	0.877	4.297	<b>9.967</b>
GHCL	2007-08	0.086										<b>0.086</b>
NLCL	2007-08	21.794		0.134		0.005		0.163	0.079	0.033	0.051	<b>22.259</b>
RSMML	2007-08	0.301		0.090	0.006	0.045			0.085		0.079	<b>0.606</b>
<b>TOTAL</b>	<b>2007-08</b>	<b>26.756</b>	<b>0.151</b>	<b>0.956</b>	<b>0.006</b>	<b>0.768</b>	<b>0.016</b>	<b>0.346</b>	<b>0.321</b>	<b>0.910</b>	<b>4.427</b>	<b>34.657</b>
GHCL	2008-09	0.234										<b>0.234</b>
GIPCL	2008-09	1.701										<b>1.701</b>
GMDCL	2008-09	2.915	0.122		0.108		0.610	<b>2.218</b>		0.364	1.774	<b>8.111</b>
NLCL	2008-09	20.397	0.077								0.274	<b>20.748</b>
RSMML	2008-09	0.465	0.143	0.007			0.083	<b>0.245</b>		0.001	0.055	<b>0.999</b>
<b>TOTAL</b>	<b>2008-09</b>	<b>25.712</b>	<b>0.342</b>	<b>0.007</b>	<b>0.108</b>	<b>0.000</b>	<b>0.693</b>	<b>2.463</b>	<b>0.000</b>	<b>0.365</b>	<b>2.103</b>	<b>31.793</b>
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
<b>TOTAL</b>	<b>2009-10</b>	<b>28.142</b>	<b>0.000</b>	<b>0.380</b>	<b>0.000</b>	<b>0.785</b>	<b>0.000</b>	<b>1.818</b>	<b>0.512</b>	<b>0.503</b>	<b>2.290</b>	<b>34.430</b>
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
<b>TOTAL</b>	<b>2010-11</b>	<b>29.899</b>	<b>0.000</b>	<b>0.361</b>	<b>0.000</b>	<b>1.175</b>	<b>0.000</b>	<b>2.564</b>	<b>0.545</b>	<b>1.122</b>	<b>2.019</b>	<b>37.685</b>
GHCL	2011-12	0.389										<b>0.389</b>
GIPCL	2011-12	2.716										<b>2.716</b>
GMDCL	2011-12	3.069		0.340		3.536		0.579	0.915	0.831	2.073	<b>11.343</b>
NLCL	2011-12	23.740	0.031	0.586		0.001	0.010	0.052	0.014	0.001	0.037	<b>24.472</b>
RSMML	2011-12	1.306	0.001	0.088	0.002	0.132			0.053	0.038	0.502	<b>2.120</b>
VSLPPL	2011-12	0.843										<b>0.843</b>
<b>TOTAL</b>	<b>2011-12</b>	<b>32.063</b>	<b>0.032</b>	<b>1.014</b>	<b>0.002</b>	<b>3.669</b>	<b>0.010</b>	<b>0.631</b>	<b>0.982</b>	<b>0.870</b>	<b>2.612</b>	<b>41.883</b>

**TABLE 4.24 : BALANCE SHEET OF AVAILABILITY AND SUPPLY OF RAW COAL & LIGNITE DURING 2010-11 & 2011-12**  
( Million Tonnes)

Availability (within India)	2010-11	2011-12	Supply (within India)	2010-11				2011-12			
				Raw Coal	Lignite	Imported Coal	Total	Raw Coal	Lignite	Importe d Coal	Total
<b>(A) Production</b>			Sectors								
Coking Coal	49.547	51.660									
Non-coking Coal	483.147	488.290									
Lignite	37.733	42.332	Steel & Washery	17.261		19.484	<b>36.745</b>	16.054	0.032	31.801	<b>47.887</b>
<b>Total</b>	<b>570.427</b>	<b>582.282</b>	Power (Utility+Captive)	395.836	29.9	18.296	<b>444.032</b>	410.368	32.063	27.305	<b>469.735</b>
<b>(B) Change of Vendible Stock (Closing - Opening)</b>			Cement	15.079	0.361	8.520	<b>23.960</b>	13.179	1.0137	13.179	<b>27.372</b>
Coking Coal	1.489	-1.621	Textile	0.275	1.175		<b>1.450</b>	0.258	3.6685		<b>3.927</b>
Non-coking Coal	5.840	3.469	Sponge Iron	22.794			<b>22.794</b>	21.686			<b>21.686</b>
Lignite	0.045	0.441	Fertilizer & Chem.	4.108	1.122		<b>5.230</b>	2.821	0.002		<b>2.823</b>
<b>Total Change (Cl - Op)</b>	<b>7.374</b>	<b>2.289</b>	Paper	2.432	2.564		<b>4.996</b>	2.026	0.631		<b>2.657</b>
<b>(C) Import</b>			Brick	0.275	0.545		<b>0.820</b>	0.129	0.98154		<b>1.111</b>
Coking Coal	19.484	31.801	Others	65.405	2.019	22.618	<b>90.042</b>	68.778	3.492	30.568	<b>102.838</b>
Non-coking Coal	49.434	71.052	Colliery Consmn.	0.621			<b>0.621</b>	0.582			<b>0.582</b>
<b>Total Raw Coal</b>	<b>68.918</b>	<b>102.853</b>	<b>Total Off-take</b>	<b>524.086</b>	<b>37.686</b>	<b>68.918</b>	<b>630.690</b>	<b>535.881</b>	<b>41.883</b>	<b>102.853</b>	<b>680.616</b>
<b>(D) Export</b>	<b>1.875</b>	<b>2.032</b>									
			Statistical Difference				<b>-0.594</b>				<b>0.197</b>
<b>(E) Total Availability</b>	<b>630.096</b>	<b>680.814</b>	<b>Total Supply</b>				<b>630.096</b>				<b>680.814</b>

**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 opening 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 2011-12, the pit head closing stock of coal and lignite were 74.04 MT and 1.051 MT respectively. In both the cases the stock registered an increase over the last year. Statement 5.1 depicts the pit head closing stock for the current year as well as previous year.

Company	Year	
	2010-11	2011-12
Coal	72.192	74.040
Coking	12.753	11.132
Metallurgical	1.715	2.340
Non-metallurgical	11.038	8.792
Non-coking	59.439	62.908
Lignite	0.610	1.051

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

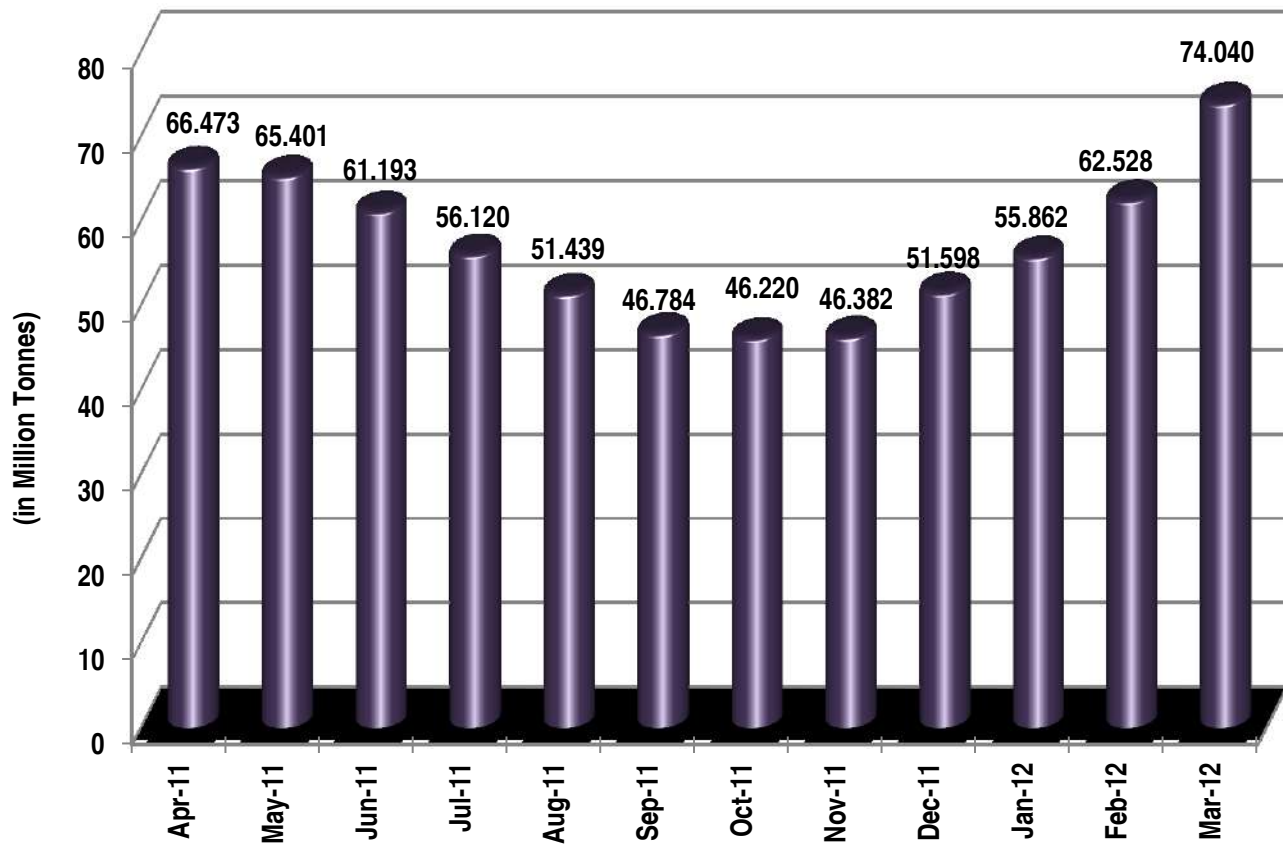
Year	Pit Head Closing Stock	
	Raw Coal	Lignite
2002-03	19.394	0.731
2003-04	21.291	0.212
2004-05	23.969	0.536
2005-06	34.334	0.525
2006-07	44.348	1.002
2007-08	46.779	0.328
2008-09	47.317	0.903
2009-10	64.863	0.565
2010-11	72.192	0.610
2011-12	74.040	1.051

It is observed that in case of coal the pit head closing stock has been increasing over the years and it has increased from 19.394 MT (2002-03) to 74.040 MT (2011-12). The trend in case of lignite is fluctuating one.

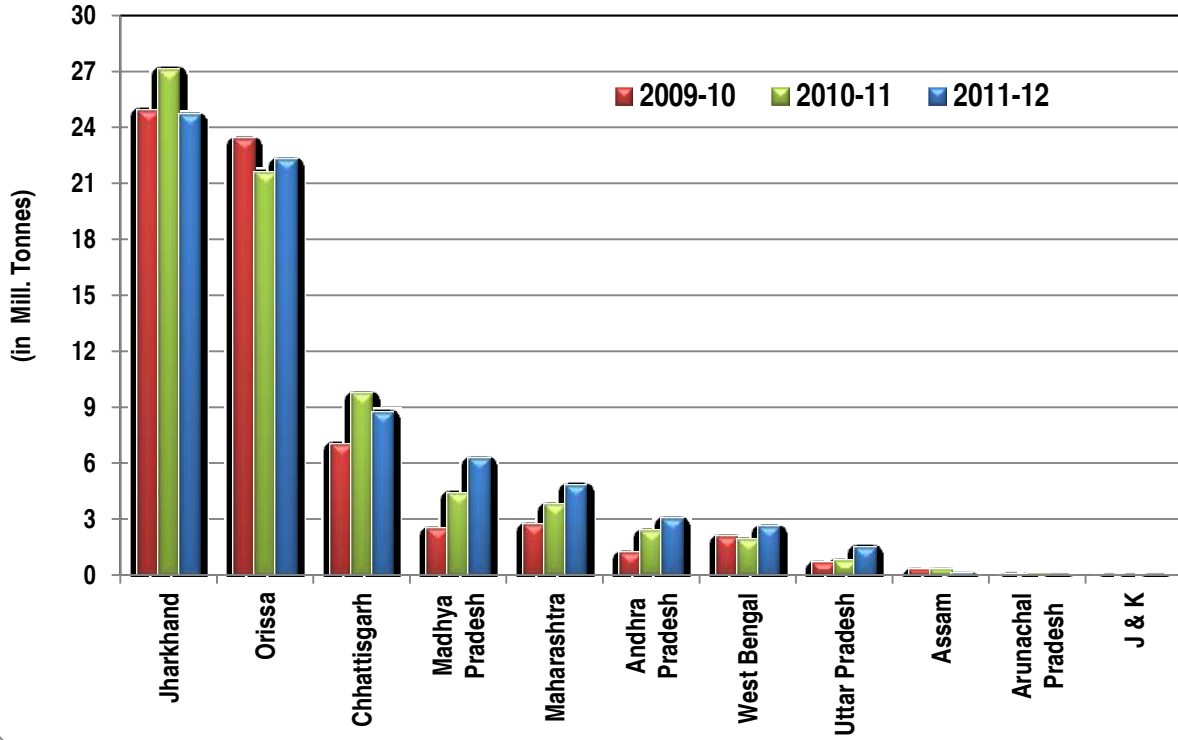
Statement 5.3 shows pit head closing stock of coal by companies during the period 2010-11 and 2011-12. There is not much change in Pit head closing stock of coal in 2011-12 over 2010-11. Further details on this aspect have been provided in tables attached with the section.

Company	Year	
	2010-11	2011-12
(1)	(6)	(6)
<b>COAL</b>		
ECL	4.342	4.046
BCCL	7.951	6.955
CCL	16.163	15.099
NCL	4.055	6.843
WCL	3.950	5.093
SECL	10.615	9.298
MCL	21.531	22.122
NEC	0.293	0.095
CIL	68.900	69.551
SCCL	2.413	3.038
OTHER PUBLIC	0.256	0.039
PUBLIC	71.569	72.628
PRIVATE	0.623	1.412
<b>TOTAL</b>	<b>72.192</b>	<b>74.040</b>
<b>LIGNITE</b>		
NLC	0.471	0.589
GIPCL	0.127	0.452
OTHERS	0.012	0.010
<b>TOTAL</b>	<b>0.610</b>	<b>1.051</b>

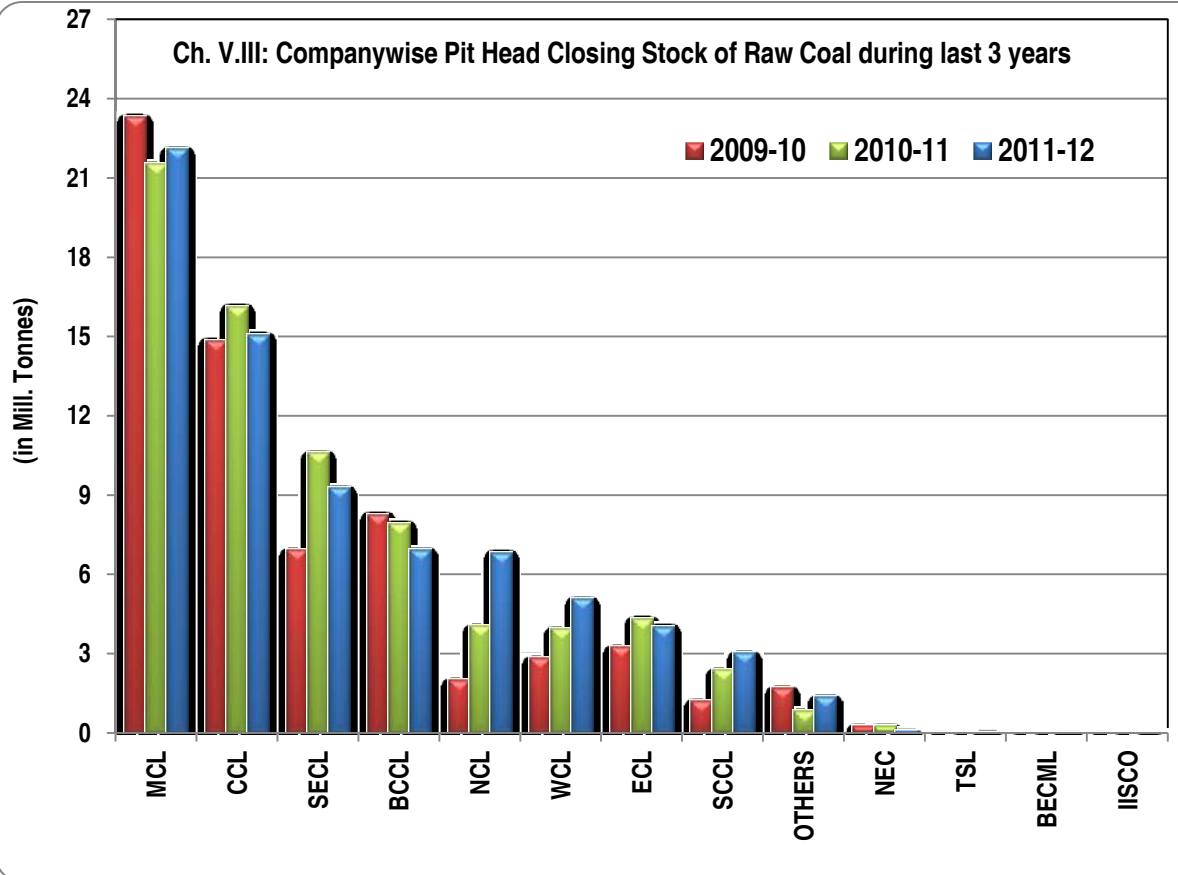
**Ch. V.I : Monthly Pit Head Closing Stock of Raw Coal During 2011-12**



Ch. V.II: Statewise Pit Head Closing Stock of Raw Coal during last 3 years



Ch. V.III: Companywise Pit Head Closing Stock of Raw Coal during last 3 years



**TABLE-5.2: TRENDS OF PIT-HEAD CLOSING STOCK OF DIFFERENT TYPES OF RAW COAL IN LAST TEN YEARS**  
(Million Tonnes)

Year	Coking Coal									Non Coking Coal			Raw Coal	
	Metallurgical Coal			Non Metallurgical Coal			Total Coking Coal			Pit-head Closing Stock	Share in coal (%)	Change over previous year (%)	Pit-head Closing Stock	Change over previous year (%)
	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 (%)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
2002-03	1.258	42.3	168.8	1.715	57.7	-2.1	2.973	15.3	33.9	16.421	84.7	3.3	19.394	7.0
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

**TABLE-5.1. TRENDS OF PIT-HEAD CLOSING STOCK OF DIFFERENT SOLID FOSSIL FUELS IN LAST TEN YEARS**  
(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)
2002-03	19.394	96.37	7.01	0.731	3.63	-1.48	20.125	6.67
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

**TABLE-5.3 : MONTHLY PIT-HEAD CLOSING STOCK OF COAL, LIGNITE AND VARIOUS COAL PRODUCTS  
IN 2010-11**

( 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-11	66.473	0.456	0.252	0.271	0.261	2.212	0.027
May-11	65.401	1.267	0.271	0.232	0.253	2.231	0.014
Jun-11	61.193	1.523	0.244	0.250	0.228	2.338	0.013
<b>1st Quarter</b>	<b>61.193</b>	<b>1.523</b>	<b>0.244</b>	<b>0.25</b>	<b>0.228</b>	<b>2.338</b>	<b>0.013</b>
Jul-11	56.120	1.316	0.219	0.614	0.202	2.414	0.02
Aug-11	51.439	1.239	0.216	0.263	0.139	2.461	0.023
Sep-11	46.784	1.213	0.208	0.263	0.148	2.423	0.023
<b>2nd Quarter</b>	<b>46.784</b>	<b>1.213</b>	<b>0.208</b>	<b>0.263</b>	<b>0.148</b>	<b>2.423</b>	<b>0.023</b>
Oct-11	46.22	0.723	0.205	0.306	0.153	2.389	0.025
Nov-11	46.382	<b>0.721</b>	0.236	0.307	0.165	2.437	0.023
Dec-11	51.598	0.54	0.259	0.265	0.199	2.303	0.012
<b>3rd Quarter</b>	<b>51.598</b>	<b>0.54</b>	<b>0.259</b>	<b>0.265</b>	<b>0.199</b>	<b>2.303</b>	<b>0.012</b>
Jan-12	55.862	0.536	0.272	0.678	0.214	2.187	0.018
Feb-12	62.528	0.712	0.265	0.701	0.206	2.131	0.019
Mar-12	74.040	1.051	0.277	0.392	0.219	2.103	0.033
<b>4th Quarter</b>	<b>74.040</b>	<b>1.051</b>	<b>0.277</b>	<b>0.392</b>	<b>0.219</b>	<b>2.103</b>	<b>0.033</b>



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

( 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)
2002-03	0.341	1.76	-41.41	0.470	2.42	-2.08	3.127	16.12	-34.43
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

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)
2002-03	0.017	0.09	6.25	8.580	44.24	34.59	1.469	7.57	13.17
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

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)
2002-03	0.575	2.96	-42.73				2.480	12.79	48.33
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

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**

( 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)
2002-03	0.742	3.83	174.81	1.593	8.21	-3.92	19.394	7.01
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

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

( 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)
2002-03	0.721	98.63	2.27	0.010	1.37	-72.97	0		
2003-04	0.161	75.94	-77.67	0.051	24.06	410.00	0		
2004-05	0.491	91.60	204.97	0.045	8.40	-11.76	0		
2005-06	0.466	88.76	-5.09	0.049	9.33	8.89	0		
2006-07	0.973	97.11	108.80	0.029	2.89	-40.82	0	0	0
2007-08	0.302	92.07	-68.96	0.026	7.93	-10.34	0	0	0
2008-09	0.862	95.46	185.43	0.041	4.54	57.69	0	0	0
2009-10	0.410	72.57	-52.44	0.155	27.43	278.05	0	0	0
2010-11	0.471	77.21	14.88	0.139	22.79	-10.32	0	0	0
2011-12	0.589	56.04	25.05	0.462	43.96	232.37	0	0	0

Year	ALL INDIA	
	Quantity	Growth (%)
(11)	(12)	(13)
2002-03	0.731	-1.48
2003-04	0.212	-71.00
2004-05	0.536	152.83
2005-06	0.525	-2.05
2006-07	1.002	90.86
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

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

(Million Tonnes)

Company	2009-10		2010-11		2011-12	
	Quantity	% of All India	Quantity	% of All India	Quantity	% of All India
(1)	(4)	(5)	(6)	(7)	(6)	(7)
<b>COAL :</b>						
ECL	3.282	5.06	4.342	6.01	4.046	5.46
BCCL	8.283	12.77	7.951	11.01	6.955	9.39
CCL	14.868	22.92	16.163	22.39	15.099	20.39
NCL	2.010	3.10	4.055	5.62	6.843	9.24
WCL	2.856	4.40	3.950	5.47	5.093	6.88
SECL	6.930	10.68	10.615	14.70	9.298	12.56
MCL	23.343	35.99	21.531	29.82	22.122	29.88
NEC	0.294	0.45	0.293	0.41	0.095	0.13
<b>CIL</b>	<b>61.866</b>	<b>95.38</b>	<b>68.900</b>	<b>95.44</b>	<b>69.551</b>	<b>93.94</b>
SCCL	1.224	1.89	2.413	3.34	3.038	4.10
JKML	0.008	0.01	0.004	0.01	0.003	0.00
JSMDC						
DVC			0.117	0.16		0.00
IISCO	0.015	0.02	0.008	0.01	0.009	0.01
APMDTCL	0.049	0.08	0.104	0.14	0.004	0.01
SAIL						
WBPDC	0.013	0.02	0.002	0.00	0.006	0.01
DVC EMTA			0.021	0.03	0.017	0.02
<b>PUBLIC</b>	<b>63.175</b>	<b>97.40</b>	<b>71.569</b>	<b>99.14</b>	<b>72.628</b>	<b>98.09</b>
BECML	0.013	0.02	0.006	0.01	0.023	0.03
ICML	0.357	0.55	0.363	0.50	0.941	1.27
JSPL	0.001	0.00	0.005	0.01	0.010	0.01
HIL	0.066	0.10	0.080	0.11	0.139	0.19
Megha						
TSL	0.018	0.03	0.010	0.01	0.034	0.05
MIL	0.016	0.02	0.007	0.01	0.012	0.02
BLA			0.008	0.01		0.00
CML	0.020	0.03	0.020	0.03	0.020	0.03
PANEM	0.100	0.15	0.006	0.01	0.029	0.04
PIL	0.001	0.00	0.001	0.00	0.001	0.00
JNL	0.072	0.11	0.001	0.00	0.023	0.03
JPL	0.842	1.30	0.001	0.00	0.002	0.00
SIL	0.006	0.01	0.019	0.03	0.015	0.02
ESCL	0.028	0.04	0.040	0.06	0.108	0.15
UML	0.004	0.01	0.005	0.01	0.005	0.01
KEMTA	0.119	0.18	0.025	0.03	0.009	0.01
SEML	0.025	0.04	0.011	0.02	0.001	0.00
BS ISPAT			0.015	0.02	0.013	0.02
TUML					0.027	0.04
<b>PRIVATE</b>	<b>1.688</b>	<b>2.60</b>	<b>0.623</b>	<b>0.86</b>	<b>1.412</b>	<b>1.91</b>
<b>ALL INDIA</b>	<b>64.863</b>	<b>100.00</b>	<b>72.192</b>	<b>100.00</b>	<b>74.040</b>	<b>100.00</b>
<b>LIGNITE :</b>						
NLC	0.410	72.57	0.471	77.21	0.589	56.04
GMDCL			0.000		0.000	
GIPCL	0.155	27.43	0.127	20.82	0.452	43.01
GHCL			0.012	1.97	0.010	0.95
RSMMML						
VS ISPAT						
<b>ALL INDIA</b>	<b>0.565</b>	<b>100.00</b>	<b>0.610</b>	<b>100.00</b>	<b>1.051</b>	<b>100.00</b>
<b>COAL &amp; LIGNITE</b>	<b>65.428</b>		<b>72.802</b>		<b>75.091</b>	

**TABLE-5.7 : STATEWISE & COMPANYWISE PIT-HEAD CLOSING STOCK OF RAW COAL BY TYPE IN LAST THREE YEARS**

( Million Tonnes)

STATES	COAL COMPANY	2009-2010			2010-2011			2011-2012		
		Coking	N-Coking	Total	Coking	N-Coking	Total	Coking	N-Coking	Total
(1)	(2)	(3)	(4)	(5)	(3)	(4)	(5)	(3)	(4)	(5)
<b>Andhra Pradesh</b>	<b>SCCL</b>		1.224	1.224	0	2.413	2.413	0	3.038	3.038
<b>Arunachal Pradesh</b>	<b>APMDTCL</b>		0.049	0.049	0	0.104	0.104	0	0.004	0.004
<b>Assam</b>	<b>NEC</b>		0.294	0.294	0	0.293	0.293	0	0.095	0.095
Chhattisgarh	SECL	0.005	6.053	6.058	0.003	9.702	9.705	0.003	8.680	8.683
Chhattisgarh	MIL		0.016	0.016		0.007	0.007		0.012	0.012
Chhattisgarh	JSPL		0.001	0.001		0.005	0.005		0.010	0.010
Chhattisgarh	PIL		0.001	0.001		0.001	0.001		0.001	0.001
Chhattisgarh	JNL		0.072	0.072		0.001	0.001		0.023	0.023
Chhattisgarh	JPL		0.842	0.842		0.001	0.001		0.002	0.002
Chhattisgarh	SEML		0.025	0.025		0.011	0.011		0.001	0.001
<b>Chhattisgarh</b>	<b>TOTAL</b>	<b>0.005</b>	<b>7.010</b>	<b>7.015</b>	<b>0.003</b>	<b>9.728</b>	<b>9.731</b>	<b>0.003</b>	<b>8.729</b>	<b>8.732</b>
<b>Jammu &amp; Kashmir</b>	<b>JKML</b>		0.008	0.008	0.000	0.004	0.004	0.000	0.003	0.003
Jharkhand	ECL	0.050	1.815	1.865	0.047	3.003	3.050	0.004	2.666	2.670
Jharkhand	BCCL	6.199	1.831	8.030	6.681	1.036	7.717	5.978	0.740	6.718
Jharkhand	CCL	4.668	10.200	14.868	5.583	10.580	16.163	4.724	10.375	15.099
Jharkhand	JSMDC			0		0	0.000		0	0.000
Jharkhand	DVC	0		0	0.117		0.117	0.000		0.000
Jharkhand	IISCO	0		0	0		0.000	0.001		0.001
Jharkhand	TSL	0.018		0.018	0.010		0.010	0.034		0.034
Jharkhand	CML	0.020		0.020	0.020		0.020	0.020		0.020
Jharkhand	PANEM		0.100	0.100		0.006	0.006		0.029	0.029
Jharkhand	UML		0.004	0.004		0.005	0.005		0.005	0.005
Jharkhand	ESCL	0.028		0.028	0.040		0.040	0.108		0.108
Jharkhand	SAIL		0.000	0.000		0	0.000		0.000	0.000
<b>Jharkhand</b>	<b>TOTAL</b>	<b>10.983</b>	<b>13.950</b>	<b>24.933</b>	<b>12.498</b>	<b>14.630</b>	<b>27.128</b>	<b>10.869</b>	<b>13.815</b>	<b>24.684</b>
Madhya Pradesh	NCL		1.346	1.346		3.257	3.257		5.334	5.334
Madhya Pradesh	WCL	0.025	0.255	0.280	0.006	0.210	0.216	0.015	0.301	0.316
Madhya Pradesh	SECL		0.872	0.872		0.910	0.910		0.615	0.615
Madhya Pradesh	BLA		0.000	0.000		0.008	0.008		0.000	0.000
<b>Madhya Pradesh</b>	<b>TOTAL</b>	<b>0.025</b>	<b>2.473</b>	<b>2.498</b>	<b>0.006</b>	<b>4.385</b>	<b>4.391</b>	<b>0.015</b>	<b>6.250</b>	<b>6.265</b>
Maha Rashtra	WCL		2.576	2.576		3.734	3.734		4.777	4.777
Maha Rashtra	SIL		0.006	0.006		0.019	0.019		0.015	0.015
Maha Rashtra	KEMTA		0.119	0.119		0.025	0.025		0.009	0.009
Maha Rashtra	BS ISPAT					0.015	0.015		0.013	0.013
Maha Rashtra	TUML								0.027	0.027
<b>Maha Rashtra</b>	<b>TOTAL</b>	<b>0.000</b>	<b>2.701</b>	<b>2.701</b>		<b>3.793</b>	<b>3.793</b>	<b>0.000</b>	<b>4.841</b>	<b>4.841</b>
<b>Meghalaya</b>	<b>PRIVATE</b>		0	0		0	0.000		0	0.000
Orissa	MCL		23.343	23.343		21.531	21.531		22.122	22.122
Orissa	HIL		0.066	0.066		0.080	0.080		0.139	0.139
<b>Orissa</b>	<b>TOTAL</b>	<b>0.000</b>	<b>23.409</b>	<b>23.409</b>		<b>21.611</b>	<b>21.611</b>		<b>22.261</b>	<b>22.261</b>
<b>Uttar Pradesh</b>	<b>NCL</b>		0.664	0.664		0.798	0.798		1.509	1.509
West Bengal	ECL	0.015	1.402	1.417	0.014	1.278	1.292	0.010	1.366	1.376
West Bengal	BCCL	0.236	0.017	0.253	0.232	0.002	0.234	0.235	0.002	0.237
West Bengal	IISCO		0.015	0.015		0.008	0.008		0.008	0.008
West Bengal	BECML		0.013	0.013		0.006	0.006		0.023	0.023
West Bengal	ICML		0.357	0.357		0.363	0.363		0.941	0.941
West Bengal	WBPDC		0.013	0.013		0.002	0.002		0.006	0.006
West Bengal	DVC EMTA					0.021	0.021		0.017	0.017
<b>West Bengal</b>	<b>TOTAL</b>	<b>0.251</b>	<b>1.817</b>	<b>2.068</b>	<b>0.246</b>	<b>1.680</b>	<b>1.926</b>	<b>0.245</b>	<b>2.363</b>	<b>2.608</b>
<b>Total Public</b>		<b>11.198</b>	<b>51.977</b>	<b>63.175</b>	<b>12.683</b>	<b>58.886</b>	<b>71.569</b>	<b>10.970</b>	<b>61.658</b>	<b>72.628</b>
<b>Total Private</b>		<b>0.066</b>	<b>1.622</b>	<b>1.688</b>	<b>0.070</b>	<b>0.553</b>	<b>0.623</b>	<b>0.162</b>	<b>1.250</b>	<b>1.412</b>
<b>All India</b>		<b>11.264</b>	<b>53.599</b>	<b>64.863</b>	<b>12.753</b>	<b>59.439</b>	<b>72.192</b>	<b>11.132</b>	<b>62.908</b>	<b>74.040</b>

# 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 2011-12 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 2011-12.

Statement 6.1: State-wise Production (MT) and Value (Million Rs.) of Coal and Lignite for the year 2011-12		
Coal	Production	Value
Andhra Pradesh	52.211	90008.1
Arunachal P.	0.221	1464.1
Assam	0.602	3988.0
Chhattisgarh	113.958	70740.3
Jharkhand	109.566	139887.6
J & K	0.020	42.5
Madhya Pradesh	71.123	83305.5
Maharashtra	39.159	53112.6
Meghalaya	7.206	47739.8
Orissa	105.476	96399.0
Uttar Pradesh	16.178	34369.5
West Bengal	24.230	80662.1
<b>ALL INDIA</b>	<b>539.950</b>	<b>701719.1</b>
<b>Lignite</b>		
Gujarat	14.779	15249.94
Tamilnadu	24.590	36964.75
Rajasthan	2.963	1161.83
<b>ALL INDIA</b>	<b>42.332</b>	<b>53376.52</b>

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. Table 6.3 provides data on company-wise basic price of non-coking coal (run of mine) for different grades of non-coking coal in the year 2011-12.

The corresponding details for coking coal have been given in Table 6.4. Table 6.4A provides basic price of non-coking coal based on GCV band since 01.01.2012. The corresponding data for coking coal has been provided in table 6.4B.

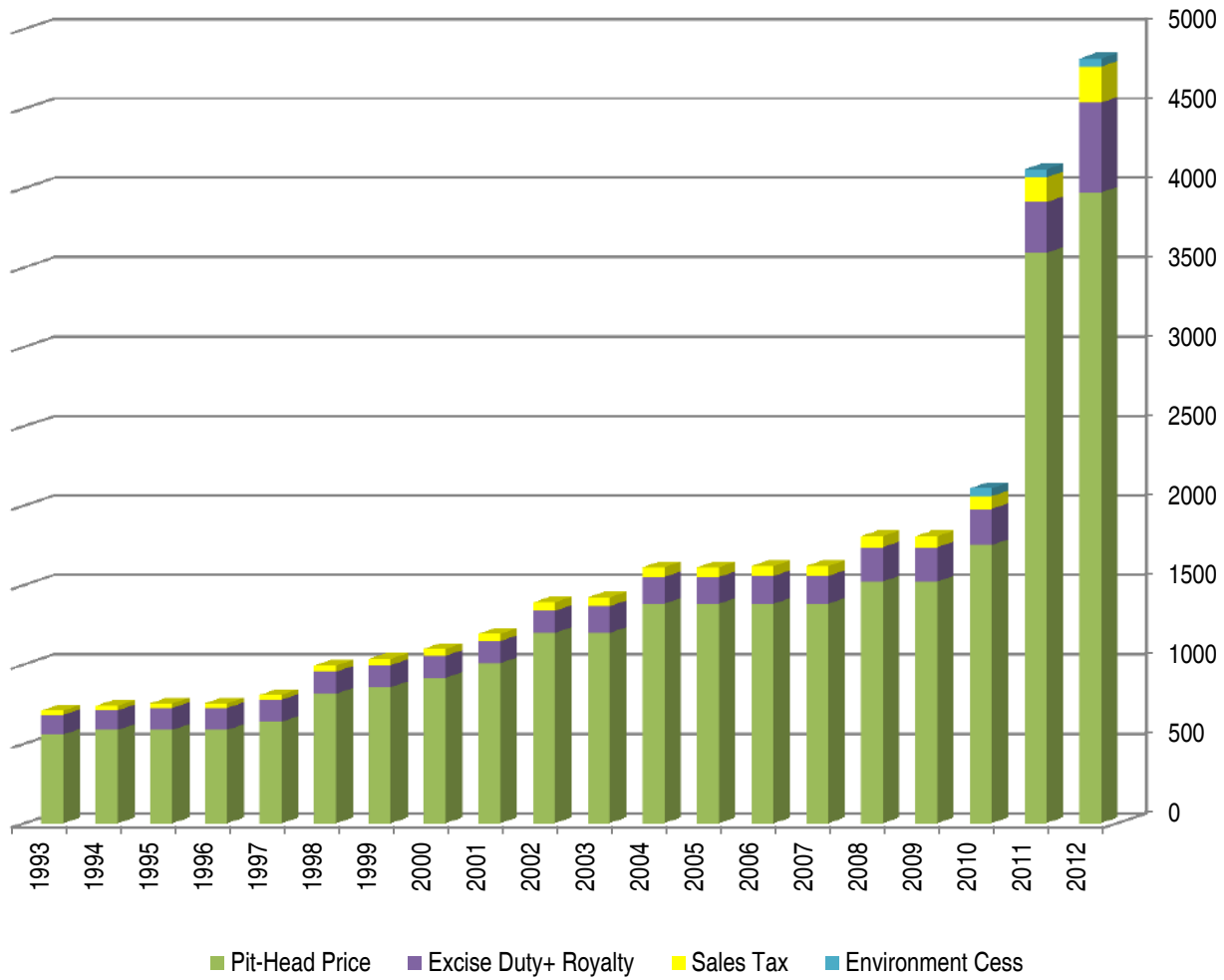
### 6.2 Price and Duty

6.2.1 Table 6.5 provides rate of stowing excise duty on coal since 1974. 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 6.6. Import duty on coking and non-coking coal since 1992-93 has been given in Table 6.8. It is observed that coking coal having ash less than 12% attracts no import duty whereas coking coal having ash value more than 12% as well as non-coking coal and coke attracts basic duty of 5%.

6.2.2 Prices of selected grades of esteemed coal and coking coal from specified sources for the year 2012 are given in statement 6.2.

Statement 6.2: Prices (Rs.) of selected grades of steam coal and coking coal from specified sources in 2012		
Steam Coal for Industry (per tonne)	Pit head Price	3970
	Excise & Royalty	565.8
	Sales Tax (%)	5
	Sales tax Amount	226.79
	Clean Energy Cess	50
	<b>Total Tax</b>	<b>842.59</b>
	<b>Total Price</b>	<b>4812.59</b>
Steam Coal for Electricity Generation (per tonne)	Pit head Price	1050
	Excise & Royalty	157
	Sales Tax (%)	5
	Sales tax Amount	60.35
	Clean Energy Cess	50
	<b>Total Tax</b>	<b>267.35</b>
	<b>Total Price</b>	<b>1317.35</b>
Coking Coal for Industry (per tonne)	Pit head Price	4080
	Excise & Royalty	581.2
	Sales Tax (%)	5
	Sales tax Amount	233.06
	Clean Energy Cess	50
	<b>Total Tax</b>	<b>864.26</b>
	<b>Total Price</b>	<b>4944.26</b>

Pit-Head Price with Royalty, Excise Duty, Environment Cess and Sales Tax



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

(Million Tonnes/ Million Rupees)

STATES	2007 - 08		2008 - 09		2009-10		2010-11		2011-12	
	Production	Value	Production	Value	Production	Value	Production	Value	Production	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<b>COAL :</b>										
Andhra Pradesh	40.604	44405.3	44.546	55682.5	50.429	67373.1	51.333	81106.1	52.211	90008.1
Arunachal P.	0.079	143.6	0.142	323.8	0.251	894.3	0.299	1106.0	0.221	1464.1
Assam	1.101	2001.4	1.009	2707.9	1.113	3965.2	1.101	4072.6	0.602	3988.0
Chhattisgarh	90.173	58121.1	101.922	67873.6	109.953	50308.3	113.824	58256.2	113.958	70740.3
Jharkhand	90.895	84357.3	96.272	96741.7	105.917	114630.0	108.949	185716.2	109.566	139887.6
J & K	0.017	13.8	0.011	57.8	0.023	18.6	0.024	22.4	0.020	42.5
Madhya Pradesh	67.841	68703.2	71.325	78404.1	74.074	84933.1	71.104	93673.6	71.123	83305.5
Maharashtra	36.402	40012.8	38.705	47850.3	41.005	50887.5	39.336	53628.8	39.159	53112.6
Meghalaya	6.541	5292.4	5.489	12514.9	5.767	20545.6	6.974	25796.8	7.206	47739.8
Orissa	89.482	42115.5	98.402	51725.7	106.409	58751.3	102.565	73545.3	105.476	96399.0
Uttar Pradesh	11.426	8864.1	12.029	8747.2	13.968	15067.8	15.526	15122.3	16.178	34369.5
West Bengal	22.521	30606.5	22.905	32740.7	23.133	45807.6	21.659	28164.1	24.230	80662.1
<b>ALL INDIA</b>	<b>457.082</b>	<b>384637.1</b>	<b>492.757</b>	<b>455370.1</b>	<b>532.042</b>	<b>513182.5</b>	<b>532.694</b>	<b>620210.4</b>	<b>539.950</b>	<b>701719.1</b>

**LIGNITE :**

Gujarat	11.788	8277.8	10.114	8926.3	10.526	7013.7	13.064	13480.3	14.779	15249.9
Tamilnadu	21.586	20819.2	21.308	26791.6	22.338	30262.9	23.144	28755.3	24.590	36964.7
Rajasthan	0.606	511.8	0.999	1160.0	1.207	479.4	1.525	1071.6	2.963	1161.8
<b>ALL INDIA</b>	<b>33.980</b>	<b>29608.8</b>	<b>32.421</b>	<b>36877.9</b>	<b>34.071</b>	<b>37756.0</b>	<b>37.733</b>	<b>43307.2</b>	<b>42.332</b>	<b>53376.5</b>

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 available, 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 2011-12**

( 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.		0.221			0.040							1.381	<b>1.642</b>	
		Value		1464.1			59.1							4582.2	<b>6105.4</b>	
	PRIVATE	Prdn.				14.353	8.758		0.299	2.418		2.357		6.343	<b>34.5</b>	
		Value				6975.9	14417.0		628.2	3303.6		1284.2		21046.1	<b>47654.9</b>	
	TOTAL	Prdn.		0.221			14.4	8.8		0.299	2.4		2.4		7.7	<b>36.2</b>
		Value		1464.1			6975.9	14476.1		628.2	3303.6		1284.2		25628.3	<b>53760.3</b>
NON CAPTIVE	PUBLIC	Prdn.	52.211		0.602	99.605	93.307	0.020	70.824	36.741		103.119	16.178	16.506	<b>489.113</b>	
		Value	90008.1		3988.0	63764.4	113597.6	42.5	82677.3	49809.0		95114.8	34369.5	55033.8	<b>588405.0</b>	
	PRIVATE	Prdn.					7.461					7.206				<b>14.7</b>
		Value					11813.8					47739.8				<b>59553.6</b>
	TOTAL	Prdn.		52.211	0.000	0.602	99.605	100.768	0.020	70.824	36.741	7.206	103.119	16.178	16.506	<b>503.780</b>
		Value		90008.1	0.0	3988.0	63764.4	125411.4	42.5	82677.3	49809.0	47739.8	95114.8	34369.5	55033.8	<b>647958.6</b>
TOTAL	PUBLIC	Prdn.	52.211	0.221	0.602	99.605	93.347	0.020	70.824	36.741	0.000	103.119	16.178	17.887	<b>490.755</b>	
		Value	90008.1	1464.1	3988.0	63764.4	113656.7	42.5	82677.3	49809.0	0.0	95114.8	34369.5	59616.0	<b>594510.4</b>	
	PRIVATE	Prdn.				14.353	16.219		0.299	2.418	7.206	2.357		6.343	<b>49.195</b>	
		Value				6975.9	26230.8		628.2	3303.6	47739.8	1284.2		21046.1	<b>107208.5</b>	
	TOTAL	Prdn.		52.211	0.221	0.602	113.958	109.566	0.020	71.123	39.159	7.206	105.476	16.178	24.230	<b>539.950</b>
		Value		90008.1	1464.1	3988.0	70740.3	139887.5	42.5	83305.5	53112.6	47739.8	96399.0	34369.5	80662.1	<b>701719.0</b>



**Table 6.3 : BASIC PRICE OF NON-COKING COAL (RUN OF MINE) IN 2011-12 (Rs. Per Tonne)**

COMPANIES	Period	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)	27/02/11-31/12/2011	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 )	27/02/11-31/12/2011	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)	27/02/11-31/12/2011	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)	27/02/11-31/12/2011	x	x	x	1331 (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- FOR 12 UNITS)	27/02/11-31/12/2011	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	27/02/11-31/12/2011	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)	27/02/11-31/12/2011								
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)	27/02/11-31/12/2011	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)	27/02/11-31/12/2011	3690	3590	1220	1000	790	630	450	

CONTINUED....

**Table 6.3 : BASIC PRICE OF NON-COKING COAL (RUN OF MINE) IN 2011-12 (Rs. Per Tonne)**

COMPANIES	Period	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	27/02/11-31/12/2011	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	27/02/11-31/12/2011	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 ( Specified)	27/02/11-31/12/2011	4100	3990	1300	1110	870	630	440	
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	15/10/09-26/2/11	1160	1030	860	720	560	440	320	
MCL	27/02/11-31/12/2011	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	27/02/11-31/12/2011	4100	3990						
SCCL	14/09/04 - 07/09/07	1528	1419	1277	1130	817	681	503	
SCCL	08/09/07 - 12/01/2011		1703	1532	1243	817	681	503	320
SCCL	13/01/11-31/12/2011	2610	2220	1840	1500	1130	690	510	

Note: Above mentioned prices are for ROM( not processed ) and non-long flame variety . However since Jan,2012 prices have been revised based on Gross Calorific Value. Please see table 6.3A for revised prices of non-coking coal

Source: Websites of CIL and SCCL

**Table 6.4: BASIC PRICE OF COKING COAL (RUN OF MINE) IN 2011-12 (Rs. Per Tonne)**

COMPANIES	Period	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 (Mugma / Raniganj )	27/02/11-31/12/2011			3110	2590	1910	1780	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 )	27/02/11-31/12/2011	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)	27/02/11-31/12/2011			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	27/02/11-31/12/2011			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	27/02/11-31/12/2011			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	27/02/11-31/12/2011							2260	1890

Note: Price have been changed for CIL Subsidiaries w.e.f 27/02/2011. However, since Jan,2012 prices have been once again revised based on Gross Caloric Value.For revised prices please see table 6.4A

Source: Websites of CIL and SCCL

**Table 6.5: STOWING EXCISE DUTY ON INDIAN COAL SINCE 1974 (Rs./tonne)**

PERIOD	Rate of SED (Rs. Per Tonne)	
	Coking Coal   Non Coking Coal	
	(2)	(3)
(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 29/11/78, 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 6.4A : BASIC PRICE OF NON-COKING COAL (RUN OF MINE) SINCE 1.1.2012 (Rs. Per Tonne)**

GCV Band	Power Utilities (including IPPs) and Defence Sector	Sectors other than Power Utilities (including IPPs) and Defence Sector
	(2)	(3)
Exceeding 7000	*	*
6700-7000	4870	4870
6400-6700	4420	4420
6100-6400	3970	3970
5800-6100	2800	2800
5500-5800	1450	1960
5200-5500	1270	1720
4900-5200	1140	1540
4600-4900	880	1180
4300-4600	780	1050
4000-4300	640	870
3700-4000	600	810
3400-3700	550	740
3100-3400	500	680
2800-3100	460	620
2500-2800	410	550
2200-2500	360	490

\*For GCV exceeding 7000Kcal/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 7000Kcal/Kg, for increase in GCV by every 100 Kcal/ Kg or part thereof.

Source: CIL website

**Table 6.4B : BASIC PRICE OF COKING COAL (RUN OF MINE) SINCE 1.1.2012 (Rs. Per Tonne)**

Subsidiary	Steel-I	Steel-II	W-I	W-II	W-III	W-IV	SC -I	SC-II	Direct Feed
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<b>Power Utilities (including IPPs) and Defence Sector</b>									
BCCL( for 53 specific units)	3750	3140	2740	1980	1480	1370			
BCCL			2020	1680	1240	1150			
ECL			2390	1990	1470	1370	2150	1790	3720
CCL			1960	1620	1200	1120			
WCL			1710	1410	1290				
SECL							1740	1450	
<b>Sectors other than Power Utilities (including IPPs) and Defence Sector</b>									
BCCL( for 53 specific units)	4880	4080	3560	2570	1920	1780			
BCCL			2630	2180	1610	1500			
ECL			3110	2590	1910	1780	2800	2330	4840
CCL			2550	2110	1560	1460			
WCL			2220	1830	1680				
SECL							2260	1890	

Source: CIL website

**Table 6.6: ROYALTY RATES ON INDIAN COAL AND LIGNITE (Rs./tonne)**

Coal category	With effect from -->	12.2.81	1.08.91		11.10.94		02.09.96		17.08.02		1.08.07		1.01.2012*		10.5.2012
		All States	All states except Assam & W.B	Assam & W.B.	All states except W.B.	W.B.	All states except Meghalaya & W.B	Meghalaya & W.B.	All states except W.B.	W.B.	All states except W.B.	W.B.	All states except W.B.	W.B.	All states
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
<b>Group I</b>	<b>Coking coal</b> Steel grade I, Steel grade II, Washery grade I, Direct Feed Hand picked coal (Assam, Arunachal Pradesh, Meghalaya & Nagaland)	7.00	150.00	7.00	195.00	7.00	195.00	7.00	250.00	7.00	180+0.05P	7.00	180+0.05P	7.00	14% ad-valorem
<b>Group II</b>	<b>Coking coal</b> Washery grade II, Washery grade III <b>Semi-Coking coal</b> Semi Coke grade I, Semi Coke grade II <b>Non-coking coal</b> GCV (Kcal/KG) more than 6101 <b>Ungraded R.O.M. coal (</b> Assam, Arunachal Pradesh, Meghalaya & Nagaland)	6.50	120.00	6.50	135.00	6.50	135.00	6.50	165.00	6.50	130+0.05P	6.50	130+0.05P	6.50	
<b>Group III</b>	<b>Coking coal</b> Washery grade IV <b>Non-coking coal</b> GCV (Kcal/KG) in the range 5201-6100	5.50	75.00	5.50	95.00	5.50	95.00	5.50	115.00	5.50	90+0.05P	5.50	90+0.05P	5.50	
<b>Group IV</b>	<b>Non-coking coal</b> GCV (Kcal/KG) in the range 4301-5200	4.30	45.00	4.30	70.00	4.30	70.00	4.30	85.00	4.30	70+0.05P	4.30	70+0.05P	4.30	
<b>Group V</b>	<b>Non-coking coal</b> GCV (Kcal/KG) in the range 3101-4300 <b>Lignite</b> <b>Middling (GCV &lt;3100)</b>	2.50	25.00	2.50	50.00	2.50	50.00	2.50	65.00	2.50	55+0.05P	2.50	55+0.05P	2.50	
<b>Group VI</b>	<b>Coal produced in Andhra Pradesh (SCCL)</b>	5.50	70.00		75.00		75.00		90.00		As applicable for Gr II-Gr V				

**Note:** (a) For the state of West Bengal, in addition to royalty, other charges are: RE Cess: 20%, PWD Road Cess: Rs.1, PE Cess: 5%, AMBH: Rs. 1, CST and SED are applicable as mentioned in note (b) & (c).

(b) For states except West Bengal, that levy cess and other taxes specific to coal bearing lands, royalty allowed shall be adjusted for the local cesses or such taxes so as to limit the overall revenues to the formula based yield.

(c) The rates of Royalty ( R), which shall be a combination of specific and ad-velem rates of royalty shall be :  $R = a + bP$ , Where P (Price) shall mean basic pithead price of run of mine (ROM) coal and Lignite as reflected in the invoice, excluding taxes, levies and other charges and the value of a (fixed component) and b(variable or ad velorem component) would be as above ( GOI Notification GSR 522(E) dated 1.8.07

(d) Stowing Excise duty applicable for all state as mentioned in table 6.5

(e) Central Sales Tax @ 4% of { Basic price + Royalty + cess (wherever applicable) + Surface transport charge ( from pit head to loading point) }

### INDICATIVE RAW COAL PRICES OVER TIME

Prices of various grades of coal of CIL and SCCL are noted in table 6.3 & 6.4. However the same for last few years are not available in a single place. To meet this requirement, particularly to help to understand price change with all other related taxes and duties over time, prices & taxes of some selected grades and source are reported here.

#### Effect of different factors on Coal Prices.

Pit-head coal prices including taxes & duties depend on quality as well as source (state). Rates of Royalties are not same for all the states. Gross coal price can be obtained by adding transport cost and loading cost with such pithead price. For a colliery, loading point of a particular mode being more or less fixed, loading cost vary over collieries. Further transport cost is not only dependent on the choice of a particular mode but also not a linear function of distance between the loading point and the final point of delivery. Thus examination of both landed cost and pithead price of coal are necessary. However for these, fixation of particular grades and sources are necessary to understand the effect of change of price over the period.

It may be noted that while selecting grades, firstly sectors/ industries using steam and coking coal are decided after which grade of coal used in these selected industries and the stable source of such coal are fixed. Sources are desired to be stable so that reasonable amount of coal of selected grade from these sources would be available for sufficiently long period.

#### Steam Coal (Non Coking Coal)

- (1) Industry sector that mostly uses superior grades steam coal (A-C).
- (2) Power generation which mostly uses power grades steam coal (D-F)

#### Coking Coal

- (1) Steel making / metallurgical uses.

The detailed specifications of such representative samples and various rates of taxes and duties are reported below. The pithead prices including taxes of these specification are reported in the next page.

### STEAM COAL (NON-COKING COAL)

#### Special Taxes

1. *Stowing Excise Duty (SED)*. Rates are equal for all grades of steam coal.

From	To	Rs./ tonne
08.02.83	26.06.03	3.50
27.06.03	present	10.00

2. *Royalties* (applicable for following specification

(grades & sources).

From	To	Steam coal for Industry (Grade-B) (Rs./ tonne)	Steam coal for Electricity (Grade-E) (Rs./ tn.)
12.02.81	31.07.91	6.50	4.30
01.08.91	10.10.94	120.00	45.00
11.10.94	16.08.02	135.00	70.00
07.08.02	31.07.07	165.00	85.00
01.08.07	present	130+0.05 *price	70+0.05*price

#### Specifications

##### 1. Use:

Quality:

##### Industry

Non-coking coal, **Grade B** (Run of Mine – Non-Long Flame) of Mugma Area of ECL (CIL), Jharkhand.

Av. GCV/NCV: 6250 /5940 kcal/kg

##### 2. Use:

Quality:

##### Electricity Generation

Non-coking coal, **Grade E** (Run of Mine–Non-Long Flame) of Rajmahal Area of ECL (CIL), Jharkhand

Av. GCV/NCV: 4 800 /4 560 kcal/kg

### COKING COAL

#### Special Taxes

1. *Stowing Excise Duty (SED)*. Rates are equal for all grades of steam coal.

From	To	Rs./ tonne
08.02.83	26.06.03	4.25
27.06.03	present	10.00

2. *Royalties* (applicable for following specification (grade & source)

From	To	Coking coal -Steel Gr. II (Rs./Tn.)
12.02.81	31.07.91	7.00
01.08.91	10.10.94	150.00
11.10.94	16.08.02	195.00
07.08.02	31.07.07	250.00
01.08.07	present	180+0.05*price

#### Specifications

Use:

Steel making/ Coke Oven for BF Coke.

Quality:

Steel Grade II (Run of Mine)-from collieries of BCCL (CIL), State-Jharkhand, linked to Washeries.

Av. GCV/NCV: 6600/6350 kcal/kg.

Ash content: 15 - 18%

**Table 6.7: PRICES OF SELECTED GRADES OF STEAM COAL AND COKING COAL FROM SPECIFIED SOURCES ( For specification see page 6.9).**

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	<b>707.72</b>	306	48.5	4.00	14.18		66.7	<b>372.7</b>	831	154.25	4.00	39.41		193.66	<b>1024.66</b>
1994	586.00	123.50	4.00	28.38		151.88	<b>737.88</b>	322	48.5	4.00	14.82		67.3	<b>389.3</b>	875	154.25	4.00	41.17		195.42	<b>1070.42</b>
1995	586.00	138.50	4.00	28.98		167.48	<b>753.48</b>	322	73.5	4.00	15.82		93.3	<b>415.3</b>	875	199.25	4.00	42.97		242.22	<b>1117.22</b>
1996	586.00	138.50	4.00	28.98		167.48	<b>753.48</b>	465	73.5	4.00	21.54		99.0	<b>564.0</b>	1094	199.25	4.00	51.73		250.98	<b>1344.98</b>
1997	638.00	138.50	4.00	31.06		169.56	<b>807.56</b>	559	73.5	4.00	25.30		102.8	<b>661.8</b>	1226	199.25	4.00	57.01		256.26	<b>1482.26</b>
1998	815.00	138.50	4.00	38.14		176.64	<b>991.64</b>	559	73.5	4.00	25.30		102.8	<b>661.8</b>	1287	199.25	4.00	59.45		258.70	<b>1545.70</b>
1999	856.00	138.50	4.00	39.78		178.28	<b>1034.28</b>	598	73.5	4.00	26.86		104.4	<b>702.4</b>	1384	199.25	4.00	63.33		262.58	<b>1646.58</b>
2000	915.00	138.50	4.00	42.14		180.64	<b>1095.64</b>	639	73.5	4.00	28.50		106.0	<b>745.0</b>	1453	199.25	4.00	66.09		265.34	<b>1718.34</b>
2001	1007.00	138.50	4.00	45.82		184.32	<b>1191.32</b>	703	73.5	4.00	31.06		108.6	<b>811.6</b>	1598	199.25	4.00	71.89		271.14	<b>1869.14</b>
2002	1197.00	138.50	4.00	53.42		191.92	<b>1388.92</b>	703	73.5	4.00	31.06		108.6	<b>811.6</b>	1598	199.25	4.00	71.89		271.14	<b>1869.14</b>
2003	1197.00	168.50	4.00	54.62		223.12	<b>1420.12</b>	703	88.5	4.00	31.66		124.2	<b>827.2</b>	1650	254.25	4.00	76.17		330.42	<b>1980.42</b>
2004	1380.00	168.50	4.00	61.94		230.44	<b>1610.44</b>	810	88.5	4.00	35.94		128.4	<b>938.4</b>	2480	254.25	4.00	109.37		363.62	<b>2843.62</b>
2005	1380.00	168.50	4.00	61.94		230.44	<b>1610.44</b>	810	88.5	4.00	35.94		128.4	<b>938.4</b>	2480	254.25	4.00	109.37		363.62	<b>2843.62</b>
2006	1380.00	175.00	4.00	62.20		237.20	<b>1617.20</b>	810	95.0	4.00	36.20		135.2	<b>945.2</b>	2480	260.00	4.00	109.60		369.60	<b>2849.60</b>
2007	1380.00	175.00	4.00	62.20		237.20	<b>1617.20</b>	810	95.0	4.00	36.20		135.2	<b>945.2</b>	2480	260.00	4.00	109.60		369.60	<b>2849.60</b>
2008	1520.00	216.00	4.00	69.44		285.44	<b>1805.44</b>	890	184.5	4.00	42.98		231.5	<b>1121.5</b>	2730	326.50	4.00	122.26		448.76	<b>3178.76</b>
2009	1520.00	216.00	4.00	69.44		285.44	<b>1805.44</b>	890	184.5	4.00	42.98		231.5	<b>1121.5</b>	2730	326.50	4.00	122.26		448.76	<b>3178.76</b>
2010	1750.00	227.50	4.00	79.10	50.00	356.60	<b>2106.60</b>	1020	191.0	4.00	48.44	50	289.4	<b>1309.4</b>	3140	347.00	4.00	139.48	50	536.48	<b>3676.48</b>
2011	3590.00	319.50	4.00	156.38	50.00	525.88	<b>4115.88</b>	1020	191.0	4.00	48.44	50	289.4	<b>1309.4</b>	4080	394.00	4.00	178.96	50	622.96	<b>4702.96</b>
2012	3970.00	565.80	5.00	226.79	50.00	842.59	<b>4812.59</b>	1050	157.0	5.00	60.35	50	267.4	<b>1317.4</b>	4080	581.20	5.00	233.06	50	864.26	<b>4944.26</b>

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

**TABLE 6.8: 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%



# 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 2011-12, import of coal by India was 102.853 MT (Rs. 788375.80 Million) against the import of 68.918 MT (Rs. 415495.80 Million) registered in 2010-11. This shows an increase of 67.01% in quantity and 52.07% 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 2011-12		
Type of Coal	Quantity [MT]	Value [Rs. Million]
Coking	31.801	424692.3
Non-Coking	71.052	363683.5
<b>Total</b>	<b>102.85</b>	<b>788375.8</b>

It is observed that the share of coking coal in the total quantity was 30.92% which in value terms accounted for 53.87%.

7.4 Statement 7.2 depicts source country wise import of coal in India in 2011-12. It can be seen that Indonesia with 53.73% [55.26 MT] share has remained the leading supplier followed by Australia with 27.02% [27.79 MT] and South Africa 11.88% [12.22 MT]. These three countries together accounted for 92.63%

of the total import to India in 2011-12.

Statement 7.2: Source Country-Wise Import of Coal to India during 2011-12		
Country	Quantity [MT]	% Share
Indonesia	55.260	53.73
Australia	27.793	27.02
South Africa	12.217	11.88
USA	2.974	2.89
Russia	1.194	1.16
Others	3.414	3.32
<b>Total</b>	<b>102.852</b>	<b>100.00</b>

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 2011-12		
Country	Quantity [MT]	% Share
Australia	25.508	80.21
USA	2.684	8.44
South africa	1.029	3.23
New zealand	0.943	2.96
Others	1.637	5.15
<b>Total</b>	<b>31.801</b>	<b>100.00</b>

Statement 7.4 Source Country-Wise Import of Non-Coking Coal to India during 2011-12		
Country	Quantity [MT]	% Share
Indonesia	54.759	77.07
South africa	11.189	15.75
Australia	2.285	3.22
Russia	1.042	1.47
Others	1.777	2.50
<b>Total</b>	<b>71.052</b>	<b>100.00</b>

7.6 To comprehend the requirement of coal in real term in near future, the demand, production and import of coking coal as well as non-coking coal are given in the following statements.

Statement 7.5: Demand, Production and Import of Coking Coal in India in last five years [MT]			
Year	Demand*	Production	Import
2007-08	38.000	34.455	22.029
2008-09	44.000	33.809	21.080
2009-10	20.290	44.413	24.690
2010-11	50.510	49.547	19.484
2011-12	46.670	51.660	31.801

Statement 7.6: Demand, Production and Import of Non-Coking Coal in India in last five years [MT]			
Year	Demand*	Production	Import
2007-08	454.500	422.627	27.765
2008-09	506.000	457.948	37.923
2009-10	584.040	487.629	48.565
2010-11	605.800	483.147	49.434
2011-12	649.360	488.290	71.052

\*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 2011-12, the total export was 2.032 MT. Here, Bangladesh accounted for 59.81% of export followed by Nepal (33.58%) and Bhutan (5.56%).

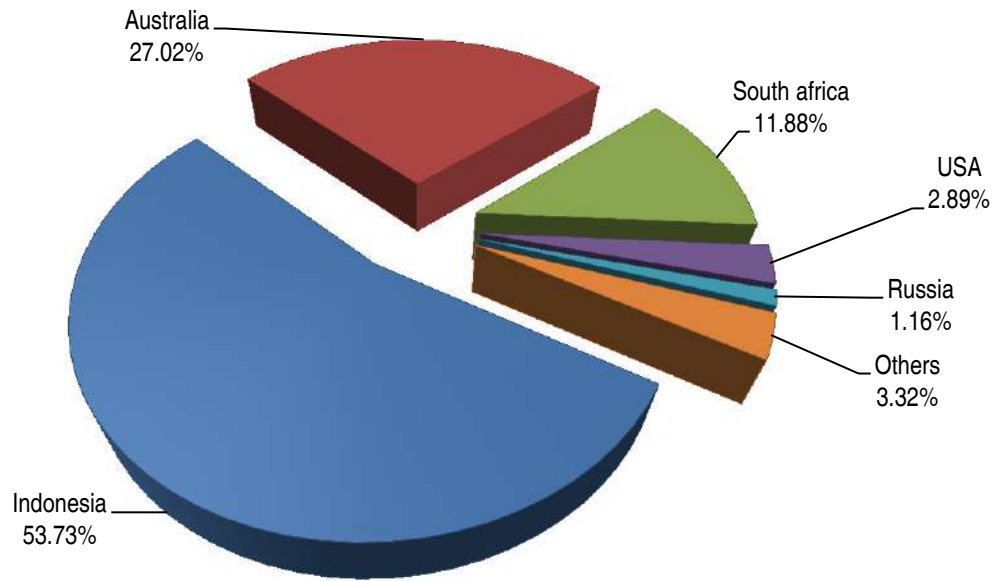
Statement 7.7: Export of Coal from India by destination during 2011-12		
Country	Quantity [MT]	% Share
Bangladesh PR	1.215	59.81
Nepal	0.682	33.58
Bhutan	0.113	5.56
United Arab Emeritus	0.002	0.08
Saudi Arab	0.001	0.06
Others	0.019	0.91
<b>Total</b>	<b>2.032</b>	<b>100.00</b>

The break-up of destination wise Export for coking and non-coking coal is given below:

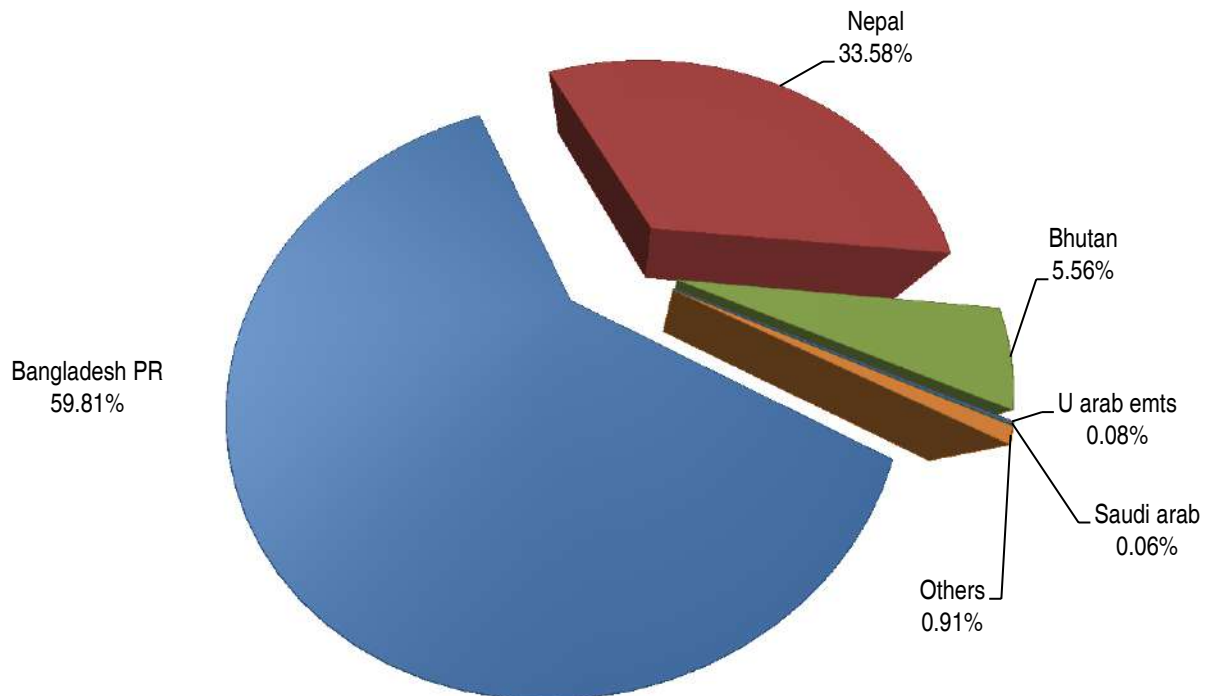
Statement 7.8: Export of Coking Coal from India by destination during 2011-12		
Country	Quantity [MT]	% Share
Bangladesh PR	0.069	70.75
Nepal	0.028	28.97
Others	0.000	0.285
<b>Total</b>	<b>0.097</b>	<b>100.00</b>

Statement 7.9: Export of Non-coking Coal from India by destination during 2011-12		
Country	Quantity [MT]	% Share
Bangladesh PR	1.215	59.80
Nepal	0.682	33.58
Bhutan	0.113	5.56
Others	0.022	1.06
<b>Total</b>	<b>2.032</b>	<b>100.00</b>

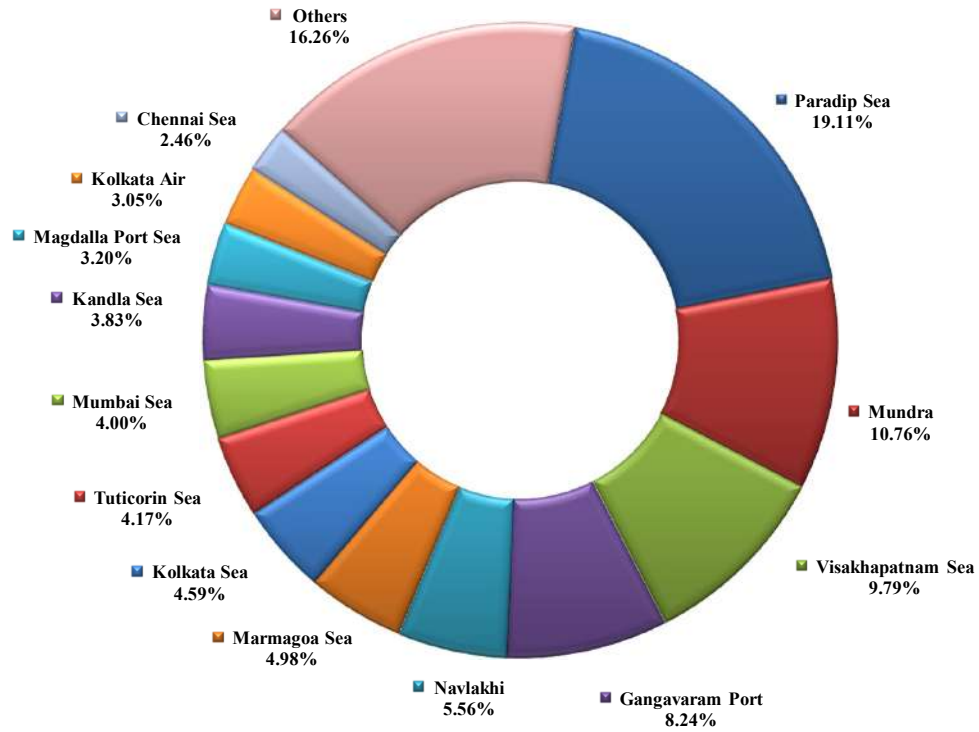
**Ch.7.1: SOURCE COUNTRY WISE IMPORT OF COAL IN 2011-12**



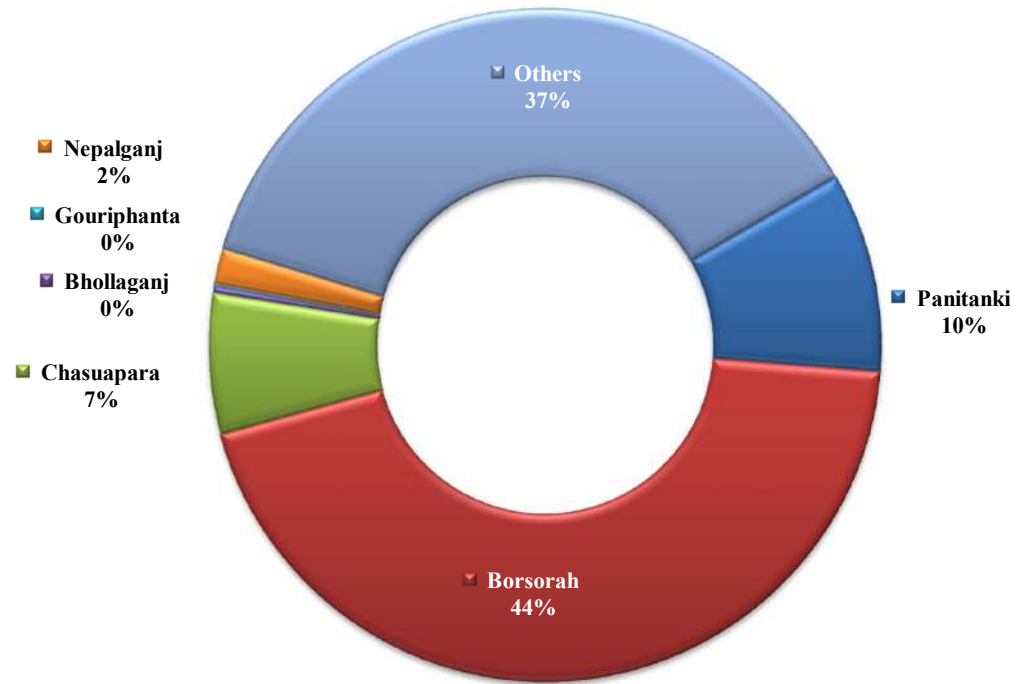
**Ch.7.2: DESTINATION COUNTRY WISE EXPORT OF COAL IN 2011-12**



**Ch. 7.3: PORT WISE IMPORT OF COAL IN 2011-12**



**Ch. 7.4: PORT WISE EXPORT OF COAL IN 2011-12**



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

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

Year	Coking Coal		Non-Coking Coal		Total Coal		Coke	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2002-03	12.947	33954	10.313	16325	<b>23.260</b>	<b>50279</b>	2.245	10121
2003-04	12.992	36702	8.691	13385	<b>21.683</b>	<b>50087</b>	1.894	14741
2004-05	16.925	72432	12.025	30228	<b>28.950</b>	<b>102660</b>	2.840	38018
2005-06	16.891	95373	21.695	53722	<b>38.586</b>	<b>149095</b>	2.619	22186
2006-07	17.877	101806	25.204	65080	<b>43.081</b>	<b>166886</b>	4.686	40211
2007-08	22.029	121025	27.765	86358	<b>49.794</b>	<b>207384</b>	4.248	51231
2008-09	21.080	226140	37.923	187268	<b>59.003</b>	<b>413408</b>	1.881	46051
2009-10	24.690	201311	48.565	190489	<b>73.255</b>	<b>391800</b>	2.355	33311
2010-11	19.484	208621	49.434	206875	<b>68.918</b>	<b>415496</b>	1.490	31204
2011-12	31.801	424692	71.052	363683	<b>102.853</b>	<b>788376</b>	2.365	47585

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

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

Year	Coking Coal		Non-Coking Coal		Total Coal		Coke	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2002-03	0.163	312	1.354	2274	<b>1.517</b>	<b>2586</b>	0.003	10
2003-04	0.158	252	1.469	2670	<b>1.627</b>	<b>2922</b>	0.197	100
2004-05	0.240	378	1.134	2040	<b>1.374</b>	<b>2418</b>	0.155	841
2005-06	0.046	88	1.943	2585	<b>1.989</b>	<b>2673</b>	0.157	790
2006-07	0.107	222	1.447	2915	<b>1.554</b>	<b>3137</b>	0.076	323
2007-08	0.036	84	1.591	2684	<b>1.627</b>	<b>2768</b>	0.097	987
2008-09	0.109	245	1.546	3240	<b>1.655</b>	<b>3485</b>	1.338	7246
2009-10	0.270	696	2.180	4347	<b>2.450</b>	<b>5042</b>	0.129	2080
2010-11	0.111	265	1.764	4544	<b>1.875</b>	<b>4809</b>	0.729	11647
2011-12	0.097	287	1.917	5525	<b>2.032</b>	<b>5900</b>	0.613	11525

**Note:**

Source: DGCI &amp; 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 and Coke to India during 2011-12**

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

Country	Coking Coal		Non-Coking Coal		Total Coal		Coke	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Indonesia	0.501	4822	54.759	253596	<b>55.260</b>	<b>258417</b>		
Australia	25.508	346343	2.285	19913	<b>27.793</b>	<b>366256</b>	0.208	3564
South africa	1.029	7369	11.189	69738	<b>12.217</b>	<b>77107</b>		
USA	2.684	38385	0.290	1360	<b>2.974</b>	<b>39746</b>	0.034	395
Russia	0.152	1930	1.042	7956	<b>1.194</b>	<b>9885</b>	0.300	4645
New zealand	0.943	12854	0.017	132	<b>0.960</b>	<b>12986</b>		
China PRP	0.265	3650	0.217	1290	<b>0.482</b>	<b>4939</b>	0.717	16895
Canada	0.230	3157	0.000	0	<b>0.230</b>	<b>3157</b>		
Austria	0.110	1041	0.066	364	<b>0.176</b>	<b>1405</b>		
U arab emts	0.025	315	0.045	501	<b>0.070</b>	<b>816</b>	0.005	53
Germany	0.034	523	0.015	172	<b>0.049</b>	<b>696</b>		
Ukraine			0.367	3579	<b>0.367</b>	<b>3579</b>	0.300	6506
Vietnam Soc Rep			0.063	1111	<b>0.063</b>	<b>1111</b>	0.016	320
Iran			0.066	442	<b>0.066</b>	<b>442</b>		
UK	0.002	36			<b>0.002</b>	<b>36</b>	0.035	659
Singapore	0.003	44			<b>0.003</b>	<b>44</b>	0.022	472
Others	0.316	4223	0.631	3529	<b>0.947</b>	<b>7753</b>	0.728	14075
<b>Total</b>	<b>31.801</b>	<b>424692</b>	<b>71.052</b>	<b>363683</b>	<b>102.853</b>	<b>788376</b>	<b>2.365</b>	<b>47585</b>

**Table 7.4 : Destination Country- wise Export of Coal and Coke to India during 2011-12**

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

Country	Coking Coal		Non-Coking Coal		Total Coal		Coke	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Bangladesh PR	0.069	179	1.146	2913	<b>1.215</b>	<b>3092</b>		
Nepal	0.028	107	0.654	2257	<b>0.682</b>	<b>2363</b>	0.041	124
Bhutan			0.113	329	<b>0.113</b>	<b>329</b>	0.031	304
U arab emts			0.002	9	<b>0.002</b>	<b>9</b>	0.016	88
Saudi arab			0.001	8	<b>0.001</b>	<b>8</b>	0.000	11
U S A			0.001	4	<b>0.001</b>	<b>4</b>		
Egypt			0.000	2	<b>0.000</b>	<b>2</b>		
Lebanon			0.000	2	<b>0.000</b>	<b>2</b>		
Zambia			0.000	1	<b>0.000</b>	<b>1</b>		
Malaysia			0.000	1	<b>0.000</b>	<b>1</b>	0.034	570
Pakistan ir			0.000	0	<b>0.000</b>	<b>0</b>	0.025	631
China PRP	0.000	1	0.000	0	<b>0.000</b>	<b>1</b>		
Brazil					<b>0.000</b>	<b>0</b>	0.369	7738
Iran					<b>0.000</b>	<b>0</b>	0.080	1678
Others	0.000	0	0.000	0	<b>0.017</b>	<b>88</b>	0.017	381
<b>Total</b>	<b>0.097</b>	<b>287</b>	<b>1.917</b>	<b>5525</b>	<b>2.032</b>	<b>5900</b>	<b>0.613</b>	<b>11525</b>

**Table 7.5 : Port Wise Import of Coal & Coke to India during 2011-12**

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

PORT	Coking Coal		Non-Coking Coal		Total Coal		Coke	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Paradip Sea	8.039	111876	11.616	70754	<b>19.655</b>	<b>182630</b>	0.577	11117
Mundra	1.595	18977	9.473	49522	<b>11.068</b>	<b>68498</b>		
Visakhapatnam Sea	5.616	81260	4.457	20234	<b>10.073</b>	<b>101494</b>	0.183	4066
Gangavaram Port	3.853	55386	4.620	23753	<b>8.473</b>	<b>79138</b>		
Navlakhi	0.043	264	5.676	25931	<b>5.718</b>	<b>26194</b>		
Marmagoa Sea	5.125	60603			<b>5.125</b>	<b>60603</b>	0.183	4059
Kolkata Sea	4.722	65547			<b>4.722</b>	<b>65547</b>	0.201	4019
Tuticorin Sea			4.290	19396	<b>4.290</b>	<b>19396</b>		
Mumbai Sea			4.111	20471	<b>4.111</b>	<b>20471</b>		
Kandla Sea	0.399	5570	3.538	14068	<b>3.936</b>	<b>19639</b>		
Magdalla Port Sea	0.255	2907	3.034	12869	<b>3.289</b>	<b>15777</b>	0.971	18534
Kolkata Air	0.000	0	3.140	22185	<b>3.140</b>	<b>22185</b>		
Chennai Sea	0.261	3078	2.270	10377	<b>2.531</b>	<b>13454</b>	0.046	1138
Newmangalore Sea	0.609	5804			<b>0.609</b>	<b>5804</b>		
Bedi Sea	0.483	3970			<b>0.483</b>	<b>3970</b>		
Karikal	0.480	5568			<b>0.480</b>	<b>5568</b>		
Surat	0.068	837	0.051	158	<b>0.119</b>	<b>995</b>	0.172	3986
Apiic SEZ Visakhapatnam			0.012	96	<b>0.012</b>	<b>96</b>	0.010	179
Appiic Multi Prod SEZ Vizag DC			0.012	96			0.010	179
Others	0.252	3046	14.752	73775	<b>15.016</b>	<b>76916</b>	0.012	306
<b>Total</b>	<b>31.801</b>	<b>424692</b>	<b>71.052</b>	<b>363683</b>	<b>102.853</b>	<b>788376</b>	<b>2.365</b>	<b>47585</b>

**Table 7.6 : Port Wise Export of Coal & Coke to India during 2011-12**

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

PORT	Coking Coal		Non-Coking Coal		Total Coal		Coke	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Dawki	0.027	65	0.348	915	<b>0.375</b>	<b>980</b>		
Panitanki	0.025	95	0.170	781	<b>0.195</b>	<b>876</b>	0.000	1
Borsorah	0.019	43	0.885	2246	<b>0.904</b>	<b>2289</b>		
Chasuapara	0.017	55	0.120	313	<b>0.137</b>	<b>367</b>		
Bhollaganj	0.004	12	0.003	7	<b>0.007</b>	<b>19</b>		
Gouriphanta	0.001	3	0.001	4	<b>0.002</b>	<b>7</b>		
Nepalganj	0.001	4	0.034	72	<b>0.035</b>	<b>76</b>	0.000	1
Karimganj Steamerghat	0.001	2			<b>0.001</b>	<b>2</b>		
Nautanwa (Sonauli)	0.001	3	0.111	458	<b>0.112</b>	<b>461</b>	0.008	42
Kotwaligate (Mohedipur)	0.001	1			<b>0.001</b>	<b>1</b>		
Falta Epz	0.000	1	0.037	166	<b>0.037</b>	<b>167</b>		
Jaigaon			0.113	329	<b>0.113</b>	<b>329</b>	0.058	363
Sutarkandi			0.042	112	<b>0.042</b>	<b>112</b>		
Dalu			0.035	93	<b>0.035</b>	<b>93</b>		
Mundra					<b>0.000</b>	<b>0</b>	0.315	6630
Kandla Sea					<b>0.000</b>	<b>0</b>	0.204	4254
Sez Jamnagar (Reliance)					<b>0.000</b>	<b>0</b>	0.016	88
Others	0.001	2	0.017	30	<b>0.036</b>	<b>120</b>	0.011	147
<b>Total</b>	<b>0.097</b>	<b>287</b>	<b>1.917</b>	<b>5525</b>	<b>2.032</b>	<b>5900</b>	<b>0.613</b>	<b>11525</b>

# 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 2011-12 the consumption of indigenous coking coal was 6.489 MT and that of imported coking coal was 15.805 MT. The corresponding figures for 2010-11 were 6.780 MT and 16.312 MT. In 2011-12, in case of indigenous coking coal used by integrated steel plants, SAIL accounted for the consumption of 3.075 MT followed by consumption of 2.907 MT by TISCO. The remaining 0.507 MT was consumed by VSP. Similarly, in case of imported coking coal, SAIL, VSP and TISCO accounted for 9.819 MT, 3.503 MT and 2.483 MT respectively.

8.1.7 Table 8.2 provides data on trend of consumption of coking coal by type. It also provides hot metal production, blend ratio and other details for last five years. Readers are advised to go through the data for further details.

### 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 2011-12. 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 with production of 6.547 MT, 6.955 MT and 6.444 MT of washed coal in 2009-10, 2010-11 and 2011-12 respectively. The corresponding yield percentage was 44.2%, 46.2% and 46.6% 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 install power generating capacity at all India level since 6<sup>th</sup> plan. It can be seen that the total power generation capacity has jump from 42585 MW (1985) to 236387 MW (2012). Out of 236387 MW, the power utilities share was 199877 MW in which the share of thermal power, hydro power, renewable energy sources and nuclear power was 131603 MW, 38990 MW and 24504 MW and 4780 MW respectively. The share of non-utilities in the total has been 15.45% (2011-12).

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 2011-12 was 1051376 kWh. The share of utilities was 87.8% and that of non-utility was 12.2%.

### 8.4 Cement

8.4.1 Table 8.10 provides details of consumption of coal and fuel in cement sector for the period 1994-95 to 2011-12. It is observed that in 2011-12 the total consumption of coal in the form of coal kilns, lignite and pet coke in the cement sector was 19.09 MT. The total cement production against

the above consumption was 180.01 MT indicating fuel cement ratio of 10.88. In 2011-12, the total receipt of coal including imported coal was 24.35 MT and captive power plant in cement industry accounted for the consumption of 8.71 MT of coal. The fuel clinker ratio in the sector was observed to be 14.28.

8.4.2 Table 8.9 provides further details on cement and clinker capacity, production and capacity utilization in the country state wise for the year 2011-12. It also provides details at all India level for the period 1996-97 to 2011-12. In the year 2011-12, highest production (34.10 MT) of cement has been reported by Rajasthan. This has been 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 and the capacity utilization has been fluctuating between 75% (2011-12) and 94% (2006-07 and 2007-08).

### 8.5 Some Key indicators for 2011-12

Some Key indicators for 2011-12	
Installed Capacity of Coal Based Power Plants (Utilities+ Non-Utilities) as on 31.03.2012	112022 MW
Electricity generation in 2011-12	759407 Mn kWh
Installed capacity of Cement Plants as on 2010-11	244.05 MT
Cement Production in 2011-12	180 MT
Installed capacity of Coking Coal Washeries	32.80 MT
Washed (Coking) Coal Production	6.444 MT

**TABLE - 8.1: STOCK, RECEIPT & CONSUMPTION OF INDIGENOUS & IMPORTED COKING COAL IN INTEGRATED STEEL P ('000' Tonnes)**

PLANT	ITEM	2011-12						2010-11					
		INDIGENOUS			IMPORTED	TOTAL	Boiler	INDIGENOUS			IMPORTED	TOTAL	Boiler
		Prime	Medium	Total		COKING	Coal	Prime	Medium	Total		COKING	Coal
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
BHILAI (B.S.P.)	Opn. Stock	12	24	36	65	101	40	54	26	80	160	240	76
	Receipt	404	431	835	3395	4230	853	558	432	990	3866	4856	712
	Consumption	433	492	925	3428	4353	777	704	450	1154	4133	5287	734
	Cls. Stock	39	14	53	110	163	70	12	24	36	65	101	40
ROURKELA (R.S.P.)	Opn. Stock	4	18	22	25	47	95	28	13	41	41	82	104
	Receipt	444	111	555	1747	2302	1364	410	145	555	1666	2221	1517
	Consumption	423	126	549	1712	2261	1265	435	144	579	1674	2253	1533
	Cls. Stock	26	10	36	37	73	89	4	18	22	25	47	95
DURGAPUR (D.S.P.)	Opn. Stock	0	13	13	32	45	37	39	13	52	44	96	44
	Receipt	244	174	418	1383	1801	944	265	206	471	1464	1935	862
	Consumption	217	191	408	1364	1772	863	307	207	514	1444	1958	832
	Cls. Stock	10	8	18	48	66	28	0	13	13	32	45	37
BOKARO (B.S.L.)	Opn. Stock	5	16	21	77	98	66	29	13	42	99	141	36
	Receipt	358	237	595	2409	3004	1513	469	382	851	2584	3435	1491
	Consumption	378	341	719	2534	3253	1381	475	342	817	2661	3478	1435
	Cls. Stock	30	4	34	27	61	130	5	16	21	77	98	66
I.S.P.	Opn. Stock	4	10	14	11	25	6	11	4	15	4	19	9
	Receipt	348	81	429	739	1168	169	524	25	549	559	1108	193
	Consumption	377	97	474	781	1255	159	495	92	587	550	1137	190
	Cls. Stock	12	2	14	7	21	7	4	10	14	11	25	6
SAIL TOTAL	Opn. Stock	25	81	106	210	316	244	161	69	230	348	578	269
	Receipt	1798	1034	2832	9673	12505	4843	2226	1190	3416	10139	13555	4775
	Consumption	1828	1247	3075	9819	12894	4445	2416	1235	3651	10462	14113	4724
	Cls. Stock	117	38	155	229	384	324	25	81	106	210	316	244
T.I.S.CO.	Opn. Stock	52	136	188	384	572	N.A.	69	104	173	471	644	N.A.
	Receipt	815	2038	2853	2469	5322	N.A.	830	1954	2784	2462	5246	N.A.
	Consumption	830	2077	2907	2483	5390	N.A.	847	1921	2768	2406	5174	N.A.
	Cls. Stock	38	97	135	370	505	N.A.	52	136	188	526	714	N.A.
V.S.P.	Opn. Stock	0	80	80	196	276	71	0	61	61	125	186	132
	Receipt	0	485	485	3505	3990	1340	0	377	377	3511	3888	1389
	Consumption	0	507	507	3503	4010	1348	0	361	361	3444	3805	1452
	Cls. Stock	0	58	58	198	256	63	0	77	77	193	270	69
<b>GRAND TOTAL</b>	<b>Opn. Stock</b>	<b>77</b>	<b>297</b>	<b>374</b>	<b>790</b>	<b>1164</b>	<b>315</b>	<b>230</b>	<b>234</b>	<b>464</b>	<b>944</b>	<b>1408</b>	<b>401</b>
	<b>Receipt</b>	<b>2613</b>	<b>3557</b>	<b>6170</b>	<b>15647</b>	<b>21817</b>	<b>6183</b>	<b>3056</b>	<b>3521</b>	<b>6577</b>	<b>16112</b>	<b>22689</b>	<b>6164</b>
	<b>Consumption</b>	<b>2658</b>	<b>3831</b>	<b>6489</b>	<b>15805</b>	<b>22294</b>	<b>5793</b>	<b>3263</b>	<b>3517</b>	<b>6780</b>	<b>16312</b>	<b>23092</b>	<b>6176</b>
	<b>Cls. Stock</b>	<b>155</b>	<b>193</b>	<b>348</b>	<b>797</b>	<b>1145</b>	<b>387</b>	<b>77</b>	<b>294</b>	<b>371</b>	<b>929</b>	<b>1300</b>	<b>313</b>

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

(Figs. 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)
BSP	2007-08	403	8.0	693	13.8	0	0.0	3939	78.2	5035	100.0	5269
	2008-09	481	9.4	664	13.0	0	0.0	3981	77.7	5126	100.0	5387
	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
BSL	2007-08	626	16.2	544	14.1	0	0.0	2693	69.7	3863	100.0	4658
	2008-09	406	11.3	407	11.3	0	0.0	2794	77.5	3607	100.0	4021
	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
DSP	2007-08	328	16.9	321	16.6	0	0.0	1288	66.5	1937	100.0	2186
	2008-09	225	11.8	310	16.2	0	0.0	1376	72.0	1911	100.0	2110
	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
Rourkela	2007-08	317	16.1	305	15.5	0	0.0	1349	68.4	1971	100.0	2230
	2008-09	278	13.3	254	12.2	0	0.0	1557	74.5	2089	100.0	2201
	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
ISP	2007-08	556	47.0	110	9.3	0	0.0	516	43.7	1182	100.0	641
	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
	2010-11	377	30.0	97	7.7	0	0.0	781	62.2	1255	100.0	451
DPL	2007-08	0	0.0	47	14.7	0	0.0	273	85.3	320	100.0	641
	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
VSP(RINL)	2007-08	0	0.0	490	16.4	0	0.0	2490	83.6	2980	100.0	3913
Visakhapatnam	2008-09	196	6.4	447	14.7	0	0.0	2406	78.9	3049	100.0	3546
	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
TISCO	2007-08	446	15.0	1695	57.1	0	0.0	830	27.9	2971	100.0	5374
Jamshedpur	2008-09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	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

**TABLE 8.3: COKING COAL WASHERIES IN INDIA DURING 2011-12**

Sector	Owner Company	Name of Washery	Year of Commissioning	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
		<b>TOTAL</b>					<b>14.55</b>
	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
		<b>TOTAL</b>					<b>9.35</b>
Western Coalfields Ltd.	Nandan(WCL)	1985	Md. Ckg.	M.P.	Pench-Kanhan	1.20	
All Coal India Ltd.						<b>25.10</b>	
Steel Authority of India Ltd.	Chasnala	1968/90	Coking	Jharkhand		2.04	
<b>Total Public</b>						<b>27.14</b>	
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
							<b>5.66</b>
<b>Total Private</b>						<b>5.66</b>	
<b>Grand Total</b>						<b>32.80</b>	

**TABLE 8.4: COKING COAL WASHERY PERFORMANCE IN LAST THREE YEARS**

(Figs. in Thousand Tonnes)

Year	Owner Company	Raw Coal Feed	Washed Coal	Yield (%)
			Prod.	Washed Coal
(1)	(2)	(3)	(4)	(5)
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
	<b>Total Public</b>	<b>7210.2</b>	<b>3230</b>	<b>44.8</b>
	TSL (Private)	6617.4	3214	48.6
	<b>Total Private</b>	<b>6617.4</b>	<b>3214</b>	<b>48.6</b>
	<b>Grand Total</b>	<b>13827.6</b>	<b>6444.0</b>	<b>46.6</b>
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
	<b>Total Public</b>	<b>8017.6</b>	<b>3785</b>	<b>47.2</b>
	TSL (Private)	7052	3170	45.0
	<b>Total Private</b>	<b>7052</b>	<b>3170</b>	<b>45.0</b>
	<b>Grand Total</b>	<b>15069.6</b>	<b>6955</b>	<b>46.2</b>
2009-10	BCCL	3292.0	1329.0	40.4
	CCL	3059.0	1396.0	45.6
	WCL	501.0	248.0	49.5
	Total CIL	6852.0	2973.0	43.4
	SAIL	1003.0	526.0	52.4
	<b>Total Public</b>	<b>7855.0</b>	<b>3499.0</b>	<b>44.5</b>
	TSL (Private)	6961.0	3048.0	43.8
	<b>Total Private</b>	<b>6961.0</b>	<b>3048.0</b>	<b>43.8</b>
	<b>Grand Total</b>	<b>14816.0</b>	<b>6547.0</b>	<b>44.2</b>

**TABLE 8.5: NON COKING COAL WASHERY OWNED BY COLLIRIES IN INDIA DURING 2011-12**

Sector	Owner Company	Name of Washery	Year of Commissioning	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 (mod)	Non-Ckg	Jharkhand	Jharia	0.48	
		Madhuban	1998	Non-Ckg	Jharkhand	Jharia	2.50	
								<b>3.98</b>
	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	
								<b>11.72</b>
	Northern Coalfields Ltd.	Bina Deshelling Plant	1976-77	Non-Coking	U.P.	Bina	4.50	
	<b>All Coal India Ltd.</b>							<b>20.20</b>
<b>Total Public</b>				Non-Coking			<b>20.20</b>	
Private	Jindal Steel & Power Ltd.	Pit Head Washery	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		Non-Coking	Chhatisgarh	Korba	6.00	
		DIPKA		Non-Coking	Chhatisgarh	Korba	12.00	
		PANDER PAUNI		Non-Coking	Maharashtra	Bollarpur	3.00	
		GEVRA		Non-Coking	Chhatisgarh	Korba	5.00	
		BINJHRI		Non-Coking	Chhatisgarh	Korba	0.96	
		ARYAN ENERGY PVT LTD	INDARAM		Non-Coking	A.P.	Ramagundam	0.60
	BHATIA INTERNATIONAL LIMITED	TALCHER		Non-Coking	Orissa	Talcher	2.00	
		WANI		Non-Coking	Maharashtra	Wardha	2.00	
		GHUGUS		Non-Coking	Maharashtra	Wardha	4.00	
	GLOBAL COAL & MINING PVT. LTD	IB VALLEY		Non-Coking	Orissa	lb valley	1.50	
		RAMAGUNDAM		Non-Coking	A.P.	Ramagundam	1.00	
		TALCHER		Non-Coking	Orissa	Talcher	2.50	
		GUPTA COAL FIELD & WASHERIES LTD.	SASTI		Non-Coking	Maharashtra	Wardha	2.40
	GUPTA COAL FIELD & WASHERIES LTD.	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 PVT LTD	WANI		Non-Coking	Maharashtra	Wardha	13.00
		SPECTRUM COAL & POWER LTD (ST-CL)	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 & MINERAL DIVISION	Karwahi Coal Washery Divn.		Non-Coking	Chhatisgarh	Raigarh	0.96		
EARTH MINERAL CO. LTD.	Jharsuguda	2008	Non-Coking	Orissa	Talcher	4.00		
<b>Total Private</b>							<b>89.37</b>	
<b>Grand Total</b>							<b>109.57</b>	

**TABLE 8.6: PERFORMANCE OF NON COKING COAL WASHERY OWNED BY COLLIERIES IN INDIA FOR LAST THREE FINANCIAL YEARS (Figs. in Th. Tonnes)**

Year	Company	Raw Coal Feed	Production	Yield (%)
(1)	(2)	(3)	(4)	(5)
2011-12	BCCL *	170.00	138.00	81.18
	CCL	8603.00	8555.00	99.44
	NCL	4069.00	3664.00	90.05
	<b>Total CIL</b>	<b>12672.00</b>	<b>12357.00</b>	<b>97.51</b>
	<b>Total Public</b>	<b>12672.00</b>	<b>12357.00</b>	<b>97.51</b>
	BLA Industries Pvt. Ltd.	306.00	277.80	90.78
	Aryan Coal beneficiation 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. Ltd.	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
	<b>Total Private</b>	<b>24937.70</b>	<b>19049.50</b>	<b>76.39</b>
	<b>Grand Total</b>	<b>37609.70</b>	<b>31406.50</b>	<b>83.51</b>
	2010-11	BCCL *	317.0	314
CCL		9172.0	8063	87.9
NCL		3589.0	3339	93.0
Total CIL		13078	11716	89.6
<b>Total Public</b>		<b>13078</b>	<b>11716</b>	<b>89.6</b>
JSPL		5775	1927	33.4
BLA Industries Pvt. Ltd.		297	256	86.2
Aryan Coal beneficiation 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. Ltd.		1050	900	85.7
Earth Minerals Company Ltd		152.4	117.7	77.2
<b>Total Private</b>		<b>32439</b>	<b>22761.7</b>	<b>70.2</b>
<b>Grand Total</b>		<b>45517</b>	<b>34477.7</b>	<b>75.7</b>
2009-10	BCCL *	446.0	301.0	67.5
	CCL	8684.0	7424.0	85.5
	NCL	3931.0	3522.0	89.6
	Total CIL	13061.0	11247.0	86.1
	<b>Total Public</b>	<b>13061.0</b>	<b>11247.0</b>	<b>86.1</b>
	JSPL	5314.7	1766.4	33.2
	BLA Industries Pvt. Ltd.	299.6	293.6	98.0
	Aryan Coal beneficiation Pvt. Ltd.	19162.5	14959.6	78.1
	Aryan energy Pvt. Ltd.	101.4	61.0	60.2
	Bhatia Internationa Ltd.	2124.2	2467.0	116.1
	Global Coal & Mining Pvt. Ltd.	3132.5	2239.7	71.5
	Kartikay Coal Washeries Pvt. Ltd.	924.7	782.3	84.6
	Spectrum Coal & Power Ltd.	6495.0	5145.2	79.2
	Earth Minerals Company Ltd	80.2	67.1	83.6
	<b>Total Private</b>	<b>37634.8</b>	<b>27781.7</b>	<b>73.8</b>
<b>Grand Total</b>	<b>50695.8</b>	<b>39028.7</b>	<b>77.0</b>	

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 6<sup>TH</sup> 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 6 <sup>th</sup> Plans(31.03.1985)	14460	26311	542	177	<b>27030</b>	1095	0	<b>42585</b>
End of 7 <sup>th</sup> Plan (31.03.1990)	18308	41237	2343	165	<b>43746</b>	1565	18	<b>63636</b>
End of 2 Annual Plans(31.03.92)	19194	44791	3095	168	<b>48054</b>	1785	32	<b>69065</b>
End of 8 <sup>th</sup> Plan (31.03.97)	21658	54154	6562	294	<b>61010</b>	2225	902	<b>85795</b>
End of 9 <sup>th</sup> Plan (31.03.2002)	26269	62131	11163	1135	<b>74429</b>	2720	1628	<b>105046</b>
31.03.2003 (Utilities only)	26767	63951	11633	1178	<b>76762</b>	2720	1628	<b>107877</b>
31.03.2004 (Utilities only)	29507	64956	11840	1173	<b>77969</b>	2720	2488	<b>112684</b>
31.03.2005 (Utilities only)	30942	67791	11910	1202	<b>80902</b>	2770	3811	<b>118426</b>
31.03.2006 (Utilities only)	32326	68519	12690	1202	<b>82411</b>	3360	6191	<b>124287</b>
End of 10 <sup>th</sup> Plan (31.03.2007)	34654	71121	13692	1202	<b>86015</b>	3900	7761	<b>132329</b>
31.03.2009 (Utilities+Non-Utilities)	36989	91466	18497	9950	<b>119913</b>	4120	13617	<b>174639</b>
Utilities	36878	77649	14876	1200	<b>93725</b>	4120	13242	<b>147965</b>
Non-Utilities	111	13817	3621	8750	<b>26188</b>	0	375	<b>26674</b>
31.03.2010 (Utilities+Non-Utilities)	36918	101381	21424	10657	<b>133462</b>	4560	15975	<b>190915</b>
Utilities	36863	84198	17056	1200	<b>102454</b>	4560	15521	<b>159398</b>
Non-Utilities	55	17183	4368	9457	<b>31008</b>	0	454	<b>31517</b>
<b>31.03.2011 (Utilities+Non-Utilities)</b>	37624	113030	22760	10855	<b>146645</b>	4780	19021	<b>208070</b>
Utilities	37567	93918	17706	1200	<b>112824</b>	4780	18455	<b>173626</b>
Non-Utilities	57	19112	5054	9655	<b>33821</b>	0	566	<b>34444</b>
<b>31.03.2012 (Utilities+Non-Utilities)</b>	(bifurcation not available)							<b>236387</b>
Utilities	<b>38990</b>	<b>112022</b>	<b>18381</b>	<b>1200</b>	<b>131603</b>	<b>4780</b>	<b>24504</b>	<b>199877</b>
Non-Utilities	(bifurcation not available)							<b>36510</b>

Note:

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

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



**Table 8.8: Electricity Gross Generation 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)
2003-04	Utilities	75242	407284	57928	6867	<b>472079</b>	17780	<b>565101</b>
	Non Utilities	97	39610	14874	13591	<b>68075</b>		<b>68172</b>
	<b>Total</b>	<b>75339</b>	<b>446894</b>	<b>72802</b>	<b>20458</b>	<b>540154</b>	<b>17780</b>	<b>633273</b>
2004-05	Utilities	84610	424244	61525	7066	<b>492835</b>	17011	<b>594456</b>
	Non Utilities	113	44017	15052	12235	<b>71304</b>		<b>71417</b>
	<b>Total</b>	<b>84723</b>	<b>468261</b>	<b>76577</b>	<b>19301</b>	<b>564139</b>	<b>17011</b>	<b>665873</b>
2005-06	Utilities	101494	435494	60802	8706	<b>505002</b>	17324	<b>623820</b>
	Non Utilities	236	46265	14665	12473	<b>73403</b>		<b>73639</b>
	<b>Total</b>	<b>101730</b>	<b>481759</b>	<b>75467</b>	<b>21179</b>	<b>578405</b>	<b>17324</b>	<b>697459</b>
2006-07	Utilities	113502	461794	64157	12399	<b>538350</b>	18802	<b>670654</b>
	Non Utilities	218	56184	15207	10191	<b>81582</b>		<b>81800</b>
	<b>Total</b>	<b>113720</b>	<b>517978</b>	<b>79364</b>	<b>22590</b>	<b>619932</b>	<b>18802</b>	<b>752454</b>
2007-08	Utilities	120387	486998	69716	28567	<b>585281</b>	16957	<b>722625</b>
	Non Utilities	202	53569	25585	11121	<b>90275</b>	0	<b>90477</b>
	<b>Total</b>	<b>120589</b>	<b>540567</b>	<b>95301</b>	<b>39688</b>	<b>675556</b>	<b>16957</b>	<b>813102</b>
2008-09	Utilities	110099	511895	71597	32649	<b>616141</b>	14927	<b>741167</b>
	Non Utilities	146	73626	15306	10643	<b>99575</b>	0	<b>99721</b>
	<b>Total</b>	<b>110245</b>	<b>585521</b>	<b>86903</b>	<b>43292</b>	<b>715716</b>	<b>14927</b>	<b>840888</b>
2009-10	Utilities	104060	539587	96373	41195	<b>677155</b>	0	<b>781215</b>
	Non Utilities	152	77416	19739	8826	<b>105981</b>	0	<b>106133</b>
	<b>Total</b>	<b>104212</b>	<b>617003</b>	<b>116112</b>	<b>50021</b>	<b>783136</b>	<b>0</b>	<b>887348</b>
2010-11	Utilities	114416	561298	100342	42426	<b>704066</b>	26266	<b>844748</b>
	Non Utilities	149	96657	15435	8676	<b>120768</b>	0	<b>120917</b>
	<b>Total</b>	<b>114565</b>	<b>657955</b>	<b>115777</b>	<b>51102</b>	<b>824834</b>	<b>26266</b>	<b>965665</b>
2011-12*	Utilities	130510	612497	93223	53687	<b>759407</b>	33287	<b>923204</b>
	Non Utilities #					<b>0</b>	0	<b>128172</b>
	<b>Total</b>	<b>130510</b>	<b>612497</b>	<b>93223</b>	<b>53687</b>	<b>759407</b>	<b>33287</b>	<b>1051376</b>

\* Provisional

# Bifurcation of non-utilities not available.

**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)
1996-97	All India	96.68	64.88	62.12	69.98	81
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
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
	Andhra Pradesh	47.25	28.80	24.50	29.75	63
	Assam	0.20	0.12	0.10	0.10	52
	Bihar	1.00	0.42	0.43	0.63	63
	Chhattisgarh	11.63	9.75	6.31	9.79	90
	Delhi	0.50	-	-	-	-
	Gujarat	18.72	13.60	12.45	14.43	77
	Haryana	2.97	-	1.33	1.93	69
	Himachal Pradesh	2.95	2.45	1.31	2.61	123
	Jammu & Kashmir	0.53	0.17	0.17	0.18	33
	Jharkhand	6.70	-	2.21	4.36	77
	Karnataka	14.32	9.02	7.68	9.57	68
	Kerala	0.62	0.36	0.38	0.53	85
	Madhya Pradesh	22.27	20.21	15.31	20.54	94
	Maharashtra	11.80	4.12	7.93	10.24	87
	Meghalaya	2.11	1.22	1.19	1.60	79
	Orissa	6.35	1.24	2.35	4.26	67
	Punjab	1.75	-	1.01	1.54	88
	Rajasthan	40.86	29.49	26.16	34.10	83
	Tamil Nadu	34.38	14.23	15.28	20.97	61
	Uttar Pradesh	9.33	2.03	4.35	7.02	77
	Uttarakhand	3.00	-	1.26	2.00	67
	West Bengal	4.80	-	2.44	3.86	80

Source : Cement Manufacturers' Association

**TABLE 8.10: CONSUMPTION OF COAL AND FUEL IN CEMENT SECTOR IN 2011-12**

(Quantities are in Million Tonnes)

Year	Coal Receipt				Pet coke / Lignite Purchase	Annual Fuel Procurement	Consumption					Annual Fuel Consumption	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)
1994-95	10.28	2.32	0.71	<b>13.31</b>	0.80	14.11						13.29	58.35		
1995-96	10.06	2.80	1.30	<b>14.16</b>	0.80	14.96						14.25	64.53		
1996-97	10.45	2.48	1.65	<b>14.58</b>	0.70	15.28						15.03	69.98		
1997-98	9.61	1.62	3.52	<b>14.75</b>	0.42	15.17						14.98	76.74		
1998-99	8.24	0.77	4.66	<b>13.67</b>	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	<b>15.68</b>	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	<b>14.93</b>	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	<b>15.33</b>	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	<b>16.78</b>	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	<b>17.55</b>	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	<b>19.74</b>	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	<b>19.76</b>	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	<b>22.33</b>	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	<b>25.64</b>	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	<b>27.43</b>	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	<b>22.10</b>	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	<b>25.42</b>	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	<b>24.35</b>	5.45	29.80	14.14	0.25	4.70	19.09	8.71	27.80	180.01	10.88	14.28

\* Members of Cement

\*\* 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 195 Coal Blocks and 27 Lignite Blocks have been allocated under this category (CCB) till 31.03.2012. Table 9.1 gives the details of allocation of these blocks. It can be seen that 86 coal blocks have been allocated to public sector undertaking and 109 coal blocks have been allocated to private companies. Out of 195 coal blocks the allocation to power sector is 80 (public 44; and private 36). Similarly the allocation to Iron and Steel sector is 69 (public 04; and private 65). 38 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 195 captive coal blocks are estimated to be 44802.9 MT (public 22193.7 MT; private 22609.2 MT). The allocation to power sector, iron and steel, commercial mining and others is 24275.9 MT, 10542.6 MT, 6701.9 MT and 3282.4 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, 20 coal blocks were allocated for captive use. The maximum number of coal blocks till date has been allocated in the year 2006 when 47 coal blocks were allocated to different concerns. This was followed by allocation of 45 coal blocks in the year 2007. Between 2003 to 2009, 173 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 2011. Chart 9.2 represents Progressive Allocation of

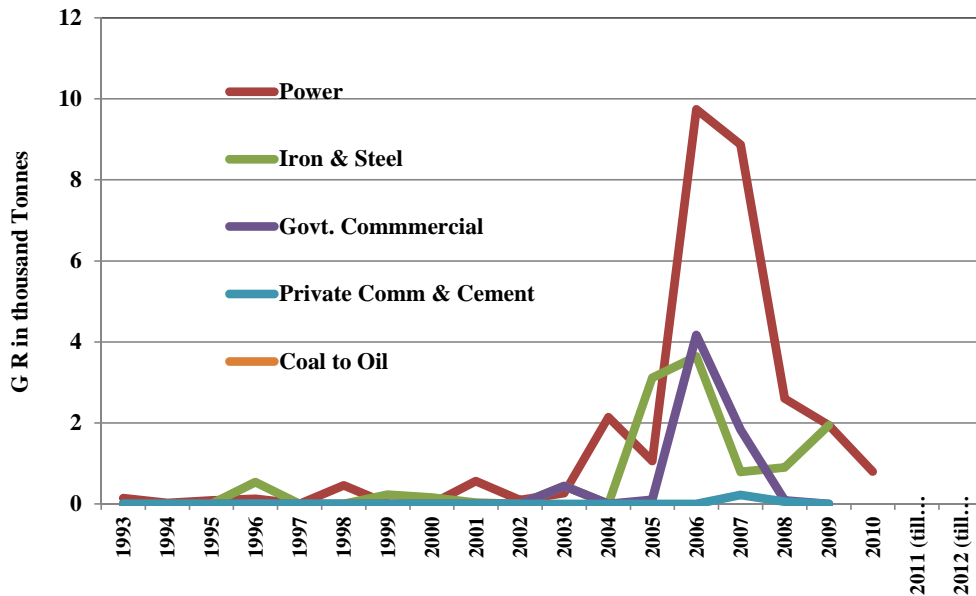
number of Coal Blocks sector-wise and year-wise from 1993 to 2011. Chart 9.3 shows Progressive Allocation of Geological Reserves (Coal Blocks) as on 31.03.2012 state wise. It is observed that the major allocation is in the period 2003-2009. As per Geological Reserve (GR), the maximum allocation has been done in the case of Odisha (36.31%) followed by Jharkhand (24.87%) and Chhattisgarh (20.29%).

9.4 Out of 195 coal blocks allocated for captive use till 31<sup>st</sup> March, 2012, 29 coal blocks (15 in power sectors, 11 in Iron and Steel, 01 in Govt. Commercial and 2 in private commercial) have started production and in the year 2011-12 total production from the captive coal blocks was reported to be 36.17 MT. The contribution of the coal blocks allocated to the power sector was 25.82 MT and that of Iron and Steel 9.83 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 11<sup>th</sup> five year plan.

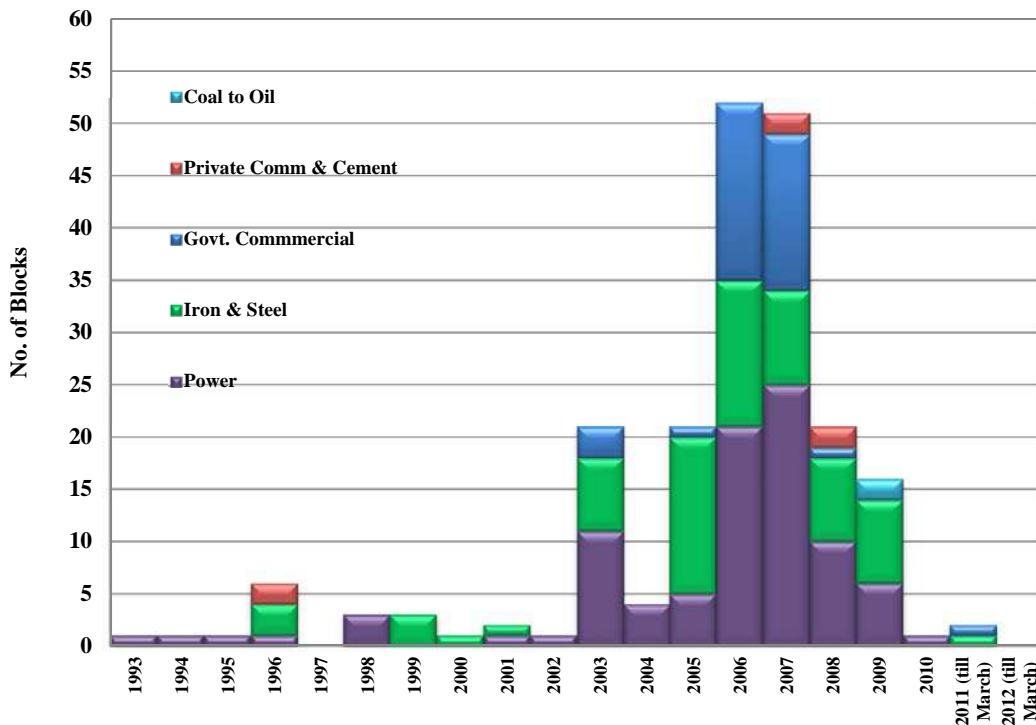
9.5 In the case of lignite, out of 27 lignite blocks, 21 (GR 1871.87 MT) were allocated to public sector units and 6 (GR 124.9 MT) were allocated to private sector. Out of 27 lignite blocks 15 were allocated to power sector and 12 were allocated for captive commercial use. From table 9.6 it can be seen that as on 31<sup>st</sup> March, 2012, 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. Readers are advised to go through these tables / charts for further details. It may be noted that till 31.03.2012, 218 Coal Blocks and 27 Lignite blocks were allotted but some of the blocks were later on de-allocated by the Ministry of Coal because the allocatees failed to adhere to the norms of timely development of the coal blocks for production of coal. These de-allocated blocks have been excluded from the consideration here.

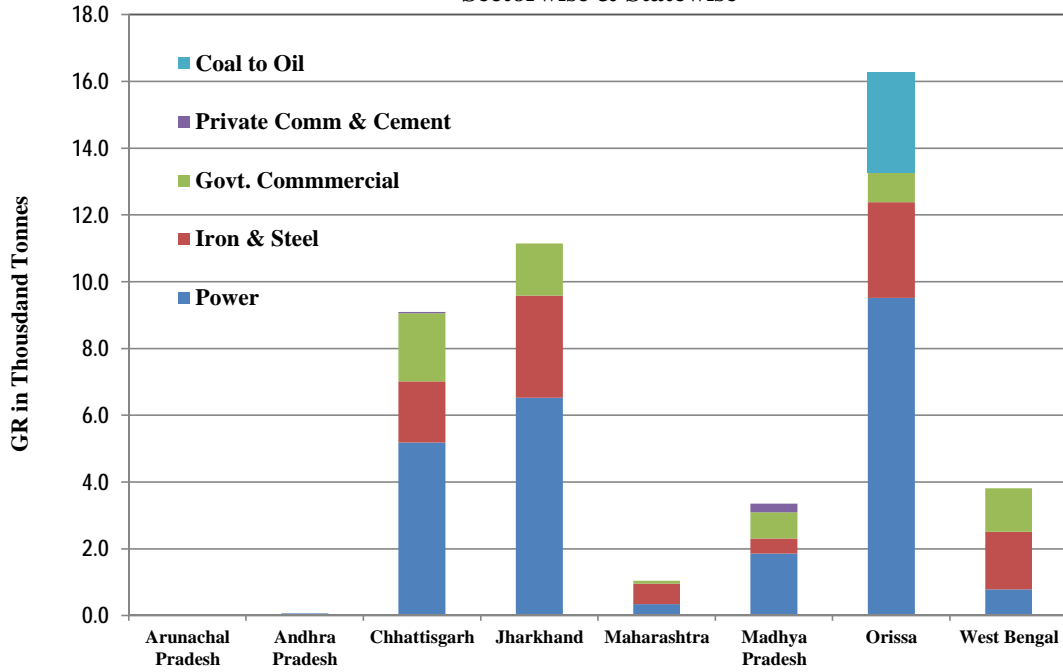
**Chart-9.1 : Progressive Allocation of Geological Reserve - Sectorwise & Yearwise**



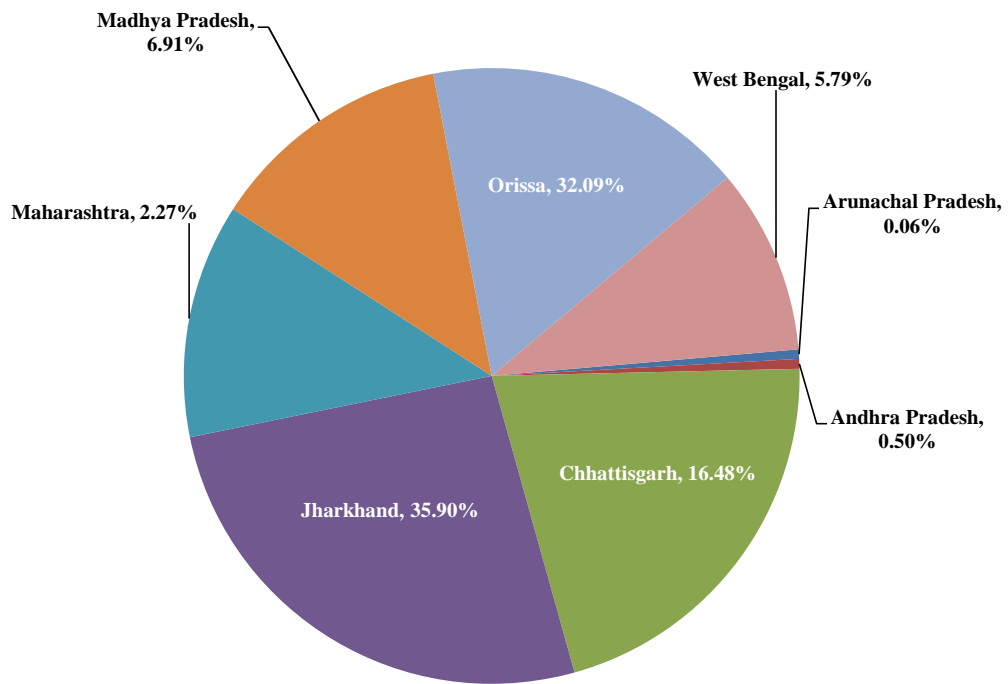
**Chart-9.2 : Progressive Allocation of blocks (No.) - Sectorwise & Yearwise**



**Chart-9.3 : Progressive Allocation of Geological Reserve as on 31/03/2012 - Sectorwise & Statewise**



**Chart 9.4: Distribution of allotted GR Statewise as on 31/03/2012**



**TABLE 9.1: SUMMARY OF ALLOCATION OF COAL & LIGNITE BLOCKS TILL 31/03/2012**

Sector	End Use	Mode of Allotment	No of blocks	Geological Reserves (MT)
(1)	(2)	(3)	(4)	(5)
<b>A. COAL BLOCKS</b>				
Public Sector Undertakings	Power	Govt. dispensation	20	11011.3
	Power	Captive dispensation	24	4012.0
		<b>Sub total</b>	<b>44</b>	<b>15023.3</b>
	Commercial Mining	Govt. dispensation	38	6692.6
	Iron & Steel	Govt. dispensation	2	84.0
	Iron & Steel	Captive dispensation	2	393.8
		<b>Sub total</b>	<b>4</b>	<b>477.8</b>
		<b>PSU Total</b>	<b>86</b>	<b>22193.7</b>
Private Companies	Power	Captive dispensation	29	6645.6
	Power	Ultra Mega Power Project	7	2607.0
		<b>Sub total</b>	<b>36</b>	<b>9252.6</b>
	Iron & Steel	Captive dispensation	65	10064.8
	Cement	Captive dispensation	4	282.4
	Small and Isolated Patch (Commercial Mining)	Captive dispensation	2	9.3
	Coal to Oil	Captive dispensation	2	3000.0
	<b>Pvt. Total</b>	<b>109</b>	<b>22609.2</b>	
ALL INDIA	Power		80	24275.9
	Iron & Steel		69	10542.6
	Cement		4	282.4
	Commercial Mining		40	6701.9
	Coal to Oil		2	3000.0
		<b>Grand Total</b>	<b>195</b>	<b>44802.9</b>
<b>B. LIGNITE BLOCKS</b>				
State PSU	Power	Govt. dispensation	9	1231.2
	Commercial	Govt. dispensation	12	640.6
	<b>Subtotal</b>		<b>21</b>	<b>1871.9</b>
Private	Power	Captive dispensation	6	<b>124.9</b>
ALL INDIA	Power		15	1356.1
	Commercial		12	640.6
	<b>Grand Total</b>		<b>27</b>	<b>1996.8</b>

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 2012, 25 coal blocks have been deallocated and 2 blocks have been re-allocated out of 25 deallocated coal blocks.

**Table 9.2: Yearwise and Sectorwise Allotment of Captive Coal Blocks (till 31.03.2012)**

GR in Mill. Tonnes.

Year of Allotment	Power		Iron & Steel		Govt. Commercial		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
(1)	(2)	(3)	(4)	(5)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
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	454.8	0	0.0	0	0.0	0	0.0			3	454.8
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	234.9	7	442.1	3	439.8	0	0.0			20	1116.9
2004	4	2143.5	0	0.0	0	0.0	0	0.0			4	2143.5
2005	5	1057.6	15	2013.5	1	103.2	0	0.0			21	3174.3
2006	16	6612.2	14	3640.4	17	4172.2	0	0.0			47	14424.8
2007	20	7740.7	8	782.5	15	1836.8	2	225.4			45	10585.5
2008	10	2596.0	8	686.4	1	84.0	2	57.1			21	3423.5
2009	5	1608.6	8	1940.6	0	0.0	0	0.0	2	3000.0	15	6549.2
2010	1	800.0	0		0		0		0		1	800.0
2011			1	78.4	1	56.7	0		0		2	135.1
2012*	0				0		0		0			
<b>Total</b>	<b>80</b>	<b>24275.9</b>	<b>69</b>	<b>10542.6</b>	<b>38</b>	<b>6692.7</b>	<b>6</b>	<b>291.8</b>	<b>2</b>	<b>3000.0</b>	<b>195</b>	<b>44802.9</b>

Note: \* Till March'2012 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 31.03.2012)**

GR in Mill. Tonnes.

State	Power		Iron & Steel		Govt. Commercial		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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
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	17	5185.4	14	1832.0	9	2036.4	1	36.2			41	9090.0
Jharkhand	19	6528.1	22	3057.0	10	1559.5	0	0.0			51	11144.5
Maharashtra	8	338.1	14	621.7	2	84.0					24	1043.8
Madhya Pradesh	5	1859.2	7	445.3	8	792.3	5	255.6			25	3352.4
Orissa	21	9517.7	8	2863.1	2	886.3	0	0.0	2	3000.0	33	16267.1
West Bengal	9	786.0	4	1723.6	6	1307.2	0	0.0			19	3816.7
<b>Total</b>	<b>80</b>	<b>24275.8</b>	<b>69</b>	<b>10542.6</b>	<b>38</b>	<b>6692.6</b>	<b>6</b>	<b>291.8</b>	<b>2</b>	<b>3000.0</b>	<b>195</b>	<b>44802.9</b>

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 / Achievement	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
<b>XI th Five Plan</b>											
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

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 31/03/2012**

Srl. No.	State	Date of Allocation	Name of Block	Name of Allocattee	No. of Blocks	Sector	GR while allotting	Remark
(1)	(2)	(3)	(4)	(5)	(6)	(6)	(7)	(8)
1	Andhra Pradesh	06.12.2005	Tadicherla	APGENCO	1	Power	61.28	
	<b>Andhra Pradesh</b>				<b>1</b>		<b>61.28</b>	
1	Arunachal Pradesh	28.10.2003	Namchi Namphuk	APMTDCL	1	Govt. Comm	27	Produced in 2011-12
	<b>Arunachal Pradesh</b>				<b>1</b>		<b>27</b>	
1	Chhattisgarh	21.06.1996	Gare Palma IV/5	Monnet Ispat & Energy Ltd.,	1	Iron & Steel	126	producing
2	Chhattisgarh	20.06.1996	GP IV/1	JSPL	1	Iron & Steel	124	producing
3-4	Chhattisgarh	01.07.1998	Gare Pelma IV/2&IV/3	Jindal Power Ltd.	2	Power	246	producing
5	Chhattisgarh	16.08.1999	Gare Palma IV/4	Jayaswal Neco Ltd.,	1	Iron & Steel	125	producing
6	Chhattisgarh	25.04.2000	Gare Palma IV/7	Rajpur alloys & Steel Ltd.,	1	Iron & Steel	156	producing
7	Chhattisgarh	04.09.2003	Chotia	Prakash Inds. Ltd.,	1	Iron & Steel	34.48	producing
8	Chhattisgarh	14.08.2003	Tara	Chhattisgarh Mineral Dev.Crop.Ltd.,	1	Govt. Comm	259.47	
9-10	Chhattisgarh	23.09.2004	Paturia & Gidimuri	CSEB	2	Power	349.52	
11	Chhattisgarh	13.01.2006	Gare Palma IV/6	JSPL & Nalwa Sponge Iron Ltd.	1	Iron & Steel	156	
12	Chhattisgarh	13.01.2006	Gare Palma IV/8	Jayaswal Neco Ltd.	1	Iron & Steel	107.2	
13	Chhattisgarh	02.08.2006	Gare Palma Sector I	CMDC	1	Govt. Comm	900	
14	Chhattisgarh	02.08.2006	Gare Palma Sector II	TSEB & MSMC Ltd.	1	Power	768	
15	Chhattisgarh	13.01.2006	Madanpur N	Ultratech Ltd. & Others	1	Iron & Steel	241.61	
16	Chhattisgarh	13.01.2006	Madanpur S	Hindusthan Zinc Ltd.,	1	Iron & Steel	175.65	
17	Chhattisgarh	02.08.2006	Morga I	MSMC Ltd.	1	Govt. Comm	250	
18	Chhattisgarh	02.08.2006	Morga II	GMDC	1	Govt. Comm	350	
19-20	Chhattisgarh	13.01.2006	Nakia I,II	Ispat Godavari Ltd. & Others	2	Iron & Steel	399	
21	Chhattisgarh	02.08.2006	Parsa	CSEB	1	Power	150	
22	Chhattisgarh	25.01.2006	Talaipali	NTPC Ltd.,	1	Power	965	
23	Chhattisgarh	06.11.2007	Durgapur II /Sariya	DB Power Ltd.	1	Power	91.67	
24	Chhattisgarh	06.11.2007	Durgapur-II/ Taraimar	BALCO	1	Power	211.37	
25	Chhattisgarh	19.05.2007	Kanta Basan	Rajasthan Rajya Vidyut	1	Power	180	
26	Chhattisgarh	25.07.2007	Morga IV	MPMDCL	1	Govt. Comm	35	
27	Chhattisgarh	25.07.2007	Morga-III	MPSMCL	1	Govt. Comm	35	
28	Chhattisgarh	19.05.2007	Parsa East	Rajasthan Rajya Vidyut	1	Power	180	
29	Chhattisgarh	06.11.2007	Sayang	AES Chhatisgarh Energy P Ltd.	1	Power	150	
30	Chhattisgarh	25.07.2007	Shankarpur (bhatgaon II Extn)	CMDC	1	Govt. Comm	80.13	
31	Chhattisgarh	25.07.2007	Sondiha	CMDC	1	Govt. Comm	70	
32	Chhattisgarh	21.11.2008	Bhaskarpara	Electrotherm India Ltd., Grasim Industries Ltd.	1	Iron & Steel	46.91	
33	Chhattisgarh	06.02.2008	Fatehpur	Prakash Industries Ltd.,& S.K.S Isapat Ltd.	1	Power	120	
34	Chhattisgarh	22.01.2008	Fatehpur East	JLD Yotmal Energy Ltd, RKM Power green, Visa Power Ltd., Green Infrastructure Pvt. Ltd., Vandana Vidyut Ltd.	1	Power	450	

**Table 9.5: LIST OF COAL BLOCKS ALLOCATED TILL 31/03/2012**

Srl. No.	State	Date of Allocation	Name of Block	Name of Allocattee	No. of Blocks	Sector	GR while allotting	Remark
(1)	(2)	(3)	(4)	(5)	(6)	(6)	(7)	(8)
35	Chhattisgarh	21.11.2008	Gare Pelma Sector III	Goa Industrial Dev Corn. Ltd.	1	Power	210.2	
36	Chhattisgarh	05.08.2008	Kesla North	Rathi Udyog Ltd.	1	Cement	36.15	
37	Chhattisgarh	09.09.2009	Pindrakhi	Akaltara Power Ltd.	1	Power	421.51	
38	Chhattisgarh	09.09.2009	Putra Parogia	Akaltara Power Ltd.	1	Power	692.16	
39	Chhattisgarh	03.06.2009	Rajgamar Dipside	MIL, Topworth Steel	1	Iron & Steel	61.69	
40	Chhattisgarh	14.10.2011	Rajgamar Dipside (Devnara)	API Ispat & Powertech Pvt Ltd	1	Iron & Steel	78.463	
41	Chhattisgarh	1.11.2011	Vijay Central	Coal India Ltd	1	commercial	56.751	
	<b>Chhattisgarh</b>				<b>41</b>		<b>9089.934</b>	
1	Jharkhand	26.02.1996	Tasra	IISCO/SAIL	1	Iron & Steel	285	producing
2	Jharkhand	1.9.1999	Brahmadih	Castron Technologies Ltd.	1	Iron & Steel	2.215	
3	Jharkhand	28.12.2001	Pachwara Central	PSEB	1	Power	562	producing
4	Jharkhand	07.01.2002	Tokisud North	GVK Power	1	Power	92.3	
5	Jharkhand	29.09.2003	Kathautia	Usha Martin Ltd.,	1	Iron & Steel	29.76	producing
6	Jharkhand	03.11.2003	Badam	TVNL	1	Power	144.63	
7	Jharkhand	11.10.2004	Pakri Barwadih	NTPC Ltd.,	1	Power	1600	
8-10	Jharkhand	26.05.2005	Brinda, Sasai & Meral	Abhijit Infrastructure Ltd.	3	Iron & Steel	78.12	
11	Jharkhand	07.07.2005	Central Parbatpur	Electro Steel Casting Ltd.,	1	Iron & Steel	231.22	producing
12	Jharkhand	02.09.2005	Chitarpur North	Corporate Ispat Alloys Ltd.,	1	Iron & Steel	212.01	
13-14	Jharkhand	11.08.2005	Kotre Basantpur & Pachmo	Tata Steel Ltd.,	2	Iron & Steel	250.4	
15	Jharkhand	08.07.2005	Lalgarh	DOMCO	1	Iron & Steel	30	
16	Jharkhand	24.08.2005	Lohari	Usha Martin Ltd.,	1	Iron & Steel	9.99	
17	Jharkhand	13.05.2005	Moitra	Jayaswal Neco Ltd.	1	Iron & Steel	215.78	
18	Jharkhand	26.04.2005	Pachwara North	WBPDC	1	Power	125.71	
19	Jharkhand	25.04.2006	Bundu	Rungta	1	Iron & Steel	102.52	
20	Jharkhand	13.01.2006	Dumri	Nilachal Iron & Bajrang Ispat	1	Iron & Steel	18	
21	Jharkhand	02.08.2006	Gomia	MMTC	1	Govt. Comm	355	
22	Jharkhand	13.01.2006	Gondulpara	TVNL	1	Power	140	
23	Jharkhand	02.08.2006	Latehar	JSMDC	1	Govt. Comm	220	
24	Jharkhand	13.01.2006	North Dadhu	Electro Steel Casting Ltd.,	1	Iron & Steel	923.94	
25	Jharkhand	02.08.2006	Pindra Debipur Khowatand	JSMDC	1	Govt. Comm	110	
26	Jharkhand	02.08.2006	Rajbar E & D	TVNL	1	Power	385	
27	Jharkhand	02.08.2006	Saria Khowatand	BRKBNL	1	Govt. Comm	202	
28-30	Jharkhand	30.01.2006	Sugia, Rauta, Burakhap	JSMDC	3	Govt. Comm	5.5	
31	Jharkhand	06.11.2007	Ashok Karkata Central	Essar Power Ltd.	1	Power	110	
32	Jharkhand	20.02.2007	Chakla	Essar Power Ltd.	1	Power	83.11	
33	Jharkhand	20.02.2007	Jitpur	JSPL	1	Power	81.09	
34	Jharkhand	20.07.2007	Kirandari BC	JHARKHAND UMPP	1	Power	972	
35	Jharkhand	06.11.2007	Patal East	Bhusan Power & Steel Ltd.	1	Power	200	
36	Jharkhand	25.07.2007	Patratu	JSMDC	1	Govt. Comm	450	
37	Jharkhand	25.07.2007	Robodih OCP	JSMDC	1	Govt. Comm	133	
38	Jharkhand	09.04.2007	Sitanala	SAIL	1	Iron & Steel	108.8	
39	Jharkhand	01.08.2007	Tubeid	HINDALCO, TPL	1	Power	189	
40	Jharkhand	25.07.2007	Umra Paharitola	JSEB & BSMDC	1	Power	700	

**Table 9.5: LIST OF COAL BLOCKS ALLOCATED TILL 31/03/2012**

Srl. No.	State	Date of Allocation	Name of Block	Name of Allocattee	No. of Blocks	Sector	GR while allotting	Remark
(1)	(2)	(3)	(4)	(5)	(6)	(6)	(7)	(8)
41	Jharkhand	17.01.2008	Amrakonda-Murgadangal	Jindal Steel & Power Ltd. & Gagan Sponge Iron Pvt. Ltd	1	Power	410	
42	Jharkhand	14.05.2008	Choritand Tiliaiya	Rungta Mines Ltd., Sunflag Iron & Steel Ltd.	1	Iron & Steel	27.42	
43	Jharkhand	11.04.2008	Jogeswar Khas Jogeswar	JSMDCL	1	Govt. Comm	84.03	
44	Jharkhand	05.08.2008	Macherkunda	Bihar Sponge Iron Ltd.,	1	Iron & Steel	23.86	
45	Jharkhand	09.01.2008	Mahuagiri	CESC Ltd & Jas Infracture Capital Pvt Ltd	1	Power	220	
46	Jharkhand	20.11.2008	Rajhara North(C&E)	Mukund Ltd.& Vini Iron & Steel Ltd.	1	Iron & Steel	17.09	
47	Jharkhand	05.06.2008	Rohne	JSW Steel, Bhushan Steel & Power, Jai Balaji Ind.	1	Iron & Steel	410	
48	Jharkhand	09.01.2008	Seregarha	Arcellor Mittal Ltd, & G.V.K. Power Ltd.	1	Power	150	
49	Jharkhand	28.05.2009	Ganespur	Tata Steel Ltd., Adhunik Thermal Energy	1	Power	137.88	
50	Jharkhand	28.05.2009	Mednirai	Rungta Mines, Kohinoor Steel	1	Iron & Steel	80.83	
51	Jharkhand	26.06.2009	Mourya	JSEB	1	Power	225.35	
	<b>Jharkhand</b>				<b>51</b>		<b>11144.56</b>	
1-2	Madhya Pradesh	21.06.1996	Gotitoria E & W	BLA	2	Private Comm	9.34	producing
3-4	Madhya Pradesh	12.01.2006	Amelia & Amelia North	MPSMCL	2	Govt. Comm	315.65	
5	Madhya Pradesh	26.10.2006	Chhtrasal	PFC	1	Power	150	
6	Madhya Pradesh	02.08.2006	Dongeri Tal II	MPSMCL	1	Govt. Comm	175	
7	Madhya Pradesh	12.04.2006	Mahan	Essar power & Hindalco	1	Power	144.2	
8	Madhya Pradesh	02.08.2006	Mara II Mahan	Govt. of NCT, Delhi & Oth.	1	Power	965	
9	Madhya Pradesh	13.09.2006	Moher	Power Finance Corpn. Ltd.	1	Power	402	
10	Madhya Pradesh	13.09.2006	Moher Amroli Extn.	Power Finance Corpn. Ltd.	1	Power	198	
11	Madhya Pradesh	25.07.2007	Bicharpur	MPSMCL	1	Govt. Comm	36	
12	Madhya Pradesh	01.08.2007	Brahmpuri	Pushp Industries	1	Iron & Steel	55	
13	Madhya Pradesh	17.09.2007	Mandla North	Jaiprakash Associate Ltd.	1	Cement	195	
14	Madhya Pradesh	25.07.2007	Mandla South	MPSMDCL	1	Govt. Comm	72	
15	Madhya Pradesh	25.07.2007	Marki Barka	MPMDCL	1	Govt. Comm	80	
16	Madhya Pradesh	29.05.2007	Rawanvara North	SKS Ispat Ltd.	1	Iron & Steel	174.07	
17	Madhya Pradesh	29.05.2007	Sail Gogri	Prism Cement Ltd.	1	Cement	30.38	
18	Madhya Pradesh	25.07.2007	Semaria/Piparia	MPMDCL	1	Govt. Comm	38.62	
19	Madhya Pradesh	25.07.2007	Shahpur(W)	NMDC	1	Iron & Steel	42	
20	Madhya Pradesh	25.07.2007	Sharpur(E)	NMDC	1	Iron & Steel	42	
21	Madhya Pradesh	25.07.2007	Suliyari	APMDC	1	Govt. Comm	75	
22	Madhya Pradesh	12.08.2008	Bikram	Birla Corporation Ltd.	1	Cement	20.9	
23	Madhya Pradesh	05.08.2008	Tandsi III & Tandsi III Extn.	Mesco Steel Ltd.	1	Iron & Steel	17.39	
24	Madhya Pradesh	21.11.2008	Thesgora B/Rudrapuri	Kamal Sponge & Revati Cements Ltd.	1	Iron & Steel	45.04	
25	Madhya Pradesh	12.10.2009	Urtan North	JSPL & Monnet Ispat Ltd.	1	Iron & Steel	69.82	
	<b>Madhya Pradesh</b>				<b>25</b>		<b>3352.41</b>	
1	Maharashtra	25.04.2001	Marki Mangli-I	B. S. Ispat Ltd.,	1	Iron & Steel	34.34	producing
2	Maharashtra	08.10.2003	Chinora	Field Mining & Ispat Ltd.,	1	Iron & Steel	20	

**Table 9.5: LIST OF COAL BLOCKS ALLOCATED TILL 31/03/2012**

Srl. No.	State	Date of Allocation	Name of Block	Name of Allocattee	No. of Blocks	Sector	GR while allotting	Remark
(1)	(2)	(3)	(4)	(5)	(6)	(6)	(7)	(8)
3	Maharashtra	29.10.2003	Majra	Gondwana Ispat Ltd.,	1	Iron & Steel	31.5	
4	Maharashtra	08.10.2003	Warora (South)	Field Mining & Ispat Ltd.,	1	Iron & Steel	18	
5-10	Maharashtra	10.11.2003	Baranj I-IV, Kiloni, Manora Deep	KPCL	6	Power	68.31	producing
11	Maharashtra	28.03.2005	Belgaon	Sunflag Iron & Steel Co. Ltd.,	1	Iron & Steel	15.3	producing
12-14	Maharashtra	06.09.2005	Marki Mangli II-IV	Shree Virangana Steels Ltd.,	3	Iron & Steel	19	One block producing.
15	Maharashtra	02.08.2006	Marki Jari Zamini Adkoli	MSMCL	1	Govt. Comm	11	
16	Maharashtra	13.01.2006	Nirad Melegaon	Gupta Metallica & Power	1	Iron & Steel	19.5	
17	Maharashtra	20.02.2007	Kosar Dongergaon	Chaman Metallica Ltd.	1	Iron & Steel	22.51	
18	Maharashtra	06.11.2007	Lohara West & Lohara Extn	Adani Power Ltd.	1	Power	169.83	
19	Maharashtra	25.07.2007	Warora	MSMDCL	1	Govt. Comm	73	
20	Maharashtra	17.07.2008	Bhivkunde	Mahagenco	1	Power	100	
21	Maharashtra	21.11.2008	Gondkhari	Maharashtra Seamless, Dhariwal infrastructure, Kesoram Ind. Ltd.	1	Iron & Steel	98.71	
22	Maharashtra	29.05.2009	Bander	AMR Iron & Steel, Century Textile, JK Cement	1	Iron & Steel	126.11	
23	Maharashtra	17.06.2009	Dahegaon	IST Steel & Power, Gujarat Ambuja Cement, Lafarg India Ltd.	1	Iron & Steel	132	
24	Maharashtra	29.05.2009	Khappa Extn.	Sunflag Iron & Steel Co. Ltd., Dalmia Cement Ltd.	1	Iron & Steel	84.72	
	<b>Maharashtra</b>				<b>24</b>		<b>1043.83</b>	
1	Orissa	25.02.1994	Talabira-I	Hindalco	1	Power	22.55	producing
2	Orissa	29.05.1998	Utkal C	Utkal Coal Company	1	Power	208.77	
3	Orissa	16.08.1999	Utkal B-2	Monnet Ispat & Energy Ltd.,	1	Iron & Steel	106	
4	Orissa	12.11.2003	Jamkhani	Bhusan Ltd.,	1	Iron & Steel	80	
5	Orissa	29.09.2003	Utkal B-1	Jindal Steel & Power Ltd.,	1	Iron & Steel	228.4	
6	Orissa	12.12.2003	Utkal-D	Orissa Mining Cor. Ltd.,	1	Govt. Comm	153.31	
7	Orissa	27.08.2004	Utkal-E	National Aluminium Co.Ltd.,	1	Power	194	
8	Orissa	10.11.2005	Talabira II	MCL & NLC & Others	1	Power	589	
9	Orissa	29.11.2005	Utkal A	MCL & Others	1	Iron & Steel	951.66	
10	Orissa	13.01.2006	Bijhahan	Bhusan Ltd.,	1	Iron & Steel	130	
11	Orissa	13.09.2006	Dip side of Meenakshi	Power Finance Corpn. Ltd.	1	Power	350	
12	Orissa	25.01.2006	Dulanga	NTPC Ltd.,	1	Power	260	
13-14	Orissa	06.02.2006	Mahanadi & Machhakata	MSEB & GSEB	2	Power	1200	
15	Orissa	13.09.2006	Meenakshi	Power Finance Corpn. Ltd.	1	Power	285	
16	Orissa	13.09.2006	Meenakshi-B	Power Finance Corpn. Ltd.	1	Power	250	
17	Orissa	02.08.2006	Naugaon Telisahi	OMC & APMC Ltd.	1	Govt. Comm	733	
18	Orissa	13.01.2006	Patrapara	Bhushan Steel & Strips & others	1	Iron & Steel	1042	
19	Orissa	07.02.2006	Radhikapur E	TSIL & Others	1	Iron & Steel	115	
20	Orissa	25.04.2006	Radhikapur W	Rungta & Others	1	Iron & Steel	210	
21	Orissa	25.07.2007	Baitarani West	GPCL, KSEB, OHPL	1	Power	602	

**Table 9.5: LIST OF COAL BLOCKS ALLOCATED TILL 31/03/2012**

Srl. No.	State	Date of Allocation	Name of Block	Name of Allocattee	No. of Blocks	Sector	GR while allotting	Remark
(1)	(2)	(3)	(4)	(5)	(6)	(6)	(7)	(8)
22-13	Orissa	25.07.2007	Chendipada & Chendipada-II	UPRVNL,CMDC,MPGCL	2	Power	1588.99	
24	Orissa	25.07.2007	Dip side of Monoharpur-II	OPGCL	1	Power	350	
25	Orissa	25.07.2007	Mandakini-B	ASMDCL &MMDCL,TNEB,OMC	1	Power	1200	
26	Orissa	25.07.2007	Manoharpur	OPGCL	1	Power	181.68	
27	Orissa	25.07.2007	Naini	GMDC & PIPDICL	1	Power	500	
28	Orissa	09.01.2008	Mandakini	Monnet Ispat , Jindal Photo Ltd, Tata Power Ltd	1	Power	290.52	
29-30	Orissa	17.01.2008	Rampia & Dipside of Rampia	Sterlite Energy, GMR Energy, Arcellor Mittal Energy, Lanco group Ltd, Nav bharat Power Reliance Energy Ltd.	2	Power	645.23	
31	Orissa	27.02.2009	North of Arkhapal	Strategic Energy Tech. Ltd.	1	CTL	1500	
32	Orissa	27.02.2009	Ramchandi Prom.	JSPL	1	CTL	1500	
33	Orissa	21.06.2010	Bankhui	Sakshigopal Integrated Power Company Ltd.	1	Power	800	
	<b>Orissa</b>				<b>33</b>		<b>16267.11</b>	
1	West Bengal	10.08.1993	Sarisatoli	CESC	1	Power	140.47	producing
2	West Bengal	14.07.1995	Tara (East)	WBSEB	1	Power	84.47	producing
3	West Bengal	17.04.1996	Tara (West)	WBSEB	1	Power	125.71	producing
4-5	West Bengal	23.06.2003	G.chak,G.chak Badulia	WBPDC	2	Power	14	
6	West Bengal	23.06.2003	Barjora	WBPDC	1	Power	8	producing
7-8	West Bengal	03.03.2005	Barjora (North), K-Joydev	DVC	2	Power	281.64	One block producing
9	West Bengal	14.01.2005	Trans Damodar	WBMDCL Ltd.,	1	Govt. Comm	103.15	Started production in 2012-13
10	West Bengal	02.08.2006	Ichapur	WBMTDCL	1	Govt. Comm	335	
11	West Bengal	02.08.2006	Kulti	WBMTDCL	1	Govt. Comm	210	
12	West Bengal	06.12.2007	Ardhagram	Sova Ispat, Jai Balaji Sponge	1	Iron & Steel	243	
13	West Bengal	20.02.2007	Bihari Nath	Bankura DRI Mining Manufacturing Pvt. Ltd.	1	Iron & Steel	95.16	
14	West Bengal	25.07.2007	Jaganathpur A	WBMDCL	1	Govt. Comm	273	
15	West Bengal	25.07.2007	Jaganathpur-B	WBMDCT	1	Govt. Comm	176	
16	West Bengal	27.12.2007	Sitarampur	WBMTDCL	1	Govt. Comm	210	
17	West Bengal	03.07.2009	Andal East	Bhusan Steel, Jai Balaji, Rashmi Cement	1	Iron & Steel	700	
18	West Bengal	10.07.2009	Gourangdih ABC	Himachal EMTA Power & JSW Steel Ltd.	1	Power	131.7	
19	West Bengal	06.10.2009	Moir Madhujore	Ramsarup Lohh Udyog, Adhunik Corp., Uttam Glova Steels Ltd., Howrah Gasses Ltd.,Vikash Metal & Power Ltd., Acc Ltd.	1	Iron & Steel	685.39	
	<b>West Bengal</b>				<b>19</b>		<b>3816.69</b>	
	<b>India</b>				<b>195</b>		<b>44802.81</b>	

**Table - 9.6 : LIGNITE BLOCKS ALLOCATED TILL 31/03/2012**

Sl. No.	State (Block)	Date of Allocation	Name of Block	Name of Allocated	No. of Blocks	Sector	GR while allotting	End Use Project	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Gujarat	Lease granted in July, 1996	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	Lease granted on 16/05/2001	Mata na Madh	GMDC	1	Pub	34.0	Commercial	Producing
5	Gujarat	Lease granted on 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	
<b>Gujarat</b>			<b>Total</b>		<b>12</b>		<b>1045.4</b>		
1	Rajasthan	02.01.1994	Giral	RSSML	1	Pub	101.9	Commercial	Producing
2	Rajasthan	Lease granted on 26.07.2002	Matasukh	RSMML	1	Pub	16.9	Commercial	Producing
3	Rajasthan	14.07.2003	Mokhala	RSMML	1	Pub	36.1	Power	
4	Rajasthan	28.08.2004	Soneri	RSMML	1	Pub	42.6	Power	
5	Rajasthan	01.07.2005	Gurha(W)	RSMML	1	Pub	37.5	Commercial	
6	Rajasthan	01.07.2005	Gurha(E)	V.S Lig	1	Pvt	44.7	Power	Producing
7	Rajasthan	13.11.2006	Kapurdi & Jalipa	RSMML	2	Pub	450.9	Power	
8	Rajasthan	13.11.2006	Shivkar-Kurla & Sachcha Sauda	RSMML	2	Pub	140.7	Commercial	
9	Rajasthan	07.02.2007	Mondal Charan	Indure Pvt.Ltd	1	Pvt	17.7	Power	
10	Rajasthan	07.02.2007	Merta Road	NSL Power	1	Pvt	23.9	Power	
11	Rajasthan	07.02.2007	Indawar	Nandlal Enterprise	1	Pvt	12.0	Power	
12	Rajasthan	07.02.2007	Kapriion-Ki-Dhani	DCM Shriram	1	Pvt	17.0	Power	
13	Rajasthan	07.02.2007	Nimbri Chandrabadan	Binani Cement	1	Pvt	9.7	Power	
<b>Total</b>					<b>15</b>		<b>951.4</b>		
<b>Grand Total</b>					<b>27</b>		<b>1996.8</b>		

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/ continents. 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.

Country / Group	Coal Reserve	% Share
USA	237295	27.6
Russia	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
Columbia	6746	0.8
Others	70645	8.2
OECD	378529	44.0
Non-OECD	482409	56.0
World	860938	100.0

Source: Survey of Energy Resources, World Energy Council.

### 10.2 Production

10.2.1 World coal production (including lignite) in the year 2011 reached 7640.18 MT and registered an increase of 8.47% over last year. Statement 10.2 shows production of coal including lignite by different countries/ regions. It can be seen that the top six positions, as per coal production, are occupied by China (3419.81 MT), USA (990.73 MT), India (580.26 MT), Australia (414.3 MT), Indonesia (376.2 MT), and Russia (333.83 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.

Country / Group	Coal Production	% Share
China	3419.81	44.76
USA	990.73	12.97
India	580.26	7.59
Australia	414.3	5.42
Indonesia	376.2	4.92
Russia	333.83	4.37
South Africa	253.11	3.31
Germany	188.56	2.47
Poland	138.46	1.81
Kazakhstan	139.05	1.82
Others	805.87	10.55
World	7640.18	100.00

Source: International Energy Agency (IEA).

10.2.2 The "Coal Information, 2012", an annual publication of the International Energy Agency(IEA) provides further bifurcation of the coal production by coal categories, steam coal (anthracite, other bituminous coal and sub-bituminous coal), coking coal and lignite. Out of total coal (7640 MT), steam coal (5714 MT), coking coal (988 MT) and lignite (938 MT) accounted for 74.79%, 12.93%, and 12.28% respectively.

10.2.3 In case of steam coal, China accounted for the production of about 50% whereas the top five steam coal producer countries, namely, China (50%), USA(15%), India(9%), Indonesia(6.6%) and South Africa(4.4%) accounted for about 85% of the steam coal production.

Country	2010	2011
China	2537.42	2895.48
USA	842.42	835.64
India	483.157	503.43
Indonesia	322.80	373.65
South Africa	252.45	250.32
Australia	189.07	198.58
Russia	178.70	177.69

Statement 10.3: World Steam Coal Production (MT)		
Country	2010	2011
Kazakhstan	91.74	98.06
Columbia	71.17	80.20
Poland	64.51	64.19
Others	230.83	236.70
World	5264.26	5713.92

Source: International Energy Agency (IEA).

10.2.4 In case of coking coal (Statement 10.4), the top five coking coal producer countries, namely, China (53.07%), Australia(14.80%), USA(8.26%), Russia(7.95%) and India(3.59%) accounted for about 87.67% of the coking coal production.

Statement 10.4: World Coking Coal Production (MT)		
Country	2010	2011
China	459.492	524.333
Australia	162.929	146.225
United States of America	68.645	81.656
Russian Federation	66.884	78.521
India	34.065	35.495
Canada	28.156	29.452
Mongolia	15.837	20.039
Ukraine	17.688	19.832
Kazakhstan	11.906	12.727
Poland	11.658	11.435
Others	27.257	28.276
World	904.517	987.991

Source: International Energy Agency (IEA).

10.2.5 In case of lignite (Statement 10.5), world top nine lignite producing countries, namely, Germany (18.81%), Russia (8.27%), Turkey (7.93%), USA (7.83%), Australia (7.41%), Poland (6.70%), Greece (6.26%), Czech Republic (4.57%) and India (4.40%) accounted for the production of about 72.18% of the total lignite production.

Statement 10.5: World Lignite Production (MT)		
Country	2010	2011
Germany	169.4	176.5
Russia	77.19	77.63
Turkey	69.7	74.38
USA	70.97	73.44
Australia	72.09	69.5

Poland	56.51	62.84
Greece	56.52	58.77
Czech Republic	43.77	42.9
India	37.73	41.33
Others	221.26	260.98
World	875.14	938.27

Source: International Energy Agency (IEA).

### 10.3 Export & Import

10.3.1 The export of coal in the world in 2011 registered a growth of 6.03% over the last year. The total coal export was reported to be 1142.0 MT which included 864.07 MT of steam coal, 273.09 MT of coking coal and 4.86 MT of lignite. It can be seen (Statement 10.6) that major exporter of coal were Indonesia (27.1%), Australia (24.9%), Russia (10.8%), USA (8.5%), Columbia (6.6%) and South Africa (6.3%) and these six countries together accounted for 84.3% of total coal export in the world. Further details on export for major countries can be seen from Statement 10.6.

10.3.2 Comparing 2011 export data with that of 2010 export data it is observed that among the major exporters, Indonesia, USA, Columbia and South Africa registered a growth of 42.3MT(15.8%), 23.2 MT (31.3%), 7.49 MT (11.0%) and 5.3 MT ( 8.0%) respectively. Australia and Russia registered negative growth of 8.1 MT (-2.8%) and 9.1 MT (-6.9%) respectively.

Statement 10.6: World Coal Export (MT)			
Country	Export		
	steam coal	coking coal	Total*
Indonesia	308.9	0.6	309.5
Australia	144.1	140.1	284.2
Russia	109.4	13.8	123.2
USA	34.1	63	97.1
Columbia	75.4	0.1	75.5
South Africa	71.6	0.2	71.8
Kazakhstan	31.8	0.3	32.1
Canada	5.9	27.7	33.6
Vietnam	24.4	0.0	24.4
Mongolia	2.1	20	20
China	10	2.9	12.9
Others	48.5	4.4	52.9
World	864.1	273.1	1137.2

\* excludes lignite

Source: International Energy Agency (IEA).

10.3.2 The total coal import in 2011 was reported to the 1099.6 MT.

Statement 10.7: World Coal Import (MT)			
Country	Import		
	steam coal	coking coal	Total*
China	190.5	0.0	190.5
Japan	121.5	53.8	175.3
Korea	96.9	32.2	129.1
India	86.4	19.3	105.7
Chinese Taipei	62.5	3.8	66.3
Germany	32.5	8.8	41.3
United Kingdom	27.1	5.5	32.6
Russia	23.8	0.0	23.8
Netherland	20.1	4.3	24.4
Turkey	19.2	4.6	23.8
Italy	17.9	5.6	23.5
Others	210.6	52.7	263.3
World	909.0	190.6	1099.6
<i>* excludes lignite</i>			
Source: International Energy Agency (IEA).			

The difference of 37.6 MT. between the total export and the total import of coal (excluding lignite) is basically because of coal in transit, unaccounted coal and methodological issues. It can be seen (Statement 10.7) that major importer of coal were China (17.3%), Japan (15.9%), Korea (11.7%), India (9.6%) and Chinese Taipei (6.0%) and these five countries together accounted for 60.5% of total coal import in the world. Further details for major countries may be seen from Statement 10.7.

Comparing 2011 data with that of 2010 data it is observed that the largest growth in coal imports was in China (27.4 Mt.), India (21.2 Mt.) and Korea (10.6 Mt.). It is interesting to know that among the major coal importers Japan (-6.2 Mt.), Germany (-4.4 Mt.) and Russia (-1.0 Mt.) registered negative growth in import.

In case of steam coal imports too China (16.9%), Japan (14.0%), Korea (11.2%), India (10.0%), and Chinese Taipei (07.2%), accounted for 59.4% of total steam coal imports.

In case of coking coal import Japan (23.5%) occupies the first position followed by China (16.7%), Korea (14.1%), India (8.4%) and Germany (3.8%).

**Source: International Energy Agency**

## 10.4 Prices

As per IEA publication "Coal Information 2011", steam coal price did not have much change in 2010 compared to 2009. Like coking coal price, steam coal price also remained almost static. Import prices are expressed in terms of CIF value which includes cost, insurance and freight.

**Table 10.1 : WORLD PROVED COAL RESERVES AT THE END OF 2011(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	27.60%	239	* More than 500 years
Canada	3474	3108	6582	0.80%	97	◆ Less than 0.05%
Mexico	860	351	1211	0.10%	77	
<b>Total North America</b>	<b>112835</b>	<b>132253</b>	<b>245088</b>	<b>29.60%</b>	<b>228</b>	<b>Notes:</b>
Brazil	-	4559	4559	0.50%		* Proved reserves of coal -
Colombia	6366	380	6746	0.80%	79	Generally taken to be those
Venezuela	479	-	479	0.10%	55	quantities that geological and
Other S. & Cent. America	45	679	724	0.10%		* engineering information indicates
<b>Total S. &amp; Cent. America</b>	<b>6890</b>	<b>5618</b>	<b>12508</b>	<b>1.50%</b>	<b>124</b>	with reasonable certainty can be
Bulgaria	2	2364	2366	0.30%	64	recovered in the future from
Czech Republic	192	908	1100	0.10%	19	known deposits under existing
Germany	99	40600	40699	4.70%	216	economic and operating
Greece	-	3020	3020	0.40%	53	conditions. Reserves/Production
Hungary	13	1647	1660	0.20%	174	(R/P) ratio - If 'the reserves
Kazakhstan	21500	12100	33600	3.90%	290	remaining at the end of the year
Poland	4338	1371	5709	0.70%	41	are divided by the production in
Romania	10	281	291	◆	8	that year, the result is the length
Russian Federation	49088	107922	157010	18.20%	471	of time that those remaining
Spain	200	330	530	0.10%	81	reserves would last if production
Turkey	529	1814	2343	0.30%	30	were to continue at that level.
Ukraine	15351	18522	33873	3.90%	390	
United Kingdom	228	-	228	◆	12	
Other Europe & Eurasia	1440	20735	22175	2.60%	238	
<b>Total Europe &amp; Eurasia</b>	<b>92990</b>	<b>211614</b>	<b>304604</b>	<b>35.40%</b>	<b>242</b>	
South Africa	30156	-	30156	3.50%	118	
Zimbabwe	502	-	502	0.10%	202	
Other Africa	860	174	1034	0.10%	*	
Middle East	1203	-	1203	0.10%	*	
<b>Total Middle East &amp; Africa</b>	<b>32721</b>	<b>174</b>	<b>32895</b>	<b>3.80%</b>	<b>126</b>	
Australia	37100	39300	76400	8.90%	184	
China	62200	52300	114500	13.30%	33	
India	56100	4500	60600	7.00%	103	
Indonesia	1520	4009	5529	0.60%	17	
Japan	340	10	350	◆	275	
New Zealand	33	538	571	0.10%	115	Source of reserves data - BP
North Korea	300	300	600	0.10%	19	Statistical Review
Pakistan	-	2070	2070	0.20%	*	
South Korea	-	126	126	◆	60	
Thailand	-	1239	1239	0.10%	58	
Vietnam	150	-	150	◆	3	
Other Asia Pacific	1532	2125	3708	0.4%	88	
<b>Total Asia Pacific</b>	<b>159326</b>	<b>106517</b>	<b>265843</b>	<b>30.90%</b>	<b>53</b>	
<b>TOTAL WORLD</b>	<b>404762</b>	<b>456176</b>	<b>860938</b>	<b>100.00%</b>	<b>112</b>	
of which: OECD	155926	222603	378529	44.00%	182	
Non-OECD	248836	233573	482409	56.00%	86	
European Union	5101	51047	56148	6.50%	97	
Former Soviet Union	86725	141309	228034	26.50%	408	

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

Countries	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Change over 2010	2011 Share of Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
USA	570.1	553.6	572.4	580.2	595.1	587.7	596.7	540.9	551.8	<b>556.8</b>	0.9%	14.1
Canada	34.2	31.7	33.8	35.3	34.1	35.7	35.6	32.8	36	<b>35.6</b>	-1.1%	0.9
Mexico	5.3	4.6	4.7	5.2	5.5	6.0	5.5	5	4.8	<b>7.6</b>	58.3%	0.2
<b>Total North America</b>	<b>609.6</b>	<b>589.9</b>	<b>610.9</b>	<b>620.7</b>	<b>634.7</b>	<b>629.4</b>	<b>637.8</b>	<b>578.7</b>	<b>592.6</b>	<b>600.0</b>	<b>2.4%</b>	<b>15.2</b>
Brazil	1.9	1.8	2.0	2.4	2.2	2.3	2.5	2.2	2.1	<b>2.4</b>	14.3%	0.1
Colombia	25.7	32.5	34.9	38.4	42.6	45.4	47.8	47.3	48.3	<b>55.8</b>	15.5%	1.4
Venezuela	5.9	5.1	5.9	5.3	5.7	5.6	5.6	6.4	6.4	<b>6.3</b>	-1.6%	0.2
Other S. & Cent. America	0.4	0.5	0.2	0.3	0.6	0.3	0.4	0.5	0.3	<b>0.3</b>	0.0%	0.0
<b>Total S. &amp; Cent. America</b>	<b>33.9</b>	<b>39.9</b>	<b>43.0</b>	<b>46.4</b>	<b>51.1</b>	<b>53.6</b>	<b>56.3</b>	<b>56.4</b>	<b>57.1</b>	<b>64.8</b>	<b>1.2%</b>	<b>1.6</b>
Bulgaria	4.3	4.5	4.4	4.1	4.2	4.7	4.8	4.5	4.9	<b>6.1</b>	24.5%	0.2
Czech Republic	24.3	24.2	23.5	23.5	23.8	23.6	22.8	21	20.8	<b>21.6</b>	3.8%	0.5
France	1.1	1.3	0.4	0.2	0.2	0.2	0.1	-	0.1	<b>0.1</b>	-	0.0
Germany	55.0	54.1	54.7	53.2	50.3	51.5	47.7	44.4	43.7	<b>44.6</b>	2.1%	1.1
Greece	9.1	9.0	9.1	9.0	8.3	8.6	8.3	8.4	7.4	<b>7.4</b>	0.0%	0.2
Hungary	2.7	2.8	2.4	2.0	2.1	2.0	1.9	1.9	1.9	<b>2.0</b>	5.3%	0.1
Kazakhstan	37.8	43.3	44.4	44.2	49.1	50.0	56.8	51.5	56.2	<b>58.8</b>	4.6%	1.5
Poland	71.3	71.4	70.5	68.7	67.0	62.3	60.5	56.4	55.5	<b>56.6</b>	2.0%	1.4
Romania	6.6	7.0	6.7	6.6	6.5	6.7	6.7	6.4	5.8	<b>6.7</b>	15.5%	0.2
Russian Federation	117.3	127.1	131.7	139.2	145.1	148.0	153.4	142.1	151.1	<b>157.3</b>	4.1%	4.0
Spain	7.2	6.8	6.7	6.4	6.1	5.7	4.1	3.8	3.4	<b>2.5</b>	-26.5%	0.1
Turkey	11.5	10.4	10.1	12.6	13.7	16.0	16.8	17.1	15.8	<b>16.6</b>	5.1%	0.4
Ukraine	42.8	41.6	42.2	41.0	41.7	39.9	41.3	38.4	39.9	<b>45.1</b>	13.0%	1.1
United Kingdom	18.2	17.2	15.3	12.5	11.3	10.3	11.0	10.9	11.2	<b>11.2</b>	0.0%	0.3
Other Europe & Eurasia	17.9	19.0	18.5	17.7	18.5	20.1	20.6	20	19.5	<b>20.6</b>	5.6%	0.5
<b>Total Europe &amp; Eurasia</b>	<b>427.1</b>	<b>439.7</b>	<b>440.6</b>	<b>440.9</b>	<b>447.9</b>	<b>449.6</b>	<b>456.8</b>	<b>426.8</b>	<b>437.2</b>	<b>457.2</b>	<b>-4.4%</b>	<b>11.6</b>
<b>Total Middle East</b>	<b>0.8</b>	<b>0.7</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>1</b>	<b>1</b>	<b>0.7</b>	<b>0.7</b>	<b>0.7</b>	<b>-</b>	<b>0.0</b>
South Africa	124.1	134.1	137.2	137.7	138.0	139.6	142.4	141.2	143.0	<b>143.8</b>	1.3%	3.6
Zimbabwe	2.5	1.8	2.4	2.2	1.4	1.3	1	1.1	1.6	<b>1.6</b>	-	0.0
Other Africa	1.3	1.5	1.3	1.1	1.3	1.1	1.2	1	1.2	<b>1.2</b>	-	0.0
<b>Total Africa</b>	<b>127.9</b>	<b>137.4</b>	<b>140.9</b>	<b>141.0</b>	<b>140.7</b>	<b>142.0</b>	<b>144.6</b>	<b>143.3</b>	<b>145.8</b>	<b>146.6</b>	<b>1.7%</b>	<b>3.7</b>
Australia	184.3	189.4	196.8	205.7	210.8	217.1	224.1	232.1	236	<b>230.8</b>	1.7%	5.8
China	853.8	1013.4	1174.1	1302	1406.4	1501.1	1557.1	1652.1	1797.7	<b>1956</b>	8.8%	49.5
India	138.5	144.4	155.7	162.1	170.2	181.0	195.6	210.8	217.5	<b>222.4</b>	3.2%	5.6
Indonesia	63.5	70.3	81.4	93.9	119.2	133.4	147.8	157.6	169.2	<b>199.8</b>	7.4%	5.1
Japan	0.8	0.7	0.7	0.6	0.7	0.8	0.7	0.7	0.5	<b>0.7</b>	-28.6%	0.0
New Zealand	2.7	3.2	3.3	3.3	3.6	3.0	3.0	2.8	3.3	<b>3.1</b>	17.9%	0.1
Pakistan	1.6	1.5	1.5	1.6	1.7	1.6	1.8	1.6	1.5	<b>1.4</b>	-6.3%	0.0
South Korea	1.5	1.5	1.4	1.3	1.3	1.3	1.2	1.1	0.9	<b>0.9</b>	-18.2%	0.0
Thailand	5.7	5.3	5.6	5.8	5.3	5.1	5.0	5.0	5.1	<b>6</b>	2.0%	0.2
Vietnam	9.2	10.8	14.7	18.3	21.8	22.4	23.0	25.2	24.6	<b>24.9</b>	-2.4%	0.6
Other Asia Pacific	19.6	20.3	22.1	24.9	25.3	23.9	25.6	28.5	36.3	<b>40.2</b>	27.4%	1.0
<b>Total Asia Pacific</b>	<b>1281.2</b>	<b>1460.8</b>	<b>1657.3</b>	<b>1819.7</b>	<b>1966.3</b>	<b>2090.7</b>	<b>2184.9</b>	<b>2317.5</b>	<b>2492.6</b>	<b>2686.2</b>	<b>7.6%</b>	<b>67.9</b>
<b>TOTAL WORLD</b>	<b>2480.5</b>	<b>2668.4</b>	<b>2893.5</b>	<b>3069.5</b>	<b>3241.6</b>	<b>3366.3</b>	<b>3481.4</b>	<b>3523.4</b>	<b>3726.0</b>	<b>3955.5</b>	<b>5.8%</b>	<b>100.0</b>
<b>of which : OECD</b>	1006.2	989.5	1012.5	1025.7	1040.4	1039.9	1047.5	986.3	1000.0	<b>1004.4</b>	1.4%	25.4
<b>Non-OECD</b>	1474.3	1678.6	1880.7	2043.6	2201.3	2326.7	2433.7	2536.9	2726.6	<b>2951.0</b>	7.5%	74.6
<b>European Union</b>	205.0	203.8	198.6	191.0	184.3	180.8	173.0	162.5	160.1	<b>164.3</b>	-1.5%	4.2
<b>Former Soviet Union</b>	201.4	215.8	222.2	228.5	239.9	242.3	256.1	236.3	252.2	<b>266.5</b>	6.7%	6.7

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

Source : BP Statistical Review

**Table 10.3: Coal Consumption in Major Coal Consuming Countries of the World during last Ten years (mtoe)**

Countries	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Change over 2010	2011 share of total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
US	552	562.5	566.1	574.2	565.7	573.3	564.1	496.2	526.1	<b>501.9</b>	-4.6%	13.5
Canada	31.6	27	28.5	33.3	29.1	29.8	29.9	25.2	24	<b>21.8</b>	-9.2%	0.6
Mexico	7.8	8.9	7.1	9.3	9.1	9.1	6.8	8.4	9.4	<b>9.9</b>	5.3%	0.3
<b>Total North America</b>	<b>591.4</b>	<b>598.4</b>	<b>601.7</b>	<b>616.8</b>	<b>603.9</b>	<b>612.2</b>	<b>600.8</b>	<b>529.8</b>	<b>559.5</b>	<b>533.6</b>	-4.6%	14.3
Argentina	0.5	0.7	0.8	0.9	0.3	0.4	1.1	1.2	1.0	<b>1.1</b>	10.0%	0.0
Brazil	11.5	11.8	12.8	12.7	12.5	13.4	13.5	11.3	13.9	<b>13.9</b>	0.0%	0.4
Chile	2.4	2.3	2.6	2.6	3.2	3.8	4.1	3.7	4.2	<b>5.3</b>	26.2%	0.1
Colombia	2.2	2.4	2.0	2.7	2.4	2.4	2.8	3.5	4.0	<b>4.3</b>	7.5%	0.1
Equador	-	-	-	-	-	-	-	-	-	-	-	-
Peru	0.7	0.7	0.7	0.8	0.6	0.8	0.8	0.8	0.8	<b>0.8</b>	0.0%	0.0
Trinidad & Tobago	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	0.1	1.9	<b>2.0</b>	5.3%	0.1
Other S. & Cent. America	1.0	2.1	1.9	1.8	2.1	2.1	2.1	2.6	2.4	<b>2.4</b>	0.0%	0.1
<b>Total S. &amp; Cent. America</b>	<b>18.3</b>	<b>20.0</b>	<b>20.8</b>	<b>21.5</b>	<b>21.1</b>	<b>22.9</b>	<b>24.4</b>	<b>23.2</b>	<b>28.2</b>	<b>29.8</b>	<b>5.7%</b>	<b>0.8</b>
Austria	3.0	3.3	3.3	3.1	3.1	3	2.8	2.3	2.6	<b>2.5</b>	-3.8%	0.1
Azerbaijan	-	-	-	-	-	-	-	-	-	-	-	0.0
Belarus	0.1	0.1	0.1	0.1	0.1	-	-	-	-	-	-	0.0
Belgium & Luxembourg	6	5.8	5.6	5	4.8	4.4	3.9	3.1	3.3	<b>2.1</b>	-36.4%	0.1
Bulgaria	6.5	7.2	7.1	6.8	6.9	7.7	7.5	6.4	6.8	<b>8.4</b>	23.5%	0.2
Czech Republic	20.6	20.8	20.9	20.4	21.1	21.2	19.9	17.4	18.2	<b>19.2</b>	5.5%	0.5
Denmark	4.2	5.7	4.6	3.7	5.6	4.7	4.1	4	3.8	<b>3.2</b>	-15.8%	0.1
Finland	4.1	5.5	5.0	2.9	4.7	4.4	3.0	3.3	4.3	<b>3.3</b>	-23.3%	0.1
France	12.4	13.3	12.8	13.3	12.1	12.3	11.9	9.9	10.7	<b>9.0</b>	-15.9%	0.2
Germany	84.6	87.2	85.4	82.1	83.5	85.7	80.1	71.7	76.6	<b>77.6</b>	1.3%	2.1
Greece	9.8	9.4	9.0	8.8	8.1	8.5	8.1	8.1	7.4	<b>7.3</b>	-1.4%	0.2
Hungary	3.1	3.4	3.1	2.7	2.9	2.9	2.8	2.5	2.6	<b>2.7</b>	3.8%	0.1
Republic of Ireland	1.8	1.7	1.8	1.9	1.6	1.5	1.4	1.2	1.2	<b>1.3</b>	8.3%	0.0
Italy	13.3	14.0	16.0	16	16.4	16.6	16.4	12.9	14.3	<b>15.4</b>	7.7%	0.4
Kazakhstan	22.8	25.2	26.5	27.2	29.8	31.7	33.4	32.6	31.6	<b>30.2</b>	-4.4%	0.8
Lithuania	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	<b>0.2</b>	0.0%	0.0
Netherlands	8.9	9.1	9.1	8.7	8.5	9	8.5	7.9	7.9	<b>7.8</b>	-1.3%	0.2
Norway	0.8	0.7	0.8	0.7	0.6	0.7	0.7	0.5	0.6	<b>0.6</b>	0.0%	0.0
Poland	56.7	57.7	57.3	55.7	58	57.9	56.0	51.9	56.4	<b>59.8</b>	6.0%	1.6
Portugal	4.1	3.8	3.7	3.8	3.8	3.3	2.9	3.3	1.9	<b>2.6</b>	36.8%	0.1
Romania	7.6	7.8	7.4	7.6	8.5	7.4	7.4	6.6	6.1	<b>7.1</b>	16.4%	0.2
Russian Federation	103.0	104.0	99.5	94.2	96.7	93.5	100.4	91.9	90.2	<b>90.9</b>	0.8%	2.4
Slovakia	4.0	4.2	4.1	3.9	3.8	3.8	3.7	3.5	3.4	<b>3.3</b>	-2.9%	0.1
Spain	22.7	21.0	22.0	22.5	19.8	21.9	15.5	11.8	9.8	<b>14.9</b>	52.0%	0.4
Sweden	2.2	2.2	2.3	2.2	2.3	2.2	2.0	1.6	2.1	<b>2</b>	-4.8%	0.1
Switzerland	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	<b>0.1</b>	0.0%	0.0
Turkey	19.3	20.7	21.8	21.8	25.9	28.9	29.2	30.4	30.9	<b>32.4</b>	4.9%	0.9
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-	0.0
Ukraine	38.9	40.3	39.1	37.4	39.7	39.7	40.2	35.1	37.9	<b>42.4</b>	11.9%	1.1
United Kingdom	35.7	38.1	36.6	37.4	40.9	38.4	35.6	29.9	31	<b>30.8</b>	-0.6%	0.8
Uzbekistan	1.0	0.7	1.2	1.2	1.7	1.4	1.4	1.4	1.3	<b>1.3</b>	0.0%	0.0
Other Europe & Eurasia	21.9	23.1	23.8	22.1	19.2	20.2	20.6	19.5	20.1	<b>20.8</b>	3.5%	0.6
<b>Total Europe &amp; Eurasia</b>	<b>519.3</b>	<b>536.3</b>	<b>530.2</b>	<b>513.5</b>	<b>530.4</b>	<b>533.3</b>	<b>519.7</b>	<b>470.9</b>	<b>483.3</b>	<b>499.2</b>	<b>2.6%</b>	<b>13.4</b>

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**Table 10.3: Coal Consumption in Major Coal Consuming Countries of the World during last Ten years (mtoe)**

Countries	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Change over 2010	2011 share of total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Iran	1.1	1.1	1.0	1.2	1.2	1.3	0.9	1	0.8	<b>0.8</b>	0.0%	0.0
Israel	7.6	7.9	8.0	7.9	7.8	8.0	7.9	7.7	7.7	<b>7.9</b>	2.6%	0.2
Kuwait	-	-	-	-	-	-	-	-	-	-	-	0.0
Qatar	-	-	-	-	-	-	-	-	-	-	-	0.0
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	0.0
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	0.0
Other Middle East	-	-	-	-	-	-	-	-	-	-	-	0.0
<b>Total Middle East</b>	<b>8.7</b>	<b>9.0</b>	<b>9.0</b>	<b>9.1</b>	<b>9.0</b>	<b>9.3</b>	<b>8.8</b>	<b>8.7</b>	<b>8.5</b>	<b>8.7</b>	2.4%	0.2
Algeria	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.2	-	-	-	-
Egypt	1.3	1.4	1.3	1.3	1.2	1.2	1.2	1.2	0.9	<b>0.9</b>	0.0%	0.0
South Africa	75.9	81.4	85.4	82.9	84	89.1	95.1	89.9	91.3	<b>92.9</b>	1.8%	2.5
Other Africa	6.9	6.1	6.8	7	6.4	5.7	5.9	4.8	5.9	<b>6</b>	1.7%	0.2
<b>Total Africa</b>	<b>84.7</b>	<b>89.5</b>	<b>94.1</b>	<b>91.8</b>	<b>92.2</b>	<b>96.6</b>	<b>102.8</b>	<b>96.1</b>	<b>98.1</b>	<b>99.8</b>	1.7%	2.7
Australia	51.1	49.4	50.8	53.5	56	54.1	54.6	54.5	43.8	<b>49.8</b>	13.7%	1.3
Bangladesh	0.4	0.4	0.4	0.4	0.5	0.4	0.6	0.6	0.9	<b>1</b>	11.1%	0.0
China	760.4	900.2	1066	1186.2	1317	1392.5	1441.1	1579.5	1676.2	<b>1839.4</b>	9.7%	49.4
China Hong Kong SAR	5.4	6.6	6.6	6.7	7	7.5	7	7.6	6.3	<b>7.7</b>	22.2%	0.2
India	151.8	156.8	172.3	184.4	195.4	210.3	230.4	253.8	270.8	<b>295.6</b>	9.2%	7.9
Indonesia	18	24.2	22.2	25.4	30.1	37.8	30.1	34.6	41.2	<b>44</b>	6.8%	1.2
Japan	106.6	112.2	120.8	121.3	119.1	125.3	128.7	108.8	123.7	<b>117.7</b>	-4.9%	3.2
Malaysia	3.6	5.3	6.6	6.9	7.3	8.8	9.8	10.6	13.8	<b>15.0</b>	8.7%	0.4
New Zealand	1.4	2	2.1	2.3	2.2	1.7	2.1	1.6	1.4	<b>1.4</b>	0.0%	0.0
Pakistan	2.4	2.9	3.8	4.1	4.2	5.1	5.3	4.7	4.5	<b>4.2</b>	-6.7%	0.1
Philippines	4.7	4.7	5	5.7	5.5	5.9	7	6.7	7.7	<b>8.3</b>	7.8%	0.2
Singapore	-	-	-	-	-	-	-	-	-	-	-	-
South Korea	49.1	51.1	53.1	54.8	54.8	59.7	66.1	68.6	75.9	<b>79.4</b>	4.6%	2.1
Taiwan	32.7	35.1	36.6	38.1	39.6	41.8	40.2	38.7	40.3	<b>41.6</b>	3.2%	1.1
Thailand	9.2	9.4	10.4	11.2	12.4	14.1	15.3	14.5	15.3	<b>13.9</b>	-9.2%	0.4
Vietnam	5.3	5.5	8.2	8	9.5	10.1	10	14.0	13.9	<b>15.0</b>	7.9%	0.4
Other Asia Pacific	18.6	18.8	19.2	20.5	21.0	17.8	19.5	19	18.7	<b>19.1</b>	2.1%	0.5
<b>Total Asia Pacific</b>	<b>1220.3</b>	<b>1384.6</b>	<b>1583.7</b>	<b>1729.5</b>	<b>1881.6</b>	<b>1992.9</b>	<b>2067.8</b>	<b>2217.8</b>	<b>2354.4</b>	<b>2553.1</b>	8.4%	68.6
<b>TOTAL WORLD</b>	<b>2442.7</b>	<b>2637.8</b>	<b>2839.5</b>	<b>2982.2</b>	<b>3138.2</b>	<b>3267.2</b>	<b>3324.3</b>	<b>3346.5</b>	<b>3532.0</b>	<b>3724.2</b>	5.4%	100.0
of which : OECD	1131.4	1155.8	1169.3	1180.8	1179.5	1201.9	1178.0	1056.7	1110.8	<b>1098.6</b>	-1.1%	29.5
Non-OECD	1311.8	1481.9	1670.0	1801.5	1959.5	2065.4	2146.1	2289.9	2421.2	<b>2625.7</b>	8.4%	70.5
European Union	316.1	326.2	322.2	313.5	321.3	322.5	298.9	264.0	276.0	<b>285.9</b>	3.6%	7.7
Former Soviet Union	169.5	174.5	170.9	164.2	171.9	170.9	179.9	165.2	166.3	<b>169.8</b>	2.1%	4.6

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

**Table 10.4: Trends of World Coal Prices.**

(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
1991	42.80	29.01	60.45	50.30
1992	38.53	28.53	57.82	48.45
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
1999	28.79	31.29	42.83	35.74
2000	35.99	29.90	39.69	34.58
2001	39.29	50.15	41.33	37.96
2002	31.65	33.20	42.01	36.90
2003	43.6	38.52	41.57	34.74
2004	72.08	64.90	60.96	51.34
2005	60.54	70.12	89.33	62.91
2006	64.11	62.96	93.46	63.04
2007	88.79	51.16	88.24	69.86
2008	147.67	118.79	179.03	122.81
2009	70.66	68.08	167.82	110.11
2010	92.50	71.63	158.95	105.19
2011	121.54	87.38	229.12	136.21

£ Source of Marker Price: McCloskey Coal Information Service

Note: cif = cost+insurance+freight (average prices)



**Table-10.5: Production of Coal and Coke by Major Coal Producing Countries of 2010 & 2011 ('000 Tonnes)**

Country	2011					2010				
	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	Coke Oven Coke
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
United States of America	81656	384968	450668	73440	13989	68645	375378	467045	70970	13628
Canada	29452	5169	22762	9731	2804	28156	5549	23927	10264	2720
Mexico	2560	0	9824	0	2768	1587	0	8519	0	2209
<b>N.America</b>	<b>113668</b>	<b>390137</b>	<b>483254</b>	<b>83171</b>	<b>19561</b>	<b>98388</b>	<b>380927</b>	<b>499491</b>	<b>81234</b>	<b>18557</b>
Colombia	3579	80204	0	0	0	3176	71174	0	0	2084
Brazil	0	122	3142	2184	0	0	124	3196	2095	9189
Venezuela	0	2271	0	0	0	0	2730	0	0	0
Chile	0	654	0	0	513	0	619	0	0	361
Peru	0	92	0	0	0	0	92	0	0	0
Argentina	0	81	0	0	0	0	65	0	0	1045
<b>S &amp; C. America</b>	<b>3579</b>	<b>83424</b>	<b>3142</b>	<b>2184</b>	<b>513</b>	<b>3176</b>	<b>74804</b>	<b>3196</b>	<b>2095</b>	<b>12679</b>
Germany	6758	5301	0	176502	7990	7147	5753	0	169403	8150
Poland	11435	64186	0	62841	9379	11658	64514	0	56510	9738
Turkey	1000	1500	1200	74375	4559	1088	1436	1177	69698	4274
Greece	0	0	0	58767	0	0	0	0	56520	0
Czech Republic	5183	6272	0	42897	2586	6023	5412	0	43774	2548
Serbia	0	0	0	40817	0	0	0	0	37976	0
Bulgaria	0	91	0	37720	0	0	26	0	29379	0
Romania	0	0	0	35263	0	0	0	4	31126	0
United Kingdom	267	17625	0	0	4053	270	17546	0	0	4023
Estonia	0	0	0	19057	24	0	0	0	18294	22
Bosnia and Herzegovina	0	0	4931	10072	0	0	0	5367	5618	920
Hungary	0	0	0	9555	1049	0	0	0	9113	1018
Spain	0	4262	2359	0	2073	0	5986	2444	0	2051
Finland	0	0	0	6605	852	0	0	0	7421	827
Kosovo	0	0	0	6082	0	0	0	0	6082	0
Republic of Macedonia	0	0	0	5959	0	0	0	0	6724	0
Slovenia	0	0	0	4501	0	0	0	0	4430	0
Italy	0	92	0	0	4350	0	101	0	0	4110
Slovak Republic	0	0	0	2376	1618	0	0	0	2378	1658
Ireland	0	61	0	3707	0	0	66	0	4991	0
France	0	0	0	0	2958	0	0	0	0	3151
Netherlands	0	0	0	0	2007	0	0	0	0	2022
Montenegro	0	0	0	1938	0	0	0	0	1938	0
Belgium	0	0	0	0	1923	0	0	0	0	1935
Sweden	0	0	0	556	1223	0	0	0	797	1197
Norway	0	1386	0	0	0	0	1935	0	0	0
Austria	0	0	0	1	1351	0	0	0	1	1391
Albania	0	0	0	22	0	0	0	0	14	0
Belarus	0	0	0	0	0	0	0	0	2352	0
Lithuania	0	0	0	0	0	0	0	0	31	0
Latvia	0	0	0	0	0	0	0	0	10	0
<b>Europe</b>	<b>24643</b>	<b>100776</b>	<b>8490</b>	<b>599613</b>	<b>47995</b>	<b>26186</b>	<b>102775</b>	<b>8992</b>	<b>564580</b>	<b>49035</b>

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**Table-10.5: Production of Coal and Coke by Major Coal Producing Countries of 2010 & 2011 ('000 Tonnes)**

Country	2011					2010				
	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	Coke Oven Coke
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Russian Federation	78521	177685	0	77625	0	66884	178696	0	77187	28389
Kazakhstan	12727	98063	0	28264	0	11906	91740	0	7283	2527
Ukraine	19832	41781	0	193	0	17688	37264	0	435	18600
Uzbekistan	0	210	0	2632	0	0	65	0	3275	0
Kyrgyzstan	0	100	0	745	0	0	65	0	517	0
Tajikistan	0	180	20	0	0	0	177	23	0	0
Georgia	0	0	73	0	0	0	0	105	0	0
<b>Ertswhile Soviet Union</b>	<b>111080</b>	<b>318019</b>	<b>93</b>	<b>109459</b>	<b>0</b>	<b>96478</b>	<b>308007</b>	<b>128</b>	<b>88697</b>	<b>49516</b>
South Africa	2788	250317	0	0	0	2074	252448	0	0	1680
Zimbabwe	412	2584	0	0	0	424	2659	0	0	281
Islamic Republic of Iran	1061	113	0	0	0	926	99	0	0	844
Botswana	0	738	0	0	0	0	988	0	0	0
Israel	0	0	0	416	0	0	0	0	432	0
Democratic Republic of Congo	0	132	0	0	0	0	139	0	0	0
United Republic of Tanzania	0	95	0	0	0	0	105	0	0	0
Mozambique	0	38	0	0	0	0	38	0	0	0
Nigeria	0	8	0	0	0	0	8	0	0	0
Egypt	0	0	0	0	0	0	0	0	0	1371
Zambia	0	0	0	0	0	0	1	0	0	0
Other Africa	0	708	0	0	0	0	789	0	11	0
<b>Africa &amp; Middle East</b>	<b>4261</b>	<b>254733</b>	<b>0</b>	<b>416</b>	<b>0</b>	<b>3424</b>	<b>257274</b>	<b>0</b>	<b>443</b>	<b>4176</b>
People's Republic of China	524333	2895478	0	0	0	459492	2537415	0	0	362096
India	35495	503431	0	41334	0	34065	483147	0	37730	10840
Australia	146225	159008	39568	69502	3370	162929	151330	37741	72090	2795
Indonesia	2548	194205	179447	0	0	2201	167774	155025	0	0
Vietnam	0	44524	0	0	0	0	44011	0	0	0
Japan	0	0	0	0	39288	0	0	0	0	41874
DPR of Korea	0	24602	6954	0	0	0	25295	6662	0	0
Mongolia	20039	2031	0	9276	0	15837	1627	0	7991	79
Thailand	0	0	0	21137	0	0	0	0	18344	0
Korea	0	2084	0	0	14737	0	2084	0	0	13549
Philippines	0	0	9435	0	0	0	0	6650	0	0
New Zealand	2120	211	2294	322	478	2341	256	2439	295	458
Pakistan	0	2502	0	1167	0	0	2350	0	1101	300
Malaysia	0	2842	0	0	0	0	2397	0	0	0
Myanmar	0	1127	0	288	0	0	646	0	40	0
Bangladesh	0	1000	0	0	0	0	770	0	0	0
Nepal	0	16	0	0	0	0	16	0	0	0
Chinese Taipei	0	0	0	0	0	0	0	0	0	5348
Other Asia	0	1097	0	396	0	0	1026	0	498	0
<b>Asia Pacific</b>	<b>730760</b>	<b>3834158</b>	<b>237698</b>	<b>143422</b>	<b>57873</b>	<b>676865</b>	<b>3420144</b>	<b>208517</b>	<b>138089</b>	<b>437339</b>
<b>World</b>	<b>987991</b>	<b>4981247</b>	<b>732677</b>	<b>938265</b>	<b>125942</b>	<b>904517</b>	<b>4543931</b>	<b>720324</b>	<b>875138</b>	<b>571302</b>

Table-10.6: Import of Coal and Coke by Major Coal Importing Countries of 2010 & 2011 ('000 Tonnes)

Country	2011					2010				
	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	1445	9902	395	130	1285	1385	14668	1368	135	1101
Canada	3770	4253	1322	7	403	3092	5725	3790	4	750
Mexico	0	1603	5979	3	336	0	1531	6166	4	391
<b>N. America</b>	<b>5215</b>	<b>15758</b>	<b>7696</b>	<b>140</b>	<b>2024</b>	<b>4477</b>	<b>21924</b>	<b>11324</b>	<b>143</b>	<b>2242</b>
Brazil	11971	7230	270	0	0	10732	4920	257	0	1801
Chile	640	8360	0	0	0	450	6483	0	0	1
Argentina	1102	1556	0	0	0	689	629	0	0	0
Dominican Republic	0	925	0	0	0	0	709	0	0	106
Peru	0	578	0	0	0	0	944	0	0	59
Guatemala	21	497	0	0	0	0	571	0	0	0
Jamaica	72	0	0	0	0	54	0	0	0	0
Honduras	0	32	0	0	0	0	107	0	0	72
Cuba	0	13	0	0	0	0	13	0	0	11
Uruguay	0	4	0	0	0	0	4	0	0	0
Costa Rica	0	0	0	0	0	0	1	0	0	95
Panama	0	0	0	0	0	0	0	0	0	107
<b>C &amp; S America</b>	<b>13806</b>	<b>19195</b>	<b>270</b>	<b>0</b>	<b>0</b>	<b>11925</b>	<b>14381</b>	<b>257</b>	<b>0</b>	<b>2252</b>
Germany	8778	32508	0	0	3405	7793	37932	0	0	4310
United Kingdom	5467	27143	0	0	26	6235	20286	0	0	113
Netherlands	4343	20113	0	23	159	4569	15871	0	29	243
Turkey	4575	19224	0	0	181	5135	16198	0	0	173
Italy	5606	17711	150	5	33	5066	16646	394	6	18
Spain	2505	13663	0	0	165	2777	10040	0	0	204
France	3799	10628	0	82	1209	4615	12925	0	53	1264
Poland	2170	12466	0	60	145	3155	10448	0	24	137
Finland	1269	5703	0	10	444	1327	4593	0	7	441
Denmark	0	6136	0	0	20	0	4570	0	0	22
Slovak Republic	2493	1479	0	602	521	2472	1326	0	613	610
Belgium	2704	1988	0	68	107	2801	2726	0	245	166
Austria	1740	1530	74	2	1330	1327	1727	69	16	1252
Portugal	0	3753	0	0	3	0	2771	0	0	3
Sweden	1616	1460	0	360	214	2258	1027	0	365	247
Bulgaria	0	3235	0	0	0	0	2777	0	0	69
Czech Republic	1163	1159	0	76	534	909	1100	0	58	885
Ireland	0	2289	0	22	0	0	1571	0	22	0
Hungary	1430	117	307	0	9	1460	307	292	0	10
Croatia	0	1559	28	59	0	0	1113	28	59	28
Romania	627	146	730	110	0	146	73	644	134	1081
Bosnia and Herzegovina	1241	0	0	0	0	1232	0	6	13	6
Norway	0	711	0	0	455	0	684	0	0	434
Slovenia	0	24	418	85	31	0	27	490	58	29
Greece	0	429	0	111	0	0	617	0	34	1
Serbia	0	158	0	324	0	0	158	0	324	792
Lithuania	143	249	0	1	0	143	176	0	1	16
Latvia	0	273	0	0	0	0	180	0	0	3
Switzerland	0	99	0	72	20	0	130	0	66	18
Republic of Moldova	0	154	0	0	0	0	181	0	0	4
Republic of Macedonia	0	0	119	31	0	0	4	205	35	27
Iceland	8	104	0	0	21	4	102	0	0	25
Luxembourg	0	89	0	0	1	0	102	0	0	1
Estonia	0	67	0	0	0	0	71	0	0	0
Kosovo	0	34	0	28	0	0	34	0	30	0
Belarus	0	55	0	0	0	0	55	0	0	76
Albania	0	0	0	22	0	0	0	0	234	0
Cyprus	0	18	0	0	0	0	17	0	1	0
Armenia	0	0	0	0	0	0	0	0	0	0
<b>Europe</b>	<b>51677</b>	<b>186474</b>	<b>1826</b>	<b>2153</b>	<b>9033</b>	<b>53424</b>	<b>168565</b>	<b>2128</b>	<b>2427</b>	<b>12708</b>

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**Table-10.6: Import of Coal and Coke by Major Coal Importing Countries of 2010 & 2011 ('000 Tonnes)**

Country	2011					2010				
	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	23849	0	681	0	847	24012	0	696	196
Ukraine	6975	6826	0	0	0	7747	4398	0	19	306
Kyrgyzstan	0	489	0	75	0	0	489	0	75	0
Kazakhstan	0	158	0	1	0	0	249	0	7	793
Uzbekistan	0	0	0	120	0	0	0	0	120	0
Georgia	0	16	0	0	0	0	8	0	0	0
Tajikistan	0	4	0	0	0	2	15	0	0	1
<b>Ertswhile Soviet Union</b>	<b>6975</b>	<b>31342</b>	<b>0</b>	<b>877</b>	<b>0</b>	<b>8596</b>	<b>29171</b>	<b>0</b>	<b>917</b>	<b>1296</b>
Israel	0	12310	0	0	0	0	12310	0	0	0
Morocco	0	4860	0	0	0	0	4223	0	0	0
United Arab Emirates	0	2084	0	0	0	0	1162	0	0	0
Egypt	1625	0	0	0	0	1625	0	0	0	47
South Africa	1309	0	0	0	0	1842	0	0	0	0
Senegal	0	735	0	0	0	0	735	0	0	0
Lebanon	0	357	0	0	0	0	264	0	0	0
Namibia	0	289	0	0	0	0	340	0	0	0
Congo	0	136	0	0	0	0	136	0	0	0
Zimbabwe	0	70	0	0	0	0	70	0	0	159
Islamic Republic of Iran	0	46	0	0	0	0	46	0	0	0
Kenya	42	0	0	0	0	42	0	0	0	1196
Libya	0	32	0	0	0	0	165	0	0	0
Tanzania	0	9	0	0	0	0	0	0	0	0
Algeria	0	4	0	0	0	0	0	0	0	0
Angola	0	1	0	0	0	0	0	0	0	501
Benin	0	0	0	0	0	0	0	0	0	0
Botswana	0	0	0	0	0	0	0	0	0	0
Other Africa	0	0	0	0	0	0	3	0	0	0
<b>Africa &amp; Middle East</b>	<b>2976</b>	<b>20933</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3509</b>	<b>19454</b>	<b>0</b>	<b>0</b>	<b>1903</b>
People's Republic of China	0	190531	0	0	0	0	163065	0	0	110
Japan	53835	121542	0	0	679	57679	127692	0	0	879
Korea	32234	92701	4215	0	406	28160	85341	5090	0	629
India	19339	57430	28969	0	0	19484	36566	28512	0	2032
Chinese Taipei	3819	58257	4244	0	0	5524	53387	4244	0	1373
Malaysia	0	21491	0	0	0	0	20737	0	0	0
Thailand	0	16425	0	0	0	0	16802	0	0	209
Hong Kong (China)	0	12946	0	0	0	0	10324	0	0	0
Philippines	0	8707	2459	0	0	0	7938	3028	0	169
Pakistan	440	2151	0	0	0	429	3838	0	0	0
Vietnam	0	1468	0	0	0	0	884	0	3	142
Bangladesh	0	848	0	0	0	0	800	0	0	0
Nepal	0	376	0	4	0	0	270	0	0	0
Sri Lanka	0	321	0	0	0	0	321	0	0	0
DPR of Korea	0	242	0	0	0	0	108	0	0	0
New Zealand	203	0	0	0	0	0	0	0	0	197
Australia	3	31	138	0	0	1	51	199	0	0
Indonesia	0	0	0	0	55	0	0	0	0	14
Cambodia	55	0	0	0	0	55	0	0	0	0
Syrian Arab Republic	0	0	43	0	0	0	0	34	0	0
Singapore	0	0	0	0	0	0	0	0	0	9
Other Asia	0	0	0	0	0	0	0	0	0	11
<b>Asia Pacific</b>	<b>109928</b>	<b>585467</b>	<b>40068</b>	<b>4</b>	<b>1140</b>	<b>111332</b>	<b>528124</b>	<b>41107</b>	<b>3</b>	<b>5774</b>
<b>World</b>	<b>190577</b>	<b>859169</b>	<b>49860</b>	<b>3174</b>	<b>12197</b>	<b>193263</b>	<b>781619</b>	<b>54816</b>	<b>3490</b>	<b>26175</b>

**Table 10.7 : Export of Coal and Coke by Major Exporting Countries of 2010 & 2011 (in'000 Tnnes)**

Country	2011					2010				
	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	63077	28174	5885	166	879	50906	16199	6824	203	1327
Canada	27666	5886	47	129	353	27528	5744	7	132	82
Mexico	0	9	0	0	0	0	5	0	0	1
<b>N.America</b>	<b>90743</b>	<b>34069</b>	<b>5932</b>	<b>295</b>	<b>1232</b>	<b>78434</b>	<b>21948</b>	<b>6831</b>	<b>335</b>	<b>1410</b>
Colombia	112	75413	0	0	0	1216	66932	0	0	1695
Venezuela	0	2271	0	0	0	0	2457	0	0	0
Peru	0	23	0	0	0	0	107	0	0	0
Argentina	0	10	0	0	0	0	14	0	0	53
<b>C &amp; S America</b>	<b>112</b>	<b>77717</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1216</b>	<b>69510</b>	<b>0</b>	<b>0</b>	<b>1748</b>
Poland	1670	5098	0	144	6538	1815	8150	0	115	6347
Czech Republic	2534	3719	0	1072	508	3499	2773	0	1056	875
Netherlands	123	5500	0	0	42	0	5866	0	4	148
Spain	15	1175	0	0	374	0	1488	0	0	370
Norway	0	1504	0	0	0	0	1649	0	0	4
United Kingdom	3	488	0	0	467	1	714	0	0	483
Belgium	27	360	0	0	346	59	545	0	0	446
Germany	11	193	0	5	177	6	247	0	0	189
Hungary	0	0	6	1	303	0	10	1	2	300
Bosnia and Herzegovina	0	0	280	23	0	1	0	303	48	522
Italy	0	0	3	0	273	0	5	0	0	303
Slovak Republic	0	0	0	0	176	0	0	0	0	324
Portugal	0	158	0	0	0	0	114	0	0	0
France	46	15	0	0	86	111	20	0	0	123
Bulgaria	0	124	0	1	0	0	46	0	43	1
Serbia	0	0	0	114	0	0	7	0	114	15
Estonia	0	0	0	48	25	0	0	0	81	21
Montenegro	0	0	0	69	0	0	0	0	69	0
Republic of Macedonia	0	0	0	34	0	0	0	6	34	1
Finland	0	0	0	20	6	0	0	0	17	5
Sweden	0	1	0	0	25	0	1	0	0	33
Ireland	0	9	0	1	0	0	9	0	1	0
Austria	0	1	0	0	6	0	1	0	8	3
Slovenia	0	2	0	0	0	0	0	0	0	0
Romania	0	0	0	1	0	47	0	26	2	5
Denmark	0	0	0	0	0	0	71	0	0	0
Croatia	0	0	0	0	0	0	0	0	0	1
Kosovo	0	0	0	0	0	0	0	0	13	0
Latvia	0	0	0	0	0	0	2	0	6	0
Lithuania	0	0	0	0	0	18	17	0	9	0
<b>Europe</b>	<b>4429</b>	<b>18347</b>	<b>289</b>	<b>1533</b>	<b>9352</b>	<b>5557</b>	<b>21735</b>	<b>336</b>	<b>1622</b>	<b>10519</b>

**Table 10.7 : Export of Coal and Coke by Major Exporting Countries of 2010 & 2011 (in'000 Tnnes)**

Country	2011					2010				
	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)
<b>Contd....</b>										
Russian Federation	13811	109358	0	526	0	18030	114245	0	592	2290
Kazakhstan	294	31781	0	1924	0	294	29078	0	1924	96
Ukraine	247	7496	0	115	0	261	5933	0	51	1466
Kyrgyzstan	0	10	0	0	0	0	0	0	0	0
Georgia	0	0	0	0	0	0	0	0	0	0
Tajikistan	0	0	0	0	0	0	0	0	0	0
Turkmenistan	0	0	0	0	0	0	0	0	0	0
Uzbekistan	0	0	0	0	0	0	0	0	34	0
<b>Ertswhile Soviet Union</b>	<b>14352</b>	<b>148645</b>	<b>0</b>	<b>2565</b>	<b>0</b>	<b>18585</b>	<b>149256</b>	<b>0</b>	<b>2601</b>	<b>3852</b>
South Africa	152	71552	0	0	0	834	65562	0	0	0
Other Africa	0	507	0	0	0	0	507	0	0	0
Islamic Republic of Iran	76	0	0	0	0	112	3	0	0	2
Mozambique	0	5	0	0	0	0	28	0	0	0
Egypt	0	0	0	0	0	0	0	0	0	478
Zimbabwe	0	0	0	0	0	0	0	0	0	201
Syrian Arab Republic	0	0	0	0	0	0	0	0	0	5
<b>Africa &amp; Middle East</b>	<b>228</b>	<b>72064</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>946</b>	<b>66100</b>	<b>0</b>	<b>0</b>	<b>686</b>
Indonesia	567	174970	133940	0	0	2201	166950	98050	0	0
Australia	140455	144055	0	0	0	157265	135352	0	0	0
Vietnam	0	24425	0	0	0	0	19699	0	0	129
Mongolia	20039	2031	0	73	0	15714	1627	0	73	0
People's Republic of China	0	13476	0	0	0	0	19030	0	0	3350
Philippines	0	0	5816	0	0	0	0	4099	0	0
India	49	4366	0	0	0	111	4298	0	0	154
DPR of Korea	0	3542	0	0	0	0	4601	0	0	0
New Zealand	2113	37	9	0	0	2301	119	0	0	0
Japan	0	0	0	0	979	0	4	0	0	652
Other Asia	0	29	0	396	0	0	29	0	404	0
Malaysia	0	311	0	0	0	0	98	0	0	0
Chinese Taipei	0	0	0	0	0	0	0	0	0	117
Thailand	0	0	0	0	0	0	21	0	0	0
<b>Asia Pacific</b>	<b>163223</b>	<b>367242</b>	<b>139765</b>	<b>469</b>	<b>979</b>	<b>177592</b>	<b>351828</b>	<b>102149</b>	<b>477</b>	<b>4402</b>
<b>World</b>	<b>273087</b>	<b>718084</b>	<b>145986</b>	<b>4862</b>	<b>11563</b>	<b>282330</b>	<b>680377</b>	<b>109316</b>	<b>5035</b>	<b>22617</b>

**Table 10.8: Countrywise Production, Import & Export of Coal and Coke by Major Coal Consuming Countries in 2011 ('000 Tonnes)**

Country	Coking Coal			Other Bituminous & Anthracite			Sub Bituminous			Lignite & Peat			Coke Oven Coke		
	Prodn.	Import	Export	Prodn.	Import	Export	Prodn.	Import	Export	Prodn.	Import	Export	Prodn.	Import	Export
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
United States of America	81656	1445	63077	384968	9902	28174	450668	395	5885	73440	130	166	13989	1285	879
Canada	29452	3770	27666	5169	4253	5886	22762	1322	47	9731	7	129	2804	403	353
Mexico	2560	0	0	0	1603	9	9824	5979	0	0	3	0	2768	336	0
<b>N. America</b>	<b>113668</b>	<b>5215</b>	<b>90743</b>	<b>390137</b>	<b>15758</b>	<b>34069</b>	<b>483254</b>	<b>7696</b>	<b>5932</b>	<b>83171</b>	<b>140</b>	<b>295</b>	<b>19561</b>	<b>2024</b>	<b>1232</b>
Colombia	3579	0	112	80204	0	75413	0	0	0	0	0	0	0	0	0
Brazil	0	11971	0	122	7230	0	3142	270	0	2184	0	0	0	0	0
Venezuela	0	0	0	2271	0	2271	0	0	0	0	0	0	0	0	0
Chile	0	640	0	654	8360	0	0	0	0	0	0	0	513	0	0
Peru	0	0	0	92	578	23	0	0	0	0	0	0	0	0	0
Argentina	0	1102	0	81	1556	10	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	1471	0	0	0	0	0	0	0	0	0	0
<b>C &amp; S America</b>	<b>3579</b>	<b>13806</b>	<b>112</b>	<b>83424</b>	<b>19195</b>	<b>77717</b>	<b>3142</b>	<b>270</b>	<b>0</b>	<b>2184</b>	<b>0</b>	<b>0</b>	<b>513</b>	<b>0</b>	<b>0</b>
Germany	6758	8778	11	5301	32508	193	0	0	0	176502	0	5	7990	3405	177
Poland	11435	2170	1670	64186	12466	5098	0	0	0	62841	60	144	9379	145	6538
Turkey	1000	4575	0	1500	19224	0	1200	0	0	74375	0	0	4559	181	0
Greece	0	0	0	0	429	0	0	0	0	58767	111	0	0	0	0
Czech Republic	5183	1163	2534	6272	1159	3719	0	0	0	42897	76	1072	2586	534	508
Serbia	0	0	0	0	158	0	0	0	0	40817	324	114	0	0	0
Bulgaria	0	0	0	91	3235	124	0	0	0	37720	0	1	0	0	0
Romania	0	627	0	0	146	0	0	730	0	35263	110	1	0	0	0
United Kingdom	267	5467	3	17625	27143	488	0	0	0	0	0	0	4053	26	467
Estonia	0	0	0	0	67	0	0	0	0	19057	0	48	24	0	25
Bosnia and Herzegovina	0	1241	0	0	0	0	4931	0	280	10072	0	23	0	0	0
Hungary	0	1430	0	0	117	0	0	307	6	9555	0	1	1049	9	303
Spain	0	2505	15	4262	13663	1175	2359	0	0	0	0	0	2073	165	374
Finland	0	1269	0	0	5703	0	0	0	0	6605	10	20	852	444	6
Kosovo	0	0	0	0	34	0	0	0	0	6082	28	0	0	0	0
Republic of Macedonia	0	0	0	0	0	0	0	0	0	5959	0	34	0	0	0
Slovenia	0	0	0	0	24	2	0	418	0	4501	85	0	0	31	0
Italy	0	5606	0	92	17711	0	0	150	3	0	5	0	4350	33	273
Slovak Republic	0	2493	0	0	1479	0	0	0	0	2376	602	0	1618	521	176
Ireland	0	0	0	61	2289	9	0	0	0	3707	22	1	0	0	0
France	0	3799	46	0	10628	15	0	0	0	0	82	0	2958	1209	86
Netherlands	0	4343	123	0	20113	5500	0	0	0	0	23	0	2007	159	42
Montenegro	0	0	0	0	0	0	0	0	0	1938	0	69	0	0	0
Belgium	0	2704	27	0	1988	360	0	0	0	0	68	0	1923	107	346
Sweden	0	1616	0	0	1460	1	0	0	0	556	360	0	1223	214	25
Norway	0	0	0	1386	711	1504	0	0	0	0	0	0	0	455	0
Austria	0	1740	0	0	1530	1	0	74	0	1	2	0	1351	1330	6
Albania	0	0	0	0	0	0	0	0	0	22	22	0	0	0	0
Belarus	0	0	0	0	55	0	0	0	0	0	0	0	0	0	0
Lithuania	0	143	0	0	249	0	0	0	0	0	1	0	0	0	0
Latvia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	8	0	0	12185	158	0	147	0	0	162	0	0	65	0
<b>Europe</b>	<b>24643</b>	<b>51677</b>	<b>4429</b>	<b>100776</b>	<b>186474</b>	<b>18347</b>	<b>8490</b>	<b>1826</b>	<b>289</b>	<b>599613</b>	<b>2153</b>	<b>1533</b>	<b>47995</b>	<b>9033</b>	<b>9352</b>

Contd....

**Table 10.8: Countrywise Production, Import & Export of Coal and Coke by Major Coal Consuming Countries in 2011 ('000 Tonnes)**

Country	Coking Coal			Other Bituminous & Anthracite			Sub Bituminous			Lignite & Peat			Coke Oven Coke		
	Prod.	Import	Export	Prod.	Import	Export	Prod.	Import	Export	Prod.	Import	Export	Prod.	Import	Export
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Russian Federation	78521	0	13811	177685	23849	109358	0	0	0	77625	681	526	0	0	0
Kazakhstan	12727	0	294	98063	158	31781	0	0	0	28264	1	1924	0	0	0
Ukraine	19832	6975	247	41781	6826	7496	0	0	0	193	0	115	0	0	0
Uzbekistan	0	0	0	210	0	0	0	0	0	2632	120	0	0	0	0
Kyrgyzstan	0	0	0	100	489	10	0	0	0	745	75	0	0	0	0
Tajikistan	0	0	0	180	4	0	20	0	0	0	0	0	0	0	0
Georgia	0	0	0	0	16	0	73	0	0	0	0	0	0	0	0
<b>Ertswhile Soviet Union</b>	<b>111080</b>	<b>6975</b>	<b>14352</b>	<b>318019</b>	<b>31342</b>	<b>148645</b>	<b>93</b>	<b>0</b>	<b>0</b>	<b>109459</b>	<b>877</b>	<b>2565</b>	<b>0</b>	<b>0</b>	<b>0</b>
South Africa	2788	1309	152	250317	0	71552	0	0	0	0	0	0	0	0	0
Zimbabwe	412	0	0	2584	70	0	0	0	0	0	0	0	0	0	0
Islamic Republic of Iran	1061	0	76	113	46	0	0	0	0	0	0	0	0	0	0
Botswana	0	0	0	738	0	0	0	0	0	0	0	0	0	0	0
Israel	0	0	0	0	12310	0	0	0	0	416	0	0	0	0	0
Congo	0	0	0	132	0	0	0	0	0	0	0	0	0	0	0
Tanzania	0	0	0	95	0	0	0	0	0	0	0	0	0	0	0
Mozambique	0	0	0	38	0	5	0	0	0	0	0	0	0	0	0
Nigeria	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0
Egypt	0	1625	0	0	0	0	0	0	0	0	0	0	0	0	0
Zambia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Africa	0	0	0	708	8507	507	0	0	0	0	0	0	0	0	0
<b>Africa &amp; Middle East</b>	<b>4261</b>	<b>2976</b>	<b>228</b>	<b>254733</b>	<b>20933</b>	<b>72064</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>416</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
China	524333	0	0	2895478	190531	13476	0	0	0	0	0	0	0	0	0
India	35495	19339	49	503431	57430	4366	0	28969	0	41334	0	0	0	0	0
Australia	146225	3	140455	159008	31	144055	39568	138	0	69502	0	0	3370	0	0
Indonesia	2548	0	567	194205	0	174970	179447	0	133940	0	0	0	0	55	0
Vietnam	0	0	0	44524	1468	24425	0	0	0	0	0	0	0	0	0
Japan	0	53835	0	0	121542	0	0	0	0	0	0	0	39288	679	979
DPR of Korea	0	0	0	24602	242	3542	6954	0	0	0	0	0	0	0	0
Mongolia	20039	0	20039	2031	0	2031	0	0	0	9276	0	73	0	0	0
Thailand	0	0	0	0	16425	0	0	0	0	21137	0	0	0	0	0
Korea	0	32234	0	2084	92701	0	0	4215	0	0	0	0	14737	406	0
Philippines	0	0	0	0	8707	0	9435	2459	5816	0	0	0	0	0	0
New Zealand	2120	203	2113	211	0	37	2294	0	9	322	0	0	478	0	0
Pakistan	0	440	0	2502	2151	0	0	0	0	1167	0	0	0	0	0
Malaysia	0	0	0	2842	21491	311	0	0	0	0	0	0	0	0	0
Myanmar	0	0	0	1127	0	0	0	0	0	288	0	0	0	0	0
Bangladesh	0	0	0	1000	848	0	0	0	0	0	0	0	0	0	0
Nepal	0	0	0	16	376	0	0	0	0	0	4	0	0	0	0
Chinese Taipei	0	3819	0	0	58257	0	0	4244	0	0	0	0	0	0	0
Other Asia	0	55	0	1097	13267	29	0	43	0	396	0	396	0	0	0
<b>Asia Pacific</b>	<b>730760</b>	<b>109928</b>	<b>163223</b>	<b>3834158</b>	<b>585467</b>	<b>367242</b>	<b>237698</b>	<b>40068</b>	<b>139765</b>	<b>143422</b>	<b>4</b>	<b>469</b>	<b>57873</b>	<b>1140</b>	<b>979</b>
<b>World</b>	<b>987991</b>	<b>190577</b>	<b>273087</b>	<b>4981247</b>	<b>859169</b>	<b>718084</b>	<b>732677</b>	<b>49860</b>	<b>145986</b>	<b>938265</b>	<b>3174</b>	<b>4862</b>	<b>125942</b>	<b>12197</b>	<b>11563</b>



# 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 31/03/2012.

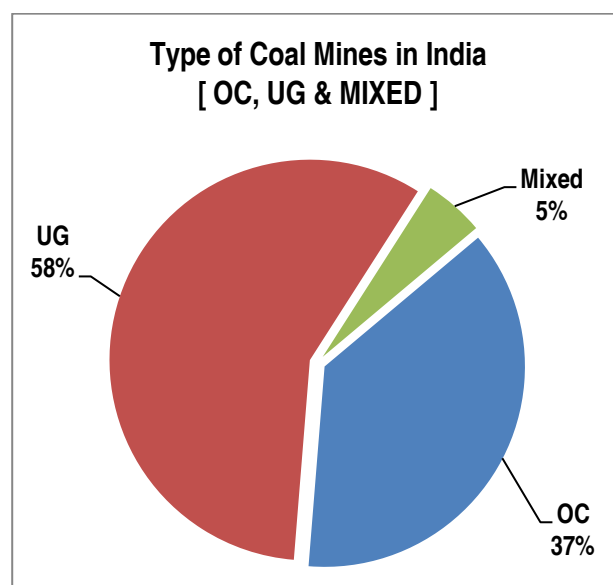
11.2 It is observed that the number and distribution of coal and lignite mines have remained, more or less, static over the previous year. As on 31.03.2012, the total number of operating coal mines was reported to be 558. The state-wise distribution of these coal mines is given in statement 11.1.

<b>Statement 11.1: state-wise distribution of coal mines as on 31.03.2012</b>			
State	No. of coal mines		
	Captive	Non-Captive	Total
Andhra Pradesh	0	50	50
Arunachal Pradesh	0	1	1
Assam	0	7	7
Chhattisgarh	6	55	61
Jammu & Kashmir	0	7	7
Jharkhand	14	158	172
Madhya Pradesh	1	70	71
Maharashtra	4	53	57
Meghalaya	0	1	1
Orissa	1	27	28
Uttar Pradesh	0	4	4
West Bengal	6	94	100
<b>All India</b>	<b>32</b>	<b>527</b>	<b>559</b>

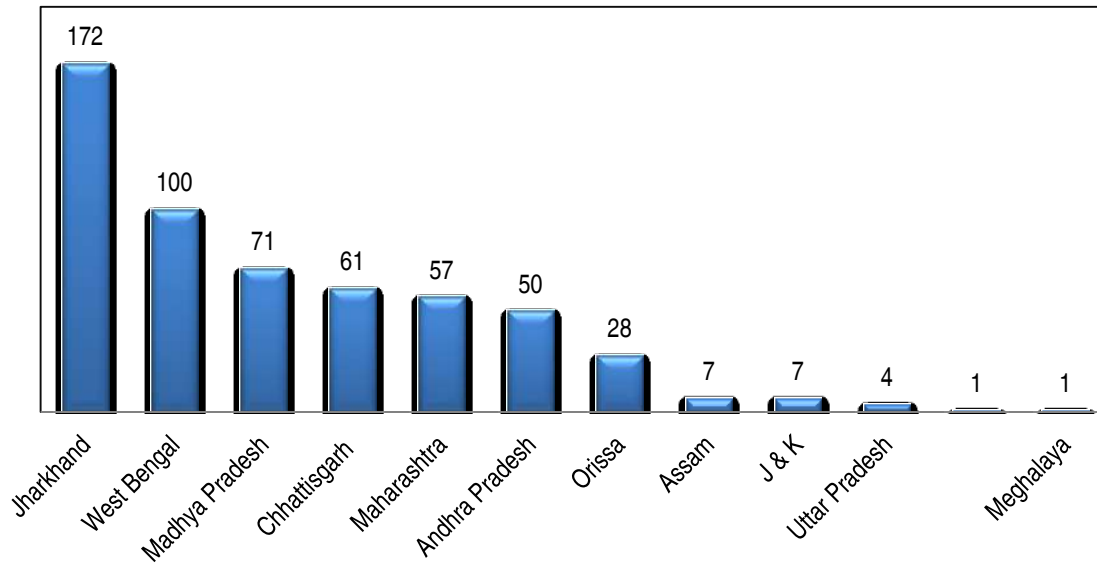
11.3 As on 31.03.2012, the total number of operating lignite mines was reported to be 14. The state-wise distribution of these lignite mines is given in statement 11.2.

<b>Statement 11.2: state-wise distribution of lignite mines as on 31.03.2012</b>			
State	No. of coal mines		
	Captive	Non-Captive	Total
Gujarat	2	5	7
Rajasthan		4	4
Tamil Nadu	3		3
<b>All India</b>	<b>5</b>	<b>9</b>	<b>14</b>

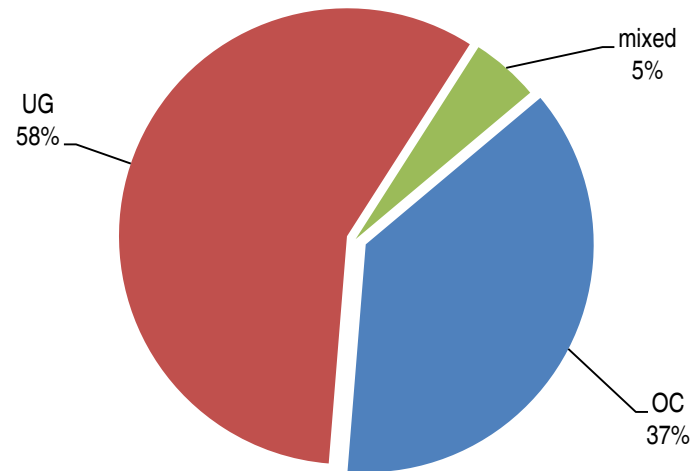
11.3 Depending on the situation, mine operation can be open cast, underground or mixed one. In India, the distribution of operating coal mines under different mining system is highlighted through the following chart.



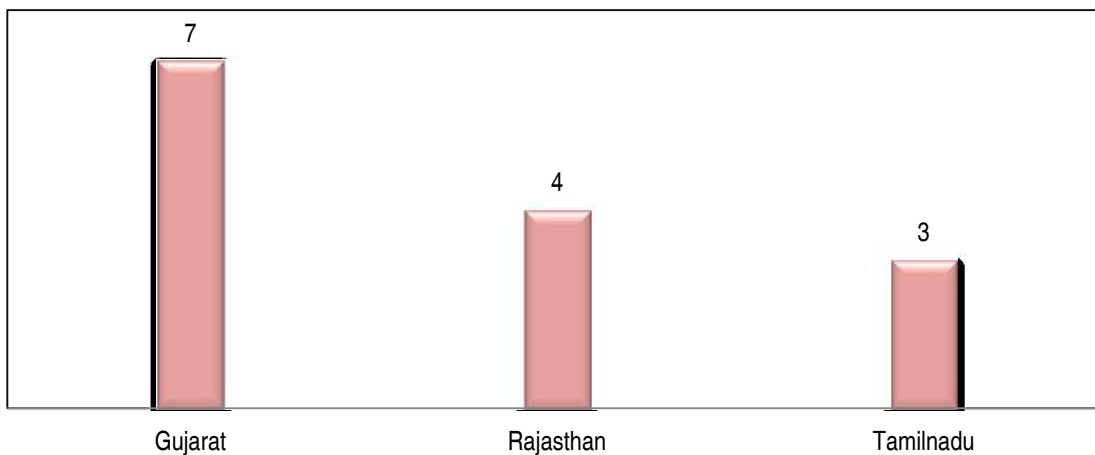
**Chart - I : Statewise Coal Mines**



**Chart-II : Type of Coal Mines in India [OC, UG & MIXED ]**



**Chart - III : No. of Lignite Mines**



**Table 11.1: Number of Coal & Lignite Mines -Companywise as on 31/03/2012**

Coal / Lignite	Company	Number of Mines				
		OC	UG	Mixed	Total	
(1)	(2)	(3)	(4)	(5)	(6)	
<b>Coal</b>	ECL	17	86	2	105	
	BCCL	19	39	20	78	
	CCL	41	24	1	66	
	NCL	10	0	0	10	
	WCL	38	42	2	82	
	SECL	24	65	1	90	
	MCL	16	11	0	27	
	NEC	3	5	0	8	
	<b>CIL</b>		<b>168</b>	<b>272</b>	<b>26</b>	<b>466</b>
	SCCL	15	35	0	50	
	JSMDC	1	0	0	1	
	DVC	1	0	0	1	
	DVC EMTA	1	0	0	1	
	IISCO	1	2	1	4	
	JKML	0	7	0	7	
	WBPDC	1	0	0	1	
	SAIL	1	0	0	1	
	<b>PUBLIC</b>		<b>189</b>	<b>316</b>	<b>27</b>	<b>532</b>
	BECML	1	0	0	1	
	ICML	1	0	0	1	
	JSPL	1	0	0	1	
	HIL	1	0	0	1	
	TSL	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	
	APMDTCL	1	0	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		
<b>PRIVATE</b>		<b>20</b>	<b>7</b>	<b>0</b>	<b>27</b>	
<b>Total</b>		<b>209</b>	<b>323</b>	<b>27</b>	<b>559</b>	
<b>Lignite</b>	NLC	3			3	
	GMDCL	5			5	
	GIPCL	1			1	
	GHCL	1			1	
	RSMDCL	3			3	
	VSLPPL	1			1	
	<b>Total</b>		<b>14</b>			<b>14</b>

**Table 11.2: Number of 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)	
<b>Coal</b>	Andhra Pradesh	15	35	0	50	
	Arunachal Pradesh	1	0	0	1	
	Assam	3	4	0	7	
	Chhattisgarh	22	38	1	61	
	J & K	0	7	0	7	
	Jharkhand	73	77	22	172	
	Madhya Pradesh	21	48	2	71	
	Maharashtra	34	23	0	57	
	Orissa	17	11	0	28	
	Uttar Pradesh	4	0	0	4	
	West Bengal	19	79	2	100	
	Meghalaya	0	1	0	1	
	<b>All India</b>		<b>209</b>	<b>323</b>	<b>27</b>	<b>559</b>
	<b>Lignite</b>	Gujarat	7			7
Tamilnadu		3			3	
Rajasthan		4			4	
<b>All India</b>			<b>14</b>			<b>14</b>

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

**Table 11.3: Number of Mines -Sectorwise as on 31/03/2012**

Type	Sector	Number of Mines			
		OC	UG	Mixed	Total
(1)	(2)	(3)	(4)	(5)	(6)
<b>COAL :</b>	Public	190	316	27	533
	Private	19	7	0	26
	<b>Total</b>	<b>209</b>	<b>323</b>	<b>27</b>	<b>559</b>
<b>LIGNITE :</b>	Public	13			13
	Private	1			1
	<b>Total</b>	<b>14</b>			<b>14</b>

**Table 11.4: Number of Mines -Captive/Non Captive as on 31/03/2011**

Type	Sector	Number of Mines			
		OC	UG	Mixed	Total
(1)	(2)	(3)	(4)	(5)	(6)
<b>COAL :</b>	Captive	23	9	1	33
	Non Captive	185	314	26	525
	<b>Total</b>	<b>208</b>	<b>323</b>	<b>27</b>	<b>558</b>
<b>LIGNITE :</b>	Captive	5			5
	Non Captive	6			6
	<b>Total</b>	<b>11</b>			<b>11</b>

**Table 11.5: Number of Mines -Public/Private, Captive/Non Captive as on 31/03/2011**

Type	Sector	No. of Collieries			
		OC	UG	Mixed	Total
(1)	(2)	(3)	(4)	(5)	(6)
<b>COAL :</b>	Public Captive	5	2	1	8
	Public Non-Captive	185	314	26	525
	Private Captive	18	7	0	25
	Private Non-Captive	0	0	0	0
	<b>Total</b>	<b>208</b>	<b>323</b>	<b>27</b>	<b>558</b>
<b>LIGNITE :</b>	Public Captive	4			4
	Public Non-Captive	8			8
	Private Captive	1			1
	<b>Total</b>	<b>13</b>			<b>13</b>

**Table 11.6: Number of Working Coal Mines as on 31/03/2012 (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)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)
ECL			0			0			0				0			0	5	10		15				0
BCCL			0			0			0				0			0	18	37	20	75				0
CCL			0			0			0				0			0	41	24	1	66				0
NCL			0			0			0				0			0				0	6			6
WCL			0			0			0				0			0				0	7	20	2	29
SECL			0			0	17	37	1	55				0		0				0	7	28		35
MCL			0			0			0				0			0				0				0
NEC			0				3	4	7				0			0				0				0
<b>CIL</b>	<b>0</b>	<b>0</b>	<b>0</b>				<b>3</b>	<b>4</b>	<b>7</b>	<b>17</b>	<b>37</b>	<b>1</b>	<b>55</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64</b>	<b>71</b>	<b>21</b>	<b>156</b>	<b>20</b>	<b>48</b>	<b>2</b>	<b>70</b>
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	7	7					0				0
WBPDCCL			0			0			0				0			0				0				0
SAIL			0			0			0				0			0	1			1				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
TSL			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	0			0				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
APMDTCL			0	1		1			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
<b>Total</b>	<b>15</b>	<b>35</b>	<b>50</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>7</b>	<b>22</b>	<b>38</b>	<b>1</b>	<b>61</b>	<b>0</b>	<b>7</b>	<b>7</b>	<b>73</b>	<b>77</b>	<b>22</b>	<b>172</b>	<b>21</b>	<b>48</b>	<b>2</b>	<b>71</b>

Contd...

**Table 11.6: Number of Working Coal Mines as on 31/03/2012 (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	0	12	76	2	90		0	17	86	2	105
BCCL				0			0	0	0	1	2		3		0	19	39	20	78
CCL				0			0	0	0				0		0	41	24	1	66
NCL				0			0	4	4				0		0	10	0	0	10
WCL	31	22		53			0		0				0		0	38	42	2	82
SECL				0			0	0	0				0		0	24	65	1	90
MCL				0	16	11	27		0				0		0	16	11	0	27
NEC				0			0	0	0				0	1	1	3	5	0	8
<b>CIL</b>	<b>31</b>	<b>22</b>	<b>0</b>	<b>53</b>	<b>16</b>	<b>11</b>	<b>27</b>	<b>4</b>	<b>4</b>	<b>13</b>	<b>78</b>	<b>2</b>	<b>93</b>	<b>1</b>	<b>1</b>	<b>168</b>	<b>272</b>	<b>26</b>	<b>466</b>
SCCL				0			0	0	0				0		0	15	35	0	50
JSMDC				0			0	0	0				0		0	1	0	0	1
DVC				0			0	0	0				0		0	1	0	0	1
DVC EMTA				0			0	0	0	1			1		0	1	0	0	1
IISCO				0			0	0	0	1	1		2		0	1	2	1	4
JKML				0			0	0	0				0		0	0	7	0	7
WBPDC				0			0	0	0	1			1		0	1	0	0	1
SAIL				0			0	0	0				0		0	1	0	0	1
BECML				0			0	0	0	1			1		0	1	0	0	1
ICML				0			0	0	0	1			1		0	1	0	0	1
JSPL				0			0	0	0				0		0	1	0	0	1
HIL				0	1		1	0	0				0		0	1	0	0	1
TSL				0			0	0	0				0		0	3	5	0	8
MIL				0			0	0	0				0		0	0	1	0	1
BLA				0			0	0	0				0		0	1	0	0	1
CML				0			0	0	0				0		0	1	0	0	1
PANEM				0			0	0	0	1			1		0	1	0	0	1
PIL				0			0	0	0				0		0	1	0	0	1
JNL				0			0	0	0				0		0	1	0	0	1
JPL				0			0	0	0				0		0	1	0	0	1
SIL		1		1			0	0	0				0		0	0	1	0	1
APMDCL				0			0	0	0				0		0	1	0	0	1
UML				0			0	0	0				0		0	1	0	0	1
KEMTA	1			1			0	0	0				0		0	1	0	0	1
ESCL				0			0	0	0				0		0	1	0	0	1
SEML				0			0	0	0				0		0	1	0	0	1
SEML	1			1			0	0	0				0		0	1	0	0	1
TUML	1			1			0	0	0				0		0	1	0	0	1
<b>Total</b>	<b>34</b>	<b>23</b>	<b>0</b>	<b>57</b>	<b>17</b>	<b>11</b>	<b>28</b>	<b>4</b>	<b>4</b>	<b>19</b>	<b>79</b>	<b>2</b>	<b>100</b>	<b>1</b>	<b>1</b>	<b>209</b>	<b>323</b>	<b>27</b>	<b>559</b>

**Table 11.7: Number of Working Lignite Mines as on 31/03/2012**

Company	Captive	Public	GUJARAT			TAMILNADU			RAJASTHAN			All India		
	Non-Captive	Private	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			0	3		3
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
<b>TOTAL</b>			<b>7</b>		<b>7</b>	<b>3</b>		<b>3</b>	<b>4</b>		<b>4</b>	<b>14</b>		<b>14</b>

**TABLE 11.8: NO. OF COAL MINES CAPTIVE, NON-CAPTIVE, PUBLIC AND PRIVATE  
AS WELL AS STATE-WISE BREAKUP FOR 2011-12**

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	7	7	7	0	7
Chhattisgarh	6	55	61	55	6	61
Jammu & Kashmir	0	7	7	7	0	7
Jharkhand	14	158	172	161	11	172
Madhya Pradesh	1	70	71	70	1	71
Maharashtra	4	53	57	53	4	57
Meghalaya	0	1	1	1	0	1
Orissa	1	27	28	27	1	28
Uttar Pradesh	0	4	4	4	0	4
West Bengal	6	94	100	97	3	100
<b>All India</b>	<b>32</b>	<b>527</b>	<b>559</b>	<b>533</b>	<b>26</b>	<b>559</b>

**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		4	4	4		4
Tamilnadu	3		3	3		3
<b>All India</b>	<b>5</b>	<b>9</b>	<b>14</b>	<b>13</b>	<b>1</b>	<b>14</b>



**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 01.04.2012 is 576 million tonnes (out of which 89 million tonnes is proved). The quantities of coal produced in the state during previous fifteen years are as follows.

(Thousand Tonnes)

Years	Production
1995-96	3248
1996-97	3241
1997-98	3234
1998-99	4238
1999-2000	4060
2000-01	4065
2001-02	5149
2002-03	4406
2003-04	5439
2004-05	5345
2005-06	5566
2006-07	5787
2007-08	6541
2008-09	5489
2009-10	5767
2010-11	6974
2011-12	7206

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 (Mill.Tonnes )**

Years	Jaintia Hills	Garo Hills	West Khasi Hills	East Khasi Hills	Total
1998-99	3.246	0.807	0.170	0.015	<b>4.238</b>
1999-00	2.936	0.907	0.203	0.014	<b>4.060</b>
2000-01	2.840	1.018	0.202	0.005	<b>4.065</b>
2001-02	3.955	0.906	0.283	0.005	<b>5.149</b>
2002-03	N.A.	N.A.	N.A.	N.A.	<b>4.406</b>
2003-04	3.918	1.058	0.463	0.000	<b>5.439</b>
2004-05	3.611	1.101	0.633	0.000	<b>5.345</b>
2005-06	3.880	1.121	0.565	0.000	<b>5.566</b>
2006-07	3.046	1.175	0.566	0.000	<b>5.787</b>
2007-08	4.360	1.370	0.811	0.000	<b>6.541</b>
2008-09	2.891	1.004	1.594	0.000	<b>5.489</b>
2009-10	3.722	1.562	0.483	0.000	<b>5.767</b>
2010-11	4.743	1.940	0.291	0.000	<b>6.974</b>
2011-12	4.622	2.108	0.476	0.000	<b>7.206</b>

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 /Despatches of  
Meghalaya coal during 2011-12  
( '000 Tonnes )

<b>Month</b>	<b>Production</b>
April'11	714
May'11	644
June'11	303
July'11	262
August'11	250
September'11	259
October'11	485
November'11	708
December'11	848
January'12	876
February'12	958
March'12	899
<b>Total</b>	<b>7206</b>

**ABBREVIATIONS**

O.C.	OPENCAST
U.G.	UNDERGROUND

**COAL COMPANY :**

APMDTCL	Arunachal Pradesh Mineral Development & Trading Corp. Ltd. - Public - Non Captive
BCCL	Bharat Coking Coal Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
BECML	Bengal Emta Coal Mines Limited - Private - Captive
BLA	BLA Industries Limited - Private - Captive
BS ISPAT	B. S. Ispat Limited - Private - Captive
CCL	Central Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
CML	Castron Mining Limited - Private - Captive
DVC	Damodar Valley Corporation - Public - Captive
DVC EMTA	D. V. C. Emta Coal Mines Limited - Public - Captive
ECL	Eastern Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
ESCL	Electro Steel Casting Limited - Private - Captive
HIL	Hindalco Industries Limited - Private - Captive
ICML	Integrated Coal Mining Limited - Private - Captive
IISCO	Indian Iron & Steel Company Limited - Public - Captive
JKML	Jammu & Kashmir Minerals Limited - Public - Non Captive
JNL	Jayswal Neco Limited - Private - Captive
JPL	Jindal Power Open Cast Coal Mine - Private - Captive
JSMDCL	Jharkhand State Mineral Development Corporation Limited - Public - Non Captive
JSPL	Jindal Steel & Power Limited - Private - Captive
KEMTA	Karnataka Emta-Private-Captive
MCL	Mahanadi Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
MIL	Monnet Ispat Limited - Private - Captive
NCL	Northern Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
NEC	North Eastern Coalfields (Coal India Ltd. Subsidiary) - Public - Non Captive
PANEM	PANEM Coal Mines Limited - Private - Captive
PIL	Prakash Industries Limited - Private - Captive
SAIL	Steel Authority of India Limited - Public - Captive
SCCL	Singareni Collieries Company Limited - Public - Non Captive
SECL	South Eastern Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
SEML	Sarda Energy & Minerals Limited - Private - Captive
SIL	Sunflag Iron & Steel Company Limited - Private - Captive
TSL	Tata Steel Company Limited - Private - Captive
UML	Usha Martin Limited - Private - Captive
WBPDCCL	West Bengal Power Development Corporation Limited - Public - Captive
WCL	Western Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive

**LIGNITE COMPANY :**

GHCL	Gujarat Heavy Chemical Limited - Private - Captive
GIPCL	Gujarat Industries Power Company Limited - Public - Captive
GMDCL	Gujarat Mineral Development Corporation Limited - Public - Non Captive
NLC	Neyveli Lignite Corporation Limited - Public - Non 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.
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