



कोल डाइरेक्टरी ऑफ इंडिया
COAL DIRECTORY OF INDIA
2015-16



कोयला सांखिकी
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 2015-16

Coal Statistics



सत्यमेव जयते

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

COAL DIRECTORY OF INDIA 2015-16



For any enquiry and suggestion please write to:-

Coal Controller's Organisation
1, Council House Street
Kolkata – 700 001
Tel: 91-33-2248-9616, 91-33-2248-8225
Fax : 91-33-2248-2459
E-mail : coalcont-wb@nic.in

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 through highly sophisticated techniques. Coal liquefaction is one of the backstop technologies that could potentially limit escalation of oil prices and also coal will have a key role to discharge in the global energy mix.

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

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

The data presented in this Directory have been collected from different coal/lignite companies through a format designed by the Coal Controller's Organisation. We are grateful to different data supply agencies viz., all CIL Subsidiaries, SCCL and other coal companies, SAIL Units, Geological Survey of India (GSI), Directorate General of Commercial Intelligence Statistics (DGCI&S), Central Statistics Office (CSO), Central Electricity Authority (CEA), Cement Manufacturer's Association and International Energy Agency (IEA) for providing useful information so as to make the ***Coal Directory of India 2015-16*** 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 :
April, 2017


(Anjani Kumar)
Coal Controller

Team Associated with the Publication

Sri Anjani Kumar	Coal Controller
Sri Sudip Kr. Ray	Deputy Director General
Sri Anupam Lahiri	Director
Sri Indradeep Roy Chowdhury	Deputy Director
Dr. Sujoy Majumder	Officer on Special Duty
Sri Kingshuk Mukhopadhyay	Officer on Special Duty(Project)
Sri Goutam Bandyopadhyay	Accountant
Sri Sukumar Das	Assistant
Sri Sumanta Biswas	UDC
Miss Manashi Goswami	Jr. Computor
Sri Sachin Kumar	LDC
Mrs Ruma Nayak	UDC
Miss Shreya Banerjee	UDC
Mrs Sima Guha Ray	UDC

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Section I

A. Historical Perspective

1.1 Coal Sector in India

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

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

1.1.3 Since 1920, a number of commissions & committees made observations on the question of conservation and winning of coal, safety of mines etc. which led to introduction of regulations and controls of the coal industry, in some form or other, in India. All the regulations and controls were directed towards state ownership of the coal mines in the country. Singareni Collieries Company Limited (SCCL) established in 1920 as a public limited company, has the distinction of being the first Government owned Coal Company in the country in 1945. In fact, in 1945, Nizam of Hyderabad bought majority of the shares of the company and brought the company under

the State of Hyderabad. From 1945 to 1949, the Hyderabad Construction Company Limited worked as Managing Agent of SCCL. In 1949 this function was entrusted to Industrial Trust Fund by the then Government of Hyderabad. Pursuant to the reorganization of States in 1956, the controlling interest of the company devolved on the Government of Andhra Pradesh. Thus, SCCL became a Government Company under the Companies Act in 1956. SCCL is now a joint undertaking of Government of Andhra Pradesh and Government of India sharing its equity in 51:49 ratio.

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

1.2 Nationalisation of Coal Mines.

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

1.2.2 The nationalisation was done in two phases, the first with the nationalization of the coking coal mines in 1971-72 and then with the nationalization of the non-coking coal mines in 1973. The Coking Coal Mines

(Emergency Provisions) Ordinance was promulgated by the Government of India on 16.10.1971 under which except the captive mines of TISCO and IISCO, the management of all coking coal mines was taken over by the Government. A new company called Bharat Coking Coal Limited was formed as a subsidiary company of Steel Authority of India Limited to manage the taken over mines. These mines were subsequently nationalised w.e.f. 1.5.1972. Later on the management of 711 non-coking 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 VIIIth Five year Plan, the Government decided to allow private participation in the power sector. The Coal Mines

(Nationalisation) Act, 1973 was amended on 9th June 1993 to allow coal mining by both private and public sectors for captive consumption for production of iron and steel, generation of power, washing of coal obtained from a mine and other end use, which would be notified by the Government from time to time. While cement production was allowed as an end use on w.e.f 05.03.1996, latest amendment on 12.07.2007 made production of Syn-gas obtained from coal gasification and coal liquefaction also as an end use. The restriction of captive mining does not apply to state-owned coal/mineral development undertakings like CIL, SCCL, Neyveli Lignite Corporation (NLC) coal blocks etc. and Mineral Development Corporations of the State Governments.

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

1.3.3 The policy of the allotment of Captive Coal Blocks was adopted by the Government of India in the year 1993 and as per this policy by the end of 2013-14, out of total allocated of 218 coal blocks, 87 coal blocks were de-allocated due to non-performance and 7 blocks have been reallocated resulting 138 coal blocks and 28 lignite blocks remained allocated under the category of Captive Coal Block by the end of 2013-14. During the year 2014-15 by virtue of judgment dated 25.08.2014 read with the order dated 24.09.2014 of the Hon'ble Supreme Court of India, out of 218 captive coal blocks, allocation of 204 coal blocks

were cancelled except allocation of 12 coal blocks for UMPPs and one coal block each allocated to NTPC and SAIL (i.e. a total of 14 Blocks).

Further, allocation of four(4) coal blocks for UMPPs, namely, Chhatrasal coal block cancelled on 07.05.2015 and Meenakshi, Meenakshi B and Dip side of Meenakshi blocks of UMPP cancelled on 15.12.2015. As such as on date 10 coal blocks allocated through earlier dispensations stand allocated.

1.3.4 Subsequent to the order of the Hon'ble Supreme Court of India, 42 nos. of producing coal blocks [Schedule II coal mines as per the Coal Mines (Special Provisions) Ordinance, 2014 replaced by the Coal Mines (Special Provision) Act, 2015 were allowed to produce coal up to 31.03.2015. Thus total number of blocks stand allocated from 25.09.2014 to 31.03.2015 was 52 [42 + 10 earlier coal blocks].

As per Coal Mines (Special Provisions) Act, 2015, allocation of Schedule-I coal mines started by way of Public Auction or on the basis of Competitive Bids for Tariff. Up to 31.03.2016 re-allocation (either vested or allotted) was done in respect of 66 coal blocks. 07 nos. of coal blocks have been given to Coal India Limited and 01 block has been given to OCL Iron & Steel Ltd as Custodian, but only 02 blocks (Gare Palma IV/2 & 3) have started production.

In 2015-16, Moher, Moher Amlori block which was not cancelled continued production, 08 coal blocks vested/allotted started production and 02 blocks under custodian of CIL also started production. From these 12 coal blocks, the production of coal is 31.101 MT in 2015-16.

Under the "Auction by Competitive Bidding Rules, 2012", 10 regionally explored coal blocks have been allotted to Central/State Government companies.

Therefore, as on 31.03.2016, numbers of coal blocks stand exist as 94 (vested/allotted -66 + Custodian - 08 +

Under Auction by Competitive Bidding Rules, 2012 – 10 and blocks not cancelled – 10).

1.4 Distribution and Marketing of Coal

1.4.1 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 satisfactory 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 tonnes. E-auction scheme has also been introduced to cater to some demands through e-auction.

1.4.2 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/ Fertilizers/ 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.

1.5 Import of Coal

1.5.1 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.

1.6 Notified Price of Coal

1.6.1 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

1.7 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.

1.8 Classification of Coal

1.8.1 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

1.8.2 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.

1.8.3 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.

1.8.4 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.

1.8.5 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.

1.8.6 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.

1.9 Classification of Coal in India

1.9.1 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.

1.9.2 **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.

1.9.3 **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.

1.9.4 **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.

1.9.5 **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.

1.9.6 **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.

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

1.10 Categorisation of Coal in India

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

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

1.10.2 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%

1.10.3 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.

1.10.4 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 & 7000
G3	GCV between 6401 & 6700
G4	GCV between 6101 & 6400
G5	GCV between 5801 & 6100
G6	GCV between 5501 & 5800
G7	GCV between 5201 & 5500
G8	GCV between 4901 & 5200
G9	GCV between 4601 & 4900
G10	GCV between 4301 & 4600
G11	GCV between 4001 & 4300
G12	GCV between 3700 & 4000
G13	GCV between 3400 & 3700
G14	GCV between 3101 & 3400
G15	GCV between 2801 & 3100
G16	GCV between 2501 & 2800
G17	GCV between 2201 & 2500

1.10.5 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.

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

1.11 Some General Concepts

1.11.1 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.

1.11.2 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.

1.11.3 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.

1.11.4 Stripping Ratio : In mining, stripping ratio or strip ratio refers to the ratio of the volume of overburden (waste materials) required to be handled in order to extract some tonnage of coal. For example, a 3:1 stripping ratio means that mining one tonne of coal will require mining three tonnes of waste materials. This is a phenomenon related to mainly Opencast (OC) mining which requires removal of overburden prior to extraction of coal. Underground mining operations tend to have lower stripping ratio due to increased selectivity.

1.11.5 Output per Man Shift (OMS) : Productivity means ratio between input and output and can be interpreted in different ways by different people. To some people, it is output per man shift (OMS). To the production people, it is actual return from plants, machineries of productivity of machineries.

1.11.6 Despatch and Off-take: The term "Despatch" (say, of raw coal) is used in this compilation to mean all the despatch of coal to different sectors but exclude collieries' own consumption (boiler coal used in collieries and supply to employees). On

the other hand "Off-take" means total quantity of raw coal used/ lifted for consumption and naturally includes collieries own consumption. Therefore,

Off-take = Despatch + Colliery Consumption

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

1.11.8 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.

1.11.9 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 base 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, The Singareni Collieries Companies Ltd. (SCCL), Jharkhand State Mineral Development Corporation Ltd. (JSMDC) and Jammu & Kashmir Mineral Ltd. (JKML).

1.11.9.1 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.

1.11.9.2 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.).

1.11.9.3 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.

1.11.9.4 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.

1.11.9.5 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.

1.12 Commodity Classification

1.12.1 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

In the year 2015-16, the total Production of Raw Coal in India is increased by 4.9% (from 609.179 MT in 2014-15 to 639.230 MT in 2015-16) and production of lignite decreased by 9.2% (from 48.270 MT in 2014-15 to 43.842 MT in 2015-16). [Ref : table 3.1]

1. The contribution of public sector and private sector in the production of Raw Coal in 2015-16 was as follows:

Sector	Coking	Non-Coking	Total Coal
Public	54.662	552.015	606.677
Private	6.225	26.328	32.553
All India	60.887	578.343	639.230

[Ref : Table 3.8]

2. The production of coking coal in 2015-16 was 60.887 MT whereas it was 57.446 MT in 2014-15, thus 6.00% growth over 2014-15. The corresponding figure for non-coking coal was 578.343 MT and 551.733 MT during 2015-16 and 2014-15 respectively, marked 4.82% growth over 2014-15. [Ref Table: 3.8].
3. The production of washed coal (coking) in 2015-16 was 6.182 MT compared to 6.070 MT in 2015-16, thus 1.85% increase over 2014-15 and middling (coking) was 5.525 MT in 2015-16 compared to 4.750 MT in 2014-15, increase by 16.32% over 2014-15). [Ref Table: 3.3]
4. During 2015-16, Odisha registered highest coal production of 138.461 MT (21.7%) followed by Chhattisgarh 130.605 MT (20.4%) and Jharkhand 121.067 MT (18.9%). Tamil Nadu was the largest producer of lignite and produced 24.227 MT (55.3%) followed by Gujarat 10.123 MT (23.1%) and Rajasthan 9.492 MT (21.7%). [Ref Table: 3.6 & 3.7]
5. The contribution of Coal India Limited in the coal production of 2015-16 was 538.754 MT (84.3%) and that of SCCL was 60.380 MT (9.5%). During the period 2015-16, Neyveli Lignite Corporation contributed 25.451 MT (58.1%) to the total lignite production of 43.842 MT in 2015-16. [Ref Table: 3.8]
6. During 2015-16, as the highest coking coal producing state in India Jharkhand produced 58.548 MT(96.2%) and as the highest non-coking coal producing state Odisha produced 138.461 MT (23.9 %). [Ref Table: 3.9]
7. Around 92.74% of coal production of India in 2015-16 was from opencast mines (592.822 MT) and the rest 7.26% was from underground mines (46.408 MT). [Ref Table:-3.16]
8. During 2015-16, SECL produced highest quantity of coal from underground i.e. 15.507 MT (33.41%) followed by SCCL which produced 10.653 MT (22.96%). [Ref Table:3.17]
9. Overall Stripping Ratio for the year 2015-16 was 2.67 (Stripping Ratio is defined as the ratio of Over Burden Removal to Coal produced in Open Cast mining.) [Ref table 3.19]

10. Productivity (OMS) of underground mines for the year 2015-16 was 0.80 Tonnes for CIL and 1.25 Tonnes for SCCL. During 2015-16, OMS for opencast mines for CIL was 15.35 Tonnes and of SCCL was 13.78 Tonnes. (OMS is the output measured in tonnes per unit of man-shift) [Ref table: 3.20].

(B) Despatch

1. In the year 2015-16, despatch of indigenous raw coal was 632.442 MT against the corresponding figure of 603.772 MT in 2014-15 (increase of 4.8% over 2014-15). Lignite despatch was 42.211 MT in 2015-16 against the corresponding figure of 46.954 MT during 2014-15 (decreased of 10.10% over 2014-15). [Ref table: 4.1]
2. The contribution of public sector and private sector in the despatch of Raw Coal in 2015-16 was as follows: [Ref table: 4.8]

Despatch of Raw Coal in 2015-16 (MT)			
Sector	Coking	Non-coking	Total Coal
Public	52.988	547.318	600.306
Private	6.225	25.911	32.136
All India	59.213	573.229	632.442

3. Despatch of coking coal increased to 59.213 MT in 2015-16 from 56.438 MT in 2014-15 (increase of 4.9% over the previous year). [Ref : Table 4.8].
4. Despatch of metallurgical coal increased to 13.866 MT in 2015-16 from 13.264 MT in 2014-15 (increase of 4.5% over previous year). [Ref table:4.2]
5. Despatch of non-coking coal increased to 573.229 MT in 2015-16 from 547.334 MT in 2014-15 (increase of 4.7% over previous year). [Ref table: 4.2]
6. In 2015-16, despatch of washed coal (coking) was 6.068 MT and middling (coking) was 5.735 MT whereas during 2014-15 despatch of washed coal (coking) was 6.080 MT and middling (coking) was 5.012 MT. [Ref table 4.3]
7. All coal producing states except Assam, Jammu & Kashmir, Jharkhand, Maharashtra and West Bengal showed growth in coal despatch resulting into a 4.8% growth in coal despatch during 2015-16. [Ref Table:-4.6]
8. In terms of coal despatch, Odisha had the highest share of 140.639 MT (22.2%) followed by Chhattisgarh 132.040 MT (20.9%) and Jharkhand 118.072 MT (18.7%). [Ref table: 4.6]
9. In case of lignite despatch, Tamil Nadu had the highest share of 22.493 MT (53.3%) followed by Gujarat 10.135 MT (24.0%) and Rajasthan 9.583 MT (22.7%). [Ref Table 4.7]
10. In 2015-16, CIL despatched 534.083 MT and SCCL 58.687 MT of coal. Among other PSUs largest share in coal despatch was of RRVUNL 6.210 MT. Despatch of coal from Private sector was 32.136 MT in which SPL had the largest share of 16.842 MT followed by TISCO of 6.233 MT. [Ref Table 4.8]

11. Power Sector (Utility) continued to be the largest user of coal. In 2015-16, coal despatched to this sector was 483.124 MT (76.35%) compared to 435.438 MT (72.1%) in 2014-15. Coal despatched to Cement sector was 8.985 MT in 2015-16 compared to 11.357 MT in 2014-15. Despatch to Steel Sector in 2015-16 was 12.273 MT against 12.021 MT in 2014-15. [Ref table 4.18]
12. In 2015-16, despatch of raw coal (external) by rail was 313.259 MT (52.3%) and by road 168.896 MT (28.2%). [Ref Table: 4.15]

(C) Pit Head Closing Stock

1. Pit-head closing stock of raw coal at the end of 2015-16 was 65.361 MT against 59.389 MT at the end of 2014-15. Closing Stock of lignite at the end of 2015-16 was 4.809 MT whereas it was 3.176 MT at the end of 2014-15. [Ref Table 5.1]. Out of total closing stock of 65.361 MT at the end of 2015-16, Public Sector accounted for 64.776 MT. [Ref Table 5.6]
2. Pit-head closing stock of coking coal was 8.724 MT at the end of 2015-16 against 6.964 MT at the end of 2014-15 and pit-head closing stock of non-coking coal was 56.637 MT at the end of 2015-16 against 52.425 MT at the end of 2014-15. [Ref Table 5.2].

(D) Import and Export

1. In 2015-16, total import of coal was 203.949 MT compared to 217.783 MT in 2014-15, a decrease of 6.35% over 2014-15. In 2015-16, import of coking coal was 44.561 MT compared to 43.715 MT in 2014-15, an increase of 1.93% over 2014-15. Import of non-coking coal was 159.388 MT in 2015-16 compared to 174.068 MT in 2014-15, a decrease of 8.43% over 2014-15. [Ref table 7.1]
2. In India coal was mainly imported from Indonesia (97.514 MT) followed by Australia (48.894 MT) and South Africa (36.901 MT), USA (5.815 MT). [Ref Table: 7.3]
3. Coal was mainly imported through Gangavaram Port (16.310 MT), Paradip Sea Port (15.901 MT), Mundra Port (13.632 MT), Visakhapatnam Sea Port (12.977 MT), Dharma Chandbali Port (12.631 MT). [Ref table 7.5]
4. In 2015-16, export of coal was 1.575 MT compared to 1.238 MT in 2014-15. Coal was mainly exported to Bangladesh (0.814 MT) and Nepal (0.559 MT). [Ref Table 7.4]
5. Coal was mainly exported through Borsora Port (0.517 MT), Panitanki Port (0.294 MT) and Chasuapara Port (0.160 MT). [Ref Table 7.6]

(E) Captive Coal block

1. In the year 2015-16, the total production of raw coal from captive coal blocks in India was 31.10 MT compared to 52.72 MT in 2014-15, resulting an decrease of 41.01% over 2014-15. During 2015-16, production of coal from coal blocks allocated for Power Sector was 25.67 MT over 37.93 MT coal produced in 2014-15. [Ref table 9.9(a) and 9.9(b)]

(F) Comparison between Provisional and Final figures

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

Year	Item	Production (Quantity in Million Tonnes)				Despatch (Quantity in Million Tonnes)			
		Coking Coal	Non-coking Coal	Total Coal	Lignite	Coking Coal	Non-coking Coal	Total Coal	Lignite
2011-12	Provisional	51.654	488.286	539.940	43.105	51.528	483.624	535.152	42.500
	Final	51.660	488.290	539.950	42.332	51.723	483.576	535.299	41.883
	Change (F-P)	0.01%	0.00%	0.00%	-1.79%	0.38%	-0.01%	0.03%	-1.45%
2012-13	Provisional	51.834	505.873	557.707	46.598	55.212	514.555	569.767	46.312
	Final	51.582	504.820	556.402	46.453	55.859	511.277	567.136	46.313
	Change (F-P)	-0.49%	-0.21%	-0.23%	-0.31%	1.17%	-0.64%	-0.46%	0.00%
2013-14	Provisional	56.818	508.948	565.766	44.271	58.302	512.949	571.251	43.897
	Final	56.818	508.947	565.765	44.271	58.464	513.596	572.060	43.897
	Change(F-P)	0.00%	-0.001%	-0.001%	0.00%	0.16%	0.64%	0.80%	0.00%
2014-15	Provisional	57.451	554.984	612.435	48.257	56.614	551.016	607.630	46.941
	Final	57.446	551.733	609.179	48.270	56.438	547.334	603.772	46.954
	Change (F-P)	0.00%	-0.59%	-0.53%	0.00%	-0.31%	-0.67%	-0.63%	0.00%
2015-16	Provisional	60.887	578.347	639.234	43.843	59.213	572.956	632.169	42.212
	Final	60.887	578.343	639.230	43.842	59.213	573.229	632.442	42.211
	Change (F-P)	0.00%	0.00%	0.00%	0.00%	0.00%	0.05%	0.04%	0.00%

N.B : F=Final , P=Provisional

(G) Geological Coal Reserve

As per Geological Survey of India, geological reserves of coal in India as on 01.04.2016 was 3,08,802 Million Tonnes for coal seams of 0.9^m and above in thickness and up to the 1200^m depth from surface. The type wise break up of coal reveals that reserve of coking coal (Prime, Medium and Semi-coking) was 34,404 Million Tonnes and non-coking coal was 2,74,398 Million Tonnes.

Total coal extracted since 1950 up to 2015-16 was around 13783.953 Million Tonnes.

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

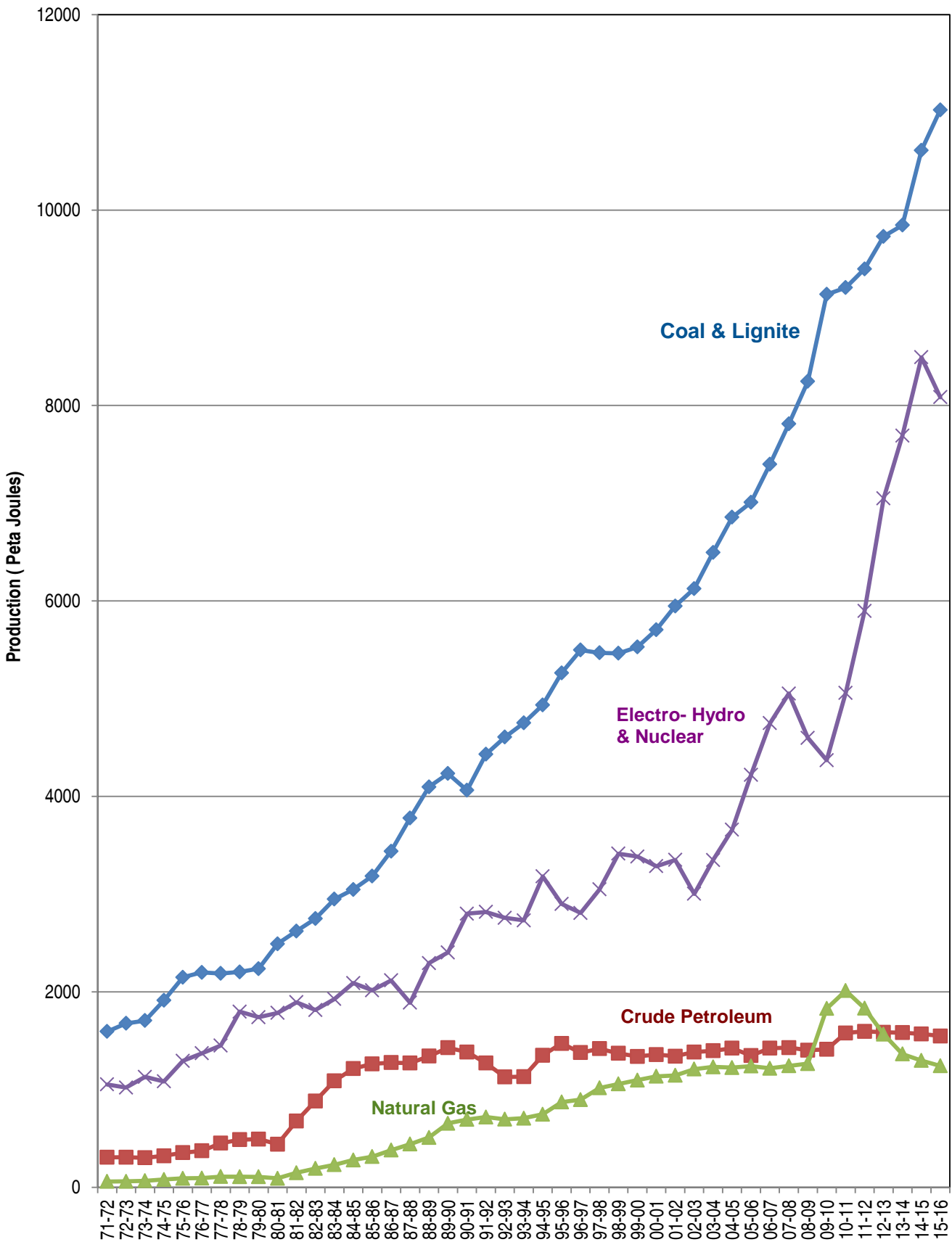


Table 1.1: INDIAN ECONOMY - SELECTED INDICATORS

Sl. No.	Indicator	Unit/base	2011-12	2012-13	2013-14	2014-15	2015-16
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	Geographical Area	M.Sq.Km.	3.29	3.29	3.29	3.29	3.29
2.	Population*	Million	1193	1208	1224	1239	1268
3.	Gross Domestic Product at factor cost (base 2011-12) :						
	(i) At current prices	Rs.Billion	87360	99513	112728	124882	136753
	(ii) At constant prices	"	87360	92269	98394	105522	113575
4.	Net National Income at factor cost (base 2011-12) :						
	(i) At current prices	Rs.Billion	77421	87746	99344	110076	120830
	(ii) At constant prices	"	77421	81095	86153	92350	99463
5.	Per Capita Net National Income :						
	(i) At current prices	Rupees	63460	71050	79412	86879	947178
6.	Foreign Exchange Reserves (as on 1st April -2016)						
	(i) Gold	US \$ Million	28128	293360	20978	19038	20115
	(ii) SDR	Mn. Of SDR	4449	4342	4458	4022	1502
	(iii) Foreign Exchange	US \$ Million	259741	260415	276406	318643	335869
7.	Foreign Trade :						
	(i) Import	Rs.Billion	20559.19	26691.62	30232.73	27370.87	24902.98
	(ii) Export	"	12747.75	16343.19	20543.68	18963.48	17163.78
	(iii) Balance of Trade	"	-7811.44	-10348.43	-96890.45	-8407.38	7739.20
8.	Index of Production :						
	(i) Industrial	2004-05=100	170.4	169.6	169.6	176.8	179.5
9.	Wholesale Price Index :	2004-05=100	156.0	168.0	172.7	181.2	176.7
10.	Consumer Price Index:						
	(i) Industrial Workers #	2001=100	192	209	232	247	261
	(ii) Agricultural Labourers	1986-87=100	602	652	735	788	825
	(iii) Urban non-manual workers	1984-85=100	-	-	-	-	-
11.	Fuel (gross)						
	Coal	Mn.Tonne	539.950	556.402	565.765	609.179	639.230
	Lignite	"	42.332	46.453	44.271	48.27	43.842
	Natural Gas	Bn.Cub.Mtr.	47.539	40.680	35.400	33.660	32.249
	Crude Oil	Mn.Tonne	38.090	37.860	37.776	37.460	36.950
	Petroleum Products(Incl RBF)	"	170.15	182.316	220.756	221.140	231.924
12.	Electricity Generated (Gr.)						
	(i) Utilities						
	Hydel	B.KWH	130.5	114.0	135.0	129.0	121.4
	Thermal	"	709.0	761.0	792.0	952.0	943.0
	Nuclear	"	32.0	33.0	34.0	36.0	37.4
	Total	"	871.5	908.0	961.0	1117.0	1167.6
	(ii) Non-utilities	"	134.0	148.0	169.0	162.0	0.0
	Grand Total	"	1005.5	1056.0	1130.0	1279.0	1167.6

: calender year basis, Q : Quick Estimates.

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

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

* Population is calculated based on Calender Year.

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

Sl. No.	Item	Unit	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	Reserves (Proved)							
	(i) Coking Coal	Mn.Tonne	17,669	17,933	18,365	18,399	18,003	34,403
	(ii) Non Coking	"	96,333	1,00,211	1,04,816	1,07,509	2,72,192	2,74,398
	(iii) Lignite	"	6,146	6,181	6,181	6,181	6,182	6,182
2	Consumption							
	(i) Coal	Mn.Tonne	589.874	638.923	710.433	739.342	822.131	639.230
	(ii) Lignite	"	37.688	41.883	46.313	43.897	46.954	42.211
	(iii) Coal Products*	"	42.069	43.865	43.867	43.554	46.146	43.020
3	Production :							
	(i) Coal	Mn.Tonne	532.694	539.950	556.402	565.765	609.179	639.230
	(ii) Lignite	"	37.733	42.332	46.453	44.271	48.270	43.842
	(iii) Coal Products*	"	40.244	39.241	41.723	43.758	46.146	43.194
4	Imports							
	(a) Qty : Coal	Mn.Tonne	68.918	102.853	145.785	168.439	217.783	203.949
	Coal Products	"	1.490	2.365	3.081	4.193	3.294	3.072
	Total (a)	"	70.408	105.218	148.866	172.632	221.077	207.021
	(b) Value: Coal	Rs.Million	415496	788376	868455	932929	1045066	860338
	Coal Products	"	31204	47585	56919	68343	43806	32684
	Total (b)	"	446699	835961	925374	1001272	1088872	893021
5	Exports							
	(a) Qty : Coal	Mn.Tonne	4.409	2.032	2.443	2.152	1.238	1.575
	Coal Products	"	0.650	0.613	1.201	0.173	0.102	0.149
	Total (a)		5.059	2.645	3.644	2.325	1.340	1.724
	(b) Value: Coal	Rs.Million	12641	5900	8651	10187	7197	8998
	Coal Products	"	9912	11525	6017	1504	1140	1494
	Total (b)		22554	17425	14668	11691	8337	10492
6	Unit Value of coal imports (gr.)	Rs./Tonne	6029	7665	5957	5539	4799	4218
7	India's Total Exports	Rs.Million	11426489.7	13970200	16343188	18736494	18963484	17088414
8	India's Total Imports	Rs.Million	16834669.6	22475600	26691620	26976116	27370866	24813672
9	(i) Coal imports as percentage of India's total import	%	2.7	3.7	3.5	3.7	4.0	3.6
	(ii) Coal exports as percentage of India's total export	%	0.2	0.1	0.1	0.1	0.0	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)
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	33690	1411	47496	1830	125680	4370	16747
10-11	570427	9207	37684	1578	52219	2011	140523	5059	17855
11-12	582282	9398	38090	1595	47559	1832	163797	5897	18722
12-13	602855	9730	37862	1585	40679	1567	195801	7049	19931
13-14	610036	9846	37788	1582	35407	1364	213666	7692	20484
14-15	657449	10611	37461	1568	33656	1296	235945	8494	21970
15-16	683072	11025	36950	1547	32249	1242	224572	8085	21899

* 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 & Natural Gas Statistics

TABLE-1.4: TOTAL PRIMARY SUPPLY (TPS) OF COAL & LIGNITE : 2006-07 to 2015-16

(Quantity in Million Tonnes)

Year	Fuel type	Production	Imports	Exports	Net Import	Opening Stock	Closing Stock	Stock Change (Opening - Closing)	T P S
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
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	2.014	100.839	72.192	74.040	-1.848	638.941
	Lignite	42.332				0.610	1.051	-0.441	41.891
	Total	582.282	102.853	2.014	100.839	72.802	75.091	-2.289	680.832
2012-13	Coal	556.402	145.785	2.443	143.342	74.040	63.049	10.991	710.735
	Lignite	46.453				1.051	1.493	-0.442	46.011
	Total	602.855	145.785	2.443	143.342	75.091	64.542	10.549	756.746
2013-14	Coal	565.765	166.857	2.188	164.669	63.049	55.514	7.535	737.969
	Lignite	44.271				1.493	1.860	-0.367	43.904
	Total	610.036	166.857	2.188	164.669	64.542	57.374	7.168	781.873
2014-15	Coal	609.179	217.783	1.238	216.545	55.514	59.389	-3.875	821.849
	Lignite	48.270				1.860	3.176	-1.316	46.954
	Total	657.449	217.783	1.238	216.545	57.374	62.565	-5.191	868.803
2015-16	Coal	639.230	203.949	1.575	202.374	59.389	65.361	-5.972	835.632
	Lignite	43.842	0.001	0.001	0.001	3.176	4.809	-1.633	42.210
	Total	683.072	203.950	1.576	202.375	62.565	70.170	-7.605	877.842

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 2016, 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 2016, in situ geological resources of coal in India up to a depth of 1200 meters is 308.802 Billion Tonnes (BT) which includes proved, indicated and inferred resources. Out of the total geological resources, 94.86% of the geological resources are shared by six states, namely, Jharkhand (26.28%), Odisha (24.57%), Chhattisgarh (18.14%), West Bengal (10.21%), Madhya Pradesh (8.71%) and Telangana (6.93%).

2.4.2 Out of the total resource of 308.802 BT as on 1st April, 2016, the share of proved, indicated and inferred resources are 138.087 BT (44.71%), 139.151 BT (45.06%) and 31.564 BT (10.22%) respectively.

2.4.3 In the total resources, the share of Prime Coking was 1.72%, Medium Coking was 8.86%, Blendable / Semi Coking was 0.55% and Non- Coking (Including High Sulphur) was 88.85%. It is to be noted that the increase in the total resource from 2015 to 2016 was noticed mainly in case of Non-coking coal.

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

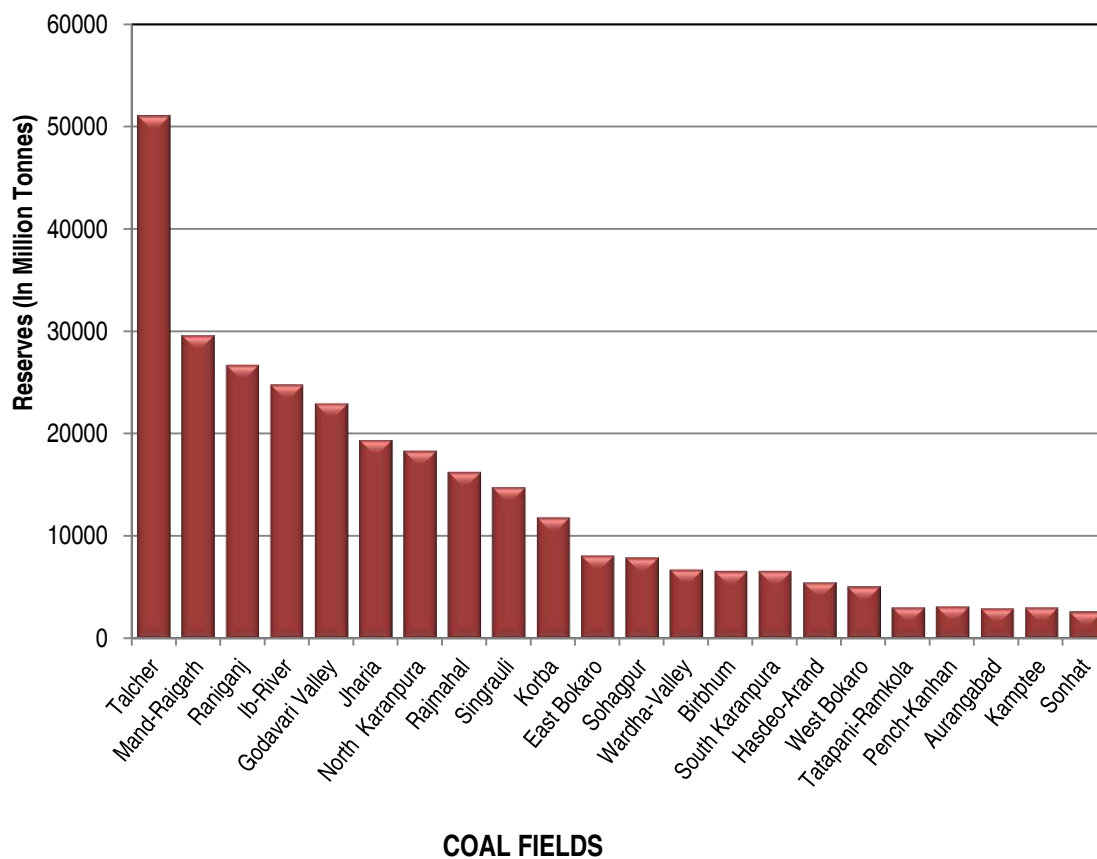
2.5.1 Total lignite resources in the country as on 1st April 2016 was 44.595 Billion Tonnes (BT) which includes proved, indicated and inferred resources. Out of the total lignite resources 98.97% was shared by three major states, namely, Tamil Nadu (80.00%), Rajasthan (12.86%) and Gujarat (6.10%).

2.5.2 Information on agency wise and Coal Company command area wise promotional drilling and detailed drilling achievement during the IXth, Xth, XIth and XIIth plan period are reported in **Tables 2.8** and **Table 2.9**.

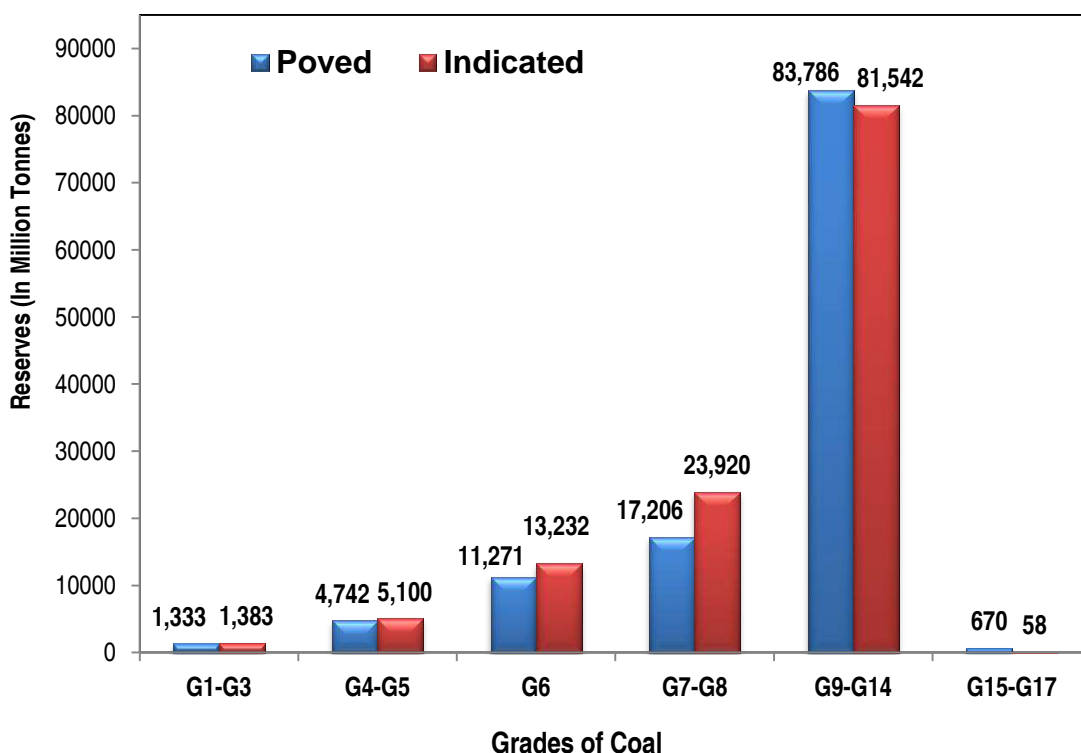
2.6 The different exploration stages and agencies involved in the exercise are summarized below for easy comprehension of the readers.

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.

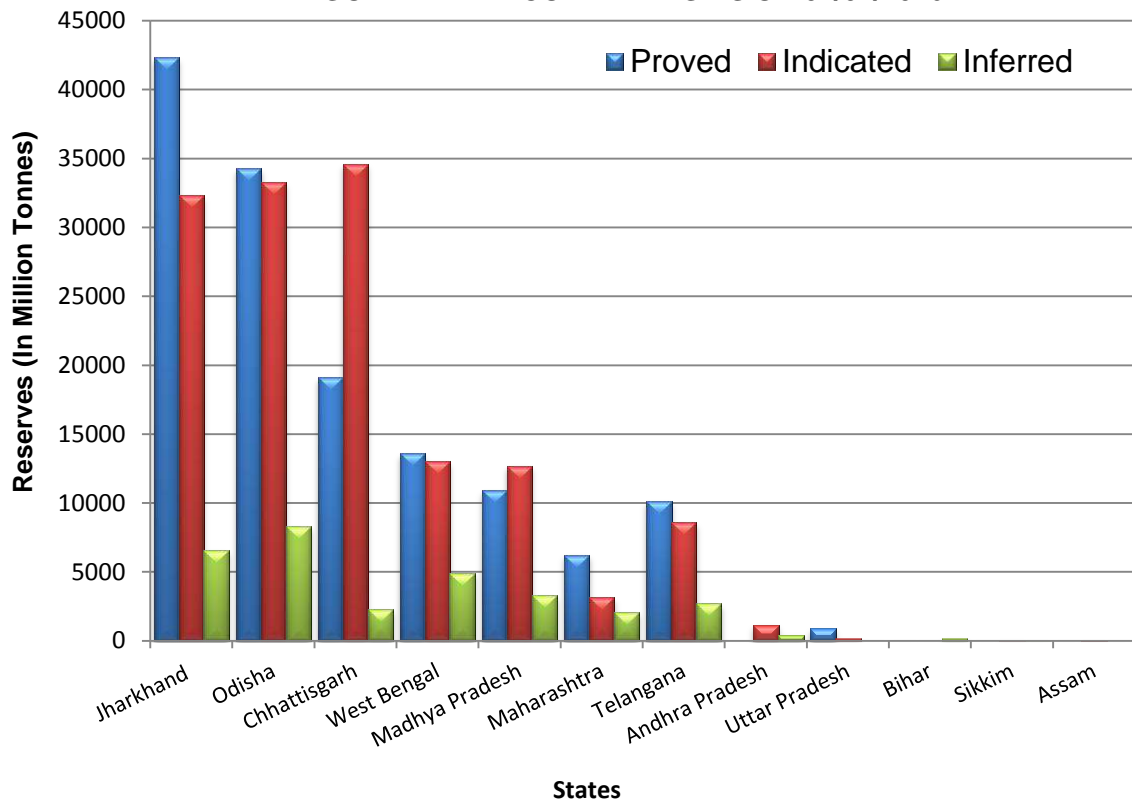
Ch. 2.1: GEOLOGICAL COAL RESERVE IN MAJOR INDIAN COALFIELDS AS ON 01/04/2016



Ch. 2.2: GRADEWISE GEOLOGICAL RESERVE OF NON-COKING COAL IN GONDAWANA COALFIELDS AS ON 01/04/2016



Ch.2.3: STATE WISE GEOLOGICAL RESERVE OF INDIAN COAL IN GONDAWANA COALFIELDS AS ON 01/04/2016



Ch. 2.4: STATE WISE GEOLOGICAL RESERVE OF INDIAN COAL IN TERTIARY COALFIELDS AS ON 01/04/2016

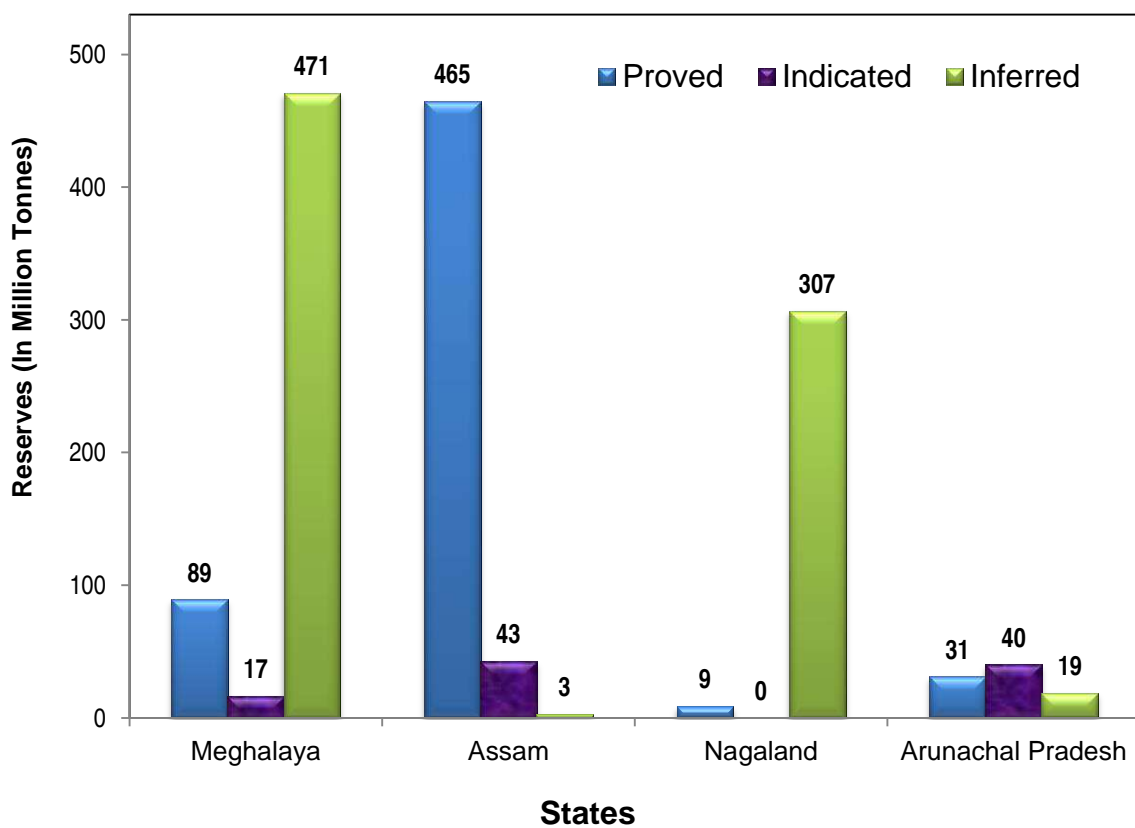
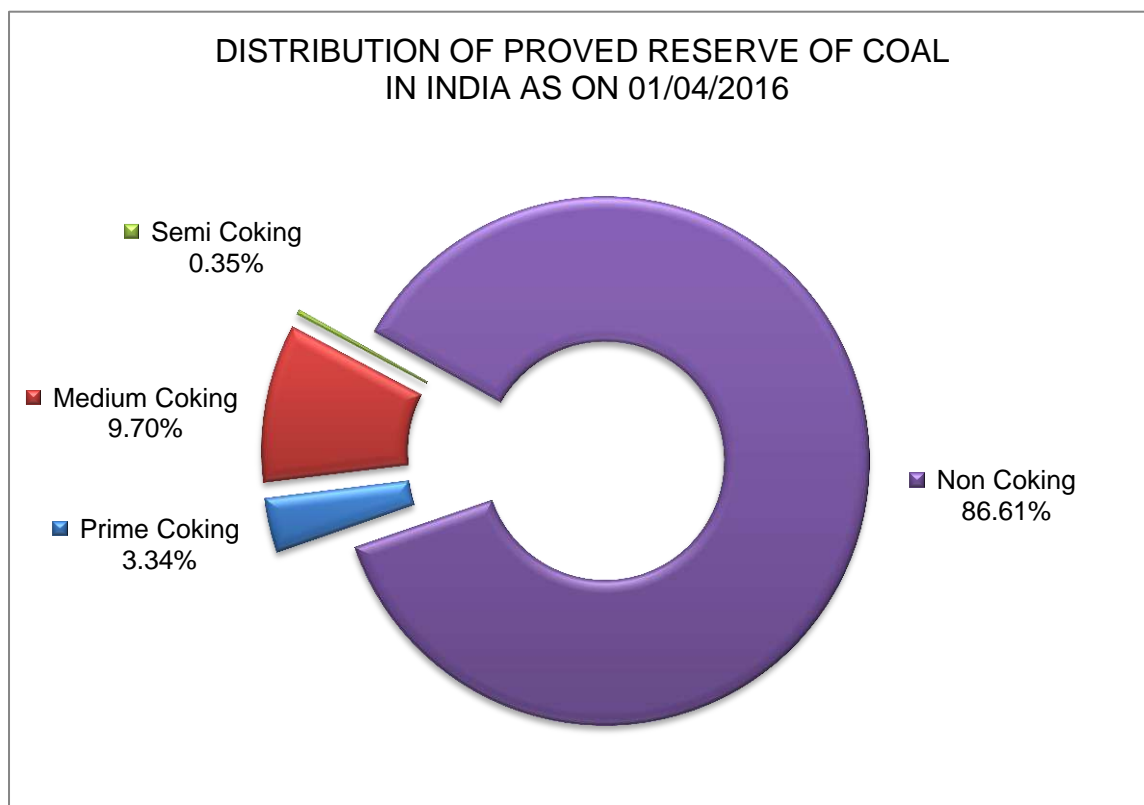


TABLE - 2.1: INVENTORY OF GEOLOGICAL RESERVE OF COAL BY TYPE AS ON 1st APRIL 2014, 2015 & 2016

Type of Coal (1)	As on (2)	Reserve (Quantity in Million Tonnes)			
		Proved (3)	Indicated (4)	Inferred (5)	Total (6)
Prime Coking	01/04/2014	4,614	699	0.00	5,313
	01/04/2015	4,614	699	0.00	5,313
	01/04/2016	4,614	699	0.00	5,313
Medium Coking	01/04/2014	13,303	11,867	1,879	27,049
	01/04/2015	13,389	12,114	1,879	27,382
	01/04/2016	13,389	12,114	1,879	27,382
Blendable / Semi Coking	01/04/2014	482	1,004	222	1,708
	01/04/2015	482	1,004	222	1,708
	01/04/2016	482	1,004	222	1,708
Non Coking (Including High Sulphur)	01/04/2014	1,07,509	1,28,937	31,047	2,67,494
	01/04/2015	1,13,129	1,29,425	29,638	2,72,192
	01/04/2016	1,19,602	1,25,335	29,462	2,74,398
Total	01/04/2014 *	1,25,909	1,42,506	33,148	3,01,564
	01/04/2015 *	1,31,614	1,43,241	31,739	3,06,596
	01/04/2016 *	1,38,087	1,39,151	31,563	3,08,802



* Including Sikkim

Source: Geological Survey of India

TABLE - 2.2: STATEWISE INVENTORY OF GEOLOGICAL RESOURCES OF COAL AS ON 1st APRIL 2014, 2015 & 2016

(Quantity in Million Tonnes)

State	As on	Resources				State	As on	Resources			
		Proved	Indicated	Inferred	Total			Proved	Indicated	Inferred	Total
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)
GONDAWANA COALFIELDS						TERTIARY COAL FIELDS					
ASSAM	1/4/2014	0	4	0	4	ARUNACHAL	1/4/2014	31	40	19	90
	1/4/2015	0	4	0	4	PRADESH	1/4/2015	31	40	19	90
	1/4/2016	0	14	0	14		1/4/2016	31	40	19	90
ANDHRA PRADESH	1/4/2014	9,729	9,670	3,068	22,468	ASSAM	1/4/2014	465	43	3	511
	1/4/2015	0	1,149	432	1,581		1/4/2015	465	43	3	511
	1/4/2016	0	1,149	432	1,581		1/4/2016	465	43	3	511
JHARKHAND	1/4/2014	41,377	32,780	6,559	80,716	MEGHALAYA	1/4/2014	89	17	471	576
	1/4/2015	41,463	33,026	6,559	81,049		1/4/2015	89	17	471	576
	1/4/2016	42,323	32,301	6,548	81,172		1/4/2016	89	17	471	576
BIHAR	1/4/2014	0	0	160	160	NAGALAND	1/4/2014	9	0	307	315
	1/4/2015	0	0	160	160		1/4/2015	9	0	307	315
	1/4/2016	0	0	160	160		1/4/2016	9	0	307	315
MADHYA PRADESH	1/4/2014	10,411	12,382	2,879	25,673	TERTIARY	1/4/2014	594	99	799	1,493
	1/4/2015	10,411	12,784	3,341	26,536	Coalfields	1/4/2015	594	99	799	1,493
	1/4/2016	10,918	12,696	3,293	26,907		1/4/2016	594	99	799	1,493
CHHATTISGARH	1/4/2014	16,052	33,253	3,228	52,533	INDIA	1/4/2014	1,25,909	1,42,506	33,148	3,01,564
	1/4/2015	18,237	34,390	2,285	54,912		1/4/2015	1,30,959	1,43,968	32,003	3,06,931
	1/4/2016	19,136	34,614	2,287	56,036		1/4/2016	1,38,087	1,39,151	31,564	3,08,802
MAHARASHTRA	1/4/2014	5,667	3,186	2,110	10,964	Singrimari coalfield of Assam (Non-Coking) is included in Gondawana coalfield, not considered in Tertiary coalfields.					
	1/4/2015	5,953	3,190	2,110	11,253						
	1/4/2016	6,208	3,151	2,077	11,436						
ODISHA	1/4/2014	27,791	37,873	9,408	75,073						
	1/4/2015	30,747	36,545	8,507	75,799						
	1/4/2016	34,295	33,284	8,318	75,896						
SIKKIM	1/4/2014	0	58	43	101						
	1/4/2015	0	58	43	101						
	1/4/2016	0	58	43	101						
UTTAR PRADESH	1/4/2014	884	178	0	1,062						
	1/4/2015	884	178	0	1,062						
	1/4/2016	884	178	0	1,062						
TELANGANA	1/4/2015	9,807	9957	3029	22,792						
	1/4/2016	10,128	8,586	2,700	21,415						
WEST BENGAL	1/4/2014	13,403	13,022	4,893	31,318						
	1/4/2015	12,864	12,588	4,739	30,190						
	1/4/2016	13,602	13,021	4,907	31,529						
GONDAWANA	1/4/2014	1,25,315	1,42,407	32,350	3,00,072						
	1/4/2015	1,30,366	1,43,869	31,204	3,05,440						
	1/4/2016	1,37,493	1,39,052	30,764	3,07,309						

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 01-04-2016)

State	Field	Type of Coal	Depth (Mt.)	Reserve (Quantity in Million Tonnes)				
				Proved	Indicated	Inferred	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
WEST BENGAL	RANIGANJ	Medium Coking	0-300	202.89	0.00	0.00	202.89	
		Medium Coking	300-600	72.66	0.00	0.00	72.66	
		Medium Coking	600-1200	274.87	0.00	0.00	274.87	
		Semi Coking	0-300	45.75	14.19	0.00	59.94	
		Semi Coking	300-600	109.51	113.23	23.48	246.22	
		Semi Coking	600-1200	32.79	305.07	144.75	482.61	
		Non Coking	0-300	10020.09	1676.60	267.80	11964.49	
		Non Coking	300-600	2336.53	3316.86	2096.32	7749.71	
		Non Coking	600-1200	306.16	1851.06	1494.87	3652.09	
		TOTAL			13401.25	7277.01	4027.22	24705.48
		BARJORA	Non Coking	0-300	200.79	0.00	0.00	200.79
		BIRBHUM	Non Coking	0-300	0.00	818.42	114.98	933.40
			Non Coking	300-600	0.00	3727.70	575.54	4303.24
			Non Coking	600-1200	0.00	1197.38	174.05	1371.43
			TOTAL			0.00	5743.50	864.57
		DARJEELING	Non Coking	0-300	0.00	0.00	15.00	15.00
	WEST BENGAL	TOTAL	Medium Coking	0-1200	550.42	0.00	0.00	550.42
	WEST BENGAL	TOTAL	Semi Coking	0-1200	188.05	432.49	168.23	788.77
	WEST BENGAL	TOTAL	Non Coking	0-1200	12863.57	12588.02	4738.56	30190.15
	WEST BENGAL	TOTAL	ALL	0-1200	13602.04	13020.51	4906.79	31529.34
JHARKHAND	RANIGANJ	Medium Coking	0-300	220.00	8.87	0.00	228.87	
		Medium Coking	300-600	49.23	8.30	0.00	57.53	
		Semi Coking	0-300	51.40	0.00	0.00	51.40	
		Semi Coking	300-600	0.00	40.00	0.00	40.00	
		Non Coking	0-300	1111.53	89.32	29.55	1230.40	
		Non Coking	300-600	106.03	320.07	2.00	428.10	
		TOTAL			1538.19	466.56	31.55	2036.30
		JHARIA	Prime Coking	0-600	4039.41	4.01	0.00	4043.42
	Prime Coking		600-1200	574.94	694.70	0.00	1269.64	
	Medium Coking		0-600	4064.18	2.82	0.00	4067.00	
	Medium Coking		600-1200	296.30	1800.70	0.00	2097.00	
	Non Coking		0-600	5657.14	444.86	0.00	6102.00	
	Non Coking		600-1200	496.00	1355.00	0.00	1851.00	
	TOTAL				15127.97	4302.09	0.00	19430.06
		EAST BOKARO	Medium Coking	0-300	2618.33	1258.81	18.71	3895.85
	Medium Coking		300-600	407.44	1188.33	58.53	1654.30	
	Medium Coking		600-1200	255.93	1394.07	786.08	2436.08	
	Non Coking		0-300	95.17	56.81	0.00	151.98	
	Non Coking		300-600	8.90	5.69	0.00	14.59	
		TOTAL			3385.77	3903.71	863.32	8152.80

Contd....

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2016)

State	Field	Type of Coal	Depth (Mt.)	Reserve (Quantity in Million Tonnes)			
				Proved	Indicated	Inferred	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
JHARKHAND	WEST BOKARO	Medium Coking	0-300	2990.73	1116.32	28.66	4135.71
		Medium Coking	300-600	496.14	178.36	5.00	679.50
		Non Coking	0-300	268.57	9.37	0.00	277.94
		Non Coking	300-600	5.81	4.66	0.00	10.47
		TOTAL			3761.25	1308.71	33.66
	RAMGARH	Medium Coking	0-300	562.69	37.55	0.00	600.24
		Medium Coking	300-600	14.35	246.78	0.00	261.13
		Semi Coking	0-300	171.94	95.33	0.55	267.82
		Semi Coking	300-600	0.00	336.22	52.90	389.12
		Non Coking	0-300	7.13	26.20	4.60	37.93
		TOTAL			756.11	742.08	58.05
	NORTH KARANPURA	Medium Coking	0-300	485.08	1163.22	0.00	1648.30
		Medium Coking	300-600	23.59	1635.92	413.43	2072.94
		Non Coking	0-300	8606.67	2244.43	722.03	11573.13
		Non Coking	300-600	1103.56	1125.80	729.50	2958.86
		Non Coking	600-1200	90.74	0.00	0.00	90.74
		TOTAL			10309.64	6169.37	1864.96
	SOUTH KARANPURA	Medium Coking	300-600	0.00	248.04	32.83	280.87
		Medium Coking	600-1200	0.00	265.36	263.40	528.76
		Non Coking	0-300	2831.92	514.30	276.36	3622.58
		Non Coking	300-600	445.46	725.09	644.03	1814.58
		Non Coking	600-1200	2.25	134.69	252.51	389.45
		TOTAL			3279.63	1887.48	1469.13
	AURANGABAD	Non Coking	0-300	352.05	1241.22	43.07	1636.34
		Non Coking	300-600	0.00	867.01	423.07	1290.08
		Non Coking	600-1200	0.00	33.42	37.27	70.69
		TOTAL			352.05	2141.65	503.41
	HUTAR	Non Coking	0-300	190.79	14.22	32.48	237.49
		Non Coking	300-600	0.00	12.33	0.00	12.33
		TOTAL			190.79	26.55	32.48
	DALTONGUNJ	Non Coking	0-300	83.86	60.10	0.00	143.96
		TOTAL			83.86	60.10	0.00
	DEOGARH	Non Coking	0-300	326.24	73.60	0.00	399.84
TOTAL				326.24	73.60	0.00	399.84
RAJMAHAL	Non Coking	0-300	2978.84	7531.73	534.77	11045.34	
	Non Coking	300-600	232.34	3656.87	1151.95	5041.16	
	Non Coking	600-1200	0.00	30.46	5.10	35.56	
	TOTAL			3211.18	11219.06	1691.82	16122.06
JHARKHAND	TOTAL	Prime Coking	0-1200	4614.35	698.71	0.00	5313.06
JHARKHAND	TOTAL	Medium Coking	0-1200	12483.99	10553.45	1606.64	24644.08
JHARKHAND	TOTAL	Semi Coking	0-1200	223.34	471.55	53.45	748.34
JHARKHAND	TOTAL	Non Coking	0-1200	25001.00	20577.25	4888.29	50466.54
JHARKHAND	TOTAL	ALL	0-1200	42322.68	32300.96	6548.38	81172.02

Contd....

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2016)

State	Field	Type of Coal	Depth (Mt.)	Reserve (Quantity in Million Tonnes)				
				Proved	Indicated	Inferred	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
BIHAR	RAJMAHAL	Non Coking	0-300	0.00	0.00	160.00	160.00	
BIHAR	TOTAL	Non Coking	0-1200	0.00	0.00	160.00	160.00	
MADHYA PRADESH	JOHILLA	Non Coking	0-300	185.08	104.09	32.83	322.00	
	UMARIA	Non Coking	0-300	177.70	3.59	0.00	181.29	
	PENCH-KANHAN	Medium Coking	0-300	67.54	263.11	16.41	347.06	
		Medium Coking	300-600	40.29	136.90	142.17	319.36	
		Non Coking	0-300	1096.28	203.72	138.67	1438.67	
		Non Coking	300-600	272.77	366.61	434.94	1074.32	
		Non Coking	600-1200	0.00	0.00	0.86	0.86	
		TOTAL			1476.88	970.34	733.05	3180.27
		PATHAKHERA	Non Coking	0-300	261.08	51.70	0.00	312.78
	Non Coking		300-600	29.72	36.43	68.00	134.15	
	TOTAL		0-600	290.80	88.13	68.00	446.93	
	GURGUNDA	Non Coking	0-300	0.00	72.54	2.25	74.79	
		Non Coking	300-600	0.00	12.38	44.98	57.36	
		Non Coking	600-1200	0.00	0.00	6.16	6.16	
		TOTAL			0.00	84.92	53.39	138.31
	MOHPANI	Non Coking	0-300	7.83	0.00	0.00	7.83	
	SOHAGPUR	Medium Coking	0-300	184.57	211.38	2.01	397.96	
		Medium Coking	300-600	62.09	866.78	90.54	1019.41	
		Medium Coking	600-1200	0.00	81.94	21.70	103.64	
		Non Coking	0-300	1503.63	2898.79	186.98	4589.40	
		Non Coking	300-600	1.27	1651.86	18.19	1671.32	
		Non Coking	600-1200	0.00	33.61	0.00	33.61	
		TOTAL			1751.56	5744.36	319.42	7815.34
	SINGRAULI	Non Coking	0-300	5411.35	2447.14	1219.69	9078.18	
		Non Coking	300-600	1607.25	3113.34	794.03	5514.62	
		Non Coking	600-1200	9.54	140.07	72.68	222.29	
		TOTAL			7028.14	5700.55	2086.40	14815.09
MADHYA PRADESH	TOTAL	Medium Coking	0-1200	354.49	1560.11	272.83	2187.43	
MADHYA PRADESH	TOTAL	Non Coking	0-1200	10563.50	11135.87	3020.26	24719.63	
MADHYA PRADESH	TOTAL	ALL	0-1200	10917.99	12695.98	3293.09	26907.06	

Contd....

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2016)

State	Field	Type of Coal	Depth (Mt.)	Reserve (Quantity in Million Tonnes)				
				Proved	Indicated	Inferred	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
CHHATTISGARH	SOHAGPUR	Non Coking	0-300	94.30	10.08	0.00	104.38	
	SONHAT	Semi Coking	0-300	70.77	16.45	0.00	87.22	
		Semi Coking	300-600	0.00	82.80	0.00	82.80	
		Non Coking	0-300	135.13	903.21	0.00	1038.34	
		Non Coking	300-600	57.25	829.84	1.89	888.98	
		Non Coking	600-1200	0.00	568.85	0.00	568.85	
		TOTAL			263.15	2401.15	1.89	2666.19
		JHILIMILI	Non Coking	0-300	228.20	38.90	0.00	267.10
	CHIRIMIRI	Non Coking	0-300	320.33	10.83	31.00	362.16	
	BISRAMPUR	Non Coking	0-300	1141.94	506.91	1.82	1650.67	
	EAST BISRAPUR	Non Coking	0-300	0.00	164.82	0.00	164.82	
	LAKHANPUR	Non Coking	0-300	455.88	3.35	0.00	459.23	
	PANCHBAHINI	Non Coking	0-300	0.00	11.00	0.00	11.00	
	HASDEO-ARAND	Non Coking	0-300	2021.84	3213.44	220.15	5455.43	
		Non Coking	300-600	10.44	59.98	2.97	73.39	
		TOTAL			2032.28	3273.42	223.12	5528.82
	SENDURGARH	Non Coking	0-300	152.89	126.32	0.00	279.21	
	KORBA	Non Coking	0-300	5266.34	3491.50	99.91	8857.75	
		Non Coking	300-600	610.92	2292.20	68.11	2971.23	
		TOTAL			5877.26	5783.70	168.02	11828.98
	MAND-RAIGARH	Non Coking	0-300	7153.29	12194.87	1125.41	20473.57	
		Non Coking	300-600	1365.80	6651.19	525.99	8542.98	
		Non Coking	600-1200	0.00	610.88	0.00	610.88	
		TOTAL			8519.09	19456.94	1651.40	29627.43
	TATAPANI-RAMKOLA	Non Coking	0-300	50.43	1161.68	24.85	1236.96	
		Non Coking	300-600	0.00	1361.24	184.83	1546.07	
		Non Coking	600-1200	0.00	303.36	0.00	303.36	
		TOTAL			50.43	2826.28	209.68	3086.39
	CHHATTISGARH	TOTAL	Semi Coking	0-1200	70.77	99.25	0.00	170.02
	CHHATTISGARH	TOTAL	Non Coking	0-1200	19064.98	34514.45	2286.93	55866.36
	CHHATTISGARH	TOTAL	ALL	0-1200	19135.75	34613.70	2286.93	56036.38

Contd....

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2016)

State	Field	Type of Coal	Depth (Mt.)	Reserve (Quantity in Million Tonnes)				
				Proved	Indicated	Inferred	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
UTTAR PRADESH	SINGRAULI	Non Coking	0-300	884.04	177.76	0.00	1061.80	
UTTAR PRADESH	TOTAL	Non Coking	0-1200	884.04	177.76	0.00	1061.80	
UTTAR PRADESH	TOTAL	ALL	0-1200	884.04	177.76	0.00	1061.80	
MAHARASHTRA	WARDHA-VALLEY	Non Coking	0-300	3717.31	745.28	298.17	4760.76	
		Non Coking	300-600	39.47	770.90	1156.20	1966.57	
		Non Coking	600-1200	0.00	13.37	26.99	40.36	
		TOTAL			3756.78	1529.55	1481.36	6767.69
	KAMPTEE	Non Coking	0-300	1353.25	511.89	41.76	1906.90	
		Non Coking	300-600	169.40	603.79	234.13	1007.32	
		Non Coking	600-1200	8.03	13.69	138.72	160.44	
		TOTAL			1530.68	1129.37	414.61	3074.66
	UMRER MAKARDHOKRA	Non Coking	0-300	308.41	0.00	65.53	373.94	
		Non Coking	300-600	0.00	0.00	83.22	83.22	
		Non Coking	600-1200	0.00	0.00	11.95	11.95	
		TOTAL			308.41	0.00	160.70	469.11
	NAND BANDER	Non Coking	0-300	397.69	298.36	0.00	696.05	
		Non Coking	300-600	204.37	177.06	0.00	381.43	
		Non Coking	600-1200	0.00	16.76	0.00	16.76	
		TOTAL			602.06	492.18	0.00	1094.24
	BOKHARA	Non Coking	0-300	10.00	0.00	20.00	30.00	
	MAHARASHTRA	TOTAL	Non Coking	0-1200	6207.93	3151.10	2076.67	11435.70
	MAHARASHTRA	TOTAL	ALL	0-1200	6207.93	3151.10	2076.67	11435.70
	ODISHA	IB-RIVER	Non Coking	0-300	10083.24	4880.44	141.00	15104.68
			Non Coking	300-600	1110.44	4140.39	4168.93	9419.76
Non Coking			600-1200	0.00	303.41	2.69	306.10	
TOTAL					11193.68	9324.24	4312.62	24830.54
TALCHER		Non Coking	0-300	19771.42	10284.52	2481.48	32537.42	
		Non Coking	300-600	3103.47	12315.70	1054.28	16473.45	
		Non Coking	600-1200	225.94	1359.11	469.21	2054.26	
		TOTAL			23100.83	23959.33	4004.97	51065.13
ODISHA		TOTAL	Non Coking	0-1200	34294.51	33283.57	8317.59	75895.67
ODISHA		TOTAL	ALL	0-1200	34294.51	33283.57	8317.59	75895.67

Contd....

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2016)

State	Field	Type of Coal	Depth (Mt.)	Reserve (Quantity in Million Tonnes)			
				Proved	Indicated	Inferred	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ANDHRA PRADESH	GODAVARI VALLEY	Non Coking	0-300	0.00	482.46	45.03	527.49
		Non Coking	300-600	0.00	584.72	107.75	692.47
		Non Coking	600-1200	0.00	81.87	278.87	360.74
		TOTAL	0-1200	0.00	1149.05	431.65	1580.70
ANDHRA PRADESH	TOTAL	Non Coking	0-1200	0.00	1149.05	431.65	1580.70
ANDHRA PRADESH	TOTAL	ALL	0-1200	0.00	1149.05	431.65	1580.70
TELANGANA	GODAVARI VALLEY	Non Coking	0-300	6281.40	3068.17	119.42	9468.99
		Non Coking	300-600	3725.04	4106.59	554.01	8385.64
		Non Coking	600-1200	122.01	1411.40	2026.77	3560.18
		TOTAL	0-1200	10128.45	8586.16	2700.20	21414.81
TELANGANA	TOTAL	Non Coking	0-1200	10128.45	8586.16	2700.20	21414.81
TELANGANA	TOTAL	ALL	0-1200	10128.45	8586.16	2700.20	21414.81
SIKKIM	RANGIT VALLEY	Non Coking	0-300	0.00	58.25	42.98	101.23
SIKKIM	TOTAL	Non Coking	0-1200	0.00	58.25	42.98	101.23
ASSAM	SINGRIMARI	Semi Coking	0-300	0.00	0.39	0.00	0.39
		Non Coking	0-300	0.00	10.64	0.00	10.64
		Non Coking	300-600	0.00	3.46	0.00	3.46
		Non Coking	600-1200	0.00	0.00	0.00	0.00
		TOTAL		0.00	14.49	0.00	14.49
	MAKUM	High Sulphur	0-300	246.24	4.55	0.00	250.79
		High Sulphur	300-600	185.85	16.15	0.00	202.00
		TOTAL		432.09	20.70	0.00	452.79
	DILLI-JEYPORE	High Sulphur	0-300	32.00	22.02	0.00	54.02
	MIKIR HILLS	High Sulphur	0-300	0.69	0.00	3.02	3.71
ASSAM	TOTAL	Semi Coking	0-1200	0.00	0.39	0.00	0.39
ASSAM	TOTAL	Non Coking	0-1200	0.00	14.10	0.00	14.10
ASSAM	TOTAL	High Sulphur	0-1200	464.78	42.72	3.02	510.52
ASSAM	TOTAL	ALL	0-1200	464.78	57.21	3.02	525.01
ARUNACHAL PRADESH	NAMCHIK-NAMPHUK	High Sulphur	0-300	31.23	40.11	12.89	84.23
	MIAO BUM	High Sulphur	0-300	0.00	0.00	6.00	6.00
ARUNACHAL PRADESH	TOTAL	High Sulphur	0-1200	31.23	40.11	18.89	90.23
ARUNACHAL PRADESH	TOTAL	ALL	0-1200	31.23	40.11	18.89	90.23
MEGHALAYA	WEST-DARANGIRI	High Sulphur	0-300	65.40	0.00	59.60	125.00
	EAST DARANGIRI	High Sulphur	0-300	0.00	0.00	34.19	34.19
	BALPHAKRAM-PENDENGURU	High Sulphur	0-300	0.00	0.00	107.03	107.03
	SIJU	High Sulphur	0-300	0.00	0.00	125.00	125.00
	LANGRIN	High Sulphur	0-300	10.46	16.51	106.19	133.16
	MAWLONG SHELIA	High Sulphur	0-300	2.17	0.00	3.83	6.00

Contd....

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2016)

State	Field	Type of Coal	Depth (Mt.)	Reserve (Quantity in Million Tonnes)			
				Proved	Indicated	Inferred	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	KHASI HILLS	High Sulphur	0-300	0.00	0.00	10.10	10.10
	BAPUNG	High Sulphur	0-300	11.01	0.00	22.65	33.66
	JAYANTI HILL	High Sulphur	0-300	0.00	0.00	2.34	2.34
MEGHALAYA	TOTAL	High Sulphur	0-1200	89.04	16.51	470.93	576.48
MEGHALAYA	TOTAL	ALL	0-1200	89.04	16.51	470.93	576.48
NAGALAND	BORJAN	High Sulphur	0-300	5.50	0.00	4.50	10.00
	JHANZI-DISAI	High Sulphur	0-300	2.00	0.00	0.08	2.08
	TIENSANG	High Sulphur	0-300	1.26	0.00	2.00	3.26
	TIRU VALLEY	High Sulphur	0-300	0.00	0.00	6.60	6.60
	DGM	High Sulphur	0-300	0.00	0.00	293.47	293.47
NAGALAND	TOTAL	High Sulphur	0-1200	8.76	0.00	306.65	315.41
NAGALAND	TOTAL	ALL	0-1200	8.76	0.00	306.65	315.41
INDIA	TOTAL	Prime Coking	0-1200	4614.35	698.71	0.00	5313.06
INDIA	TOTAL	Medium Coking	0-1200	13388.90	12113.56	1879.47	27381.93
INDIA	TOTAL	Semi Coking	0-1200	482.16	1003.68	221.68	1707.52
INDIA	TOTAL	Non Coking	0-1200	119007.98	125235.58	28663.13	272906.69
INDIA	TOTAL	High Sulphur	0-1200	593.81	99.34	799.49	1492.64
INDIA	TOTAL		0-1200	138087.20	139150.87	31563.77	308801.84
INDIA	Total for Tertiary Coalfields		0-1200	593.81	99.34	799.49	1492.64
INDIA	Total for Gondwana Coalfields*		0-1200	137493.39	139051.53	30764.28	307309.20
INDIA	GRAND TOTAL		0-1200	138087.20	139150.87	31563.77	308801.84

* Including Sikkim

TABLE 2.4: COAL RESERVE BY TYPE OF COAL AND DEPTH AS ON (as on 01-04-2016)

State	Field	Type of Coal	Depth (Metre)	Reserve (Quantity in Million Tonnes)			
				Proved	Indicated	Inferred	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
INDIA	<i>TOTAL (Jharia)</i>	Prime Coking	0-600	4039.41	4.01	0.00	4043.42
INDIA	<i>TOTAL (Jharia)</i>	Prime Coking	600-1200	574.94	694.70	0.00	1269.64
INDIA	<i>TOTAL (Other than Jharia)</i>	Medium Coking	0-300	7331.83	4059.26	65.79	11456.88
INDIA	<i>TOTAL (Other than Jharia)</i>	Medium Coking	300-600	1165.79	4509.41	742.50	6417.70
INDIA	<i>TOTAL (Jharia)</i>	Medium Coking	0-600	4064.18	2.82	0.00	4067.00
INDIA	<i>TOTAL</i>	Medium Coking	600-1200	827.10	3542.07	1071.18	5440.35
INDIA	<i>TOTAL</i>	Semi Coking	0-300	339.86	126.36	0.55	466.77
INDIA	<i>TOTAL</i>	Semi Coking	300-600	109.51	572.25	76.38	758.14
INDIA	<i>TOTAL</i>	Semi Coking	600-1200	32.79	305.07	144.75	482.61
INDIA	<i>TOTAL</i>	High Sulphur	0-300	407.96	83.19	799.49	1290.64
INDIA	<i>TOTAL</i>	High Sulphur	300-600	185.85	16.15	0.00	202.00
INDIA	<i>TOTAL (Other than Jharia)</i>	Non Coking	0-300	95543.93	62492.57	8539.57	166576.07
INDIA	<i>TOTAL (Other than Jharia)</i>	Non Coking	300-600	16546.24	52839.76	15124.86	84510.86
INDIA	<i>TOTAL (Jharia)</i>	Non Coking	0-600	5657.14	444.86	0.00	6102.00
INDIA	<i>TOTAL</i>	Non Coking	600-1200	1260.67	9458.39	4998.70	15717.76
INDIA	TOTAL	Grand Total	0-1200	138087.20	139150.87	31563.77	308801.84

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 01-04-2016)
(Quantity in Million Tonnes)

State/ Field	Depth Range(M)	PROVED							INDICATED							Inferred	Grand Total
		G1-G3	G4-G5	G6	G7-G8	G9-G14	G15-G17	Total	G1-G3	G4-G5	G6	G7-G8	G9-G14	G15-G17	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WEST BENGAL																	
Raniganj	0-300	64.29	1520.61	3484.67	2921.90	2027.92	0.70	10020.09	23.13	183.93	484.13	455.13	530.28	0.00	1676.60	267.80	11964.49
	300-600	54.14	596.81	677.19	500.95	507.44	0.00	2336.53	54.58	690.08	1209.48	699.44	663.28	0.00	3316.86	2096.32	7749.71
	600-1200	12.62	77.56	120.46	77.27	18.25	0.00	306.16	152.85	367.36	529.11	418.82	382.92	0.00	1851.06	1494.87	3652.09
	0-1200	131.05	2194.98	4282.32	3500.12	2553.61	0.70	12662.78	230.56	1241.37	2222.72	1573.39	1576.48	0.00	6844.52	3858.99	23366.29
Barjora	0-300	0.00	0.00	0.00	0.34	200.45	0.00	200.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.79
Birbhum	0-300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	0.00	33.58	198.97	584.59	0.00	818.42	114.98	933.40
	300-600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.10	1117.04	576.85	1988.71	0.00	3727.70	575.54	4303.24
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60	296.17	528.37	354.24	0.00	1197.38	174.05	1371.43
	0-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	63.70	1446.79	1304.19	2927.54	0.00	5743.50	864.57	6608.07
Darjeeling	0-300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00
Total		131.05	2194.98	4282.32	3500.46	2754.06	0.70	12863.57	231.84	1305.07	3669.51	2877.58	4504.02	0.00	12588.02	4738.56	30190.15
Jharkhand																	
Raniganj	0-300	0.00	3.04	51.03	190.45	867.01	0.00	1111.53	0.00	0.00	0.00	0.72	88.60	0.00	89.32	29.55	1230.40
	300-600	0.00	0.00	0.00	20.63	85.40	0.00	106.03	0.00	0.00	0.00	142.07	178.00	0.00	320.07	2.00	428.10
	0-600	0.00	3.04	51.03	211.08	952.41	0.00	1217.56	0.00	0.00	0.00	142.79	266.60	0.00	409.39	31.55	1658.50
Jharia	0-600	63.39	42.84	86.85	462.04	5002.02	0.00	5657.14	6.08	2.27	0.99	7.60	427.92	0.00	444.86	0.00	6102.00
	600-1200	5.64	3.42	6.50	35.95	444.49	0.00	496.00	15.41	9.34	17.76	98.21	1214.28	0.00	1355.00	0.00	1851.00
	0-1200	69.03	46.26	93.35	497.99	5446.51	0.00	6153.14	21.49	11.61	18.75	105.81	1642.20	0.00	1799.86	0.00	7953.00
East	0-300	0.00	0.11	3.15	13.61	78.30	0.00	95.17	0.00	7.76	7.77	19.82	21.46	0.00	56.81	0.00	151.98
Bokaro	300-600	0.00	0.00	0.30	1.55	7.05	0.00	8.90	0.00	0.40	0.40	1.61	3.28	0.00	5.69	0.00	14.59
	0-600	0.00	0.11	3.45	15.16	85.35	0.00	104.07	0.00	8.16	8.17	21.43	24.74	0.00	62.50	0.00	166.57
West	0-300	0.00	1.26	14.15	45.93	207.23	0.00	268.57	0.00	0.02	0.11	0.11	9.13	0.00	9.37	0.00	277.94
Bokaro	300-600	0.00	0.00	0.38	1.44	3.99	0.00	5.81	0.00	0.00	0.30	1.15	3.21	0.00	4.66	0.00	10.47
	0-600	0.00	1.26	14.53	47.37	211.22	0.00	274.38	0.00	0.02	0.41	1.26	12.34	0.00	14.03	0.00	288.41
Ramgarh	0-300	0.00	0.00	0.00	3.50	3.63	0.00	7.13	0.00	0.00	0.00	13.10	13.10	0.00	26.20	4.60	37.93
North	0-300	37.24	67.83	152.44	1025.87	7322.38	0.91	8606.67	6.56	1.19	4.05	302.17	1930.46	0.00	2244.43	722.03	11573.13
Karanpura	300-600	0.11	2.28	20.79	234.14	845.36	0.88	1103.56	0.00	2.85	2.93	440.16	679.86	0.00	1125.80	729.50	2958.86
	600-1200	0.02	0.23	1.19	12.91	76.24	0.15	90.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.74
	0-1200	37.37	70.34	174.42	1272.92	8243.98	1.94	9800.97	6.56	4.04	6.98	742.33	2610.32	0.00	3370.23	1451.53	14622.73
South	0-300	149.61	122.20	323.56	604.90	1631.08	0.57	2831.92	0.06	45.11	101.20	186.62	181.31	0.00	514.30	276.36	3622.58
Karanpura	300-600	10.57	20.82	37.38	96.49	280.20	0.00	445.46	1.46	69.55	103.24	230.11	320.73	0.00	725.09	644.03	1814.58
	600-1200	0.00	0.00	0.00	0.38	1.87	0.00	2.25	0.83	12.09	37.00	43.11	41.66	0.00	134.69	252.51	389.45
	0-1200	160.18	143.02	360.94	701.77	1913.15	0.57	3279.63	2.35	126.75	241.44	459.84	543.70	0.00	1374.08	1172.90	5826.61
Aurangabad	0-300	0.00	0.00	0.00	0.04	352.01	0.00	352.05	0.00	8.04	11.03	134.71	1087.44	0.00	1241.22	43.07	1636.34
	300-600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.33	95.19	749.49	0.00	867.01	423.07	1290.08
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.74	18.68	0.00	33.42	37.27	70.69
	0-1200	0.00	0.00	0.00	0.04	352.01	0.00	352.05	0.00	8.04	33.36	244.64	1855.61	0.00	2141.65	503.41	2997.11
Hutar	0-300	28.39	56.51	41.01	40.23	24.65	0.00	190.79	4.22	5.00	5.00	0.00	0.00	0.00	14.22	32.48	237.49
	300-600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.17	3.83	3.83	0.72	0.78	0.00	12.33	0.00	12.33
	0-600	28.39	56.51	41.01	40.23	24.65	0.00	190.79	7.39	8.83	8.83	0.72	0.78	0.00	26.55	32.48	249.82

Contd....

TABLE-2.5: GRADEWISE INVENTORY OF NON-COKING COAL RESERVE IN GONDWANA COALFIELDS OF INDIA (as on 01-04-2016)
(Quantity in Million Tonnes)

State/ Field	Depth Range(M)	PROVED							INDICATED							Inferred	Grand Total
		G1-G3	G4-G5	G6	G7-G8	G9-G14	G15-G17	Total	G1-G3	G4-G5	G6	G7-G8	G9-G14	G15-G17	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Daltonganj	0-300	10.00	20.00	29.00	4.00	20.86	0.00	83.86	7.14	14.28	20.71	2.86	15.11	0.00	60.10	0.00	143.96
Deogarh	0-300	0.87	25.19	70.81	90.03	139.34	0.00	326.24	0.20	5.68	15.97	20.31	31.44	0.00	73.60	0.00	399.84
Rajmahal	0-300	0.00	0.56	53.05	160.26	2764.97	0.00	2978.84	0.34	27.73	320.61	1634.64	5548.41	0.00	7531.73	534.77	11045.34
	300-600	0.00	0.00	3.82	35.20	193.32	0.00	232.34	0.00	30.45	380.07	1227.36	2018.99	0.00	3656.87	1151.95	5041.16
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	29.75	0.00	30.46	5.10	35.56
	0-1200	0.00	0.56	56.87	195.46	2958.29	0.00	3211.18	0.34	58.18	700.68	2862.71	7597.15	0.00	11219.06	1691.82	16122.06
Total		305.84	366.29	895.41	3079.55	20351.40	2.51	25001.00	45.47	245.59	1055.30	4617.80	14613.09	0.00	20577.25	4888.29	50466.54
Bihar																	
Rajmahal	0-300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
Total		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
Madhya Pradesh																	
Johilla	0-300	0.31	36.17	70.29	44.33	33.98	0.00	185.08	0.00	32.52	32.59	17.25	21.73	0.00	104.09	32.83	322.00
Umariya	0-300	0.50	11.63	39.02	59.69	66.86	0.00	177.70	0.11	0.49	1.02	1.36	0.61	0.00	3.59	0.00	181.29
Pench-Kanhan	0-300	53.94	153.23	292.99	280.65	315.46	0.01	1096.28	14.57	35.20	55.48	73.43	25.04	0.00	203.72	138.67	1438.67
	300-600	17.61	41.15	66.51	72.97	74.53	0.00	272.77	27.57	96.36	133.02	34.32	70.85	4.49	366.61	434.94	1074.32
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.86
	0	71.55	194.38	359.50	353.62	389.99	0.01	1369.05	42.14	131.56	188.50	107.75	95.89	4.49	570.33	574.47	2513.85
Pathakhara	0-300	1.08	13.12	63.51	87.45	95.92	0.00	261.08	0.00	2.76	4.36	12.54	32.04	0.00	51.70	0.00	312.78
	300-600	0.00	0.22	4.73	13.63	11.14	0.00	29.72	0.00	0.00	2.72	14.68	19.03	0.00	36.43	68.00	134.15
	0-600	1.08	13.34	68.24	101.08	107.06	0.00	290.80	0.00	2.76	7.08	27.22	51.07	0.00	88.13	68.00	446.93
Gurgunda	0-300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	3.74	5.67	62.95	0.00	72.54	2.25	74.79
	300-600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.50	0.24	11.12	0.00	12.38	44.98	57.36
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.16	6.16
	0-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	4.24	5.91	74.07	0.00	84.92	53.39	138.31
Mohpani	0-300	0.00	0.00	0.00	0.00	7.83	0.00	7.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.83
Sohagpur	0-300	114.59	238.54	428.30	360.70	361.50	0.00	1503.63	109.78	458.02	956.81	698.93	672.55	2.70	2898.79	186.98	4589.40
	300-600	0.00	0.00	0.40	0.27	0.60	0.00	1.27	122.94	408.52	545.80	307.03	264.90	2.67	1651.86	18.19	1671.32
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	12.64	3.14	9.22	7.65	0.00	33.61	0.00	33.61
	0-1200	114.59	238.54	428.70	360.97	362.10	0.00	1504.90	233.68	879.18	1505.75	1015.18	945.10	5.37	4584.26	205.17	6294.33
Singrauli	0-300	4.44	82.35	768.45	1173.65	3371.99	10.47	5411.35	43.23	223.04	761.40	623.47	796.00	0.00	2447.14	1219.69	9078.18
	300-600	0.55	1.70	77.86	468.26	1057.88	1.00	1607.25	29.40	335.76	645.29	1049.91	1052.98	0.00	3113.34	794.03	5514.62
	600-1200	0.00	0.00	0.00	0.61	8.83	0.10	9.54	16.56	42.63	47.22	24.61	9.05	0.00	140.07	72.68	222.29
	0-1200	4.99	84.05	846.31	1642.52	4438.70	11.57	7028.14	89.19	601.43	1453.91	1697.99	1858.03	0.00	5700.55	2086.40	14815.09
Total		193.02	578.11	1812.06	2562.21	5406.52	11.58	10563.50	365.12	1648.64	3193.09	2872.66	3046.50	9.86	11135.87	3020.26	24719.63
Chhattisgarh																	
Sohagpur	0-300	23.20	35.40	29.02	4.92	1.76	0.00	94.30	0.43	1.28	6.99	0.96	0.42	0.00	10.08	0.00	104.38
Sonhat	0-300	14.31	35.87	21.08	17.38	45.54	0.95	135.13	0.00	9.17	50.14	286.95	556.95	0.00	903.21	0.00	1038.34
	300-600	2.04	23.44	10.96	14.04	6.77	0.00	57.25	10.92	125.22	196.21	360.71	136.78	0.00	829.84	1.89	888.98
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	46.09	105.85	176.77	240.04	0.00	568.85	0.00	568.85
	0-1200	16.35	59.31	32.04	31.42	52.31	0.95	192.38	11.02	180.48	352.20	824.43	933.77	0.00	2301.90	1.89	2496.17
Jhilimili	0-300	64.86	49.70	27.40	15.02	71.22	0.00	228.20	14.02	10.11	7.78	0.66	6.33	0.00	38.90	0.00	267.10
Chirimiri	0-300	66.14	116.11	116.09	11.00	10.99	0.00	320.33	0.76	5.04	5.03	0.00	0.00	0.00	10.83	31.00	362.16
Bisrampur	0-300	98.68	267.41	167.43	227.91	380.51	0.00	1141.94	15.37	38.33	103.70	127.24	222.22	0.05	506.91	1.82	1650.67

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TABLE-2.5: GRADEWISE INVENTORY OF NON-COKING COAL RESERVE IN GONDWANA COALFIELDS OF INDIA (as on 01-04-2016)
(Quantity in Million Tonnes)

State/ Field	Depth Range(M)	PROVED							INDICATED							Inferred	Grand Total
		G1-G3	G4-G5	G6	G7-G8	G9-G14	G15-G17	Total	G1-G3	G4-G5	G6	G7-G8	G9-G14	G15-G17	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
East of Bisrampur	0-300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.95	5.59	28.17	77.54	38.57	0.00	164.82	0.00	164.82
Lakhanpur	0-300	4.22	44.21	125.23	135.25	146.97	0.00	455.88	0.00	0.00	0.03	0.79	2.53	0.00	3.35	0.00	459.23
Panchbahini	0-300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	6.60	1.73	2.66	0.00	11.00	0.00	11.00
Hasdo-Arand	0-300	1.36	18.41	100.95	360.57	1540.55	0.00	2021.84	61.42	151.19	634.46	1279.95	1086.42	0.00	3213.44	220.15	5455.43
	300-600	0.00	0.00	0.06	1.43	8.95	0.00	10.44	8.69	28.80	12.06	8.12	2.31	0.00	59.98	2.97	73.39
	0-600	1.36	18.41	101.01	362.00	1549.50	0.00	2032.28	70.11	179.99	646.52	1288.07	1088.73	0.00	3273.42	223.12	5528.82
Sendurgarh	0-300	0.78	27.79	48.24	32.53	43.55	0.00	152.89	11.57	51.22	30.77	19.27	13.49	0.00	126.32	0.00	279.21
Korba	0-300	223.01	110.08	148.96	255.05	4502.89	26.35	5266.34	38.15	32.95	114.86	126.29	3179.25	0.00	3491.50	99.91	8857.75
	300-600	10.00	0.00	0.00	6.26	591.88	2.78	610.92	7.50	0.00	39.81	372.77	1872.12	0.00	2292.20	68.11	2971.23
	0-600	233.01	110.08	148.96	261.31	5094.77	29.13	5877.26	45.65	32.95	154.67	499.06	5051.37	0.00	5783.70	168.02	11828.98
Mand-Raigarh	0-300	24.27	40.04	216.56	618.19	6253.71	0.52	7153.29	79.09	32.13	240.01	1765.85	10065.97	11.82	12194.87	1125.41	20473.57
	300-600	54.59	26.91	162.19	317.45	804.66	0.00	1365.80	113.88	84.86	395.39	1599.20	4421.40	36.46	6651.19	525.99	8542.98
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	82.03	162.49	365.88	0.00	610.88	0.00	610.88
	0-1200	78.86	66.95	378.75	935.64	7058.37	0.52	8519.09	193.45	116.99	717.43	3527.54	14853.25	48.28	19456.94	1651.40	29627.43
Tatapani-Ramkola	0-300	1.15	1.08	2.54	3.92	41.74	0.00	50.43	28.86	73.83	240.37	293.94	524.68	0.00	1161.68	24.85	1236.96
	300-600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.47	96.01	241.94	307.50	646.32	0.00	1361.24	184.83	1546.07
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.73	13.11	30.74	49.79	191.99	0.00	303.36	0.00	303.36
	0-1200	1.15	1.08	2.54	3.92	41.74	0.00	50.43	116.06	182.95	513.05	651.23	1362.99	0.00	2826.28	209.68	3086.39
Total		588.61	796.45	1176.71	2020.92	14451.69	30.60	19064.98	493.39	804.94	2572.94	7018.52	23576.33	48.33	34514.45	2286.93	55866.36
Uttar Pradesh																	
Singrauli	0-300	0.00	0.00	8.05	275.80	600.19	0.00	884.04	0.00	0.00	0.00	99.09	78.67	0.00	177.76	0.00	1061.80
Total		0.00	0.00	8.05	275.80	600.19	0.00	884.04	0.00	0.00	0.00	99.09	78.67	0.00	177.76	0.00	1061.80
Maharashtra																	
Wardha Valley	0-300	0.00	31.47	297.86	1644.17	1743.81	0.00	3717.31	0.00	24.33	46.14	322.51	352.30	0.00	745.28	298.17	4760.76
	300-600	0.00	0.00	1.59	21.17	16.71	0.00	39.47	0.00	46.03	104.39	211.48	409.00	0.00	770.90	1156.20	1966.57
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.09	2.28	0.00	13.37	26.99	40.36
	0-1200	0.00	31.47	299.45	1665.34	1760.52	0.00	3756.78	0.00	70.36	150.53	545.08	763.58	0.00	1529.55	1481.36	6767.69
Kamptee	0-300	1.89	61.06	332.52	401.80	555.98	0.00	1353.25	5.13	11.93	110.12	147.58	237.13	0.00	511.89	41.76	1906.90
	300-600	0.00	2.89	31.92	68.05	66.01	0.53	169.40	16.64	21.73	174.76	153.33	237.33	0.00	603.79	234.13	1007.32
	600-1200	0.00	1.42	0.64	2.66	3.31	0.00	8.03	6.77	0.00	0.31	2.22	4.39	0.00	13.69	138.72	160.44
	0-1200	1.89	65.37	365.08	472.51	625.30	0.53	1530.68	28.54	33.66	285.19	303.13	478.85	0.00	1129.37	414.61	3074.66
Umrer-Makardhokra	0-300	0.00	0.53	42.18	127.29	138.41	0.00	308.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.53	373.94
	300-600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.22	83.22
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.95	11.95
	0-1200	0.00	0.53	42.18	127.29	138.41	0.00	308.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.70	469.11
Nand-Bander	0-300	2.80	45.41	88.82	98.20	162.46	0.00	397.69	0.00	9.84	77.52	110.92	100.08	0.00	298.36	0.00	696.05
	300-600	0.06	5.18	18.86	22.44	157.83	0.00	204.37	0.00	11.45	72.33	46.06	47.22	0.00	177.06	0.00	381.43
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.40	9.00	1.72	0.64	0.00	16.76	0.00	16.76
	0-1200	2.86	50.59	107.68	120.64	320.29	0.00	602.06	0.00	26.69	158.85	158.70	147.94	0.00	492.18	0.00	1094.24
Bokhara	0-300	0.00	1.33	1.33	2.66	4.68	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	30.00
Total		4.75	149.29	815.72	2388.44	2849.20	0.53	6207.93	28.54	130.71	594.57	1006.91	1390.37	0.00	3151.10	2076.67	11435.70

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TABLE-2.5: GRADEWISE INVENTORY OF NON-COKING COAL RESERVE IN GONDWANA COALFIELDS OF INDIA (as on 01-04-2016)
(Quantity in Million Tonnes)

State/ Field	Depth Range(M)	PROVED							INDICATED							Inferred	Grand Total
		G1-G3	G4-G5	G6	G7-G8	G9-G14	G15-G17	Total	G1-G3	G4-G5	G6	G7-G8	G9-G14	G15-G17	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Odisha																	
lb-River	0-300	0.33	4.60	50.02	288.61	9739.68	0.00	10083.24	4.15	23.65	83.33	308.17	4461.14	0.00	4880.44	141.00	15104.68
	300-600	0.00	5.62	20.95	67.23	1016.64	0.00	1110.44	15.86	142.08	213.66	519.86	3248.93	0.00	4140.39	4168.93	9419.76
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	25.10	70.54	207.14	0.00	303.41	2.69	306.10
	0-1200	0.33	10.22	70.97	355.84	10756.32	0.00	11193.68	20.01	166.36	322.09	898.57	7917.21	0.00	9324.24	4312.62	24830.54
Talcher	0-300	24.89	208.86	247.22	543.93	18474.86	271.66	19771.42	50.62	174.31	358.38	1195.56	8505.65	0.00	10284.52	2481.48	32537.42
	300-600	3.96	6.65	23.15	62.62	2658.20	348.89	3103.47	48.06	203.82	333.04	1541.33	10189.45	0.00	12315.70	1054.28	16473.45
	600-1200	6.04	10.31	5.79	17.02	186.78	0.00	225.94	0.00	11.00	52.55	69.31	1226.25	0.00	1359.11	469.21	2054.26
Talcher	0-1200	34.89	225.82	276.16	623.57	21319.84	620.55	23100.83	98.68	389.13	743.97	2806.20	19921.35	0.00	23959.33	4004.97	51065.13
Total		35.22	236.04	347.13	979.41	32076.16	620.55	34294.51	118.69	555.49	1066.06	3704.77	27838.56	0.00	33283.57	8317.59	75895.67
Andhra Pradesh																	
Godavari	0-300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.82	19.81	458.83	0.00	482.46	45.03	527.49
	300-600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.56	13.91	566.25	0.00	584.72	107.75	692.47
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78	0.00	80.09	0.00	81.87	278.87	360.74
	0-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.16	33.72	1105.17	0.00	1149.05	431.65	1580.70
Total		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.16	33.72	1105.17	0.00	1149.05	431.65	1580.70
Telangana																	
Godavari	0-300	45.32	232.17	1231.84	1275.85	3494.09	2.13	6281.40	46.32	99.89	338.46	516.33	2067.17	0.00	3068.17	119.42	9468.99
	300-600	26.80	183.80	697.88	1094.72	1720.51	1.33	3725.04	45.37	157.70	499.08	712.37	2692.07	0.00	4106.59	554.01	8385.64
	600-1200	2.20	4.86	3.57	28.78	82.60	0.00	122.01	8.16	149.19	228.13	407.07	618.85	0.00	1411.40	2026.77	3560.18
	0-1200	74.32	420.83	1933.29	2399.35	5297.20	3.46	10128.45	99.85	406.78	1065.67	1635.77	5378.09	0.00	8586.16	2700.20	21414.81
Total		74.32	420.83	1933.29	2399.35	5297.20	3.46	10128.45	99.85	406.78	1065.67	1635.77	5378.09	0.00	8586.16	2700.20	21414.81
Assam																	
Singrimari	0-300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.79	0.00	4.83	3.02	0.00	10.64	0.00	10.64
	300-600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	2.91	0.00	3.46	0.00	3.46
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.79	0.00	5.38	5.93	0.00	14.10	0.00	14.10
Total		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.79	0.00	5.38	5.93	0.00	14.10	0.00	14.10
Sikkim																	
Rangit Valley	0-300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.43	48.21	5.61	0.00	58.25	42.98	101.23
Total		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.43	48.21	5.61	0.00	58.25	42.98	101.23
Grand Total		1332.81	4741.99	11270.69	17206.14	83786.42	669.93	119007.98	1382.90	5100.01	13231.73	23920.41	81542.34	58.19	125235.58	28663.13	272906.69

Source: Geological Survey Of India

**TABLE - 2.6 : STATEWISE INVENTORY OF GEOLOGICAL RESERVE OF LIGNITE
AS ON 1st APRIL 2014, 2015 & 2016**

State	As on	Resources (Quantity in Million Tonnes)			
		Proved	Indicated	Inferred	Total
(2)	(1)	(3)	(4)	(5)	(6)
Gujarat	01-04-2014	1278.65	283.70	1159.70	2722.05
	01-04-2015	1278.65	283.70	1159.70	2722.05
	01-04-2016	1278.65	283.70	1159.70	2722.05
J & K	01-04-2014	0.00	20.25	7.30	27.55
	01-04-2015	0.00	20.25	7.30	27.55
	01-04-2016	0.00	20.25	7.30	27.55
Kerala	01-04-2014	0.00	0.00	9.65	9.65
	01-04-2015	0.00	0.00	9.65	9.65
	01-04-2016	0.00	0.00	9.65	9.65
Pondicherry	01-04-2014	0.00	405.61	11.00	416.61
	01-04-2015	0.00	405.61	11.00	416.61
	01-04-2016	0.00	405.61	11.00	416.61
Rajasthan	01-04-2014	1167.02	2671.93	1881.39	5720.35
	01-04-2015	1168.53	2670.84	1887.34	5726.71
	01-04-2016	1168.53	2670.84	1896.60	5735.97
Tamilnadu	01-04-2014	3735.23	22900.05	7712.43	34347.71
	01-04-2015	3735.23	22900.05	8573.62	35208.90
	01-04-2016	3735.23	22991.17	8953.53	35679.93
West Bengal	01-04-2014	0.00	1.13	1.64	2.77
	01-04-2015	0.00	1.13	1.64	2.77
	01-04-2016	0.00	1.13	1.64	2.77
All India	01-04-2014	6180.90	26282.67	10783.11	43246.68
	01-04-2015	6182.41	26281.58	11650.25	44114.24
	01-04-2016	6182.41	26372.70	12039.42	44594.53

Note: Figures compiled by Neyveli Lignite Corporation Ltd.

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2016)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Neyveli lignite field							
Pandicherry	Bahur	0-150	0.00	405.61	0.00	405.61	405.61
	West of Bahur	0-150	0.00	0.00	11.00	11.00	11.00
Total for Pandicherry			0.00	405.61	11.00	416.61	416.61
Tamil Nadu							
Cuddalore	*Bahur	0-150	0.00	168.78	0.00	168.78	168.78
	*West of Bahur	0-150	0.00	0.00	102.19	102.19	102.19
	Bhuvanagiri-Kullanchavadi	150-300	0.00	0.00	385.40	385.40	385.40
	Eastern part of Neyveli	150-300	0.00	218.65	37.68	256.33	
		>300	0.00	156.86	149.13	305.99	562.32
	Eastern part of NLC leasehold area	>150	0.00	0.00	55.00	55.00	55.00
	NLC Leasehold areas (Mine-I & Expansion, Mine 1A, II & Expansion, Mine III, Block B, Mine I, Mine II, Mine III and river)	0-150	2831.00	134.00	138.00	3103.00	
	Devangudi & areas locked up between Kudikadu	150-300	0.00	0.00	24.00	24.00	3127.00
	Kullanchavadi	0-150	0.00	0.00	133.38	133.38	133.38
		>150	0.00	0.00	175.00	175.00	175.00
	South of Vellar(Srimushnam)	0-150	0.00	501.00	0.00	501.00	
		150-300	0.00	9.00	0.00	9.00	510.00
	Veeranam(Lalpettai)	150-300	0.00	1341.17	0.00	1341.17	
		>300	0.00	1.28	0.00	1.28	1342.45
	East of Sethiatope	0-150	0.00	24.71	0.00	24.71	
		150-300	0.00	44.95	0.00	44.95	
		>300	0.00	21.46	0.00	21.46	91.12
Ariyalur	Meensuruti	0-150	0.00	0.00	458.00	458.00	458.00
	Jayamkondamcholapuram	0-150	904.23	302.50	0.00	1206.73	1206.73
	Michaelpatti	0-150	0.00	0.00	23.07	23.07	23.07
Neyveli Lignite Fields			3735.23	3329.97	1691.85	8757.05	8757.05
*(Both Bahur and West of Bahur blocks cover parts of Tamil Nadu and Pondicherry state)							

Contd....

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2016)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Mannargudi lignite field Thanjavur & Thiruvarur	Mannargudi-Central	150-300	0.00	3159.00	0.00	3159.00		
		>300	0.00	1843.55	0.00	1843.55	5002.55	
	Mannargudi-NE	150-300	0.00	275.26	0.00	275.26		
		>300	0.00	5867.28	0.00	5867.28	6142.54	
	Mannargudi-NE extn.	>300	0.00	0.00	3057.95	3057.95	3057.95	
	Mannargudi-SE	150-300	0.00	553.00	0.00	553.00		
		>300	0.00	5505.37	0.00	5505.37	6058.37	
	Melnattam-Agraharam	150-300	0.00	44.60	65.51	110.11	110.11	
	Thanjavur Mannargudi -NW	150-300	0.00	575.57	0.00	575.57		
		>300	0.00	421.10	0.00	421.10	996.67	
	Mannargudi -SW	150-300	0.00	481.80	0.00	481.80	481.80	
	Maharajapuram	150-300	0.00	23.95	0.00	23.95	23.95	
	Orattanadu-Pattukottai	150-300	0.00	10.80	44.31	55.11	55.11	
	Vadaseri(Orattanadu-Pattukottai)	0-150	0.00	9.37	0.00	9.37		
		150-300	0.00	745.83	0.00	745.83	755.20	
	Madukkur-Anaikkadu	150-300	0.00	17.41	28.35	45.76	45.76	
	Veppanagulam-Kasangadu	150-300	0.00	4.88	0.00	4.88	4.88	
	Thanjavur & Nagappattinam	Alangudi	150-300	0.00	24.98	48.01	72.99	
			>300	0.00	29.31	55.72	85.03	158.02
Kadalangudi	0-150	0.00	0.00	0.43	0.43			
	150-300	0.00	0.00	317.74	317.74			
	>300	0.00	0.00	74.26	74.26	392.43		
Pandanallur	150-300	0.00	6.48	12.94	19.42			
	>300	0.00	18.14	36.11	54.25	73.67		
Thirumangalam	>300	0.00	233.22	295.30	528.52	528.52		
Tiruumangaichcheri	150-300	0.00	21.05	43.90	64.95			
	>300	0.00	26.03	42.21	68.24	133.19		
Thiruvarur & Nagappattinam	Nachiyarkudi	>300	0.00	0.00	574.05	574.05	574.05	
		Mannargudi lignite Field		0.00	19897.98	4696.79	24594.77	24594.77

Contd....

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2016)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ramanathapuram lignite field							
Ramanathapuram	Bogalur	>300	0.00	48.28	76.34	124.62	124.62
	Bogalur East	>300	0.00	0.00	469.58	469.58	469.58
	Misal	>301	0.00	23.92	28.79	52.71	52.71
	Tiyanur	>302	0.00	96.63	167.30	263.93	263.93
	Uttarakosamangai	150-300	0.00	0.00	1.54	1.54	
		>300	0.00	0.00	467.22	467.22	468.76
	Kalari West	>302	0.00	0.00	379.91	379.91	379.91
Ramnad	Rajasing Mangalam	>300	0.00	0.00	964.97	964.97	964.97
Ramnad & Sivaganga	Sattanur	>300	0.00	0.00	20.24	20.24	20.24
	Ramanathapuram lignite field		0.00	168.83	2575.89	2744.72	2744.72
Total for Tamil Nadu			3735.23	22991.17	8953.53	35679.93	35679.93
Rajasthan							
Bikaner	Ambasar-Gigasar	0-150	0.00	12.33	0.00	12.33	12.33
	Badhnu	0-150	0.00	0.00	1.87	1.87	1.87
	Bangarsar-Jaimalsar	0-150	0.00	0.00	13.74	13.74	
		150-300	0.00	0.00	5.37	5.37	19.11
	Bania	0-150	0.00	0.49	0.00	0.49	0.49
	Bapeau	0-150	0.00	0.00	35.58	35.58	35.58
	Barsinghsar	0-150	77.83	0.00	0.00	77.83	77.83
	Bholasar	0-300	0.00	0.00	3.90	3.90	3.90
	Bigga-Abhaysingpura	0-300	0.00	0.00	25.26	25.26	
		150-300	0.00	0.00	19.38	19.38	44.64
	Bithnok East(Ext.)	0-300	0.00	39.44	0.00	39.44	39.44
	Bithnok Main	0-300	43.28	0.00	0.00	43.28	
		150-300	55.84	0.00	0.00	55.84	99.12

Contd....

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2016)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Borana	0-150	0.00	0.10	0.41	0.51	0.51
	Chak-Vijaisinghpura	0-150	2.80	0.00	0.00	2.80	2.80
	Deshnok-Ramsar-Sinthal	0-150	0.00	0.00	52.85	52.85	
		150-300	0.00	0.00	0.92	0.92	53.77
	Diyatra	0-150	0.00	57.53	0.00	57.53	
		150-300	0.00	67.34	0.00	67.34	124.87
	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
	Krnta-ki-basti & S.of Bhane-ka-Gao	0-150	0.00	0.96	0.00	0.96	
		150-300	0.06	0.00	0.00	0.06	1.02
	Khar Charan	0-150	0.00	0.00	3.70	3.70	3.70
	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

Contd....

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2016)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Barmer	Lalamdesar	0-150	0.00	0.09	0.00	0.09	0.09
	Lalamdesar Bada	0-150	1.51	0.49	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
	Panch-Peeth-Ki-Dhani	0-150	0.00	0.00	0.09	0.09	0.09
	Pyau	0-150	0.00	0.00	45.56	45.56	62.18
		150-300	0.00	0.00	16.62	16.62	
	Rneri	0-150	33.92	0.00	0.00	33.92	33.92
	Riri	0-150	159.68	0.00	0.00	159.68	182.43
		>150	22.75	0.00	0.00	22.75	
	Sarupdesar-Palana west	0-150	0.00	0.67	0.00	0.67	0.67
	hambu-ki-Burj	0-150	0.00	0.00	0.04	0.04	0.04
	Sowa	0-150	0.00	0.23	0.00	0.23	0.23
	Bharka	0-150	0.00	8.45	0.00	8.45	9.45
		150-300	0.00	1.00	0.00	1.00	
	Bothia-Bhakra- Dunga	0-300	0.00	9.35	0.00	9.35	9.35
	Bothia(Jalipa N Ext.)	0-300	0.00	151.67	0.00	151.67	151.67
	Chokla North	0-300	0.00	0.00	234.77	234.77	234.77
	Giral	0-150	20.00	81.90	0.00	101.90	101.90
Hodu	0-300	0.00	78.17	80.55	158.72	165.57	
	>300	0.00	0.00	6.85	6.85		
Jalipa	0-150	224.28	0.00	0.00	224.28	324.83	
	150-300	100.55	0.00	0.00	100.55		

Contd....

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2016)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Jogeshwartala	0-150	0.00	31.52	0.00	31.52		
		150-300	0.00	3.00	0.00	3.00	34.52	
	Kawas Gravity Block	150-300	0.00	0.00	53.03	53.03	53.03	
	Kapurdi	0-150	150.40	0.00	0.00	150.40	150.40	
	Kurla	0-150	0.00	0.00	68.67	68.67	68.67	
		Kurla East	0-150	0.00	11.47	0.00	11.47	
		(covering Kurla East North & South sub blocks)	150-300	0.00	48.47	0.00	48.47	
			>300	0.00	458.44	250.13	708.57	768.51
	Magne-ki-Dhani	0-150	0.00	0.00	8.78	8.78		
		150-300	0.00	0.00	3.91	3.91		
		>300	0.00	0.00	0.04	0.04	12.74	
	Mahabar-Shivkar	0-150	0.00	9.22	24.30	33.52		
		150-300	0.00	2.93	7.61	10.54	44.06	
	Mithra	0-150	0.00	0.09	0.39	0.48		
		150-300	0.00	0.45	1.53	1.98	2.46	
	Munabao	150-300	0.00	0.00	9.85	9.85	9.85	
	Nagurda	0-150	0.00	103.68	0.00	103.68		
		150-300	0.00	127.87	0.00	127.87		
		>300	0.00	0.70	0.00	0.70	232.25	
	Nagurda (East)	0-150	0.00	18.46	0.00	18.46		
		150-300	0.00	3.23	0.00	3.23	21.69	
	Nimbalkot	0-100	0.00	0.00	8.97	8.97		
		100-300	0.00	0.00	85.49	85.49		
		>300	0.00	0.00	15.14	15.14	109.60	
	Nimbalkot North	0-100	0.00	0.00	1.93	1.93		
		100-300	0.00	0.00	22.34	22.34		
>300		0.00	0.00	3.45	3.45	27.72		
Sachha-Sauda	0-300	0.00	28.70	0.00	28.70	28.70		
Sindhari East	>150	0.00	262.65	0.00	262.65	262.65		

Contd....

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2016)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Sindhari West	>150	0.00	895.03	339.16	1234.19	1234.19
	Sonari	0-300	0.00	43.59	0.00	43.59	43.59
	South of Nimbla	0-150	0.00	0.00	96.39	96.39	
		150-300	0.00	0.00	13.21	13.21	109.60
Jaisalmer & Bikaner	Panna	0-150	0.00	0.00	2.21	2.21	2.21
	Charanwala	0-150	0.00	0.00	5.62	5.62	
		150-300	0.00	0.00	3.64	3.64	9.26
Jaisalmer & barmer	Khuri	0-300	0.00	0.00	13.80	13.80	13.80
Jaisalmer	Bhanda	0-150	0.00	0.00	2.66	2.66	2.66
	Khuiyala	0-150	0.00	0.00	22.52	22.52	22.52
	Ramgarh	0-150	0.00	0.00	40.96	40.96	
		150-300	0.00	0.00	4.30	4.30	45.26
Nagaur& Pali	Kasnau-Igiar	0-150	64.90	0.00	0.00	64.90	64.90
	Matasukh	0-150	10.10	0.00	0.00	10.10	10.10
	Mokala	0-150	0.00	29.00	0.00	29.00	29.00
	Nimbri-Chandawatan	0-150	9.00	0.00	0.00	9.00	9.00
	Kapriion-ka-Dhani	0-150	17.00	0.00	0.00	17.00	17.00
	Merta Road & Meeranagar	0-150	0.00	23.90	59.35	83.25	83.25
	Indawar	0-150	12.00	0.00	0.00	12.00	12.00
	Kuchera	0-150	0.00	0.00	1.00	1.00	1.00
	Lunsara	0-300	0.00	7.17	0.00	7.17	7.17
	Phalki	0-150	0.00	0.18	0.00	0.18	
		150-300	0.00	0.32	0.00	0.32	0.50
	Phalki North	0-150	0.00	0.00	1.98	1.98	
		150-300	0.00	0.00	11.06	11.06	13.04
	Phalodi	0-150	0.00	0.00	0.95	0.95	
		150-300	0.00	0.00	4.70	4.70	5.65
Jalore	Sewara	150-300	0.00	0.00	33.43	33.43	
		>300	0.00	0.00	42.65	42.65	76.08
Total for Rajasthan			1168.53	2670.84	1896.60	5735.97	5735.97

Contd....

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2016)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Gujarat							
Kachchh	Panandhro	0-150	98.00	0.00	0.00	98.00	98.00
	Panandhro Ext.	0-150	0.00	0.00	14.45	14.45	14.45
	Barkhan Dam	0-150	0.00	0.00	7.19	7.19	7.19
	Kaiyari Block-A	0-150	40.36	20.30	0.00	60.66	60.66
	Kaiyari Block-B	0-150	0.00	10.52	0.00	10.52	10.52
	Mata-No-Madh	0-150	34.00	0.00	0.00	34.00	34.00
	Umarsar	0-150	19.47	0.00	0.00	19.47	19.47
	Lakhpatt-Dhedadi(Punahrajpur)	0-150	49.00	24.30	0.00	73.30	73.30
	Akrimota	0-150	91.78	0.00	0.00	91.78	91.78
	Jhularai-Waghpadar	0-150	3.00	0.00	0.00	3.00	3.00
	Hamla-Ratadia	0-150	0.00	0.00	3.00	3.00	3.00
	Pranpur	0-300	0.00	1.28	8.45	9.73	9.73
Bhavnagar	Kharsalia,Rampur,Hoidad, Bhuteshwar, Surka etc.	0-300	0.00	0.00	299.17	299.17	299.17
Bharuch	Bhuri	0-150	10.59	31.56	0.00	42.15	42.15
	Valia,Bhaga,Luna,Pansoli, Nani Pardi etc.	0-150	225.88	0.00	0.00	225.88	
		>150	232.50	0.00	0.00	232.50	
		0-300	251.68	87.03	178.47	517.18	975.56
	Bhimpur	0-150	3.60	0.00	0.00	3.60	
		150-300	0.51	0.00	0.00	0.51	4.11
	Rajpardi (GMDC leasehold) byMEC	0-150	0.00	0.00	20.72	20.72	20.72
	Rajpardi (CGM) by MECL	0-300	0.00	0.00	292.04	292.04	292.04
Surat	Tadkeswar	0-300	0.00	0.00	123.10	123.10	123.10
	Dungra	0-300	0.00	0.00	92.52	92.52	92.52

Contd....

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2016)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Surat	East of Kamrej-Vesma	150-300	0.00	0.00	7.92	7.92	7.92
	Tadkeswar Block-Mongrol, Mandvi, Vastan, Nani Naroli, Ghala etc.	0-300	218.28	108.71	112.67	439.66	439.66
Total for Gujarat			1278.65	283.70	1159.70	2722.05	2722.05
J & K Kupwara	Nichahom	0-150	0.00	20.25	0.00	20.25	20.25
	Nichahom-Budhasung	0-150	0.00	0.00	7.30	7.30	7.30
Total for J & K			0.00	20.25	7.30	27.55	27.55
Kerala Kannanur	Madayi	0-150	0.00	0.00	5.60	5.60	5.60
	Nileswaram	0-150	0.00	0.00	2.50	2.50	2.50
	Kadamkottumala	0-150	0.00	0.00	1.00	1.00	1.00
	Kayyur	0-150	0.00	0.00	0.55	0.55	0.55
Total for Kerala			0.00	0.00	9.65	9.65	9.65
West Bengal	Rakshitpur	0-150	0.00	0.29	0.86	1.15	1.15
	Mahalla	150-300	0.00	0.64	0.00	0.64	0.64
	Dhobbanpur	150-300	0.00	0.20	0.78	0.98	0.98
Total for West Bengal			0.00	1.13	1.64	2.77	2.77
Grand Total for all States			6182.41	26372.70	12039.42	44594.53	44594.53

Table 2.8: PROMOTIONAL EXPLORATION (DRILLING IN METRES) DURING XTH, XITH AND XIITH PLAN

Command Area	Agency	CIL (Coal)	SCCL (Coal)	NLC (Lignite)	TOTAL
Year (1)	(2)	(3)	(4)	(5)	(6)
2002-2007(X Plan)	Geological Survey of India	57652	0	7557	65209
2002-2007(X Plan)	Mineral Exploration Corporation Ltd.	161307	86022	255932	503261
2002-2007(X Plan)	Central Mine Planning & Design Inst.	55019	0	0	55019
2002-2007(XTH Plan)	All Agencies	273978	86022	263489	623489
2007-08	Geological Survey of India	11473	0	7487	18960
2007-08	Mineral Exploration Corporation Ltd.	38563	17154	37863	93580
2007-08	Central Mine Planning & Design Inst.	2992	0	0	2992
2007-08	All Agencies	53028	17154	45350	115532
2008-09	Geological Survey of India	15572	0	7963	23535
2008-09	Mineral Exploration Corporation Ltd.	28448	14730	54454	97632
2008-09	Central Mine Planning & Design Inst.	5646	0	0	5646
2008-09	All Agencies	49666	14730	62417	126813
2009-10	Geological Survey of India	13192	0	5920	19112
2009-10	Mineral Exploration Corporation Ltd.	20799	12303	55127	88229
2009-10	Central Mine Planning & Design Inst.	1992	0	0	1992
2009-10	All Agencies	35983	12303	61047	109333
2010-11	Geological Survey of India	13943	0	5607	19550
2010-11	Mineral Exploration Corporation Ltd.	20283	9638	51796	81717
2010-11	DGM (Nagaland)	83	0	0	83
2010-11	Central Mine Planning & Design Inst.	1318	0	0	1318
2010-11	All Agencies	35627	9638	57403	102668
2011-12	Geological Survey of India	17872	0	5814	23686
2011-12	Mineral Exploration Corporation Ltd.	16769	9228	43750	69747
2011-12	DGM (Nagaland)	289	0	0	289
2011-12	Central Mine Planning & Design Inst.	0	0	0	0
2011-12	All Agencies	34930	9228	49564	93722
TOTAL (XITH Plan)	Geological Survey of India	72052	0	32791	104843
TOTAL (XITH Plan)	Mineral Exploration Corporation Ltd.	124862	63053	242990	430905
TOTAL (XITH Plan)	DGM (Nagaland)	372	0	0	372
TOTAL (XITH Plan)	Central Mine Planning & Design Inst.	11948	0	0	11948
G. TOTAL (XITH Plan)	All Agencies	209234	63053	275781	548068
2012-13	Geological Survey of India	14702	0	8379	23081
2012-13	Mineral Exploration Corporation Ltd.	21695	8899	59349	89943
2012-13	DGM (Nagaland)	328	0	0	328
2012-13	Central Mine Planning & Design Inst.	0	0	0	0
2012-13	All Agencies	36725	8899	67728	113352
2013-14	Geological Survey of India	15589	0	7380	22969
2013-14	Mineral Exploration Corporation Ltd.	37200	9553	61394	108147
2013-14	DGM (Nagaland)	783	0	0	783
2013-14	Central Mine Planning & Design Inst.	123	0	0	123
2013-14(XIITH Plan)	All Agencies	53695	9553	68774	132022
2014-15	Geological Survey of India	18905	0	8446	27351
2014-15	Mineral Exploration Corporation Ltd.	46749	3575	60331	110655
2014-15	DGM (Nagaland)	427	0	0	427
2014-15	Central Mine Planning & Design Inst.	1064	0	0	1064
2014-15(XIITH Plan)	All Agencies	67145	3575	68777	139497
2015-16	Geological Survey of India	16116	0	7953	24069
2015-16	Mineral Exploration Corporation Ltd.	35216	0	52301	87517
2015-16	DGM (Nagaland)	754	0	0	754
2015-16	Central Mine Planning & Design Inst.	0	0	0	0
2015-16(XIITH Plan)	All Agencies	52086	0	60254	112340
TOTAL (XIITH Plan)	Geological Survey of India	65312	0	32158	97470
TOTAL (XIITH Plan)	Mineral Exploration Corporation Ltd.	140860	22027	233375	396262
TOTAL (XIITH Plan)	DGM (Nagaland)	2292	0	0	2292
TOTAL (XIITH Plan)	Central Mine Planning & Design Inst.	1187	0	0	1187
G. TOTAL (XIITH Plan)	All Agencies	209651	22027	265533	497211

Note: XTH Plan 2002-2003 to 2006-2007, XITH Plan 2007-2008 to 2011-2012 and XIITH plan 2012-2013 to 2016-17.

Table 2.9 : DETAILED EXPLORATION (DRILLING IN METERS) DURING XITH AND XIITH PLAN

Command Area	→	CIL										SCCL
Year	Agency	Blocks	ECL	BCCL	CCL	NCL	WCL	SECL	MCL	NEC	TOTAL CIL	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
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/Odisha Govt.	CIL	0	0	0	0	2744	28831	11727	0	41273	0
2002-2007(X Plan)	All Agencies	Total	98354	8391	129728	60175	118415	283519	254631	0	951184	332173
2007-08	DEPARTMENTAL	CIL	22353		26912	3072	26513	47032	27825	0	153707	
2007-08	DEPARTMENTAL	Non-CIL			5233	9396	5886	7763	16873		45151	78380
2007-08	MECL	Non-CIL									0	
2007-08	CG/MP/Odisha Govt.	CIL					1071	3831	2449		7351	
2007-08	All Agencies	Total	22353	0	32145	12468	33470	58626	47147	0	206209	78380
2008-09	DEPARTMENTAL	CIL	25666		27679	14104	23381	48358	23407	0	162595	
2008-09	DEPARTMENTAL	Non-CIL			9485		10705	7570	32176		59936	84686
2008-09	DEPARTMENTAL	Total	25666		37164	14104	34086	55928	55583		222531	84686
2008-09	MECL	Non-CIL									0	
2008-09	CG/MP/Odisha Govt.	CIL						3321	5019		8340	
2008-09	Private /Contractual	CIL		5259			3563	8895		3733	21450	
2008-09	Private /Contractual	Non-CIL						14394			14394	
2008-09	Private /Contractual	Total	0	5259	0	0	3563	23289	0	3733	35844	
2008-09	All Agencies	CIL	25666	5259	27679	14104	26944	60574	28426	3733	192385	
2008-09	All Agencies	Non-CIL	0	0	9485	0	10705	21964	32176	0	74330	84686
2008-09	All Agencies	Total	25666	5259	37164	14104	37649	82538	60602	3733	266715	84686
2009-10	DEPARTMENTAL	CIL	27749		24765	14993	28476	64441	22129	0	182553	
2009-10	DEPARTMENTAL	Non-CIL	1509		14372		10406	9158	44058		79503	92314
2009-10	DEPARTMENTAL	Total	29258		39137	14993	38882	73599	66187		262056	92314
2009-10	MECL	CIL		2047		17378		4720			24145	
2009-10	MECL	Non-CIL									0	
2009-10	CG/MP/Odisha Govt.	CIL						3421	5680		9101	
2009-10	Private /Contractual	CIL		17704			2902	268		10906	31780	
2009-10	Private /Contractual	Non-CIL	19443					120659			140102	
2009-10	Private /Contractual	Total	19443	17704	0	0	2902	120927	0	10906	171882	
2009-10	All Agencies	CIL	27749	19751	24765	32371	31378	72850	27809	10906	247579	
2009-10	All Agencies	Non-CIL	20952	0	14372	0	10406	129817	44058	0	219605	92314
2009-10	All Agencies	Total	48701	19751	39137	32371	41784	202667	71867	10906	467184	92314
2010-11	DEPARTMENTAL	CIL	31779		40504	17954	21724	73999	15056	0	201016	
2010-11	DEPARTMENTAL	Non-CIL					21238	0	45805		67043	101903
2010-11	DEPARTMENTAL	Total	31779		40504	17954	42962	73999	60861		268059	101903
2010-11	MECL	CIL		3588		4012		11486			19086	
2010-11	MECL	Non-CIL				9074					9074	
2010-11	CG/MP/Odisha Govt.	CIL						3661	3546		7207	
2010-11	Private /Contractual	CIL		14046						536	14582	
2010-11	Private /Contractual	Non-CIL	23571					150213			173784	
2010-11	Private /Contractual	Total	23571	14046	0	0	0	150213	0	536	188366	
2010-11	All Agencies	CIL	31779	17634	40504	21966	21724	89146	18602	536	241891	
2010-11	All Agencies	Non-CIL	23571	0	0	9074	21238	150213	45805	0	249901	101903
2010-11	All Agencies	Total	55350	17634	40504	31040	42962	239359	64407	536	491792	101903
2011-12	DEPARTMENTAL	CIL	28920		44631	18435	13655	83654	24290	0	213585	
2011-12	DEPARTMENTAL	Non-CIL					27309	0	27921		55230	100325
2011-12	DEPARTMENTAL	Pvt. Blocks							4204		4204	
2011-12	DEPARTMENTAL	Total	28920		44631	18435	40964	83654	56415		273019	100325
2011-12	MECL	CIL		3466		0		30872			34338	
2011-12	MECL	Non-CIL				23081		38788			61869	9228
2011-12	CG/MP/Odisha Govt.	CIL						3152	3663		6815	
2011-12	Private /Contractual	CIL	3875	13731							17606	
2011-12	Private /Contractual	Non-CIL			20138			84641			104779	
2011-12	Private /Contractual	Total	3875	13731	20138	0	0	84641	0	0	122385	
2011-12	All Agencies	CIL	32795	17197	44631	18435	13655	117678	27953	0	272344	
2011-12	All Agencies	Non-CIL	0	0	20138	23081	27309	123429	32125	0	226082	109553
2011-12(XI Plan)	All Agencies	Total	32795	17197	64769	41516	40964	241107	60078	0	498426	109553

Contd....

Table 2.9 : DETAILED EXPLORATION (DRILLING IN METERS) DURING XITH AND XIITH PLAN

Command Area	Agency	Blocks	CIL									SCCL
			ECL	BCCL	CCL	NCL	WCL	SECL	MCL	NEC	TOTAL CIL	
2012-13	DEPARTMENTAL	CIL	18794		43510	6851	15138	90629	23818	0	198740	
2012-13	DEPARTMENTAL	Non-CIL	10356			14353	26729	3923	22097		77458	120105
2012-13	DEPARTMENTAL	Pvt. Blocks									0	
2012-13	DEPARTMENTAL	Total	29150		43510	21204	41867	94552	45915		276198	120105
2012-13	MECL	CIL		9433		0		28851			38284	
2012-13	MECL	Non-CIL				32734	3214	64529			100477	8899
2012-13	CG/MP/Odisha Govt.	CIL						3409	3989		7398	
2012-13	Private /Contractual	CIL	450	24316	42359		23653				90778	
2012-13	Private /Contractual	Non-CIL	8167		37888			287	3431		49773	
2012-13	Private /Contractual	Total	8617	24316	80247	0	23653	287	3431	0	140551	
2012-13	All Agencies	CIL	19244	33749	85869	6851	38791	122889	27807	0	335200	
2012-13	All Agencies	Non-CIL	18523	0	37888	47087	29943	68739	25528	0	227708	129004
2012-13	All Agencies	Total	37767	33749	123757	53938	68734	191628	53335	0	562908	129004
2013-14	DEPARTMENTAL	CIL	33784		46576		28919	113005	9336	0	231620	
2013-14	DEPARTMENTAL	Non-CIL	6597			24123	14641	6846	41535		93742	117316
2013-14	DEPARTMENTAL	Pvt. Blocks									0	
2013-14	DEPARTMENTAL	Total	40381		46576	24123	43560	119851	50871		325362	117316
2013-14	MECL	CIL		9482		21048		34489			65019	
2013-14	MECL	Non-CIL				9753	12781	83454			105988	9552
2013-14	CG/MP/Odisha Govt.	CIL						3905	2038		5943	
2013-14	Private /Contractual	CIL		30176	86374		39809				156359	
2013-14	Private /Contractual	Non-CIL	7158				923	552	29538		38171	
2013-14	Private /Contractual	Total	7158	30176	86374	0	40732	552	29538	0	194530	
2013-14	All Agencies	CIL	33784	39658	132950	21048	68728	151399	11374	0	458941	
2013-14	All Agencies	Non-CIL	13755	0	0	33876	28345	90852	71073	0	237901	126868
2013-14(XII Plan)	All Agencies	Total	47539	39658	132950	54924	97073	242251	82447	0	696842	126868
2014-15	DEPARTMENTAL	CIL	48637		48833	10220	48121	120176	19605	0	295592	
2014-15	DEPARTMENTAL	Non-CIL				15117		10174	35597		60888	124078
2014-15	DEPARTMENTAL	Pvt. Blocks									0	
2014-15	DEPARTMENTAL	Total	48637		48833	25337	48121	130350	55202		356480	124078
2014-15	MECL	CIL		7199		26660		50439			84298	
2014-15	MECL	Non-CIL				11455	24211	100291			135957	11229
2014-15	CG/MP/Odisha Govt.	CIL						4349	2514		6863	
2014-15	Private /Contractual	CIL		31422	65277		28286	34372			159357	
2014-15	Private /Contractual	Non-CIL	4698				10397	57967	11953		85015	
2014-15	Private /Contractual	Total	4698	31422	65277	0	38683	92339	11953	0	244372	
2014-15	All Agencies	CIL	48637	38621	114110	36880	76407	209336	22119	0	546110	
2014-15	All Agencies	Non-CIL	4698	0	0	26572	34608	168432	47550	0	281860	135307
2014-15(XII Plan)	All Agencies	Total	53335	38621	114110	63452	111015	377768	69669	0	827970	135307
2015-16	DEPARTMENTAL	CIL	54145		46119	19683	56400	151876	19219	0	347442	
2015-16	DEPARTMENTAL	Non-CIL	2542		4858	6626			46601		60627	0
2015-16	DEPARTMENTAL	Pvt. Blocks									0	
2015-16	DEPARTMENTAL	Total	56687	0	50977	26309	56400	151876	65820	0	408069	0
2015-16	MECL	CIL	840			25854		101663			128357	
2015-16	MECL	Non-CIL				16158	12445	75530			104133	14750
2015-16	CG/MP/Odisha Govt.	CIL						2833	2442		5275	
2015-16	Private /Contractual	CIL	27687	22529	13911		12006	142322	2096		220551	
2015-16	Private /Contractual	Non-CIL	1826		7921		26645	66909	9318		112619	
2015-16	Private /Contractual	Total	29513	22529	21832	0	38651	209231	11414	0	333170	
2015-16	All Agencies	CIL	82672	22529	60030	45537	68406	398694	23757	0	701625	
2015-16	All Agencies	Non-CIL	4368	0	12779	22784	39090	142439	55919	0	277379	14750
2015-16(XII Plan)	All Agencies	Total	87040	22529	72809	68321	107496	541133	79676	0	979004	14750

Section III

Production & Productivity

3.1 Production

3.1.1 The coal production in India (including lignite) in the year 2015-16 was 683.072 MT and registered an increase of 3.90% over the last year. From Table 3.1 it can be seen that the production of coal (excluding lignite) was 639.230 MT in 2015-16 against 609.179 MT in 2014-15 and the increase over the last year was 4.93%. In case of lignite, the production decreased from 48.270 MT in 2014-15 to 43.842 MT in 2015-16 and a decrease of 9.17% over the last year.

3.1.2 Statement 3.1 shows production of coal in 2015-16 by different companies.

Statement 3.1: Coal Production (Excluding Lignite) in India by Company			
Company	Coal Production (2015-16) [MT]		
	Coking	Non-coking	Total
ECL	0.012	40.196	40.208
BCCL	32.648	3.213	35.861
CCL	20.697	40.627	61.324
NCL		80.224	80.224
WCL	0.209	44.606	44.815
SECL	0.135	137.799	137.934
MCL		137.901	137.901
NEC		0.487	0.487
CIL	53.701	485.053	538.754
SCCL		60.380	60.380
Other Public	0.961	6.582	7.543
Total Public	54.662	552.015	606.677
Total Private	6.225	26.328	32.553
ALL INDIA	60.887	578.343	639.230

It can be seen that Coal India Ltd. accounted for 84.28% of coal production in the country. The share of SCCL in the coal production was 9.45%. Contribution from public sector and private sector was 94.91% and 5.09% respectively. The major contributors to the country's coal production were SECL, MCL and NCL with share of 21.58%, 21.57%, and 12.55% respectively. These three companies collectively accounted for 55.70% of

the total coal production at all India level during the year 2015-16. From Statement 3.1 it can also be seen that the major share in total coal production was accounted by non-coking coal (90.47%).

3.1.3 Statement 3.2 shows coal production in India during 2015-16 by states. From this statement it can be observed that the four major coal producing states were Odisha (21.7%), Chhattisgarh (20.4%), Jharkhand (18.9%) and Madhya Pradesh (16.8%) which together accounted for about 77.9% of the total coal production in the country.

Statement 3.2: Coal Production in India by State			
States	Coal Production (2015-16) [MT]		
	Coking	N-Coking	Total
Arunachal Pradesh		0	0
Assam		0.487	0.487
Chhattisgarh	0.135	130.470	130.605
Jammu & Kashmir		0.013	0.013
Jharkhand	58.548	62.519	121.067
Madhya Pradesh	0.209	107.505	107.714
Maharashtra		38.351	38.351
Meghalaya		3.712	3.712
Odisha		138.461	138.461
Telangana		60.380	60.380
Uttar Pradesh		12.689	12.689
West Bengal	1.995	23.756	25.751
Total Public	54.662	552.015	606.677
Total Private	6.225	26.328	32.553
All India	60.887	578.343	639.230

3.1.4 Statement 3.2 also shows that almost all coking coal was produced in the state of Jharkhand which accounted for 96.16% of the total coking coal production. From Table 3.2 it can be seen that during 2015-16 the production of coking coal registered an increase of 5.99% over the year 2014-15 whereas in the case of

non-coking coal there was an increase of 4.82% over the previous year..

3.1.5 From Table 3.16 it can be observed that the production from the opencast system of mining accounted for 92.74% of the total coal production and the rest 7.26% was accounted by underground system of mining. From this table it is interesting to note that the share of opencast mining in total coal production has been steadily increasing over time and in the last ten years it has increased from 86.61% in 2006-07 to 92.74% in 2015-16 whereas in case of underground mining the share has a decreasing trend.

3.1.6 The production of coal products decreased from 46.146 MT in 2014-15 to 43.194 MT in 2015-16. From Table 3.3, it can be seen that whereas in 2015-16, production of washed coal (coking) and middling (coking) registered an increase of 1.85% and 16.32% respectively. Production of washed coal (non-coking) showed decrease of 1% over 2014-15, there was no significant change in production of hard coke in 2015-16. It is important to note that in 2015-16, the production of washed coal was 23.301 MT (coking 6.182 MT and non-coking 17.119 MT) against the total raw coal production of 639.230 MT (Coking 60.887 MT and Non-coking 578.343 MT).

3.1.7 Stripping Ratio defined as the ratio of OBR (over burden removal) to coal produced in open cast mining has been of interest to the researchers. From table 3.19 it can be seen that in 2015-16, the stripping ratio at all India level was 2.67 while the corresponding figure for the year 2014-15 was 2.33. In 2015-16, the stripping ratio of CIL was 2.25 and of SCCL 6.25. The stripping ratio for the public sector was 2.61 and for the private sector 3.92. In case of CIL subsidiaries, NEC reported the lowest stripping ratio of 0.01 against the production (OC) of 0.484 MT of coal whereas BCCL reported the highest stripping ratio of 4.36 with the production (OC) of 34.055 MT of coal. NCL reported the second highest stripping ratio of 4.21 with the production (OC) of 80.224 MT.

3.1.8 Output Per Man Shift (OMS) is one of the measures of efficiency for the production. Table 3.20 shows OMS for 2014-15 and 2015-16 of two major players in the public sectors namely CIL and SCCL by type of mining. It is may be seen that during 2015-16, in respect of opencast mining, OMS (in Tonnes) of CIL was 15.35 and SCCL 13.78 against OMS of 14.63 and 12.14

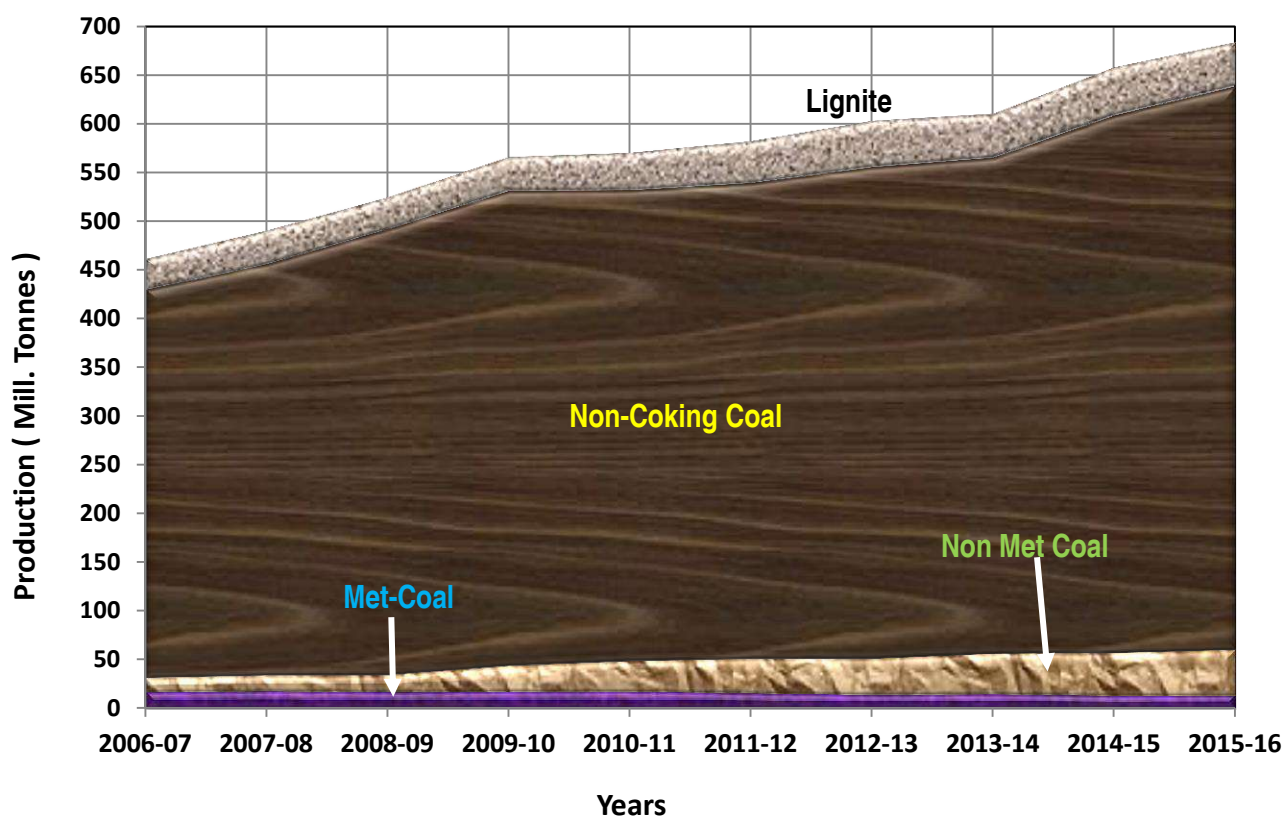
respectively in 2014-15. In case of underground mining the trend is almost static. From Table 3.20 it can also be seen that in case of CIL (OC), OMS has shown an increasing trend in last ten years. It has increased from 8.00 in 2006-07 to 15.35 in 2015-16. OMS (OC) of SCCL also has increasing trend, from 9.50 in 2006-07 it increased to 13.78 in 2015-16.

Year	Company	2014-15	2015-16
OMS (OC)	CIL	14.63	15.35
	SCCL	12.14	13.78
OMS (UG)	CIL	0.78	0.80
	SCCL	1.10	1.25
OMS (OVERALL)	CIL	6.50	7.15
	SCCL	4.20	4.20

3.1.9 Lignite Production: Statement 3.4 shows production of lignite by different companies in 2014-15 and 2015-16. It can be seen that in case of lignite the three major companies were NLC, GMDCL and BLMCL which contributed 58.05%, 15.89% and 15.23% respectively to the total lignite production of 2015-16. In 2015-16, lignite production decreased by 9.17% over 2014-15. However, lignite production increased by 9.03% in 2014-15 over 2013-14. In 2015-16, production of all the companies declined significantly.

Company	2014-15	2015-16
NLC	26.543	25.451
GMDCL	8.713	6.968
BLMCL	7.000	6.679
GIPCL	3.404	3.063
RSMML	1.405	0.972
VSLPL	1.005	0.617
GHCL	0.200	0.092
All India	48.270	43.842

Chart III.1 - Area Graph : Trend of Production of Different types of Solid Fossil Fuel during 2006-2007 to 2015-2016

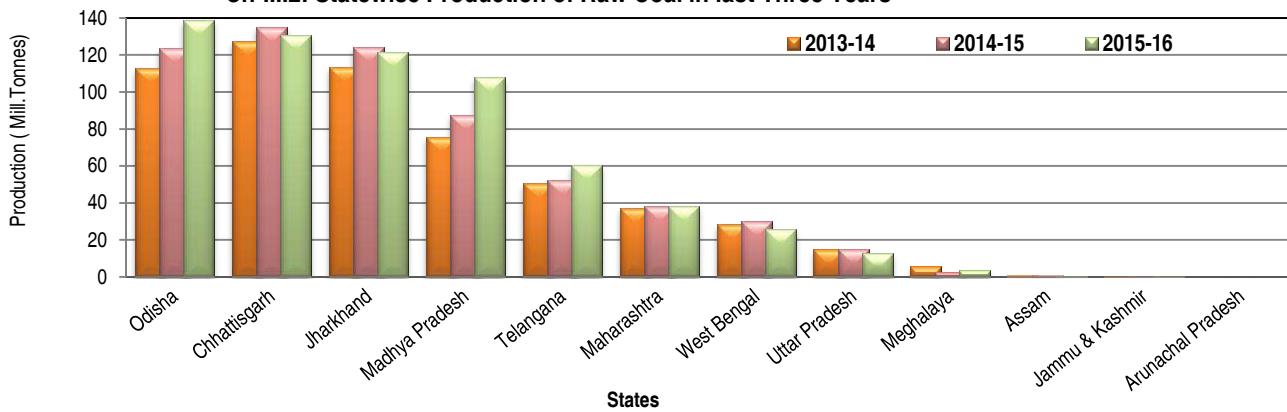


Production of different types of solid fossil fuels during 2006-07 TO 2015-16 (Quantity in Mill.Tonnes).

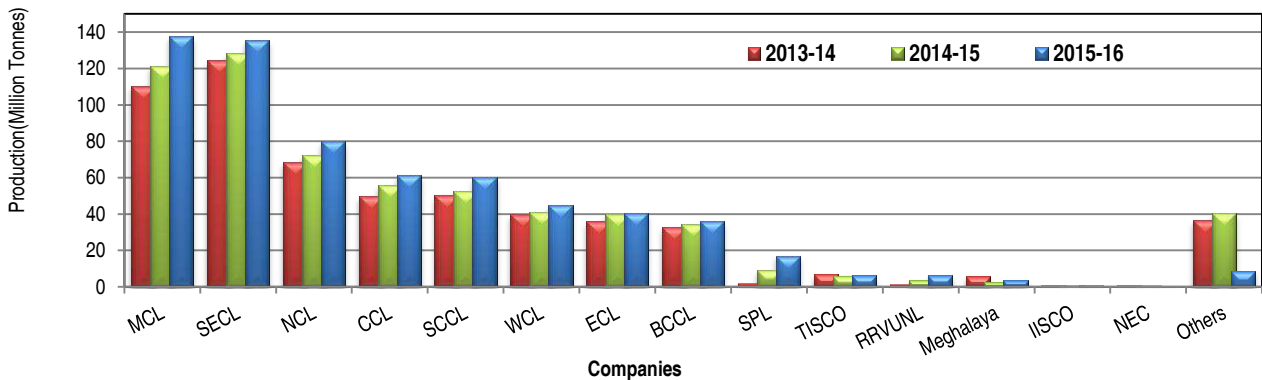
Year	Met Coal	Non Met Coal	Total Coking	Non-Coking	Total Raw Coal	Lignite
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2006-07	17.231	14.866	32.097	398.735	430.832	31.285
2007-08	18.065	16.390	34.455	422.627	457.082	33.980
2008-09	17.301	17.508	34.809	457.948	492.757	32.421
2009-10	17.731	26.682	44.413	487.629	532.042	34.071
2010-11	17.695	31.852	49.547	483.147	532.694	37.733
2011-12	16.239	35.421	51.660	488.290	539.950	42.332
2012-13	14.547	37.035	51.582	504.820	556.402	46.453
2013-14	15.114	41.704	56.818	508.947	565.765	44.271
2014-15	13.784	43.662	57.446	551.733	609.179	48.270
2015-16	14.339	46.548	60.887	578.343	639.230	43.842

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.

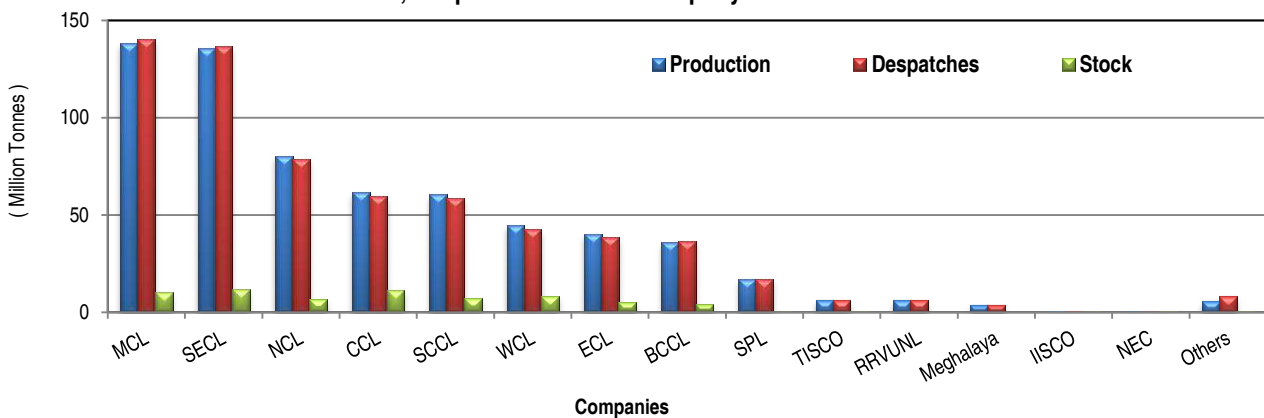
Ch-III.2: Statewise Production of Raw Coal in last Three Years



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



Ch-III.4: Production, Despatches & Stock Companywise in 2015-16



Ch-III.5: Company Share of Production of Raw Coal in 2015-16

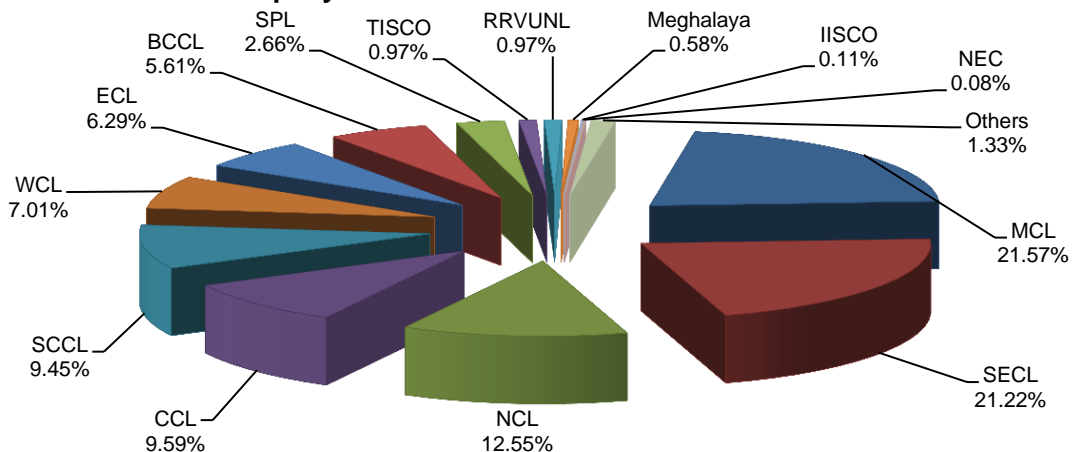


TABLE 3.1: TRENDS OF PRODUCTION OF DIFFERENT SOLID FOSSIL FUELS DURING LAST TEN YEARS

[Quantity in Million Tonnes]

Year	Raw Coal			Lignite			Total Solid Fossil Fuel	
	Production	Share in total solid fossil fuel (%)	Growth over previous year (%)	Production	Share in total solid fossil fuel (%)	Growth over previous year (%)	Production	Growth over previous year (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2006-07	430.832	93.2	5.8	31.285	6.8	3.5	462.117	5.7
2007-08	457.082	93.1	6.1	33.980	6.9	8.6	491.062	6.3
2008-09	492.757	93.8	7.8	32.421	6.2	-4.6	525.178	6.9
2009-10	532.042	94.0	8.0	34.071	6.0	5.1	566.113	7.8
2010-11	532.694	93.4	0.1	37.733	6.6	10.7	570.427	0.8
2011-12	539.950	92.7	1.4	42.332	7.3	12.2	582.282	2.1
2012-13	556.402	92.3	3.0	46.453	7.7	9.7	602.855	3.5
2013-14	565.765	92.7	1.7	44.271	7.3	-4.7	610.036	1.2
2014-15	609.179	92.7	7.7	48.270	7.3	9.0	657.449	7.8
2015-16	639.230	93.6	4.9	43.842	6.4	-9.2	683.072	3.9

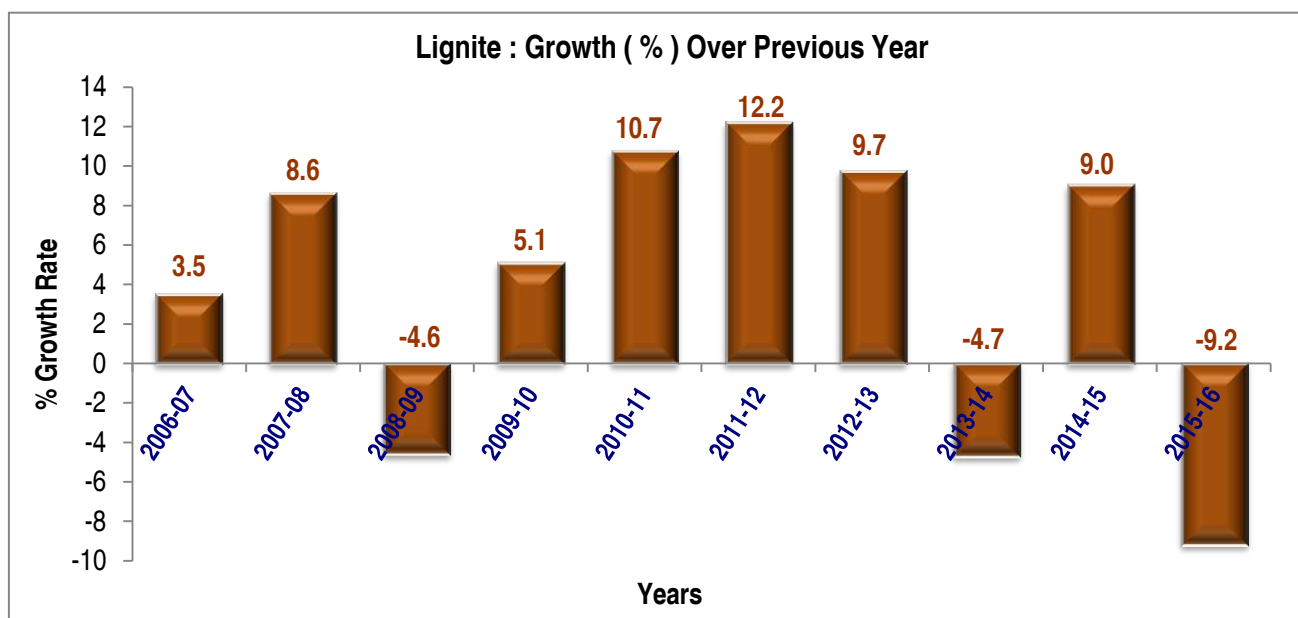
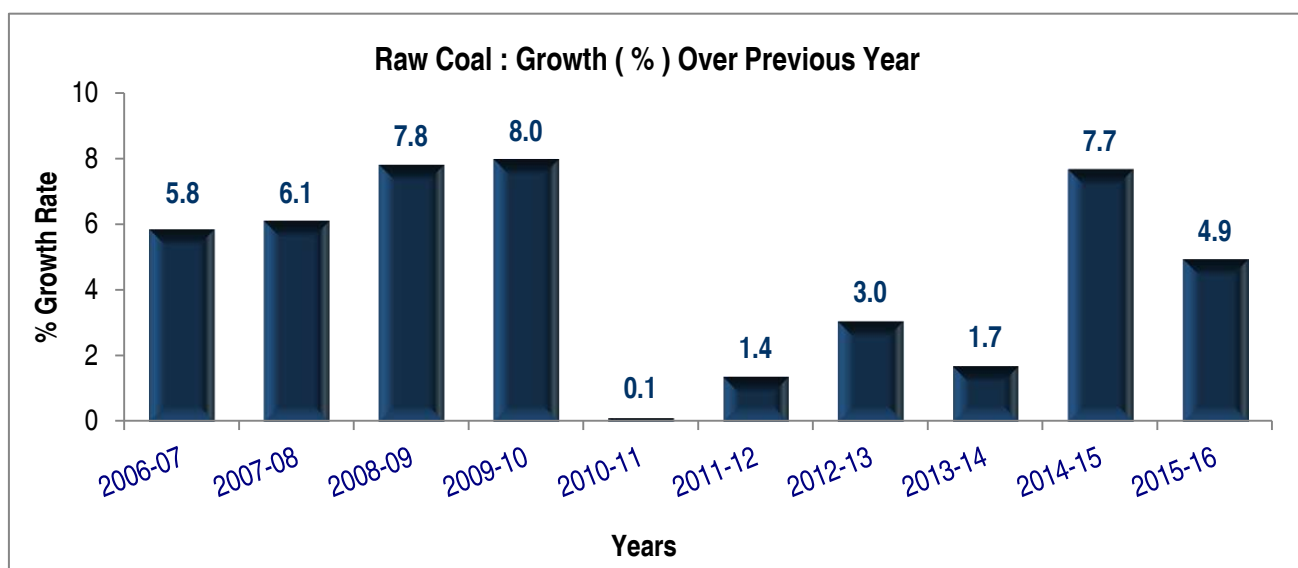


TABLE 3.2: TRENDS OF PRODUCTION OF DIFFERENT TYPES OF RAW COAL DURING LAST TEN YEARS

(Quantity in Million Tonnes)

Year	Coking Coal									Non Coking Coal			Total Raw Coal	
	Metallurgical Coal			Non Metallurgical Coal			Total Coking Coal			Production	Share in total 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 total raw coal(%)	Growth over previous year (%)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
2006-07	17.231	53.7	0.6	14.866	46.3	3.3	32.097	7.5	1.9	398.735	92.5	6.2	430.832	5.8
2007-08	18.065	52.4	4.8	16.390	47.6	10.3	34.455	7.5	7.3	422.627	92.5	6.0	457.082	6.1
2008-09	17.301	49.7	-4.2	17.508	50.3	6.8	34.809	7.1	1.0	457.948	92.9	8.4	492.757	7.8
2009-10	17.731	39.9	2.5	26.682	60.1	52.4	44.413	8.3	27.6	487.629	91.7	6.5	532.042	8.0
2010-11	17.695	35.7	-0.2	31.852	64.3	19.4	49.547	9.3	11.6	483.147	90.7	-0.9	532.694	0.1
2011-12	16.239	31.4	-8.2	35.421	68.6	11.2	51.660	9.6	4.3	488.290	90.4	1.1	539.950	1.4
2012-13	14.547	28.2	-10.4	37.035	71.8	4.6	51.582	9.3	-0.2	504.820	90.7	3.4	556.402	3.0
2013-14	15.114	26.6	3.9	41.704	73.4	12.6	56.818	10.0	10.2	508.947	90.0	0.8	565.765	1.7
2014-15	13.784	24.0	-8.8	43.662	76.0	4.7	57.446	9.4	1.1	551.733	90.6	8.4	609.179	7.7
2015-16	14.339	23.6	4.0	46.548	76.4	6.6	60.887	9.5	6.0	578.343	90.5	4.8	639.230	4.9

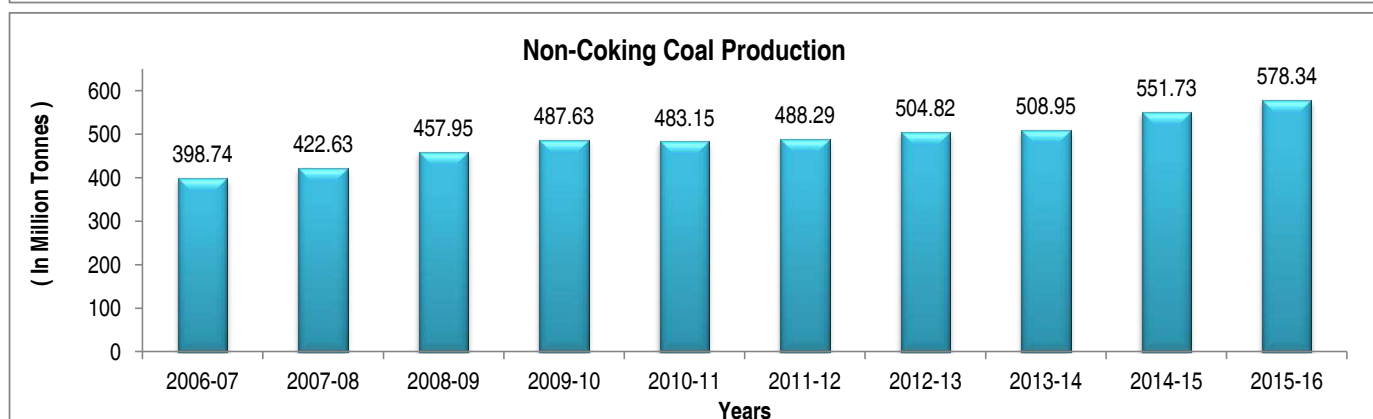
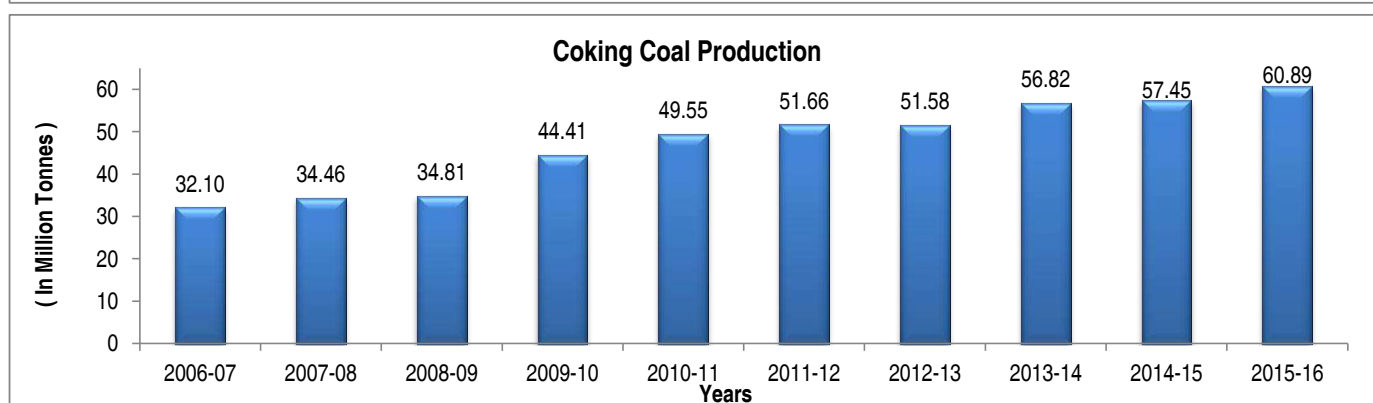
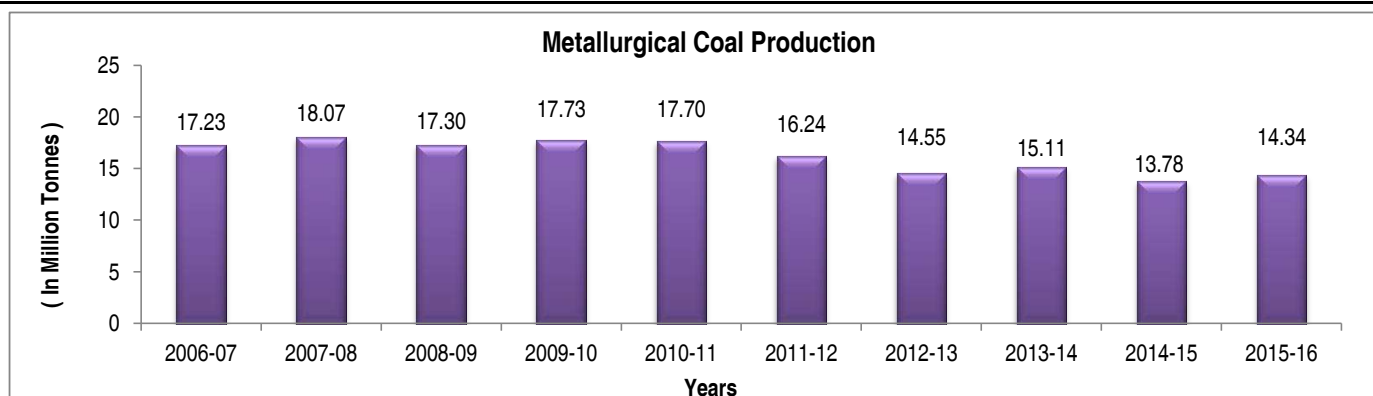
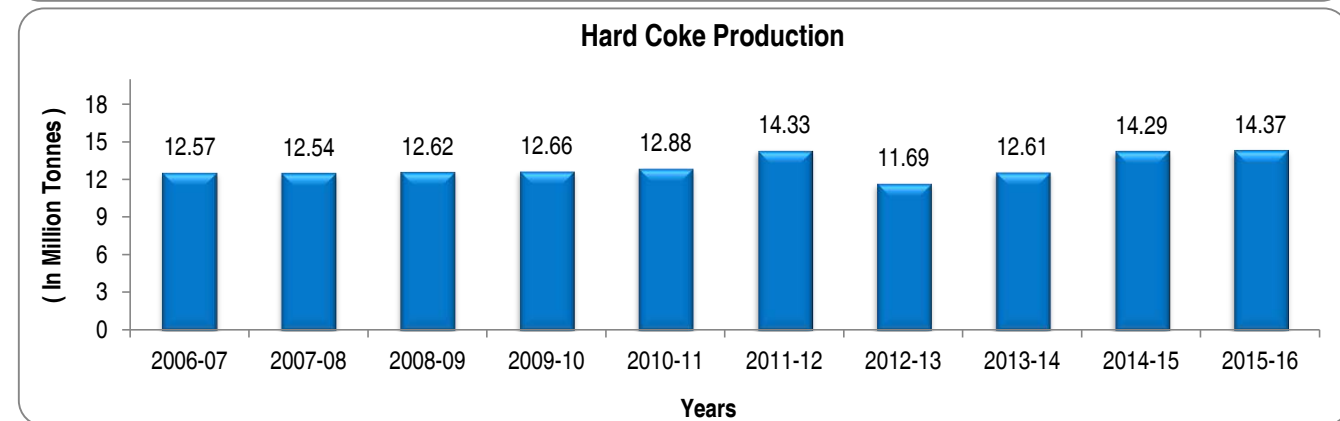
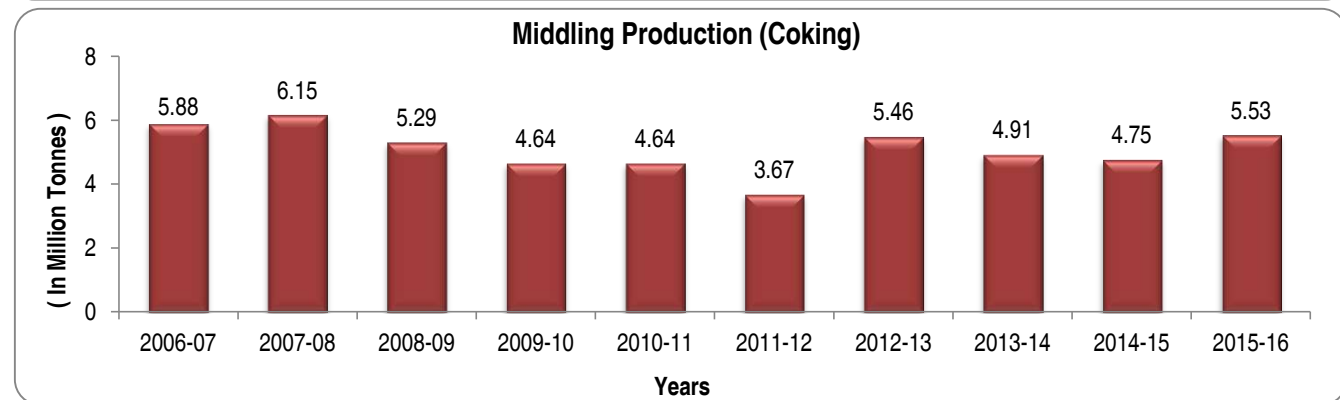
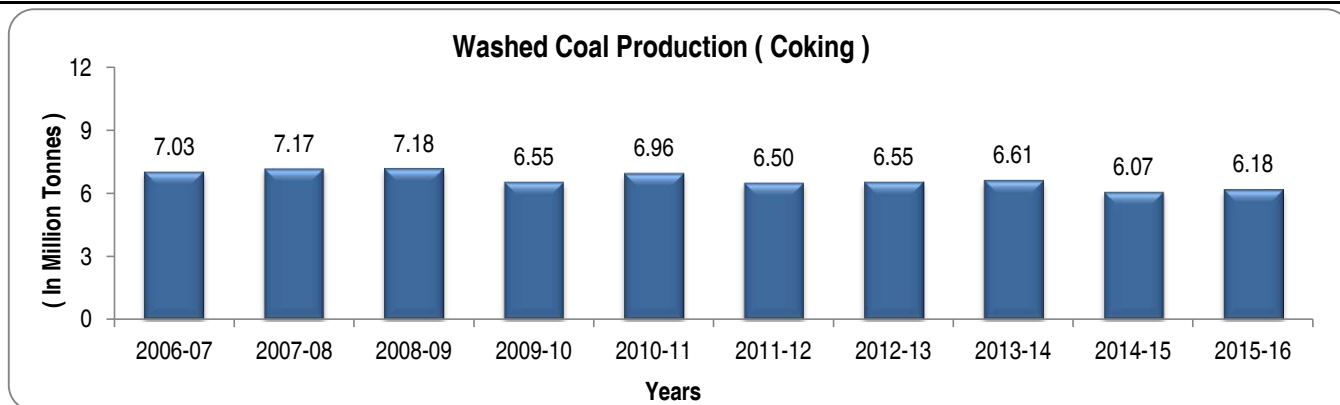


TABLE 3.3: TRENDS OF PRODUCTION OF DIFFERENT TYPES OF COAL PRODUCTS IN LAST TEN YEARS

(Quantity in Million Tonnes)

Year	Washed Coal (Coking)		Washed Coal (N-Coking)		Middlings (Coking)		Middlings (N-Coking)		Hard Coke	
	Production	Growth over previous year (%)	Production	Growth over previous year (%)	Production	Growth over previous year (%)	Production	Growth over previous year (%)	Production (Coking)	Growth over previous year (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2006-07	7.025	-16.1	12.688	1.1	5.876	5.3	2.858	2.3	12.566	-5.9
2007-08	7.171	2.1	12.686	0.0	6.150	4.7	3.276	14.6	12.542	-0.2
2008-09	7.181	0.1	13.550	6.8	5.294	-13.9	3.264	-0.4	12.619	0.6
2009-10	6.547	-8.8	13.963	3.0	4.642	-12.3	3.264	0.0	12.663	0.3
2010-11	6.955	6.2	14.532	4.1	4.643	0.0	3.589	10.0	12.880	1.7
2011-12	6.496	-6.6	15.437	6.2	3.674	-20.9	3.669	2.2	14.330	11.3
2012-13	6.550	0.8	14.190	-8.1	5.464	48.7	3.825	4.3	11.694	-18.4
2013-14	6.614	1.0	15.699	10.6	4.913	-10.1	3.926	2.6	12.606	7.8
2014-15	6.070	-8.2	17.294	10.2	4.750	-3.3	3.742	-4.7	14.290	13.4
2015-16	6.182	1.8	17.119	-1.0	5.525	16.3	0	0.0	14.368	0.5



Note: 1. The above figures relates to Washeries (public & private) of only coal producing companies.
 2. Hard Coke data relates to steel plants only. There are Private sector, specially in small scale, data of which are not readily available.

TABLE 3.4 : QUARTERLY PRODUCTION OF DIFFERENT TYPES OF COAL, LIGNITE & COAL PRODUCTS
IN LAST THREE YEARS
(Quantity in Million Tonnes)

Year & Quarter	Coking Coal			Non Coking Coal			Raw Coal			Lignite		
	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2013-14												
April-June	13.220	13.2	23.3	113.879	-2.5	22.4	127.099	-1.0	22.5	12.639	3.2	28.5
July-Sept.	12.847	20.6	22.6	106.409	5.4	20.9	119.256	6.8	21.1	8.555	-13.5	19.3
Oct-Dec.	13.599	5.8	23.9	131.127	0.3	25.8	144.726	0.8	25.6	9.691	-7.2	21.9
Jan-Mar.	17.152	4.6	30.2	157.532	0.8	31.0	174.684	1.1	30.9	13.386	-3.5	30.2
TOTAL	56.818	10.2	100.0	508.947	0.8	100.0	565.765	1.7	100.0	44.271	-4.7	100.0
2014-15												
April-June	13.800	4.4	24.0	120.558	5.9	21.9	134.358	5.7	22.1	12.855	1.7	26.6
July-Sept.	12.153	-5.4	21.2	116.915	9.9	21.2	129.068	8.2	21.2	9.476	10.8	19.6
Oct-Dec.	14.399	5.9	25.1	147.586	12.6	26.7	161.985	11.9	26.6	10.420	7.5	21.6
Jan-Mar.	17.094	-0.3	29.8	166.674	5.8	30.2	183.768	5.2	30.2	15.519	15.9	32.2
TOTAL	57.446	1.1	100.0	551.733	8.4	100.0	609.179	7.7	100.0	48.270	9.0	100.0
2015-16												
April-June	13.550	-1.8	22.3	131.310	8.9	22.7	144.860	7.8	22.7	9.965	-22.5	22.7
July-Sept.	12.784	5.2	21.0	118.159	1.1	20.4	130.943	1.5	20.5	9.584	1.1	21.9
Oct-Dec.	15.856	10.1	26.0	154.600	4.8	26.7	170.456	5.2	26.7	9.058	-13.1	20.7
Jan-Mar.	18.697	9.4	30.7	174.274	4.6	30.1	192.971	5.0	30.2	15.235	-1.8	34.7
TOTAL	60.887	6.0	100.0	578.343	4.8	100.0	639.230	4.9	100.0	43.842	-9.2	100.0

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

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

(Quantity in Million Tonnes)

Year & Quarter	Washed Coal(Coking)			Washed Coal(Non-coking)			Middling(Coking)			Middling(Non-Coking)			Hard Coke		
	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
2013-14															
April-June	1.658	-1.7	25.1	4.114	36.0	26.2	1.363	-1.8	27.7	1.025	12.5	26.1	3.057	4.7	24.3
July-Sept.	1.684	14.7	25.5	3.993	22.1	25.4	1.212	-1.5	24.7	0.874	-10.7	22.3	3.223	11.3	25.6
Oct-Dec.	1.630	-0.7	24.6	3.857	-0.5	24.6	1.073	-22.3	21.8	0.936	0.5	23.8	3.152	8.4	25.0
Jan-Mar.	1.642	-6.3	24.8	3.735	-7.0	23.8	1.265	-13.7	25.7	1.091	8.7	27.8	3.174	6.9	25.2
TOTAL	6.614	1.0	100.0	15.699	10.6	100.0	4.913	-10.1	100.0	3.926	2.6	100.0	12.606	7.8	100.0
2014-15															
April-June	1.494	-9.9	24.6	3.699	-10.1	21.4	1.017	-25.4	21.4	1.002	-2.2	26.8	3.462	13.2	24.2
July-Sept.	1.451	-13.8	23.9	4.150	3.9	24.0	1.143	-5.7	24.1	0.977	11.8	26.1	3.600	11.7	25.2
Oct-Dec.	1.540	-5.5	25.4	4.731	22.7	27.4	1.241	15.7	26.1	0.921	-1.6	24.6	3.499	11.0	24.5
Jan-Mar.	1.585	-3.5	26.1	4.714	26.2	27.3	1.349	6.6	28.4	0.842	-22.8	22.5	3.729	17.5	26.1
TOTAL	6.070	-8.2	100.0	17.294	10.2	100.0	4.750	-3.3	100.0	3.742	-4.7	100.0	14.290	13.4	100.0
2015-16															
April-June	1.487	-0.5	24.1	3.453	-6.7	20.2	1.017	0.0	21.4	0	-	-	3.726	7.6	25.9
July-Sept.	1.522	4.9	24.6	3.792	-8.6	22.2	1.143	0.0	24.1	0	-	-	3.689	2.5	25.7
Oct-Dec.	1.608	4.4	26.0	4.626	-2.2	27.0	1.241	0.0	26.1	0	-	-	3.558	1.7	24.8
Jan-Mar.	1.565	-1.3	25.3	5.248	11.3	30.7	1.349	0.0	28.4	0	-	-	3.395	-9.0	23.6
TOTAL	6.182	1.8	100.0	17.119	-1.0	100.0	4.750	0.0	100.0	0	-	-	14.368	0.5	100.0

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

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

(3) The above figures relates to Washeries (public & private) of only coal producing companies.

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

TABLE 3.5: MONTHLY PRODUCTION OF DIFFERENT TYPES OF COAL, LIGNITE & COAL PRODUCTS IN 2015-16
(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)
2015-16												
Apr-15	4.616	-1.1	7.6	44.022	7.9	7.6	48.638	7.0	7.6	2.927	-24.6	6.7
May-15	4.546	-5.9	7.5	44.993	11.0	7.8	49.539	9.2	7.7	3.554	-24.6	8.1
Jun-15	4.388	2.0	7.2	42.295	7.9	7.3	46.683	7.3	7.3	3.484	-18.2	7.9
1st Quarter	13.550	-1.8	22.3	131.310	8.9	22.7	144.860	7.8	22.7	9.965	-22.5	22.7
Jul-15	4.155	6.5	6.8	38.036	0.0	6.6	42.191	0.6	6.6	3.077	-0.5	7.0
Aug-15	4.264	3.2	7.0	39.432	0.8	6.8	43.696	1.0	6.8	3.393	-2.0	7.7
Sep-15	4.365	6.0	7.2	40.691	2.4	7.0	45.056	2.8	7.0	3.114	6.5	7.1
2nd Quarter	12.784	5.2	21.0	118.159	1.1	20.4	130.943	1.5	20.5	9.584	1.1	21.9
Oct-15	4.759	4.5	7.8	47.349	5.5	8.2	52.108	5.4	8.2	3.679	25.2	8.4
Nov-15	5.266	9.0	8.6	51.597	4.3	8.9	56.863	4.8	8.9	2.327	-30.7	5.3
Dec-15	5.831	16.2	9.6	55.654	4.5	9.6	61.485	5.5	9.6	3.052	-26.0	7.0
3rd Quarter	15.856	10.1	26.0	154.600	4.8	26.7	170.456	5.2	26.7	9.058	-13.1	20.7
Jan-16	5.890	13.6	9.7	56.860	8.3	9.8	62.750	8.8	9.8	4.434	-3.4	10.1
Feb-16	6.065	11.8	10.0	54.192	3.3	9.4	60.257	4.1	9.4	5.068	7.6	11.6
Mar-16	6.742	4.0	11.1	63.222	2.4	10.9	69.964	2.5	10.9	5.733	-7.8	13.1
4th Quarter	18.697	9.4	30.7	174.274	4.6	30.1	192.971	5.0	30.2	15.235	-1.8	34.7
2015-16	60.887	6.0	100.0	578.343	4.8	100.0	639.230	4.9	100.0	43.842	-9.2	100.0

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, LIGNITE & COAL PRODUCTS IN 2015-16

(Quantity in Million Tonnes)

MONTH	Washed Coal(Coking)			Washed Coal(N-coking)			Middlings(coking)			Middlings(N-coking)			Hard Coke		
	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**	Prdn	Growth*	Share**
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
2015-16															
Apr-15	0.492	-14.4	8.0	1.049	-12.9	6.1	0.345	-24.8	7.3	0	-	-	1.242	25.5	8.6
May-15	0.508	-7.0	8.2	1.156	-23.0	6.8	0.326	-27.9	6.9	0	-	-	1.269	21.8	8.8
Jun-15	0.487	-9.3	7.9	1.248	-11.3	7.3	0.346	-23.5	7.3	0	-	-	1.215	18.5	8.5
1st Quarter	1.487	-10.3	24.1	3.453	-16.1	20.2	1.017	-25.4	21.4	0	-	-	3.726	21.9	25.9
Jul-15	0.507	-9.5	8.2	1.142	-26.2	6.7	0.385	-13.3	8.1	0	-	-	1.252	17.0	8.7
Aug-15	0.488	-8.4	7.9	1.141	-14.2	6.7	0.372	-3.4	7.8	0	-	-	1.258	13.5	8.8
Sep-15	0.527	-10.8	8.5	1.509	35.2	8.8	0.386	0.8	8.1	0	-	-	1.179	12.8	8.2
2nd Quarter	1.522	-9.6	24.6	3.792	-5.0	22.2	1.143	-5.7	24.1	0	-	-	3.689	14.5	25.7
Oct-15	0.506	-7.2	8.2	1.440	15.3	8.4	0.394	19.8	8.3	0	-	-	1.226	17.3	8.5
Nov-15	0.525	0.0	8.5	1.546	28.9	9.0	0.419	18.0	8.8	0	-	-	1.199	16.7	8.3
Dec-15	0.577	3.0	9.3	1.640	16.4	9.6	0.428	10.0	9.0	0	-	-	1.133	4.9	7.9
3rd Quarter	1.608	-1.3	26.0	4.626	19.9	27.0	1.241	15.7	26.1	0	-	-	3.558	12.9	24.8
Jan-16	0.551	-2.3	8.9	1.901	57.9	11.1	0.432	-5.5	9.1	0	-	-	1.188	10.3	8.3
Feb-16	0.513	-6.7	8.3	1.514	29.2	8.8	0.391	-3.2	8.2	0	-	-	1.026	3.6	7.1
Mar-16	0.501	-5.1	8.1	1.833	34.9	10.7	0.526	30.2	11.1	0	-	-	1.181	6.7	8.2
4th Quarter	1.565	-4.7	25.3	5.248	40.5	30.7	1.349	6.6	28.4	0	-	-	3.395	7.0	23.6
2015-16	6.182	-6.5	100.0	17.119	9.0	100.0	4.750	-3.3	100.0	0	-	-	14.368	14.0	100.0

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

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

(3) The above figures relates to Washeries (public & private) of only coal producing companies.

Private washeries (only washeries, having no coal blocks) are not included here.

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

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

(Quantity in Million Tonnes)

Year	State: Arunachal Pradesh			State: Assam			State: Chhattisgarh		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2006-07				1.050	0.2	-4.6	83.241	19.3	9.0
2007-08	0.079	0.0	0.0	1.101	0.2	4.9	90.172	19.7	8.3
2008-09	0.142	0.7	79.7	1.009	0.2	-8.4	101.922	20.7	13.0
2009-10	0.251	1.2	76.8	1.113	0.2	10.3	109.953	20.7	7.9
2010-11	0.299	1.4	19.1	1.101	0.2	-1.1	113.825	21.4	3.5
2011-12	0.221	1.0	-26.1	0.602	0.1	-45.3	113.958	21.1	0.1
2012-13	0.073	0.3	-67.0	0.605	0.1	0.5	117.830	21.2	3.4
2013-14	0	-	-	0.664	0.1	9.8	127.095	22.5	7.9
2014-15	0	-	-	0.779	0.1	17.3	134.764	22.1	6.0
2015-16	0	-	-	0.487	0.1	-37.5	130.605	20.4	-3.1

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)
2006-07	0.016	0.0	-15.8	88.764	20.6	3.9	59.726	13.9	7.5
2007-08	0.017	0.0	6.3	90.895	19.9	2.4	67.841	14.8	13.6
2008-09	0.011	0.0	-35.3	96.272	19.5	5.9	71.325	14.5	5.1
2009-10	0.023	0.0	109.1	105.917	19.9	10.0	74.074	13.9	3.9
2010-11	0.023	0.0	0.0	108.949	20.5	2.9	71.104	13.3	-4.0
2011-12	0.020	0.0	-13.0	109.566	20.3	0.6	71.123	13.2	0.0
2012-13	0.019	0.0	-5.0	111.274	20.0	1.6	75.948	13.6	6.8
2013-14	0.019	0.0	0.0	113.091	20.0	1.6	75.590	13.4	-0.5
2014-15	0.013	0.0	-31.6	124.143	20.4	9.8	87.609	14.4	15.9
2015-16	0.013	0.0	0.0	121.067	18.9	-2.5	107.714	16.9	22.9

Year	State: Maharashtra			State: Meghalaya			State: Odisha		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)
(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
2006-07	36.215	8.4	0.3	5.787	1.3	3.8	81.160	18.8	15.1
2007-08	36.403	8.0	0.5	6.541	1.4	11.5	89.482	19.6	10.3
2008-09	38.705	7.9	6.3	5.489	1.1	-19.2	98.402	20.0	10.0
2009-10	41.005	7.7	5.9	5.767	1.1	4.8	106.409	20.0	8.1
2010-11	39.336	7.4	-4.1	6.974	1.3	17.3	102.565	19.3	-3.6
2011-12	39.159	7.3	-0.4	7.206	1.3	3.2	105.476	19.5	2.8
2012-13	39.134	7.0	-0.1	5.640	1.0	-27.8	110.132	19.8	4.4
2013-14	37.223	6.6	-4.9	5.732	1.0	1.6	112.917	20.0	2.5
2014-15	38.257	6.3	2.8	2.524	0.4	-127.1	123.627	20.3	9.5
2015-16	38.351	6.0	0.2	3.712	0.6	32.0	138.461	21.7	12.0

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.

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

(Quantity in Million Tonnes)

Year	State: Telangana			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)
2006-07	37.707	8.8	4.3	12.228	2.8	-22.2	24.938	5.8	1.9
2007-08	40.604	8.9	7.7	11.426	2.5	-6.6	22.521	4.9	-9.7
2008-09	44.546	9.0	9.7	12.029	2.4	5.3	22.905	4.6	1.7
2009-10	50.429	9.5	13.2	13.968	2.6	16.1	23.133	4.3	1.0
2010-11	51.333	9.6	1.8	15.526	2.9	11.2	21.659	4.1	-6.4
2011-12	52.211	9.7	1.7	16.178	3.0	4.2	24.230	4.5	11.9
2012-13	53.190	9.6	1.9	16.090	2.9	-0.5	26.467	4.8	9.2
2013-14	50.469	8.9	-5.1	14.721	2.6	-8.5	28.244	5.0	6.7
2014-15	52.536	8.6	4.1	14.957	2.5	1.6	29.970	4.9	6.1
2015-16	60.380	9.4	14.9	12.689	2.0	-15.2	25.751	4.0	-14.1

Year	ALL INDIA	
	Quantity	Growth (%)
	(41)	(43)
2006-07	430.832	5.8
2007-08	457.082	6.1
2008-09	492.757	7.8
2009-10	532.042	8.0
2010-11	532.694	0.1
2011-12	539.950	1.4
2012-13	556.402	3.0
2013-14	565.765	1.7
2014-15	609.179	7.7
2015-16	639.230	4.9

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

(Quantity in 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)
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
2012-13	24.844	53.5	1.0	14.528	31.3	-1.7	7.081	15.2	139.0
2013-14	25.056	56.6	0.9	11.588	26.2	-20.2	7.627	17.2	7.7
2014-15	25.190	56.9	1.4	12.317	27.8	-15.2	10.763	24.3	52.0
2015-16	24.227	55.3	-3.3	10.123	23.1	-12.6	9.492	21.7	24.5

Year	ALL INDIA	
	Quantity	Growth (%)
(11)	(12)	(13)
2005-06	30.066	-0.9
2006-07	31.285	4.1
2007-08	33.980	8.6
2008-09	32.421	-4.6
2009-10	34.071	5.1
2010-11	37.733	10.7
2011-12	42.332	12.2
2012-13	46.453	9.7
2013-14	44.271	-4.7
2014-15	48.270	9.0
2015-16	43.842	-9.2

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

[Quantity in Million Tonnes]

Company	2013-14			2014-15			2015-16		
	Coking	Non-coking	Total	Coking	Non-coking	Total	Coking	Non-coking	Total
(1)	(5)	(6)	(7)	(8)	(9)	(10)	(8)	(9)	(10)
ECL	0.048	35.999	36.047	0.034	39.972	40.006	0.012	40.196	40.208
BCCL	30.055	2.557	32.612	30.770	3.742	34.512	32.648	3.213	35.861
CCL	18.441	31.581	50.022	19.326	36.326	55.652	20.697	40.627	61.324
NCL		68.639	68.639		72.484	72.484		80.224	80.224
WCL	0.249	39.480	39.729	0.310	40.837	41.147	0.209	44.606	44.815
SECL	0.125	124.136	124.261	0.126	128.149	128.275	0.135	135.521	135.656
SECL(GP-IV/2&3)								2.278	2.278
MCL		110.439	110.439		121.379	121.379		137.901	137.901
NEC		0.664	0.664		0.779	0.779		0.487	0.487
CIL	48.918	413.495	462.413	50.566	443.668	494.234	53.701	485.053	538.754
SCCL		50.469	50.469		52.536	52.536		60.380	60.380
JKML		0.019	0.019		0.013	0.013		0.013	0.013
DVC		0.054	0.054		0.066	0.066	0.403		0.403
IISCO	0.541	0.081	0.622	0.420	0.206	0.626	0.558	0.169	0.727
SAIL	0.044	0.025	0.069	0.024	0.001	0.025			0.000
JSMDCL			0.000		0.415	0.415		0.190	0.190
RRVUNL		1.197	1.197		3.443	3.443		6.210	6.210
APMDTCL		0.000	0.000		0.000	0.000			
DVC EMTA		1.519	1.519		1.001	1.001			
WBPDCL		2.606	2.606		6.221	6.221			
WBMDTCL		0.726	0.726		1.041	1.041			
PSEB/PANEM		5.879	5.879		3.433	3.433			
KECML		2.502	2.502		2.478	2.478			
MPSMCL		0.005	0.005		1.500	1.500			
Total Public	49.503	478.577	528.080	51.010	516.022	567.032	54.662	552.015	606.677
TISCO	6.905	0.067	6.972	6.027	0.016	6.043	6.225	0.003	6.228
Meghalaya		5.732	5.732		2.524	2.524		3.712	3.712
BALCO								0.120	0.120
CESC								1.877	1.877
GMR								0.560	0.560
HIL		2.478	2.478		2.248	2.248		0.069	0.069
JPVL								2.800	2.800
SIL		0.148	0.148		0.196	0.196		0.165	0.165
SPL		1.695	1.695		9.406	9.406		17.022	17.022
ICML		2.708	2.708		3.449	3.449			
JSPL		5.999	5.999		5.989	5.989			
MIEL		0.919	0.919		1.000	1.000			
BLA		0.300	0.300		0.300	0.300			
PIL		1.000	1.000		1.000	1.000			
JNL		0.446	0.446		0.703	0.703			
JPL		6.226	6.226		6.248	6.248			
ESCL	0.410	0.051	0.461	0.409	0.024	0.433			
UML		0.762	0.762		0.790	0.790			
SEML		1.165	1.165		1.189	1.189			
BSIL		0.081	0.081		0.031	0.031			
TUML/SVSL		0.317	0.317		0.198	0.198			
SOVA		0.276	0.276		0.400	0.400			
GVK		0.000	0.000		0.000	0.000			
Total Private	7.315	30.370	37.685	6.436	35.711	42.147	6.225	26.328	32.553
ALL INDIA	56.818	508.947	565.765	57.446	551.733	609.179	60.887	578.343	639.230
LIGNITE									
NLC			26.609			26.543			25.451
GMDCL			8.398			8.713			6.968
GIPCL			3.006			3.404			3.063
RSMMML			1.428			1.405			0.972
GHCL			0.190			0.200			0.092
VSLPPL			0.890			1.005			0.617
BLMCL			3.750			7.000			6.679
ALL INDIA			44.271			48.270			43.842
COAL & LIGNITE			610.036			657.449			683.072

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

(Quantity in Million Tonnes)

State	2011-12	2012-13	2013-14	2014-15	2015-16
(1)	(2)	(3)	(4)	(5)	(6)
COKING					
Chhattisgarh	0.189	0.157	0.125	0.126	0.135
Jharkhand	51.108	51.065	55.088	56.430	58.548
Madhya Pradesh	0.319	0.330	0.249	0.310	0.209
West Bengal	0.044	0.030	1.356	0.580	1.995
Total Coking	51.660	51.582	56.818	57.446	60.887
NON-COKING					
Arunachal Pradesh	0.221	0.073	0.000	0.000	0.000
Assam	0.602	0.605	0.664	0.779	0.487
Chhattisgarh	113.769	117.673	126.970	134.638	130.470
Jammu & Kashmir	0.020	0.019	0.019	0.013	0.013
Jharkhand	58.458	60.209	58.003	67.713	62.519
Madhya Pradesh	70.804	75.618	75.341	87.299	107.505
Maharashtra	39.159	39.134	37.223	38.257	38.351
Meghalaya	7.206	5.640	5.732	2.524	3.712
Odisha	105.476	110.132	112.917	123.627	138.461
Telangana	52.211	53.190	50.469	52.536	60.380
Uttar Pradesh	16.178	16.090	14.721	14.957	12.689
West Bengal	24.186	26.437	26.888	29.390	23.756
Total Non-Coking	488.290	504.820	508.947	551.733	578.343
Total Coal	539.950	556.402	565.765	609.179	639.230

TABLE 3.10: STATEWISE PRODUCTION OF LIGNITE IN LAST FIVE YEARS

(Quantity in Million Tonnes)

State	2011-12	2012-13	2013-14	2014-15	2015-16
(1)	(2)	(3)	(4)	(5)	(6)
Gujarat	14.779	14.528	11.588	12.317	10.123
Rajasthan	2.963	7.081	7.627	10.763	9.492
Tamilnadu	24.590	24.844	25.056	25.190	24.227
TOTAL	42.332	46.453	44.271	48.270	43.842

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

[Quantity in Million Tonnes]

STATES	COAL COMPANY	2013-2014			2014-2015			2015-2016		
		Coking	N-Coking	Total	Coking	N-Coking	Total	Coking	N-Coking	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Arunachal Pradesh	APMDTCL	0.000	0.000	0.000	0	0	0	0	0	0
Assam	NEC	0.664	0.664	0.664	0.779	0.779	0.779	0.487	0.487	0.487
Chhattisgarh	SECL	0.125	110.018	110.143	0.126	115.066	115.192	0.135	121.793	121.928
Chhattisgarh	SECL(GP-IV/2&3)							2.278	2.278	2.278
Chhattisgarh	HIL							0.069	0.069	0.069
Chhattisgarh	BALCO							0.120	0.120	0.120
Chhattisgarh	RRVUNL		1.197	1.197	3.443	3.443	3.443	6.210	6.210	6.210
Chhattisgarh	JSPL		5.999	5.999	5.989	5.989	5.989			
Chhattisgarh	MIEL		0.919	0.919	1.000	1.000	1.000			
Chhattisgarh	PIL		1.000	1.000	1.000	1.000	1.000			
Chhattisgarh	JPL		6.226	6.226	6.248	6.248	6.248			
Chhattisgarh	JNL		0.446	0.446	0.703	0.703	0.703			
Chhattisgarh	SEML		1.165	1.165	1.189	1.189	1.189			
Chhattisgarh	CML			0		0	0			0
Chhattisgarh	TOTAL	0.125	126.970	127.095	0.126	134.638	134.764	0.135	130.470	130.605
Jammu & Kashmir	JKML	0.019	0.019	0.019	0.013	0.013	0.013	0.013	0.013	0.013
Jharkhand	ECL	0.038	17.133	17.171	0.030	19.372	19.402	0.012	19.035	19.047
Jharkhand	BCCL	28.709	2.356	31.065	30.194	3.270	33.464	30.653	2.650	33.303
Jharkhand	CCL	18.441	31.581	50.022	19.326	36.326	55.652	20.697	40.627	61.324
Jharkhand	JSMDCL		0	0		0.415	0.415		0.190	0.190
Jharkhand	DVC		0.054	0.054		0.066	0.066	0.403		0.403
Jharkhand	IISCO CJ	0.541		0.541	0.420		0.420	0.558	0.014	0.572
Jharkhand	TISCO	6.905	0.067	6.972	6.027	0.016	6.043	6.225	0.003	6.228
Jharkhand	CML			0.000			0.000			0.000
Jharkhand	PSEB/PANEM		5.879	5.879		3.433	3.433			
Jharkhand	UML		0.762	0.762		0.790	0.790			
Jharkhand	ESCL	0.410	0.051	0.461	0.409	0.024	0.433			
Jharkhand	SAIL	0.044	0.025	0.069	0.024	0.001	0.025			
Jharkhand	WBPDCCL		0.095	0.095		4.000	4.000			
Jharkhand	GVK		0.000	0.000		0	0			
Jharkhand	TOTAL	55.088	58.003	113.091	56.430	67.713	124.143	58.548	62.519	121.067
Madhya Pradesh	NCL		53.918	53.918		57.527	57.527		67.535	67.535
Madhya Pradesh	WCL	0.249	5.305	5.554	0.310	5.483	5.793	0.209	6.420	6.629
Madhya Pradesh	SECL		14.118	14.118		13.083	13.083		13.728	13.728
Madhya Pradesh	SPL		1.695	1.695		9.406	9.406		17.022	17.022
Madhya Pradesh	JPVL								2.800	2.800
Madhya Pradesh	BLA		0.300	0.300		0.300	0.300			
Madhya Pradesh	MPSMCL		0.005	0.005		1.500	1.500			
Madhya Pradesh	TOTAL	0.249	75.341	75.590	0.310	87.299	87.609	0.209	107.505	107.714
Maharashtra	WCL		34.175	34.175		35.354	35.354		38.186	38.186
Maharashtra	SIL		0.148	0.148		0.196	0.196		0.165	0.165
Maharashtra	BSIL		0.081	0.081		0.031	0.031			
Maharashtra	KECML		2.502	2.502		2.478	2.478			
Maharashtra	TUML/SVSL		0.317	0.317		0.198	0.198			
Maharashtra	TOTAL	0.000	37.223	37.223	0	38.257	38.257	0	38.351	38.351
Meghalaya	MEG		5.732	5.732		2.524	2.524		3.712	3.712
Odisha	MCL		110.439	110.439		121.379	121.379		137.901	137.901
Odisha	HIL		2.478	2.478		2.248	2.248			
Odisha	GMR								0.560	0.560
Odisha	TOTAL		112.917	112.917		123.627	123.627		138.461	138.461
Telangana	SCCL		50.469	50.469		52.536	52.536		60.380	60.380
Uttar Pradesh	NCL		14.721	14.721		14.957	14.957		12.689	12.689
West Bengal	ECL	0.010	18.866	18.876	0.004	20.600	20.604		21.161	21.161
West Bengal	BCCL	1.346	0.201	1.547	0.576	0.472	1.048	1.995	0.563	2.558
West Bengal	IISCOR		0.081	0.081		0.206	0.206		0.155	0.155
West Bengal	CESC								1.877	1.877
West Bengal	ICML		2.708	2.708		3.449	3.449			
West Bengal	WBPDCCL		2.511	2.511		2.221	2.221			
West Bengal	DVC EMTA		1.519	1.519		1.001	1.001			
West Bengal	WBMDTCL		0.726	0.726		1.041	1.041			
West Bengal	SOVA		0.276	0.276		0.400	0.400			
West Bengal	TOTAL	1.356	26.888	28.244	0.580	29.390	29.970	1.995	23.756	25.751
Total Public		49.503	478.577	528.080	51.010	516.022	567.032	54.662	552.015	606.677
Total Private	TOTAL	7.315	30.370	37.685	6.436	35.711	42.147	6.225	26.328	32.553
All India		56.818	508.947	565.765	57.446	551.733	609.179	60.887	578.343	639.230

TABLE 3.12: COMPANYWISE PRODUCTION OF DIFFERENT COAL PRODUCTS COKING IN LAST THREE YEARS
(Quantity in Thousand Tonnes)

YEAR	Companies	Washed Coal (Coking)	Middling (Coking)	Hard Coke	CIL Coke	Coke Fines	Coal gas (Mill. NM3)	Coal fines
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2013-14	BCCL	953	1261					
	CCL	1358	1085					
	WCL	120	89					
	DCC				26	25	45	204
	SAIL			7724				
	IISCO	408	266	529				
	RINL			2427				
	TISCO	3656	2165	1926				
	ESCL	119	47					
	TOTAL	6614	4913	12606	26	25	45	204
2014-15	BCCL	387	1251					
	CCL	1648	1156					
	WCL	73	71					
	DCC				22	22	32	137
	SAIL			8259				
	IISCO	517	395	790				
	RINL			2362				
	TISCO	3267	1801	2879				
	ESCL	178	76					
	TOTAL	6070	4750	14290	22	22	32	137
2015-16	BCCL	599	1604					
	CCL	1471	1633					
	WCL	81	57					
	DCC				16	18	22	93
	SAIL			8321				
	IISCO	581	478	796				
	RINL			2552				
	TISCO	3450	1753	2699				
	ESCL							
	TOTAL	6182	5525	14368	16	18	22	93

Coke production of RINL is included in this table.

TABLE 3.13: GRADEWISE PRODUCTION OF COKING COAL BY COMPANIES IN 2015-16

(Quantity in Million Tonnes)

Companies	PRODUCTION OF COKING COAL										
	Steel-I	Steel-II	SC-1	Wash-I	Wash-II	Wash-III	Wash-IV	SLV	Met.Coal	Non Met	Total Coking
ECL						0.012			0.012	0.000	0.012
BCCL	0.037	1.033		0.200	1.914	8.951	20.513		3.220	29.428	32.648
CCL		0.018		0.215	0.236	2.881	17.347		4.115	16.582	20.697
NCL										0.000	0.000
WCL					0.209				0.209	0.000	0.209
SECL			0.135							0.135	0.135
SECL(GP-IV/2&3)											0.000
MCL										0.000	0.000
NEC										0.000	0.000
CIL	0.037	1.051	0.135	0.415	2.359	11.844	37.860	0.000	7.556	46.145	53.701
SCCL											0.000
JKML											0.000
JSMDCCL											0.000
DVC							0.403		0.000	0.403	0.403
IISCO						0.075	0.483		0.558	0.000	0.558
SAIL											0.000
RRVUNL											0.000
Total Public	0.037	1.051	0.135	0.415	2.359	11.919	38.746	0.000	8.114	46.548	54.662
TISCO					0.134	1.049	5.042	0.000	6.225	0.000	6.225
Meghalaya											0.000
BALCO											0.000
CESC											0.000
GMR											0.000
HIL											0.000
JPVL											0.000
SIL											0.000
SPL											0.000
Total Private	0.000	0.000	0.000	0.000	0.134	1.049	5.042	0.000	6.225	0.000	6.225
ALL INDIA	0.037	1.051	0.135	0.415	2.493	12.968	43.788	0.000	14.339	46.548	60.887

Contd....

TABLE 3.13: GRADEWISE PRODUCTION OF NON COKING COAL BY COMPANIES IN 2015-16

(Quantity in Million Tonnes)

Companies	PRODUCTION OF NON-COKING COAL																			Total N-coking	Total Coal
	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16	G17	UNG			
ECL	0.094	1.347	14.104	5.146	1.347	2.608	0.149						15.401							40.196	40.208
BCCL		0.309	0.360	0.076	1.135	1.219	0.001	0.113												3.213	35.861
CCL			0.032	2.239	0.984	0.895	3.877	11.707	12.950	5.981	1.962									40.627	61.324
NCL				0.503	0.212	17.838	11.404		48.950		1.317									80.224	80.224
WCL			0.016	0.355	1.207	2.707	14.006	22.462	3.853											44.606	44.815
SECL		3.533	3.003	7.124	8.103	4.384	1.034	1.021	1.722	94.778	10.819									135.521	135.656
SECL(GP-IV/2&3)													1.049	1.229						2.278	2.278
MCL				0.073			0.130	0.921		11.737	75.265	49.775								137.901	137.901
NEC	0.119	0.247		0.121																0.487	0.487
CIL	0.119	0.341	5.189	17.636	15.516	12.988	29.651	30.601	36.224	67.475	112.496	89.363	65.176	1.049	1.229	0.000	0.000	0.000		485.053	538.754
SCCL				0.786		9.387	2.384	8.235	4.642	17.725	1.022	12.272		2.844	0.418	0.653	0.012			60.380	60.380
JKML																	0.013			0.013	0.013
JSMDC												0.190								0.190	0.190
DVC																				0.000	0.403
IISCO			0.029		0.126													0.014		0.169	0.727
SAIL																				0.000	0.000
RRVUNL										6.210										6.210	6.210
Total Public	0.119	0.341	5.189	17.665	16.302	13.114	39.038	32.985	44.459	72.117	136.431	90.575	77.448	1.049	4.073	0.418	0.666	0.026		552.015	606.677
TISCO												0.003								0.003	6.228
Meghalaya	3.712																			3.712	3.712
BALCO							0.120													0.120	0.120
CESC									1.877											1.877	1.877
GMR												0.170	0.390							0.560	0.560
HIL									0.045	0.023		0.001								0.069	0.069
JPVL										2.800										2.800	2.800
SIL							0.165													0.165	0.165
SPL										10.693	6.329									17.022	17.022
Total Private	3.712	0.000	0.000	0.000	0.000	0.000	0.000	0.165	0.120	10.738	11.029	0.003	0.171	0.390	0.000	0.000	0.000	0.000		26.328	32.553
ALL INDIA	3.831	0.341	5.189	17.665	16.302	13.114	39.038	33.150	44.579	82.855	147.460	90.578	77.619	1.439	4.073	0.418	0.666	0.026		578.343	639.230

TABLE 3.14: GRADEWISE PRODUCTION OF COKING COAL AND NON COKING COAL BY STATES IN 2015-16

(Quantity in Million Tonnes)

Grade	Arunachal Pradesh	Assam	Chhattisgarh	Jammu & Kashmir	Jharkhand	Madhya Pradesh	Maharashtra	Meghalaya	Odisha	Telangana	Uttar Pradesh	West Bengal	India (2015-16)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(13)
Steel-I					0.037								0.037
Steel-II					1.051								1.051
SC			0.135										0.135
Wash-I					0.415								0.415
Wash-II					1.859	0.209						0.425	2.493
Wash-III					11.398							1.570	12.968
Wash-IV					43.788								43.788
SLV1													0.000
Met.Coal					14.130	0.209							14.339
Non Met	0.000	0.000	0.135	0.000	44.418	0.000	0.000	0.000	0.000	0.000	0.000	1.995	46.548
Total Coking	0.000	0.000	0.135	0.000	58.548	0.209	0.000	0.000	0.000	0.000	0.000	1.995	60.887
G1		0.119						3.712					3.831
G2		0.247										0.094	0.341
G3			1.696		0.663	1.837						0.993	5.189
G4		0.121	1.761		0.392	1.258						14.133	17.665
G5			6.172		3.693	1.523	0.168		0.073	0.786	0.119	3.768	16.302
G6			2.035		2.877	6.759	0.516				0.212	0.715	13.114
G7			0.755		2.546	23.496	0.678			9.387		2.176	39.038
G8			1.034		4.027	5.736	12.845		0.130	2.384	6.994		33.150
G9			1.141		11.820	2.171	20.291		0.921	8.235			44.579
G10			1.767		12.950	54.279	3.853			4.642	5.364		82.855
G11			101.011		5.981	9.129			11.737	17.725		1.877	147.460
G12			10.819		2.155	1.317			75.265	1.022			90.578
G13			0.001		15.401				49.945	12.272			77.619
G14			1.049						0.390				1.439
G15			1.229							2.844			4.073
G16										0.418			0.418
G17				0.013						0.653			0.666
UNG					0.014					0.012			0.026
Total Non-Coking	0.000	0.487	130.470	0.013	62.519	107.505	38.351	3.712	138.461	60.380	12.689	23.756	578.343
India (15-16)	0.000	0.487	130.605	0.013	121.067	107.714	38.351	3.712	138.461	60.380	12.689	25.751	639.230

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

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

(Quantity in Million Tonnes)

Type	Grade	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Grade	2012-13	2013-14	2014-15	2015-16
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(New)	(9)	(10)	(11)	(12)
PRODUCTION OF COKING COAL	Steel-I	0.127	0.083	0.075	0.109	0.263	0.083	Steel-I	0.072	0.061	0.050	0.037
	Steel-II	0.559	0.282	0.960	1.380	1.558	1.135	Steel-II	1.37	0.604	0.456	1.051
	SC-1	0.182	0.181	0.169	0.167	0.17	0.199	SC-1	0.167	0.135	0.130	0.135
	Wash-I	0.291	0.471	0.318	0.297	0.235	0.246	Wash-I	0.26	0.145	0.115	0.415
	Wash-II	3.171	2.085	1.717	1.868	1.757	1.815	Wash-II	1.711	2.042	2.228	2.493
	Wash-III	6.737	7.759	8.090	10.068	10.165	13.147	Wash-III	12.346	12.616	12.335	12.968
	Wash-IV	20.999	23.568	23.472	30.524	35.399	35.035	Wash-IV	35.656	40.962	42.132	43.788
	SLV1	0.031	0.026	0.008	0	0	0	SLV1	0	0.253	0.000	0
	Met.Coal	17.231	18.065	17.301	17.731	17.695	13.784	Met.Coal	14.547	15.114	13.784	14.339
	Non Met	14.866	16.390	17.508	26.682	31.852	37.876	Non Met	37.035	41.704	43.662	46.548
Total Coking	32.097	34.455	34.809	44.413	49.547	51.660	Total Coking	51.582	56.818	57.446	60.887	
PRODUCTION OF NON - COKING COAL	A	4.958	4.901	10.179	10.692	12.182	14.942	G1	5.899	6.13	2.740	3.831
	B	20.815	21.959	24.854	25.827	24.023	59.312	G2	0.48	0.416	0.565	0.341
	C	53.059	55.526	51.058	56.147	55.581	28.918	G3	5.622	5.374	5.469	5.189
	D	42.439	45.721	48.006	50.518	45.710	77.109	G4	17.619	21.526	19.025	17.665
	E	98.079	102.277	112.993	117.855	121.227	78.257	G5	15.162	13.236	14.789	16.302
	F	165.673	178.877	201.286	219.097	212.693	205.194	G6	22.708	17.714	22.680	13.114
	G							G7	34.842	35.837	37.838	39.038
								G8	24.189	28.273	30.523	33.15
								G9	66.817	57.003	52.704	44.579
								G10	59.118	55.405	64.411	82.855
								G11	120.369	126.328	130.703	147.46
								G12	36.932	56.372	79.169	90.578
								G13	81.09	68.984	76.348	77.619
	G14	3.168	4.556	5.054	1.439							
	G15	3.968	3.858	3.806	4.073							
	G16	1.63	3.093	2.627	0.418							
	G17	5.207	4.786	3.258	0.666							
	Ungraded	5.979	6.776	0.240	0.394	1.119	10.846		0.056	0.024	0.026	
Total Non-Coking	398.735	422.627	457.948	487.629	483.147	488.290		504.820	508.947	551.733	578.343	
TOTAL COAL	430.832	457.082	492.757	532.042	532.694	539.950		556.402	565.765	609.179	639.230	

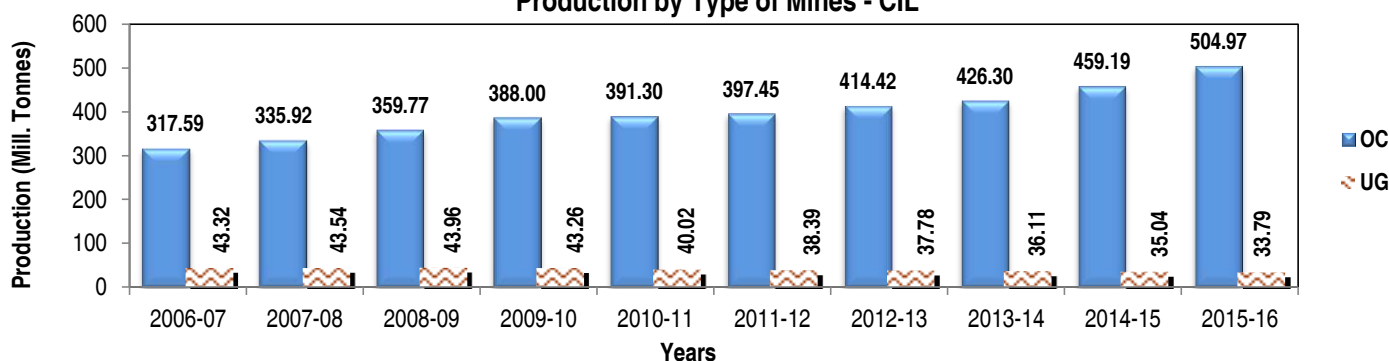
Note: (1) Meghalaya Coal has not been graded by Coal Controller. For Statistical purpose grade may be treated as "A" / (2) For definition of grade please see page I.2

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

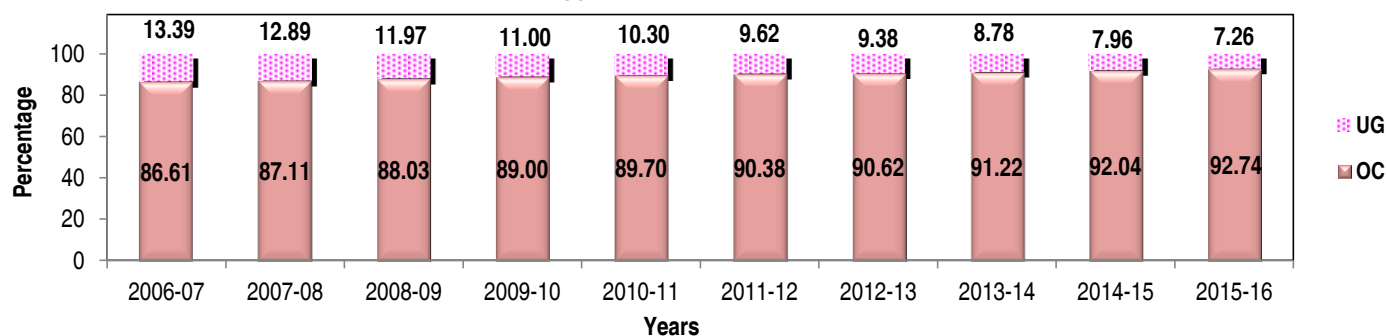
(Quantity in Million Tonnes)

YEAR	Open Cast					Under Ground					All India Raw Coal	
	Production			OC Share (%) in All India Total	OC Growth (%) (All India)	Production			UG Share (%) in All India Total	UG Growth (%) (All India)	Production	Growth (%)
	by CIL	by SCCL	All India			by CIL	by SCCL	All India				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2006-07	317.591	25.831	373.134	86.61	7.82	43.322	11.876	57.698	13.39	-5.36	430.832	5.85
2007-08	335.918	27.959	398.182	87.11	6.71	43.541	12.645	58.900	12.89	2.08	457.082	6.09
2008-09	359.771	32.459	433.785	88.03	8.94	43.959	12.087	58.972	11.97	0.12	492.757	7.80
2009-10	387.997	38.460	473.519	89.00	9.16	43.262	11.969	58.523	11.00	-0.76	532.042	7.97
2010-11	391.303	39.705	477.839	89.70	0.91	40.018	11.628	54.855	10.30	-6.27	532.694	0.12
2011-12	397.445	41.573	487.993	90.38	2.12	38.393	10.638	51.957	9.62	-5.28	539.950	1.36
2012-13	414.423	41.593	504.195	90.62	3.32	37.777	11.597	52.207	9.38	0.48	556.402	3.05
2013-14	426.300	39.921	516.116	91.22	2.36	36.113	10.548	49.649	8.78	-4.90	565.765	1.68
2014-15	459.191	42.333	560.667	92.04	8.63	35.043	10.203	48.512	7.96	-2.29	609.179	7.67
2015-16	504.969	49.727	592.822	92.74	5.74	33.785	10.653	46.408	7.26	-4.34	639.230	4.93

Production by Type of Mines - CIL



Percentage Distribution of Production by Type of Mines - INDIA



Production by Type of Mines - SCCL

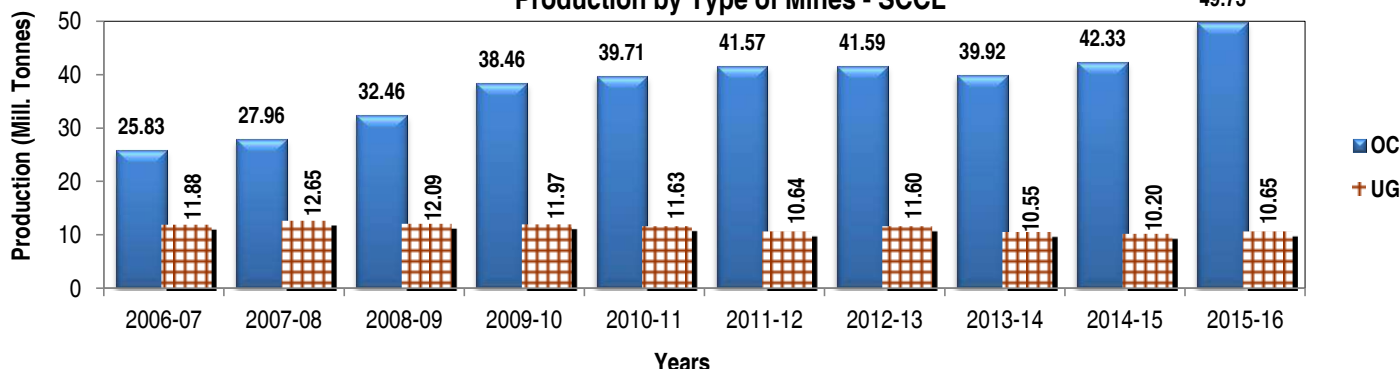


TABLE 3.17 : COMPANY WISE PRODUCTION OF RAW COAL FROM OPENCAST AND UNDER GROUND MINES IN TWO YEARS

(Quantity in Million Tonnes)

COMPANIES	Y E A R 2014 - 2015						Y E A R 2015 - 2016					
	OPENCAST			UNDER GROUND			OPENCAST			UNDER GROUND		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
ECL	32.714	5.82	12.13	7.292	15.03	6.13	32.879	5.55	0.50	7.329	15.79	0.51
BCCL	32.483	5.78	8.61	2.029	4.18	-24.96	34.055	5.74	4.84	1.806	3.89	-10.99
CCL	54.811	9.76	11.71	0.841	1.73	-12.03	60.476	10.20	10.34	0.848	1.83	0.83
NCL	72.484	12.90	5.60				80.224	13.53	10.68			
WCL	33.581	5.98	4.94	7.566	15.60	-2.12	37.635	6.35	12.07	7.180	15.47	-5.10
SECL	112.239	19.98	4.07	16.036	33.06	-2.31	120.149	20.27	7.05	15.507	33.41	-3.30
SECL(GP-IV/2&3)							2.278	0.38	0.00			
MCL	120.103	21.38	10.18	1.276	2.63	-10.96	136.789	23.07	13.89	1.112	2.40	-12.85
NEC	0.776	0.14	17.40	0.003	0.01	0.00	0.484	0.08	-37.63	0.003	0.01	0.00
CIL	459.191	81.73	7.72	35.043	72.24	-2.96	504.969	85.18	9.97	33.785	72.80	-3.59
SCCL	42.333	7.53	6.04	10.203	21.03	-3.27	49.727	8.39	17.47	10.653	22.96	4.41
JKML				0.013	0.03	-31.58				0.013	0.03	0.00
DVC	0.066	0.01	22.22				0.403	0.07	510.61			
IISCO	0.360	0.06	-16.86	0.266	0.55	40.74	0.459	0.08	27.50	0.268	0.58	0.75
JSMDC	0.415	0.07	0.00				0.190	0.03	-54.22			
RRVUNL	3.443	0.61	187.64				6.210	1.05	80.37			
SAIL	0.025	0.00	-63.77									
DVCEMTA	1.001	0.18	-34.10									
APMDTCL	0.000	0.00	0.00									
WBMDTCL	1.041	0.19	43.39									
WBPDC	6.221	1.11	138.72									
PSEB-PANEM	3.433	0.61	-41.61									
KECML	2.478	0.44	-0.96									
MPSMCL	1.500	0.27	29900									
PUBLIC	521.507	92.82	8.37	45.525	93.84	-2.87	561.958	94.79	7.76	44.719	96.36	-1.77
TISCO	4.715	0.84	-15.86	1.328	2.74	-2.92	4.772	0.80	1.21	1.456	3.14	9.64
Meghalaya	2.524	0.45	-55.97				3.712	0.63	47.07			
BALCO							0.120	0.02	0.00			
CESC							1.877	0.32	0.00			
GMR							0.560	0.09	0.00			
HIL	2.248	0.40	-9.28				0.001	0.00	-99.96	0.068	0.15	0.00
JPVL							2.800	0.47	0.00			
SIL				0.196	0.40	32.43				0.165	0.36	-15.82
SPL	9.406	1.67	454.93				17.022	2.87	80.97			
ICML	3.449	0.61	27.36									
JSPL	5.989	1.07	-0.17									
MIEL				1.000	2.06	8.81						
BLA	0.300	0.05	0.00									
PIL	1.000	0.18	0.00									
JNL	0.342	0.06	106.02	0.361	0.74	28.93						
JPL	6.248	1.11	0.35									
ESCL	0.331	0.06	-16.41	0.102	0.21	56.92						
UML	0.790	0.14	3.67									
SEML	1.189	0.21	2.06									
BSIL	0.031	0.01	-61.73									
TUML-SVSL	0.198	0.04	-37.54									
SOVA	0.400	0.07	44.93									
SEML	1.189	0.21	2.06									
PRIVATE	40.349	7.18	15.60	2.987	6.16	7.45	30.864	5.21	-23.51	1.689	3.64	-43.45
All India	561.856	100.00	8.86	48.512	100.00	-2.29	592.822	100.00	5.51	46.408	100.00	-4.34

Note: For Meghalaya it has been 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 2015-16

(Quantity in Million Tonnes)

Type of Mine	OPENCAST						UNDER GROUND												Total Quantity
Technology:	Mechanised		Manual		Total OC		Conven. B & P		Mecha. B & P		Conven. LW		Mecha. LW		Other Methods		Total UG		
Company	Quantity	% of OC	Quantity	% of OC	Quantity	% of Tot	Quantity	% of UG	Quantity	% of UG	Quantity	% of UG	Quantity	% of UG	Quantity	% of UG	Quantity	% of Tot	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
ECL	32.879	5.5			32.879	81.8	0.416	5.7	6.913	94.3						0.0	7.329	18.2	40.208
BCCL	34.055	5.7			34.055	95.0	0.022	1.2	1.432	79.3	0.021				0.331	18.3	1.806	5.0	35.861
CCL	60.236	10.2	0.240	0.4	60.476	98.6	0.285	33.6	0.563	66.4							0.848	1.4	61.324
NCL	80.224	13.5			80.224	100.0											0.000	0.0	80.224
WCL	37.635	6.4			37.635	84.0	0.135	1.9	7.045	98.1						0.0	7.180	16.0	44.815
SECL	120.149	20.3			120.149	88.6		0.0	13.131	84.7					2.376	15.3	15.507	11.4	135.656
SECL(GP-IV/2&3)	2.278	0.4			2.278	100.0											0.000	0.0	2.278
MCL	136.789	23.1			136.789	99.2			1.112	100.0							1.112	0.8	137.901
NEC	0.484	0.1			0.484	99.4									0.003	100.0	0.003	0.6	0.487
CIL	504.729	85.2	0.240	14.8	504.969	93.7	0.858	2.5	30.196	89.4	0.021	0.1	0.000	0.0	2.710	8.0	33.785	6.3	538.754
SCCL	49.727	8.4			49.727	82.4	0.437	4.1	7.256	68.1			1.868	17.5	1.092	10.3	10.653	17.6	60.380
JKML		0.0			0.000	0	0.013	100.0									0.013	100.0	0.013
JSMDCL	0.190	0.0			0.190	100											0	0	0
DVC	0.403	0.1			0.403	100.0											0	0	0.403
IISCO	0.459	0.1			0.459	63.1	0.002							0.266			0	0	0.727
SAIL		0.0			0.000												0	0	0.000
RRVUNL	6.210	1.0			6.210	100.0											0	0	6.210
Total Public	561.718	94.8	0.240	5.2	561.958	92.6	1.310	2.9	37.452	83.7	0.021	0.0	1.868	4.2	4.068	18.3	44.719	7.4	606.677
TISCO	4.772	0.8			4.772	76.6	0.274	18.8	1.182	81.2							1.456	23.4	6.228
Meghalaya	3.712	0.6			3.712	100.0											0	0	3.712
BALCO	0.120	0.0			0.120	100.0											0	0	0.120
CESC	1.877	0.3			1.877	100.0											0.000	0.0	1.877
GMR	0.560	0.1			0.560	100.0											0.000	0.0	0.560
HIL	0.001	0.0			0.001	1.4			0.068								0	99	0.069
JPVL	2.800	0.5			2.800	100.0											0	0	2.800
SIL		0.0			0.000	0.0			0.165								0	100	0.165
SPL	17.022	2.9			17.022	100.0											0	0	17.022
PRIVATE	30.864	5.2	0.000	94.8	30.864	94.8	0.274	16.2	1.415	83.8	0.000	0.0	0.000	0.0	0.000	0.0	1.689	100.0	32.553
India(15-16)	592.582	100.0	0.240	0.0	592.822	92.7	1.584	3.4	38.867	83.8	0.021	0.0	1.868	4.0	4.068	8.8	46.408	7.3	639.230

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 2013 - 2014			YEAR 2014 - 2015			YEAR 2015 - 2016		
	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	85.757	29.176	2.94	94.047	32.714	2.87	119.219	32.879	3.63
BCCL	85.410	29.908	2.86	103.901	32.483	3.20	148.591	34.055	4.36
CCL	59.022	49.066	1.20	96.351	54.811	1.76	103.571	60.476	1.71
NCL	208.787	68.639	3.04	210.614	72.484	2.91	338.090	80.224	4.21
WCL	120.076	31.999	3.75	122.914	33.581	3.66	155.145	37.635	4.12
SECL	144.875	107.845	1.34	158.268	112.239	1.41	174.824	120.149	1.46
MCL	96.028	109.006	0.88	89.221	120.103	0.74	98.410	136.789	0.72
NEC	6.584	0.661	9.96	10.180	0.776	13.12	0.007	0.484	0.01
SECL(GP-IV/2&3)							0.543	2.278	0.24
CIL	806.539	426.300	1.89	885.496	459.191	1.93	1138.400	504.969	2.25
SCCL	168.776	39.921	4.23	262.820	42.333	6.21	310.763	49.727	6.25
JKML									
DVC	0.015	0.054	0.28	0.131	0.066	1.98	0.328	0.403	0.81
IISCO	1.540	0.433	3.56	1.162	0.360	3.23	2.626	0.459	5.72
SAIL	0.079	0.069	1.14	0.029	0.025	1.16			
JSMDCL				1.161	0.415	2.80	0.420	0.190	2.21
DVC EMTA	6.316	1.519	4.16	6.342	1.001	6.34			
APMDTCL									
RRVUNL	4.924	1.197	4.11	3.836	3.443	1.11	11.966	6.210	1.93
WBMDTCL	2.879	0.726	3.97	2.879	1.041	2.77			
WBPDCCL	13.323	2.606	5.11	14.312	6.221	2.30			
PSEB-PANEM	21.877	5.879	3.72	5.798	3.433	1.69			
KECML	8.716	2.502	3.48	6.631	2.478	2.68			
MPSMCL	1.746	0.005	349.20	9.050	1.500	6.03			
PUBLIC	1036.730	481.211	2.15	1199.647	521.507	2.30	1464.503	561.958	2.61
TISCO	22.242	5.604	3.97	20.142	4.715	4.27	18.161	4.772	3.81
Meghalaya		5.732			2.524			3.712	
ICML	8.172	2.708	3.02	8.854	3.449	2.57			
JSPL	8.778	5.999	1.46	9.241	5.989	1.54			
HIL	2.168	2.478	0.87	2.393	2.248	1.06		0.001	0.00
MIEL									
BLA	1.440	0.300	4.80	0.882	0.300	2.94			
PIL	7.994	1.000	7.99	5.200	1.000	5.20			
JNL	0.861	0.166	5.19	2.062	0.342	6.03			
JPL	12.347	6.226	1.98	9.275	6.248	1.48			
SIL									
ESCL	4.092	0.396	10.33	2.192	0.331	6.62			
UML	8.256	0.762	10.83	5.127	0.790	6.49			
SEML	2.138	1.165	1.84	3.004	1.189	2.53			
BSIL	0.488	0.081	6.02	0.145	0.031	4.68			
TUML-SVSL	0.916	0.317	2.89	0.613	0.198	3.10			
SPL	19.927	1.695	11.76	30.505	9.406	3.24	65.692	17.022	3.86
SOVA	1.148	0.276	4.16	0.946	0.400	2.37			
CESC							6.540	1.877	
GMR							0.993	0.560	
BALCO							1.813	0.120	
JPVL							13.290	2.800	
PRIVATE	100.967	34.905	3.46	100.581	39.160	2.75	106.489	30.864	3.92
INDIA	1137.697	516.116	2.23	1300.228	560.667	2.33	1570.992	592.822	2.67

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

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

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

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

(in Tonnes)

Year	OMS (OPEN CAST)		OMS (UNDER GROUND)		OMS (OVERALL)	
	CIL	SCCL	CIL	SCCL	CIL	SCCL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2006-07	8.00	9.50	0.71	0.90	3.54	1.91
2007-08	8.60	10.76	0.73	1.02	3.79	2.10
2008-09	8.95	10.60	0.76	1.05	4.09	3.01
2009-10	9.48	10.71	0.78	1.08	4.48	3.36
2010-11	10.06	11.98	0.77	1.10	4.74	3.59
2011-12	10.40	13.26	0.75	1.10	4.92	3.94
2012-13	11.68	11.87	0.77	1.13	5.32	3.14
2013-14	13.16	11.10	0.76	1.12	5.79	3.86
2014-15	14.63	12.14	0.78	1.10	6.50	4.20
2015-16	15.35	13.78	0.80	1.25	7.15	4.20

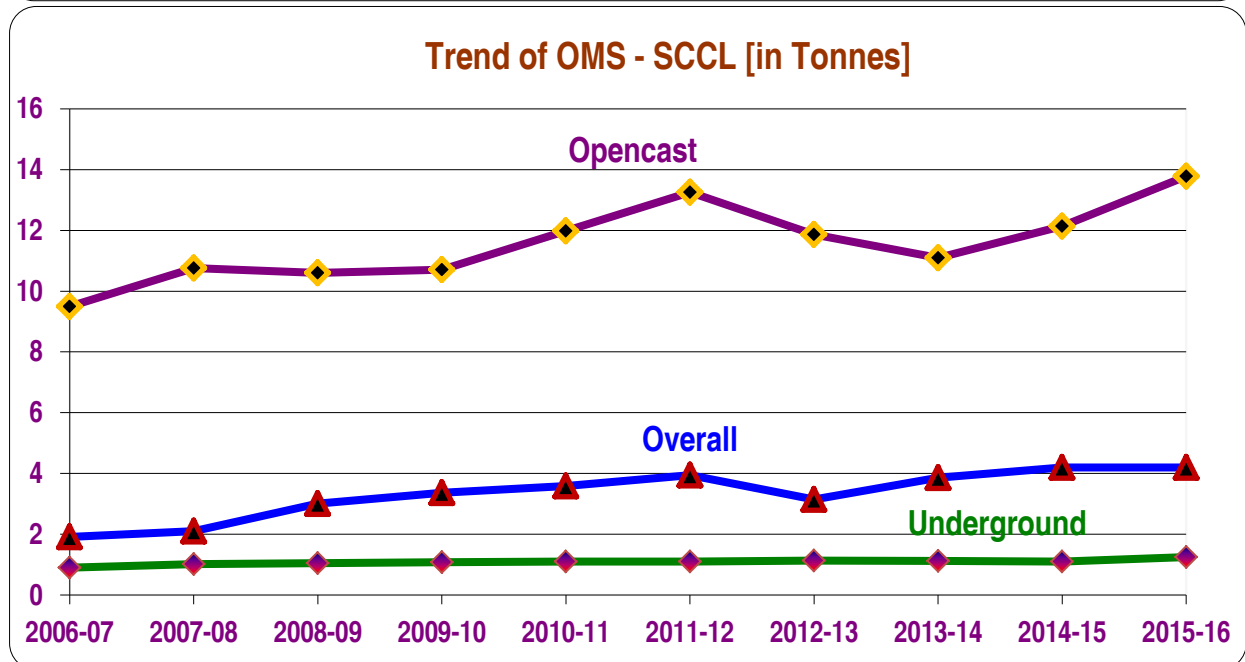
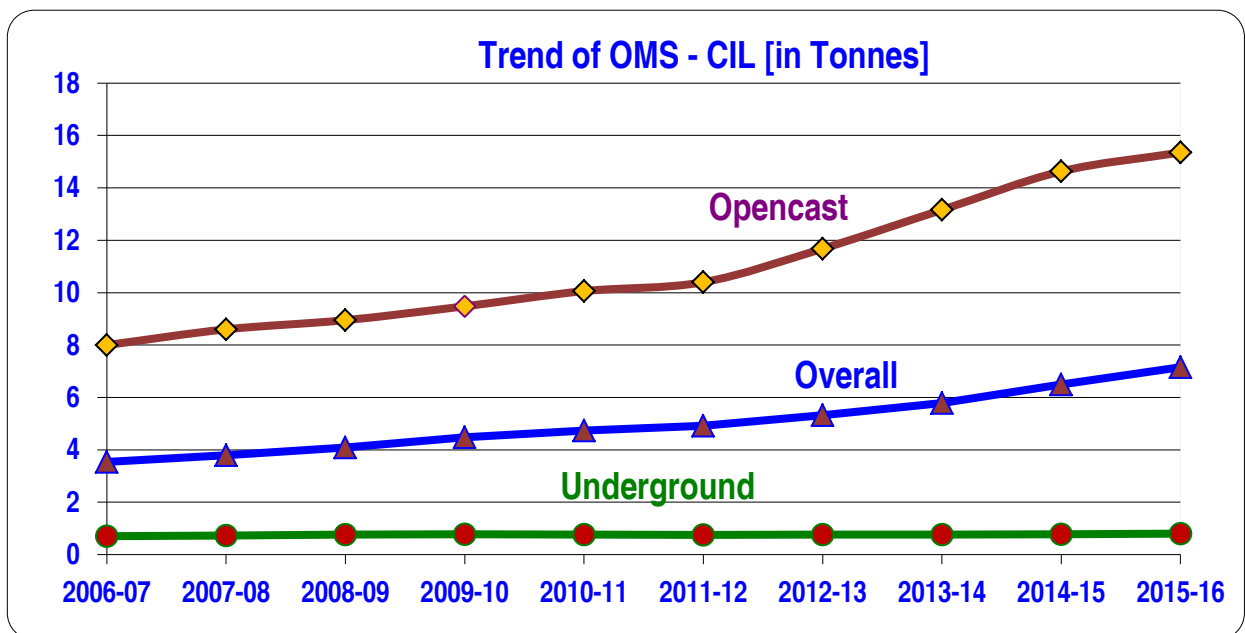


TABLE 3.21 : COMPANY WISE PRODUCTION, MANSHIFTS & OMS (CIL & SCCL) BY TYPE OF MINES DURING LAST THREE YEARS

Companies	Type of Mines	2013-2014			2014-2015			2015-2016		
		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	29.176	2.662	11.30	32.714	2.699	12.12	32.879	2.648	12.42
BCCL	OC	29.908	3.190	9.38	32.483	3.533	9.19	34.055	3.379	10.48
CCL	OC	49.066	6.886	6.26	54.811	6.807	7.56	60.476	6.786	8.91
NCL	OC	68.639	4.450	13.78	72.484	5.268	13.70	80.224	4.276	21.24
WCL	OC	31.999	6.228	5.14	33.581	4.677	5.72	37.635	4.790	5.41
SECL	OC	107.845	5.028	19.26	112.239	4.698	23.89	120.149	5.118	23.48
SECL(GP-IV/2&3)								2.278	0.090	25.31
MCL	OC	109.006	3.523	22.16	120.103	3.555	22.11	136.789	5.642	24.00
NEC	OC	0.661	0.315	2.10	0.776	0.152	5.10	0.484	0.173	2.80
CIL	OC	426.300	32.282	13.16	459.191	31.389	14.63	504.969	32.902	15.35
SCCL	OC	39.921	2.662	11.10	42.333	2.700	12.14	49.727	2.758	13.78
ECL	UG	6.871	14.304	0.48	7.292	13.657	0.53	7.329	13.056	0.56
BCCL	UG	2.704	8.654	0.31	2.029	7.894	0.26	1.806	7.408	0.24
CCL	UG	0.956	2.931	0.33	0.841	2.940	0.29	0.848	2.640	0.32
NCL	UG									
WCL	UG	7.730	7.200	1.07	7.566	6.723	1.13	7.180	6.455	1.11
SECL	UG	16.416	12.155	1.37	16.036	11.559	1.39	15.507	11.090	1.40
SECL(GP-IV/2&3)										
MCL	UG	1.433	1.726	0.84	1.276	1.694	0.77	1.112	1.662	1.00
NEC	UG	0.003	0.279	0.01	0.003	0.235	0.01	0.003	0.178	0.01
CIL	UG	36.113	47.249	0.76	35.043	44.702	0.78	33.785	42.489	0.80
SCCL	UG	10.548	9.831	1.12	10.203	8.371	1.10	10.653	8.477	1.25
ECL	ALL	36.047	16.966	2.13	40.006	16.356	2.45	40.208	15.704	2.56
BCCL	ALL	32.612	11.844	2.74	34.512	11.427	3.02	35.861	10.787	3.32
CCL	ALL	50.022	9.817	4.64	55.652	9.747	5.46	61.324	9.426	6.51
NCL	ALL	68.639	4.450	13.78	72.484	5.268	13.70	80.224	4.276	18.76
WCL	ALL	39.729	13.428	2.96	41.147	11.400	3.26	44.815	11.245	3.99
SECL	ALL	124.261	17.183	6.72	128.275	16.257	7.89	135.656	16.208	8.37
SECL(GP-IV/2&3)								2.278	0.090	25.31
MCL	ALL	110.439	5.249	16.69	121.379	5.249	17.10	137.901	7.304	18.88
NEC	ALL	0.664	0.594	1.12	0.779	0.387	2.01	0.487	0.351	1.39
CIL	ALL	462.413	79.531	5.79	494.234	76.091	6.50	538.754	75.391	7.15
SCCL	ALL	50.469	12.493	3.86	52.536	11.071	4.20	60.380	11.235	4.20

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

(Quantity in Million Tonnes)

STATES	Production (2013-2014)			Production (2014-2015)			Production (2015-2016)		
	OC	UG	TOTAL	OC	UG	TOTAL	OC	UG	TOTAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ARUNACHAL PRADESH			0.000			0.000			0.000
ASSAM	0.661	0.003	0.664	0.776	0.003	0.779	0.484	0.003	0.487
CHHATTISGARH	116.858	10.237	127.095	124.899	9.865	134.764	122.372	8.233	130.605
JAMMU & KASHMIR		0.019	0.019		0.013	0.013	0.000	0.013	0.013
JHARKHAND	107.325	5.766	113.091	119.032	5.111	124.143	116.149	4.918	121.067
MADHYA PRADESH	63.609	11.981	75.590	75.369	12.240	87.609	95.976	11.738	107.714
MAHARASHTRA	33.948	3.275	37.223	35.203	3.054	38.257	35.402	2.949	38.351
MEGHALAYA	5.732		5.732	2.524	0.000	2.524	3.712	0.000	3.712
ODISHA	111.484	1.433	112.917	122.351	1.276	123.627	137.349	1.112	138.461
TELANGANA	39.921	10.548	50.469	42.333	10.203	52.536	49.727	10.653	60.380
UTTAR PRADESH	14.721		14.721	14.957		14.957	12.689	0.000	12.689
WEST BENGAL	21.857	6.387	28.244	23.223	6.747	29.970	18.962	6.789	25.751
ALL INDIA	516.116	49.649	565.765	560.667	48.512	609.179	592.822	46.408	639.230

TABLE 3.23 : CAPTIVE BLOCK WISE PRODUCTION OF RAW COAL DURING LAST TWO YEARS

(Quantity in Million Tonnes)

Block	Company	State	2014-15			2015-16		
			Coking Coal	Non Coking Coal	Total Coal	Coking Coal	Non Coking Coal	Total Coal
Gare Palma IV/2 & 3	SECL(GP-IV/2&3)	Chhattisgarh					2.278	2.278
Parsa East & Kanta Basan	RRUVNL	Chhattisgarh		3.443	3.443		6.210	6.210
Amelia North	MPSMCL	Madhya Pradesh		1.500	1.500			
Baranj I-IV, Kiloni, Manora Deep	KECML	Maharashtra		2.478	2.478			
Barjora North	DVCEMTA	West Bengal		1.001	1.001			
Barjore	WBPDCCL	West Bengal		0.210	0.210			
Gangaramchak & Bhadulia	WBPDCCL	West Bengal		0.206	0.206			
Namchik Namphuk	APMDTCL	Arunachal Pradesh						
Pachwara Central	PSEB	Jharkhand		3.433	3.433			
Panchwara North	WBPDCCL	Jharkhand		4.000	4.000			
Tara East & West	WBPDCCL	West Bengal		1.805	1.805			
Tasra	SAIL	Jharkhand	0.024	0.001	0.025			
Trans Damodar	WBMDTCL	West Bengal		1.041	1.041			
Total Public			0.024	19.118	19.142	0.000	8.488	8.488
Gare Palma IV/4 & 5	HIL	Chhattisgarh					0.069	0.069
Amelia North	JPVL	Madhya Pradesh					2.800	2.800
Belgaon	SIL	Maharashtra		0.196	0.196		0.165	0.165
Chotia	BALCO	Chhattisgarh					0.120	0.120
Moher & Moher Amlori Extn	SPL	Madhya Pradesh		9.406	9.406		17.022	17.022
Sarshatali	CESC	West Bengal					1.877	1.877
Talabira I	GMR	Odisha					0.560	0.560
Ardhagram	SOVA	West Bengal		0.400	0.400			
Chotia	PIL	Chhattisgarh		1.000	1.000			
Gare Palma IV/1	JSPL	Chhattisgarh		5.989	5.989			
Gare Palma IV/2&3	JPL	Chhattisgarh		6.248	6.248			
Gare Palma IV/4	JNL	Chhattisgarh		0.703	0.703			
Gare Palma IV/5	MIEL	Chhattisgarh		1.000	1.000			
Gare Palma IV/7	SEML	Chhattisgarh		1.189	1.189			
Gotitoria E & W	BLA	Madhya Pradesh		0.300	0.300			
Kauthia	UML	Jharkhand		0.790	0.790			
Marki Mangli I	BSIL	Maharashtra		0.031	0.031			
Marki Mangli II-IV	TUML-SVSL	Maharashtra		0.198	0.198			
Parbatpur Central	ESCL	Jharkhand	0.409	0.024	0.433			
Sarshatali	ICML	West Bengal		3.449	3.449			
Talabira I	HIL	Odisha		2.248	2.248			
Total Private			0.409	33.171	33.580	0.000	22.613	22.613
Grand Total			0.433	52.289	52.722	0.000	31.101	31.101

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 2015-16 was 632.442 MT, 4.75% more than the previous year.

4.1.2 Statement 4.1 shows despatch as well as off-take of raw coal in 2014-15 by different companies.

Statement 4.1 Despatch and Off-take of Raw Coal in India in 2015-16 by Company [MT]		
Company	Raw Coal	
	Despatch	Off-take
ECL	38.379	38.606
BCCL	36.164	36.213
CCL	59.582	59.583
NCL	78.362	78.362
WCL	42.306	42.310
SECL	138.734	138.748
MCL	140.214	140.219
NEC	0.342	0.342
CIL	534.083	534.383
SCCL	58.687	58.722
Other Public	7.536	7.536
Total Public	600.306	600.641
Total Private	32.136	32.137
ALL INDIA	632.442	632.778

It can be seen that Coal India Ltd. accounted for 84.45% of coal despatch in the country. The share of SCCL in the coal despatch was 9.28% and the contribution of private sector was 5.08%. In the CIL group, the major contributors were MCL, SECL and NCL with share of 22.17%, 21.94% and 12.39% respectively at all India level. These companies collectively accounted for 56.50% of the raw coal despatch at all India level.

4.1.3 Statement 4.1 also shows that the difference between the despatch and the off-take was marginal (0.336MT).

4.1.4 Statement 4.2 shows despatch as well as off-take of washed coal in India in 2015-16 by different Companies which was 23.612 MT. It may be observed that the share of public sector was 85.35% and private sector accounted for 14.65% of the total washed coal despatch/ off take.

Statement 4.2: Despatch and Off-take of Washed Coal in India in 2015-16 by Company [MT]		
Company	Washed Coal	
	Despatch	Off-take
BCCL	0.597	0.597
CCL	10.325	10.325
NCL	3.115	3.115
WCL	0.081	0.081
CIL	14.118	14.118
IISCO	0.555	0.555
RRVUNL	5.479	5.479
Total Public	20.152	20.152
Total Private	3.460	3.460
ALL INDIA	23.612	23.612

4.1.5 In case of Middling (Table 4.9), 5.735 MT of Middling was despatched by various companies in 2015-16, The share of public sector companies was 69.89% against 30.11% for the private sector companies.

4.1.6 Statement 4.3 (Table 4.18) provides details on despatch and off-take of raw coal in the country in 2015-16 to different sectors of the industry. It may be seen that total off-take by different sector shows that power sector accounted for 81.82% of raw coal despatch (Power Utility: 76.35%, Captive Power: 5.48%). The share of Steel, Cement and Sponge Iron was reported to be 1.98%, 1.42%, 1.23% respectively. Further details can be seen from different tables attached with this section.

Statement 4.3: Despatch /Off-take of Raw Coal in India in 2015-16 by Sector [MT]	
Sector	Despatch & Off-take [MT]
Power (Utility)	483.124
Power (Captive)	34.645
Metallurgical Use (Steel)	12.273
Cement	8.985
Sponge Iron	7.763
Fertilizers	2.296
Pulp & Paper	1.211
Other Basic Metal	0.440
Chemical	0.325
Textiles & Rayons	0.267
Steel Boiler	0.249
Bricks	0.074
Others	80.790
Total Despatch	632.442
Colliery Own - Consumption	0.334
Colliery Staff	0.002
Total Off-take	632.778

4.1.7 Statement 4.4 shows that total off-take of lignite in 2015-16 was 42.211 MT. From statement 4.4 it may be observed that power sector has taken the lion share of 88.97% of the total despatch/ off-take of lignite in the year 2015-16. Share of other sectors viz. Textiles & Rayons 4.09% and Other Basic Metal 2.42%. Further details are available in the statement.

Statement 4.4: Despatch/ Off-take of Lignite in India in 2015-16 by Sector [MT]	
Sector	Despatch/ Off-take [MT]
Power (Utility)	21.954
Power (Captive)	15.601
Textiles & Rayons	1.728
Other Basic Metal	1.020
Pulp & Paper	0.427
Bricks	0.392
Chemical	0.227
Cement	0.225
Others	0.637
Total Despatch	42.211

Chart IV.1 : Despatches of Raw Coal from different States during last three years

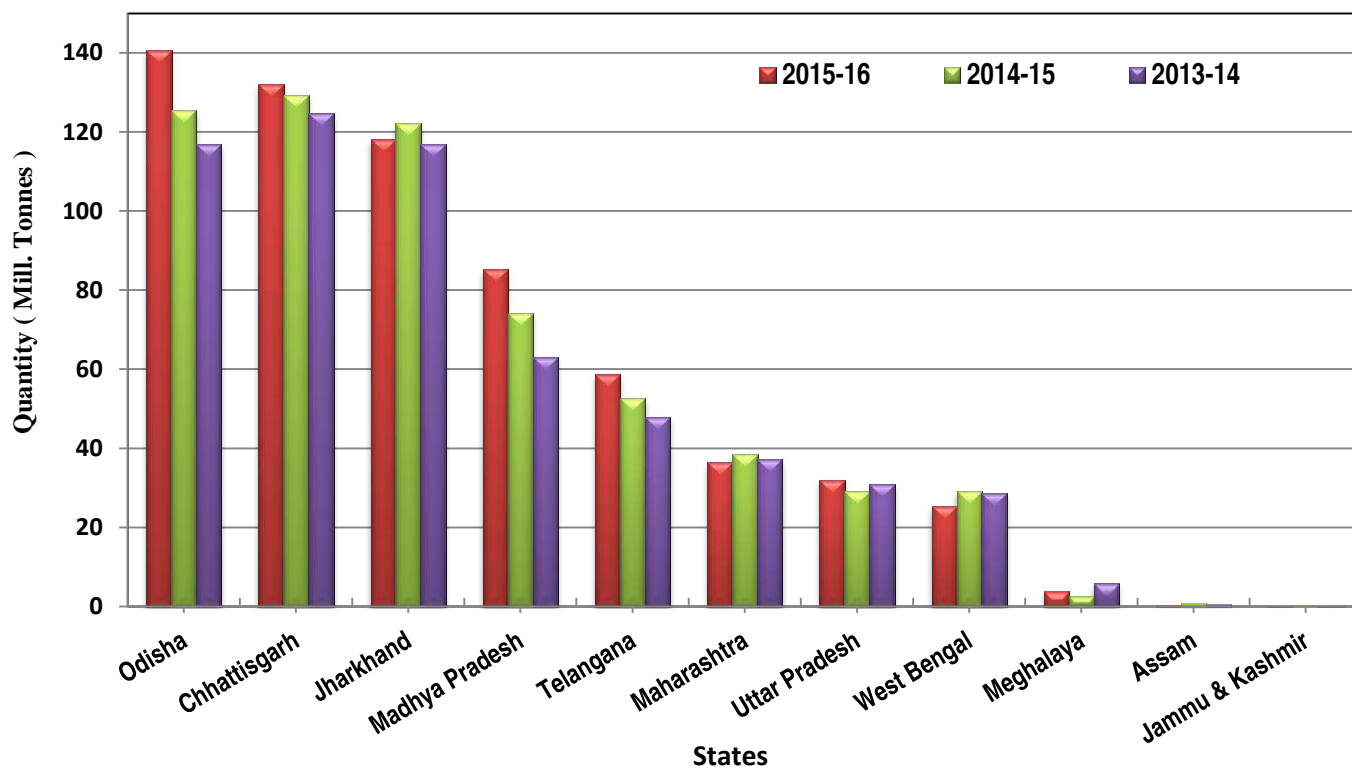


Chart IV.2 : Despatches of Raw Coal from different companies during last three years

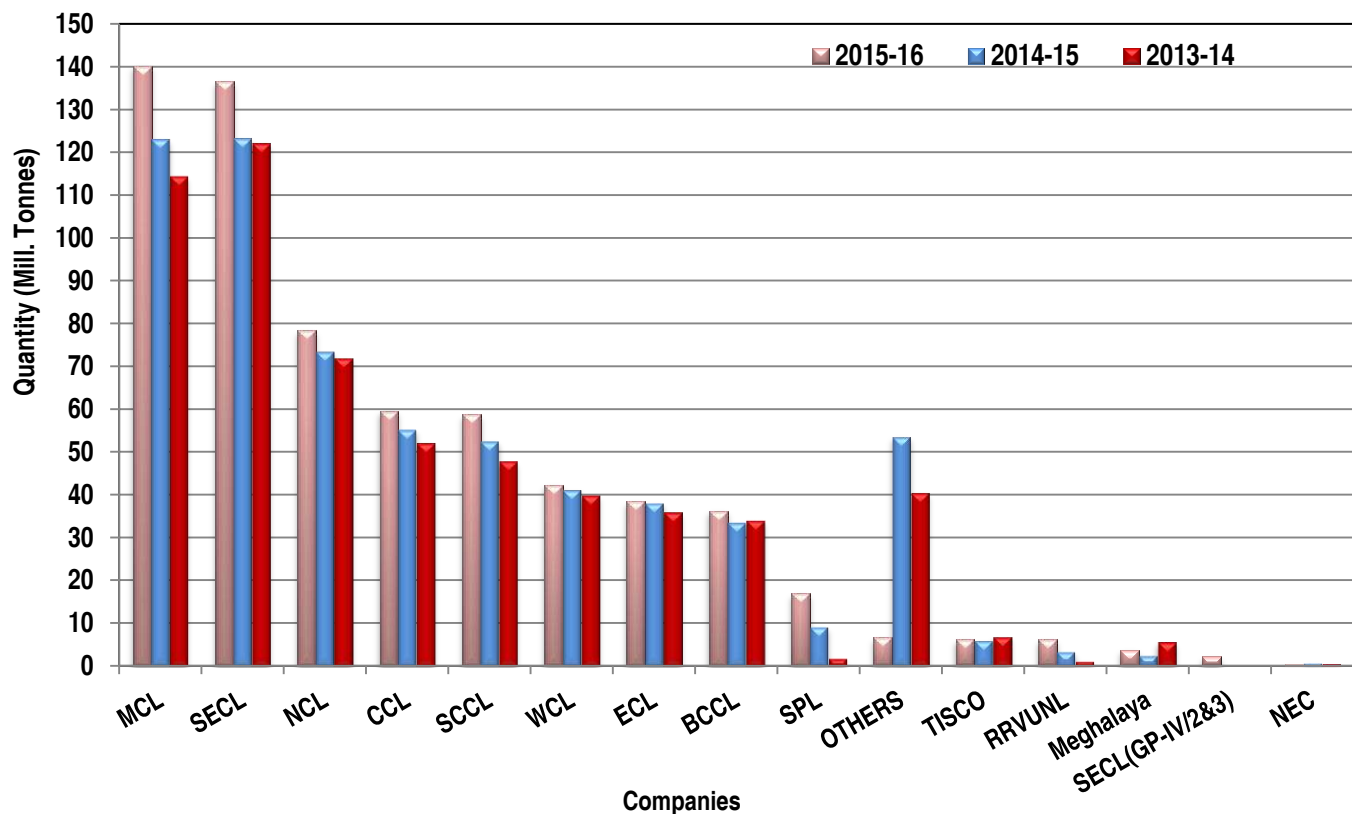


Chart IV.3: Sectorwise Despatches of Raw Coal from different companies in 2015-16

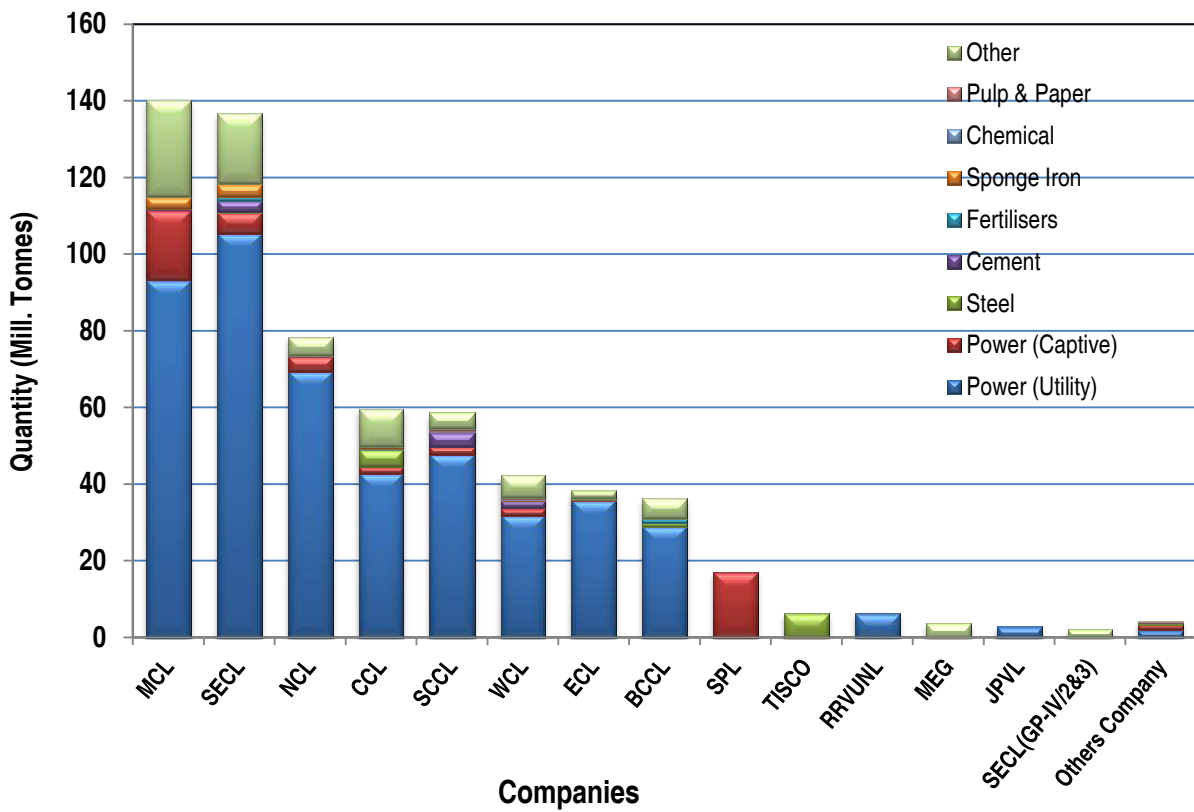


Chart IV.4: Grade Wise Raw Coal Despatches during 2015-16

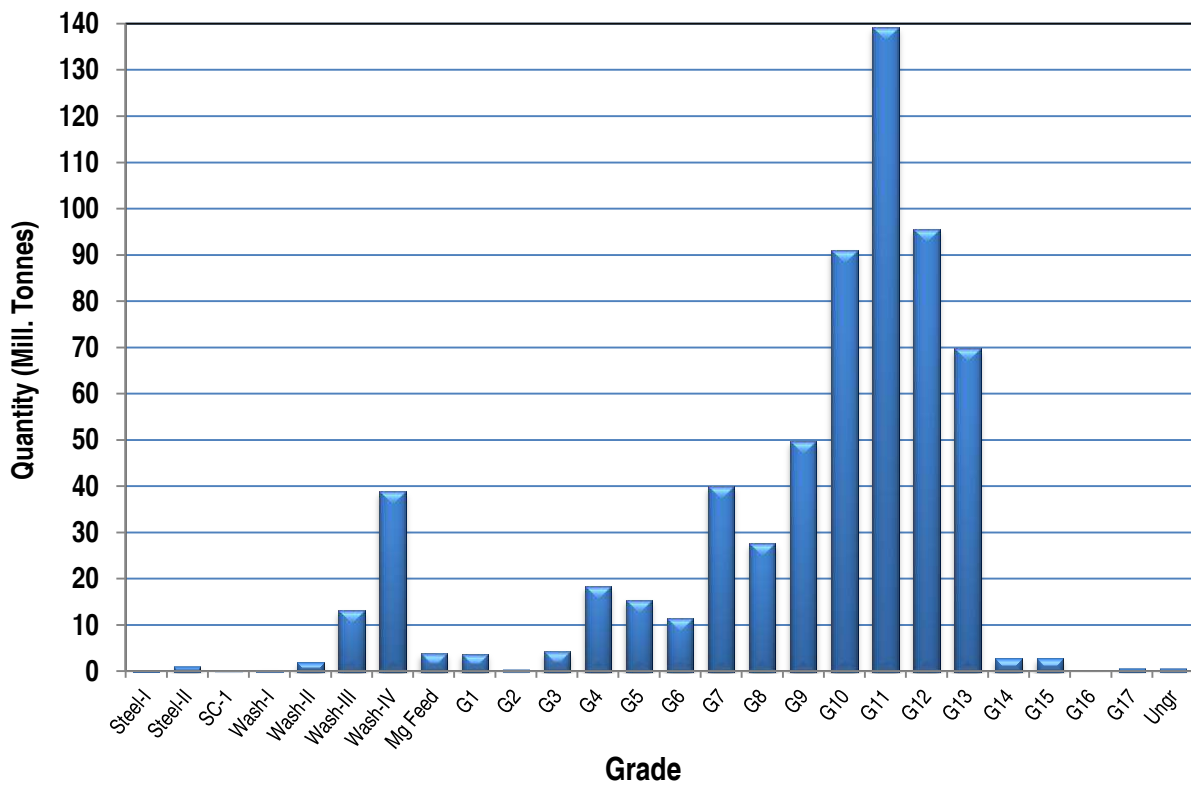


TABLE 4.1: TREND OF DESPATCHES OF DIFFERENT SOLID FOSSIL FUELS DURING LAST TEN YEARS

(Quantity in Million Tonnes)

Year	Raw coal			Lignite			Total solid fossil fuel	
	Despatches	Share in total solid fossil fuel (%)	Change over previous year (%)	Despatches	Share in total solid fossil fuel (%)	Change over previous year (%)	Despatches	Change over previous year (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2006-07	419.800	93.17	6.12	30.797	6.83	1.51	450.597	5.79
2007-08	453.567	92.90	8.04	34.657	7.10	12.53	488.224	8.35
2008-09	489.172	93.90	7.85	31.793	6.10	-8.26	520.965	6.71
2009-10	513.792	93.72	5.03	34.430	6.28	8.29	548.222	5.23
2010-11	523.465	93.28	1.88	37.685	6.72	9.45	561.150	2.36
2011-12	535.299	92.74	2.26	41.883	7.26	11.14	577.182	2.86
2012-13	567.136	92.45	5.95	46.313	7.55	10.58	613.449	6.28
2013-14	572.060	92.87	0.87	43.897	7.13	-5.22	615.957	0.41
2014-15	603.772	92.78	5.54	46.954	7.22	6.96	650.726	5.64
2015-16	632.442	93.74	4.75	42.211	6.26	-10.10	674.653	3.68

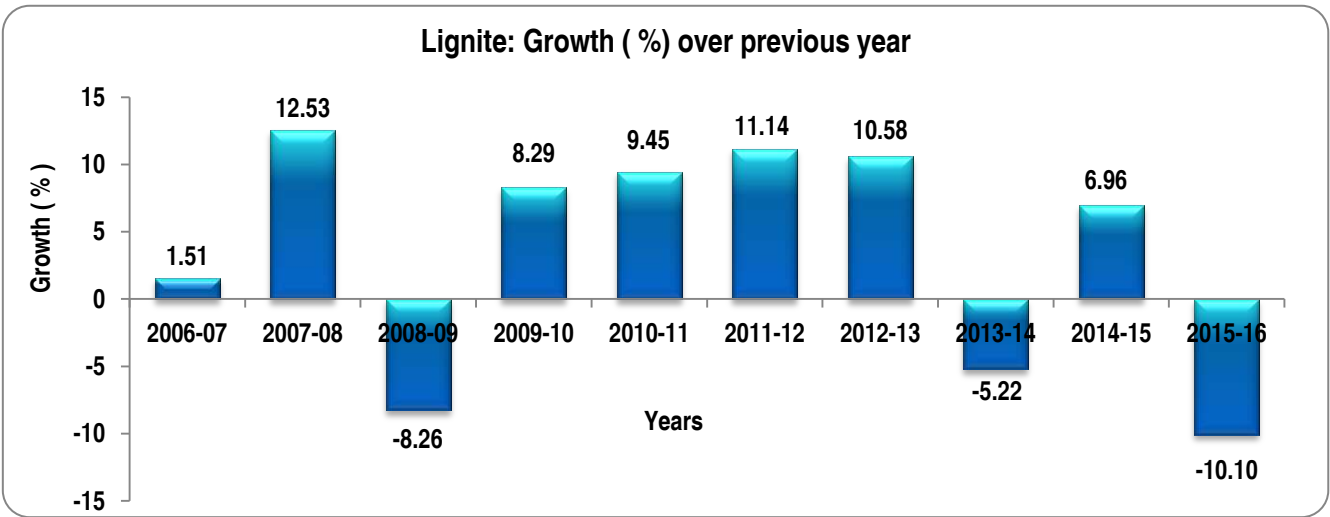
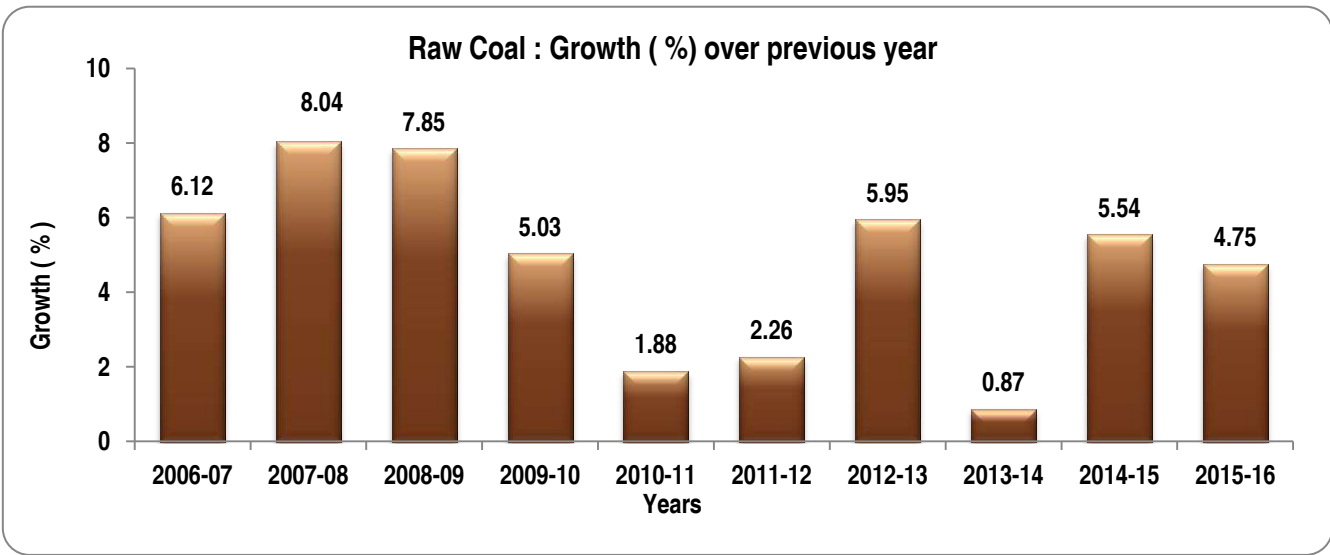


TABLE 4.2: TREND OF DESPATCHES OF DIFFERENT TYPES OF RAW COAL DURING LAST TEN YEARS

(Quantity in Million Tonnes)

Year	Coking Coal									Non Coking Coal			Raw Coal	
	Metallurgical Coal			Non Metallurgical Coal			Total Coking Coal			Despatches	Share in total raw coal(%)	Change over previous year (%)	Despatches	Change over previous year (%)
	Despatches	Share in total coking coal(%)	Change over previous year (%)	Despatches	Share in total coking coal(%)	Change over previous year (%)	Despatches	Share in total raw coal(%)	Change over previous year (%)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
2006-07	16.334	51.16	-0.98	15.593	48.84	11.05	31.927	7.61	4.55	387.873	92.39	6.25	419.800	6.12
2007-08	16.438	49.01	0.64	17.105	50.99	9.70	33.543	7.40	5.06	420.024	92.60	8.29	453.567	8.04
2008-09	15.061	42.16	-8.38	20.663	57.84	20.80	35.724	7.30	6.50	453.448	92.70	7.96	489.172	7.85
2009-10	15.173	35.73	0.74	27.296	64.27	32.10	42.469	8.27	18.88	471.323	91.73	3.94	513.792	5.03
2010-11	16.075	32.84	5.94	32.875	67.16	20.44	48.950	9.35	15.26	474.515	90.65	0.68	523.465	1.88
2011-12	15.903	30.75	-1.07	35.820	69.25	8.96	51.723	9.66	5.66	483.576	90.34	1.91	535.299	2.26
2012-13	14.799	26.49	-6.94	41.060	73.51	14.63	55.859	9.85	8.00	511.277	90.15	5.73	567.136	5.95
2013-14	15.236	26.06	2.95	43.228	73.94	5.28	58.464	10.22	4.66	513.596	89.78	0.45	572.060	0.87
2014-15	13.264	23.50	-12.94	43.174	76.50	-0.12	56.438	9.35	-3.47	547.334	90.65	6.57	603.772	5.54
2015-16	13.866	23.42	4.54	45.347	76.58	5.03	59.213	9.36	4.92	573.229	90.64	4.73	632.442	4.75

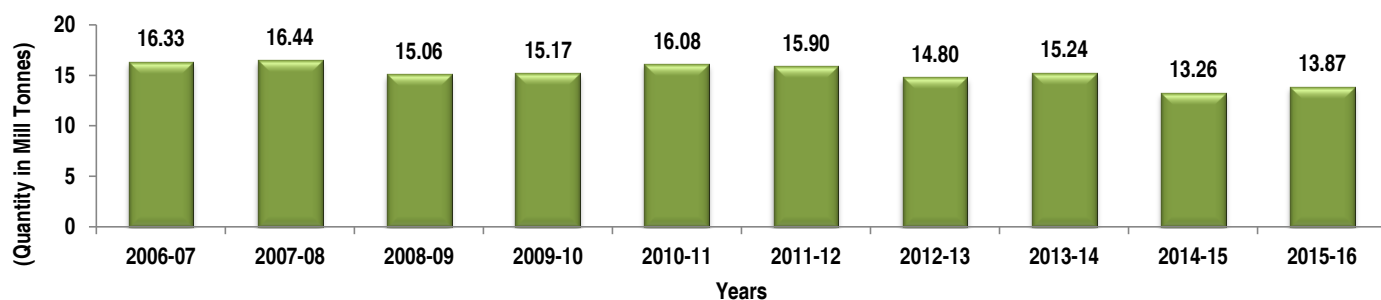
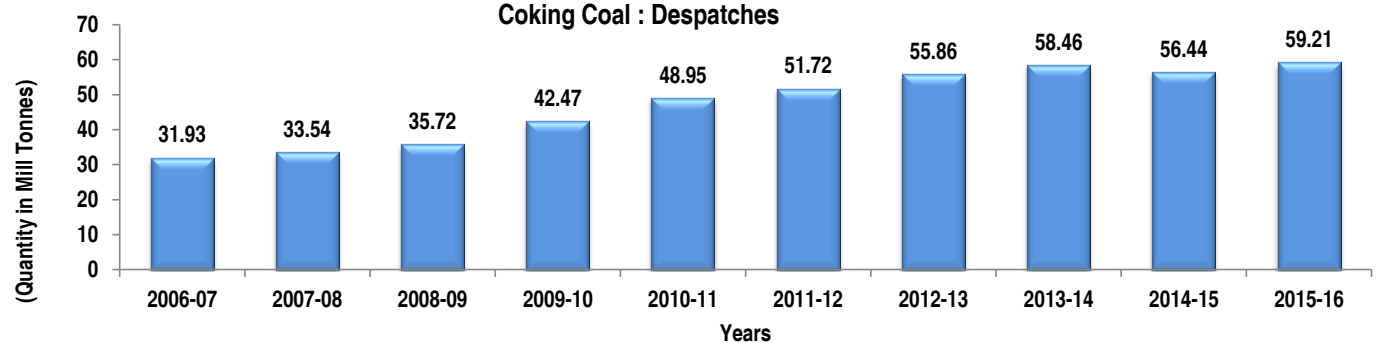
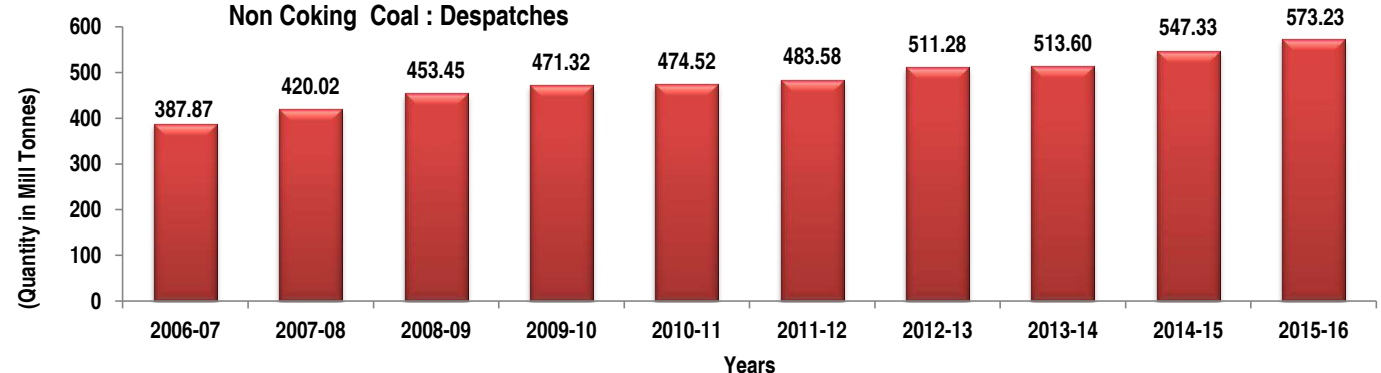
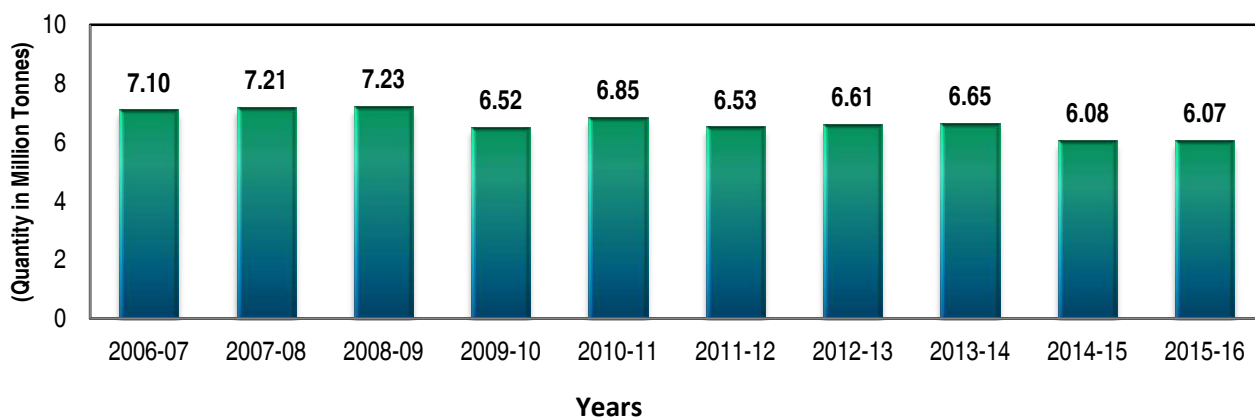
Metallurgical Coal : Despatches

Coking Coal : Despatches

Non Coking Coal : Despatches


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

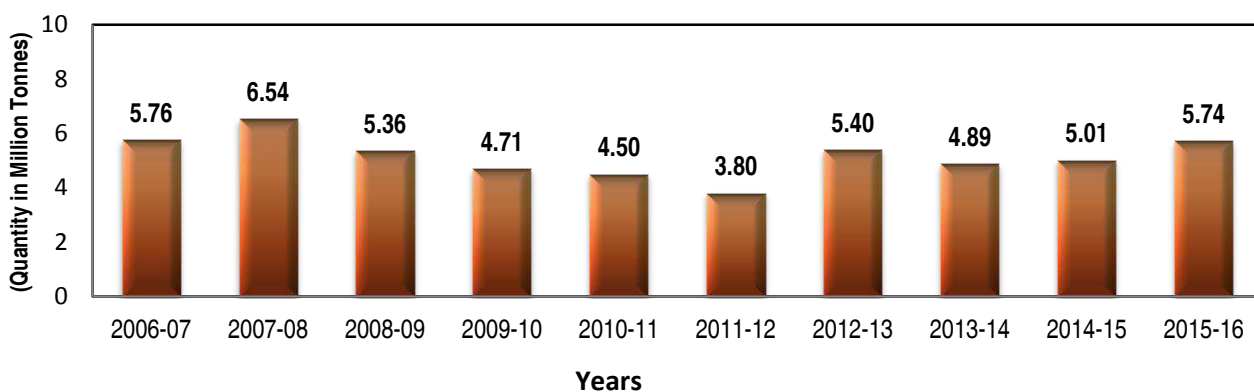
(Quantity in Million Tonnes)

Year	Washed Coal (Coking)		Washed Coal (N-Coking)		Middlings (Coking)		Middlings (N-Coking)		Hard Coke	
	Despatches	Percentage of change over previous year	Despatches	Percentage of change over previous year	Despatches	Percentage of change over previous year	Despatches	Percentage of change over previous year	Despatches	Percentage of change over previous year
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2006-07	7.104	-14.89	12.633	2.52	5.758	7.65	2.244	19.23	12.739	-2.23
2007-08	7.206	1.44	12.821	1.49	6.536	13.51	2.466	9.89	12.774	0.27
2008-09	7.226	0.28	13.445	4.87	5.361	-17.98	4.018	62.94	12.465	-2.42
2009-10	6.518	-9.80	13.981	3.99	4.711	-12.12	3.726	-7.27	12.361	-0.83
2010-11	6.854	5.15	14.537	3.98	4.504	-4.39	3.790	1.72	12.546	1.50
2011-12	6.532	-4.70	15.751	8.35	3.802	-15.59	3.545	-6.46	12.340	-1.64
2012-13	6.614	1.26	14.237	-9.61	5.403	42.11	5.184	46.23	12.429	0.72
2013-14	6.645	0.47	15.454	8.55	4.894	-9.42	3.854	-25.66	12.707	2.24
2014-15	6.080	-8.50	16.998	9.99	5.012	2.41	4.493	16.58	13.954	9.81
2015-16	6.068	-0.20	17.544	3.21	5.735	14.43	0	-	13.673	-2.01

Washed Coal (Coking) : Despatch



Middlings (Coking) : Despatch



Note: 1. The above figures relates to Washeries (public & private) of only coal producing companies.
 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 DIFFERENT TYPES OF COAL, LIGNITE & COAL PRODUCTS IN LAST THREE YEARS
(Quantity in Million Tonnes)

Year and Quarter	Coking Coal			Non Coking Coal			Raw Coal			Lignite		
	Desp.	Growth %	Share %	Desp.	Growth %	Share %	Desp.	Growth %	Share %	Desp.	Growth %	Share %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2013-14												
April - June	14.306	1.7	24.5	126.400	0.8	24.6	140.706	0.9	24.6	12.375	1.2	28.2
July - Sept.	14.472	11.2	24.8	116.365	4.8	22.7	130.837	5.4	22.9	9.270	-10.5	21.1
Oct. - Dec.	13.950	-0.9	23.9	128.151	-2.7	25.0	142.101	-2.5	24.8	9.606	-11.3	21.9
Jan. - Mar.	15.736	7.0	26.9	142.680	-0.2	27.8	158.416	0.4	27.7	12.646	-2.0	28.8
TOTAL	58.464	4.7	100.0	513.596	0.5	100.0	572.060	0.9	100.0	43.897	-5.2	100.0
2014-15												
April - June	15.082	5.4	26.7	132.408	4.8	24.2	147.490	4.8	24.4	13.277	7.3	28.3
July - Sept.	13.262	-8.4	23.5	124.598	7.1	22.8	137.860	5.4	22.8	10.360	11.8	22.1
Oct. - Dec.	13.333	-4.4	23.6	140.954	10.0	25.8	154.287	8.6	25.6	10.412	8.4	22.2
Jan. - Mar.	14.761	-6.2	26.2	149.374	4.7	27.3	164.135	3.6	27.2	12.905	2.0	27.5
TOTAL	56.438	-3.5	100.0	547.334	6.6	100.0	603.772	5.5	100.0	46.954	7.0	100.0
2015-16												
April - June	14.283	-5.6	24.1	137.990	4.4	24.1	152.273	3.2	24.1	11.675	-12.1	27.7
July - Sept.	13.925	4.6	23.5	131.452	5.9	22.9	145.377	5.5	23.0	9.681	-6.6	22.9
Oct. - Dec.	14.876	11.1	25.1	149.274	6.5	26.0	164.150	6.4	26.0	9.031	-13.3	21.4
Jan. - Mar.	16.129	8.7	27.2	154.513	3.6	27.0	170.642	4.0	27.0	11.824	-8.4	28.0
TOTAL	59.213	4.9	100.0	573.229	4.7	100.0	632.442	4.7	100.0	42.211	-10.1	100.0

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

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

Contd....

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

Year and Quarter	Washed Coal (CKG)			Washed Coal (NCKG)			Middling (CKG)			Middling (NCKG)			Hard Coke		
	Desp.	Growth %	Share %	Desp.	Growth %	Share %	Desp.	Growth %	Share %	Desp.	Growth %	Share %	Desp.	Growth %	Share %
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
2013-14															
April - June	1.695	0.4	25.5	4.329	37.8	28.0	1.313	0.5	26.8	0.992	-21.8	25.7	3.072	-0.2	24.2
July - Sept.	1.677	10.6	25.2	3.828	18.1	24.8	1.205	-8.0	24.6	0.748	-42.0	19.4	3.304	5.1	26.0
Oct. - Dec.	1.643	-0.7	24.7	3.760	-4.1	24.3	1.160	-17.2	23.7	1.137	-16.0	29.5	3.181	2.0	25.0
Jan. - Mar.	1.630	-7.1	24.5	3.537	-10.1	22.9	1.216	-12.2	24.8	0.977	-23.1	25.4	3.150	2.0	24.8
TOTAL	6.645	0.5	100.0	15.454	8.5	100.0	4.894	-9.4	100.0	3.854	-25.7	100.0	12.707	2.2	100.0
2014-15															
April - June	1.475	-13.0	24.3	3.969	-8.3	23.3	1.089	-17.1	21.7	1.289	29.9	28.7	3.312	7.8	23.7
July - Sept.	1.468	-12.5	24.1	4.154	8.5	24.4	1.207	0.2	24.1	1.154	54.3	25.7	3.599	8.9	25.8
Oct. - Dec.	1.587	-3.4	26.1	4.389	16.7	25.8	1.285	10.8	25.6	1.340	17.9	29.8	3.389	6.5	24.3
Jan. - Mar.	1.550	-4.9	25.5	4.486	26.8	26.4	1.431	17.7	28.6	0.710	-27.3	15.8	3.654	16.0	26.2
TOTAL	6.080	-8.5	100.0	16.998	10.0	100.0	5.012	2.4	100.0	4.493	16.6	100.0	13.954	9.8	100.0
2015-16															
April - June	1.434	-2.8	23.6	3.930	-1.0	22.4	1.024	-6.0	17.9	0	-	-	3.499	5.6	25.6
July - Sept.	1.500	2.2	24.7	3.845	-7.4	21.9	1.571	30.2	27.4	0	-	-	3.429	-4.7	25.1
Oct. - Dec.	1.588	0.1	26.2	4.658	6.1	26.6	1.550	20.6	27.0	0	-	-	3.458	2.0	25.3
Jan. - Mar.	1.546	-0.3	25.5	5.111	13.9	29.1	1.590	11.1	27.7	0	-	-	3.287	-10.0	24.0
TOTAL	6.068	-0.2	100.0	17.544	3.2	100.0	5.735	14.4	100.0	0	-	-	13.673	-2.0	100.0

- Note: (1) Growth is calculated over last quarter /year, as the case may be, and expressed in percentage.
(2) Share is calculated as ratio to yearly despatches and expressed in percentage.
(3) The above figures relates to Washeries (public & private) of only coal producing companies.
(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 2015-16

(Quantity in Million Tonnes)

Month	Coking Coal			Non Coking Coal			Raw Coal			Lignite		
	Desp.	Growth %	Share %	Desp.	Growth %	Share %	Desp.	Growth %	Share %	Desp.	Growth %	Share %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Apr-15	4.843	3.4	8.18	45.633	3.8	7.96	50.476	0.8	7.98	4.107	-10.7	9.73
May-15	4.909	0.7	8.29	47.291	13.3	8.25	52.200	4.3	8.25	4.053	-13.7	9.60
Jun-15	4.531	-4.5	7.65	45.066	10.7	7.86	49.597	4.8	7.84	3.515	-11.7	8.33
1st Quarter	14.283	-0.2	24.12	137.990	9.2	24.07	152.273	3.2	24.08	11.675	-12.1	27.66
Jul-15	4.521	-12.6	7.64	44.317	10.0	7.73	48.838	3.0	7.72	3.249	-11.0	7.70
Aug-15	4.678	-0.8	7.90	43.672	17.4	7.62	48.350	4.4	7.64	3.267	-7.0	7.74
Sep-15	4.726	3.1	7.98	43.463	11.8	7.58	48.189	9.3	7.62	3.165	-1.0	7.50
2nd Quarter	13.925	-3.8	23.52	131.452	13.0	22.93	145.377	5.5	22.99	9.681	-6.6	22.93
Oct-15	4.843	16.1	8.18	47.980	24.3	8.37	52.823	9.2	8.35	3.234	3.9	7.66
Nov-15	4.879	4.1	8.24	49.542	16.4	8.64	54.421	6.6	8.60	2.581	-23.8	6.11
Dec-15	5.154	1.2	8.70	51.752	10.1	9.03	56.906	3.7	9.00	3.216	-17.7	7.62
3rd Quarter	14.876	6.6	25.12	149.274	16.5	26.04	164.150	6.4	25.95	9.031	-13.3	21.39
Jan-16	5.211	-3.5	8.80	52.556	8.1	9.17	57.767	6.5	9.13	3.981	-6.0	9.43
Feb-16	5.213	6.5	8.80	48.662	9.8	8.49	53.875	3.1	8.52	3.676	-12.8	8.71
Mar-16	5.705	4.8	9.63	53.295	7.1	9.30	59.000	2.4	9.33	4.167	-6.4	9.87
4th Quarter	16.129	2.5	27.24	154.513	8.3	26.95	170.642	4.0	26.98	11.824	-8.4	28.01
Yr. 2015-16	59.213	1.3	100.00	573.229	11.6	100.00	632.442	4.7	100.00	42.211	-10.1	100.00

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

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

Contd....

TABLE 4.5: MONTHLY DESPATCHES OF DIFFERENT TYPES OF COAL, LIGNITE AND COAL PRODUCTS IN 2015-16
(Quantity in Million Tonnes)

Month	Washed Coal (Ckg)			Washed Coal (Nckg)			Middlings (Ckg)			Middlings (Nckg)			Hard Coke		
	Desp.	Growth %	Share %	Desp.	Growth %	Share %	Desp.	Growth %	Share %	Desp.	Growth %	Share %	Desp.	Growth %	Share %
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
Apr-15	0.475	-9.2	7.83	1.331	8.2	7.59	0.325	5.9	5.67	0	-	-	1.174	4.7	8.59
May-15	0.515	11.2	8.49	1.333	-8.1	7.60	0.376	7.4	6.56	0	-	-	1.157	1.0	8.46
Jun-15	0.444	-9.2	7.32	1.266	-1.7	7.22	0.323	-25.2	5.63	0	-	-	1.168	11.7	8.54
1st Quarter	1.434	-2.8	23.63	3.930	-1.0	22.40	1.024	-6.0	17.86	0	-	-	3.499	5.6	25.59
Jul-15	0.529	6.4	8.72	1.177	-21.3	6.71	0.513	37.5	8.95	0	-	-	1.191	2.1	8.71
Aug-15	0.492	7.4	8.11	1.239	-8.3	7.06	0.484	11.8	8.44	0	-	-	1.134	-5.9	8.29
Sep-15	0.479	-6.6	7.89	1.429	9.3	8.15	0.574	43.1	10.01	0	-	-	1.104	-10.1	8.07
2nd Quarter	1.500	2.2	24.72	3.845	-7.4	21.92	1.571	30.2	27.39	0	-	-	3.429	-4.7	25.08
Oct-15	0.498	-4.4	8.21	1.394	-4.9	7.95	0.551	25.2	9.61	0	-	-	1.169	10.3	8.55
Nov-15	0.558	5.3	9.20	1.617	12.5	9.22	0.457	9.3	7.97	0	-	-	1.152	4.6	8.43
Dec-15	0.532	-0.7	8.77	1.647	10.8	9.39	0.542	26.9	9.45	0	-	-	1.137	-7.4	8.32
3rd Quarter	1.588	0.1	26.17	4.658	6.1	26.55	1.550	20.6	27.03	0	-	-	3.458	2.0	25.29
Jan-16	0.559	4.3	9.21	1.800	17.3	10.26	0.614	33.8	10.71	0	-	-	1.080	-12.7	7.90
Feb-16	0.483	-0.2	7.96	1.580	15.3	9.01	0.449	19.7	7.83	0	-	-	1.054	-7.8	7.71
Mar-16	0.504	-4.9	8.31	1.731	9.5	9.87	0.527	-11.7	9.19	0	-	-	1.153	-9.5	8.43
4th Quarter	1.546	-0.3	25.48	5.111	13.9	29.13	1.590	11.1	27.72	0	-	-	3.287	-10.0	24.04
Yr. 2015-16	6.068	-0.2	100.00	17.544	3.2	100.00	5.735	14.4	100.00	0	-	-	13.673	-2.0	100.00

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

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

(3) The above figures relates to Washeries (public & private) of only coal producing companies.

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

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

(Quantity in Million Tonnes)

Year	State : Arunachal Pradesh			State: Assam			State: Chhattisgarh		
	Quantity	Share (%)	Growth(%)	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth(%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2006-07				1.182	0.28	1.03	80.526	19.18	7.37
2007-08	0.076	0.02	0.00	1.200	0.26	1.52	90.792	20.02	12.75
2008-09	0.129	0.03	69.74	0.835	0.17	-30.42	103.022	21.06	13.47
2009-10	0.226	0.04	75.19	1.071	0.21	28.26	106.921	20.81	3.78
2010-11	0.245	0.05	8.41	1.102	0.21	2.89	109.562	20.93	2.47
2011-12	0.322	0.06	31.43	0.800	0.15	-27.40	114.610	21.41	4.61
2012-13	0.055	0.01	-82.92	0.618	0.11	-22.75	121.058	21.35	5.63
2013-14	0	-	-	0.577	0.10	-6.63	124.674	21.79	2.99
2014-15	0	-	-	0.733	0.12	27.04	129.392	21.43	3.78
2015-16	0	-	-	0.342	0.05	-53.34	132.040	20.88	2.05
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)
2006-07	0.014	0.00	-30.00	84.292	20.08	5.80	59.996	14.29	9.18
2007-08	0.016	0.00	14.29	88.898	19.60	5.46	68.344	15.07	13.91
2008-09	0.012	0.00	-25.00	95.414	19.51	7.33	72.042	14.73	5.41
2009-10	0.017	0.00	41.67	99.863	19.44	4.66	73.481	14.30	2.00
2010-11	0.025	0.00	47.06	106.637	20.37	6.78	69.443	13.27	-5.50
2011-12	0.023	0.00	-8.00	109.792	20.51	2.96	69.560	12.99	0.17
2012-13	0.014	0.00	-39.13	119.276	21.03	8.64	60.411	10.65	-13.15
2013-14	0.013	0.00	-7.14	116.798	20.42	-2.08	63.096	11.03	4.44
2014-15	0.013	0.00	0.00	122.044	20.21	4.49	74.243	12.30	17.67
2015-16	0.012	0.00	-7.69	118.072	18.67	-3.25	85.205	13.47	14.77
Year	State: Maharashtra			State: Meghalaya			State: Odisha		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth(%)	Quantity	Share (%)	Growth(%)
(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
2006-07	35.508	8.46	2.06	5.787	1.38	3.82	77.585	18.48	12.22
2007-08	37.389	8.24	5.30	6.541	1.44	11.53	85.147	18.77	9.75
2008-09	39.238	8.02	4.95	5.489	1.12	-19.17	93.316	19.08	9.59
2009-10	40.743	7.93	3.84	5.767	1.12	4.82	100.591	19.58	7.80
2010-11	38.240	7.31	-6.14	6.974	1.33	17.31	104.359	19.94	3.75
2011-12	38.108	7.12	-0.35	7.206	1.35	3.22	104.819	19.58	0.44
2012-13	38.316	6.76	0.55	5.640	0.99	-27.77	114.213	20.14	8.96
2013-14	37.205	6.50	-2.90	5.732	1.00	1.61	116.795	20.42	2.26
2014-15	38.553	6.39	3.62	2.524	0.42	-127.10	125.382	20.77	7.35
2015-16	36.444	5.76	-5.47	3.712	0.59	32.00	140.639	22.24	12.17

Contd....

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

(Quantity in Million Tonnes)

Year	State: Telangana			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)
2006-07	37.487	8.93	6.13	12.393	2.95	-21.83	25.030	5.96	3.80
2007-08	41.793	9.21	11.49	11.216	2.47	-9.50	22.155	4.88	-11.49
2008-09	44.410	9.08	6.26	12.448	2.54	10.98	22.817	4.66	2.99
2009-10	49.266	9.59	10.93	13.587	2.64	9.15	22.259	4.33	-2.45
2010-11	50.046	9.56	1.58	15.393	2.94	13.29	21.439	4.10	-3.68
2011-12	51.389	9.60	2.68	15.467	2.89	0.48	23.203	4.33	8.23
2012-13	52.025	9.17	1.24	28.824	5.08	86.36	26.686	4.71	15.01
2013-14	47.892	8.37	-7.94	30.807	5.39	6.88	28.471	4.98	6.69
2014-15	52.662	8.72	9.96	29.021	4.81	-5.80	29.205	4.84	2.58
2015-16	58.687	9.28	11.44	31.815	5.03	9.63	25.474	4.03	-12.78

Year	All India	
	Quantity	Growth(%)
(41)	(42)	(43)
2006-07	419.800	13.01
2007-08	453.567	8.04
2008-09	489.172	7.85
2009-10	513.792	5.03
2010-11	523.465	1.88
2011-12	535.299	2.26
2012-13	567.136	5.95
2013-14	572.060	0.87
2014-15	603.772	5.54
2015-16	632.442	4.75

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

(Quantity in Million Tonnes)

Year	State: Tamilnadu			State: Gujarat		
	Quantity	Share (%)	Growth (%)	Quantity	Share (%)	Growth (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2006-07	20.511	66.60	-0.19	9.819	31.88	7.77
2007-08	22.259	64.23	8.52	11.792	34.02	20.09
2008-09	20.748	65.26	-6.79	10.046	31.60	-14.81
2009-10	22.812	66.26	9.95	10.411	30.24	3.63
2010-11	23.081	61.25	1.18	13.079	34.71	25.63
2011-12	24.472	58.43	6.03	14.448	34.50	10.47
2012-13	24.312	52.49	-0.65	14.670	31.68	1.54
2013-14	24.438	55.67	0.52	11.831	26.95	-19.35
2014-15	24.088	51.30	-1.43	12.362	26.33	4.49
2015-16	22.493	53.29	-6.62	10.135	24.01	-18.01

Year	State: Rajasthan			ALL INDIA	
	Quantity	Share (%)	Growth (%)	Quantity	Growth (%)
(8)	(9)	(10)	(11)	(12)	(13)
2006-07	0.467	1.52	-31.02	30.797	1.51
2007-08	0.606	1.75	29.76	34.657	12.53
2008-09	0.999	3.14	64.85	31.793	-8.26
2009-10	1.207	3.51	20.82	34.430	8.29
2010-11	1.525	4.05	26.35	37.685	9.45
2011-12	2.963	7.07	94.30	41.883	11.14
2012-13	7.331	15.83	147.42	46.313	10.58
2013-14	7.628	17.38	4.05	43.897	-5.22
2014-15	10.504	22.37	37.70	46.954	6.96
2015-16	9.583	22.70	-8.77	42.211	-10.10

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

(Quantity in Million Tonnes)

Company	2013-14			2014-15			2015-16		
	Coking	N-Coking	Total	Coking	N-Coking	Total	Coking	N-Coking	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ECL	0.045	35.929	35.974	0.036	38.184	38.220	0.017	38.362	38.379
BCCL	31.496	2.562	34.058	30.093	3.514	33.607	32.914	3.250	36.164
CCL	18.679	33.442	52.121	19.359	35.978	55.337	18.799	40.783	59.582
NCL	0.000	71.892	71.892	0.000	73.518	73.518	0.000	78.362	78.362
WCL	0.268	39.671	39.939	0.232	41.008	41.240	0.200	42.106	42.306
SECL	0.123	121.890	122.013	0.125	123.084	123.209	0.108	136.474	136.582
SECL(GP-IV/2&3)								2.152	2.152
MCL		114.342	114.342		122.996	122.996		140.214	140.214
NEC		0.577	0.577		0.733	0.733		0.342	0.342
CIL	50.611	420.305	470.916	49.845	439.015	488.860	52.038	482.045	534.083
SCCL		47.892	47.892		52.662	52.662		58.687	58.687
JKML		0.013	0.013		0.013	0.013		0.012	0.012
JSMDCL		0.000	0.000		0.408	0.408		0.197	0.197
DVC		0.045	0.045		0.055	0.055	0.392		0.392
IISCO	0.541	0.081	0.622	0.420	0.199	0.619	0.558	0.167	0.725
SAIL	0.044	0.031	0.075	0.024	0.001	0.025			0.000
RRVUNL		1.197	1.197		3.443	3.443		6.210	6.210
APMDTCL		0.000	0.000		0.000	0.000			
DVCEMTA		1.523	1.523		1.006	1.006			
WBPDCCL		2.610	2.610		6.248	6.248			
PSEB-PANEM		5.852	5.852		3.454	3.454			
KECML		2.472	2.472		2.413	2.413			
WBMDTCL		0.734	0.734		1.111	1.111			
MPSMCL		0.000	0.000		1.505	1.505			
Total Public	51.196	482.755	533.951	50.289	511.533	561.822	52.988	547.318	600.306
TISCO	6.902	0.067	6.969	6.037	0.024	6.061	6.225	0.008	6.233
MEGHALAYA		5.732	5.732		2.524	2.524		3.712	3.712
HIL		2.453	2.453		2.386	2.386		0.012	0.012
SPL		1.845	1.845		9.261	9.261		16.842	16.842
SIL		0.159	0.159		0.196	0.196		0.163	0.163
CESC								1.874	1.874
GMR								0.425	0.425
BALCO								0.079	0.079
JPVL								2.796	2.796
ICML		3.278	3.278		3.771	3.771			
JSPL		5.999	5.999		5.989	5.989			
MIEL		0.905	0.905		1.022	1.022			
BLA		0.300	0.300		0.300	0.300			
PIL		1.000	1.000		1.000	1.000			
JNL		0.394	0.394		0.777	0.777			
JPL		6.223	6.223		5.726	5.726			
ESCL	0.366	0.004	0.370	0.112	0.021	0.133			
UML		0.759	0.759		0.794	0.794			
SEML		1.117	1.117		1.266	1.266			
BSIL		0.027	0.027		0.136	0.136			
TUML-SVSL		0.300	0.300		0.208	0.208			
SOVA		0.279	0.279		0.400	0.400			
Total Private	7.268	30.841	38.109	6.149	35.801	41.950	6.225	25.911	32.136
ALL INDIA	58.464	513.596	572.060	56.438	547.334	603.772	59.213	573.229	632.442
LIGNITE :									
NLC			25.991			25.441			23.717
GMDCL			8.398			8.713			6.968
GIPCL			3.249			3.456			3.063
RSMMML			1.428			1.405			0.972
GHCL			0.190			0.193			0.104
VSLPPL			0.839			0.823			0.824
BLMCL			3.802			6.923			6.563
ALL INDIA			43.897			46.954			42.211
COAL & LIGNITE			615.957			650.726			674.653

**TABLE 4.9 : DESPATCHES OF RAW COAL AND COAL PRODUCTS (Washed Coal and Middlings)
BY COMPANIES IN 2015-16**

(Quantity in Million Tonnes)

Company	Raw Coal		Washed Coal		Middlings	
	Despatches	Offtake	Despatches	Offtake	Despatches	Offtake
(1)	(2)	(3)	(4)	(5)	(6)	(7)
ECL	38.379	38.606				
BCCL	36.164	36.213	0.597	0.597	1.755	1.755
CCL	59.582	59.583	10.325	10.325	1.619	1.619
NCL	78.362	78.362	3.115	3.115		
WCL	42.306	42.310	0.081	0.081	0.055	0.055
SECL	136.582	136.596				
SECL(GP-IV/2&3)	2.152	2.152				
MCL	140.214	140.219				
NEC	0.342	0.342				
CIL	534.083	534.383	14.118	14.118	3.429	3.429
SCCL	58.687	58.722				
JKML	0.012	0.012				
DVC	0.392	0.392				
IISCO	0.725	0.725	0.555	0.555	0.579	0.579
SAIL	0.000	0.000				
JSMDC	0.197	0.197				
RRVUNL	6.210	6.210	5.479	5.479		
PUBLIC	600.306	600.641	20.152	20.152	4.008	4.008
TISCO	6.233	6.234	3.460	3.460	1.727	1.727
MEGHALAYA	3.712	3.712				
HIL	0.012	0.012				
SIL	0.163	0.163				
SPL	16.842	16.842				
CESC	1.874	1.874				
GMR	0.425	0.425				
BALCO	0.079	0.079				
JPVL	2.796	2.796				
PRIVATE	32.136	32.137	3.460	3.460	1.727	1.727
ALL INDIA	632.442	632.778	23.612	23.612	5.735	5.735

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

YEAR	Companies	Hard Coke	CIL Coke	Coke Fines	Coal gas (Unit: NM3)	Coal Fines
2013-14	BCCL					
	CCL					
	WCL					
	DCC		3	1	44	208
	SAIL	8461				
	RINL	2320				
	TISCO	1926				
	TOTAL	12707	3	1	44	208
2014-15	BCCL					
	CCL					
	WCL					
	DCC		9	7	30	55
	SAIL	8720				
	RINL	2355				
	TISCO	2879				
	TOTAL	13954	9	7	30	55
2015-16	BCCL					
	CCL					
	WCL					
	DCC		3	2	20	8
	SAIL	8.494				
	RINL	2.480				
	TISCO	2.699				
	TOTAL	13954	3	2	20	8

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

(Quantity in Million Tonnes)

States	Company	2013-14			2014-15			2015-16		
		Coking	N-Coking	Total	Coking	N-Coking	Total	Coking	N-Coking	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Assam	NEC		0.577	0.577		0.733	0.733		0.342	0.342
Chhattisgarh	SECL	0.123	107.716	107.839	0.125	110.044	110.169	0.108	123.479	123.587
Chhattisgarh	SECL(GP-IV/2&3)								2.152	2.152
Chhattisgarh	RRVUNL		1.197	1.197		3.443	3.443		6.210	6.210
Chhattisgarh	HIL								0.012	0.012
Chhattisgarh	BALCO								0.079	0.079
Chhattisgarh	JSPL		5.999	5.999		5.989	5.989			
Chhattisgarh	MIEL		0.905	0.905		1.022	1.022			
Chhattisgarh	PIL		1.000	1.000		1.000	1.000			
Chhattisgarh	JNL		0.394	0.394		0.777	0.777			
Chhattisgarh	JPL		6.223	6.223		5.726	5.726			
Chhattisgarh	SEML		1.117	1.117		1.266	1.266			
Chhattisgarh	TOTAL	0.123	124.551	124.674	0.125	129.267	129.392	0.108	131.932	132.040
Jammu & Kashmir	JKML		0.013	0.013		0.013	0.013		0.012	0.012
Jharkhand	ECL	0.038	17.301	17.339	0.029	18.646	18.675	0.017	17.450	17.467
Jharkhand	BCCL	30.257	2.388	32.645	29.551	3.124	32.675	30.908	2.721	33.629
Jharkhand	CCL	18.679	33.442	52.121	19.359	35.978	55.337	18.799	40.783	59.582
Jharkhand	JSMDCCL		0.000	0.000		0.408	0.408		0.197	0.197
Jharkhand	DVC		0.045	0.045		0.055	0.055	0.392		0.392
Jharkhand	IISCO	0.541	0.000	0.541	0.420		0.420	0.558	0.014	0.572
Jharkhand	SAIL	0.044	0.031	0.075	0.024	0.001	0.025			0.000
Jharkhand	TISCO	6.902	0.067	6.969	6.037	0.024	6.061	6.225	0.008	6.233
Jharkhand	PSEB-PANEM		5.852	5.852		3.454	3.454			
Jharkhand	UML		0.759	0.759		0.794	0.794			
Jharkhand	WBPDCCL		0.082	0.082		4.007	4.007			
Jharkhand	ESCL	0.366	0.004	0.370	0.112	0.021	0.133			
Jharkhand	GVK			0.000			0.000			
Jharkhand	TOTAL	56.827	59.971	116.798	55.532	66.512	122.044	56.899	61.173	118.072
Madhya Pradesh	NCL		41.085	41.085		44.497	44.497		46.547	46.547
Madhya Pradesh	WCL	0.268	5.424	5.692	0.232	5.408	5.640	0.200	5.825	6.025
Madhya Pradesh	SECL		14.174	14.174		13.040	13.040		12.995	12.995
Madhya Pradesh	SPL		1.845	1.845		9.261	9.261		16.842	16.842
Madhya Pradesh	JPVL								2.796	2.796
Madhya Pradesh	MPSMCL		0.000	0.000		1.505	1.505			
Madhya Pradesh	BLA		0.300	0.300		0.300	0.300			
Madhya Pradesh	TOTAL	0.268	62.828	63.096	0.232	74.011	74.243	0.200	85.005	85.205
Maharashtra	WCL		34.247	34.247		35.600	35.600		36.281	36.281
Maharashtra	SIL		0.159	0.159		0.196	0.196		0.163	0.163
Maharashtra	KECML		2.472	2.472		2.413	2.413			
Maharashtra	BSIL		0.027	0.027		0.136	0.136			
Maharashtra	TUML-SVSL		0.300	0.300		0.208	0.208			
Maharashtra	TOTAL	0.000	37.205	37.205	0.000	38.553	38.553	0.000	36.444	36.444
Meghalaya	MEGHALAYA		5.732	5.732		2.524	2.524		3.712	3.712
Odisha	MCL		114.342	114.342		122.996	122.996		140.214	140.214
Odisha	GMR								0.425	0.425
Odisha	HIL		2.453	2.453		2.386	2.386			
Odisha	TOTAL		116.795	116.795		125.382	125.382		140.639	140.639
Telangana	SCCL		47.892	47.892		52.662	52.662		58.687	58.687
Uttar Pradesh	NCL		30.807	30.807		29.021	29.021		31.815	31.815
West Bengal	ECL	0.007	18.628	18.635	0.007	19.538	19.545		20.912	20.912
West Bengal	BCCL	1.239	0.174	1.413	0.542	0.390	0.932	2.006	0.529	2.535
West Bengal	IISCO		0.081	0.081		0.199	0.199		0.153	0.153
West Bengal	CESC								1.874	1.874
West Bengal	WBPDCCL		2.528	2.528		2.241	2.241			
West Bengal	ICML		3.278	3.278		3.771	3.771			
West Bengal	DVCEMTA		1.523	1.523		1.006	1.006			
West Bengal	WBMDTCL		0.734	0.734		1.111	1.111			
West Bengal	SOVA		0.279	0.279		0.400	0.400			
West Bengal	TOTAL	1.246	27.225	28.471	0.549	28.656	29.205	2.006	23.468	25.474
Total Public		51.196	482.755	533.951	50.289	511.533	561.822	52.988	547.318	600.306
Total Private		7.268	30.841	38.109	6.149	35.801	41.950	6.225	25.911	32.136
All India		58.464	513.596	572.060	56.438	547.334	603.772	59.213	573.229	632.442

TABLE 4.12: GRADEWISE DESPATCHES OF COKING COAL BY COMPANIES DURING 2015-16
(Quantity in Million Tonnes)

Companies	DESPATCHES OF COKING COAL											
	Steel-I	Steel-II	SC-1	Wash-I	Wash-II	Wash-III	Wash-IV	Mg Feed	SLV1	Met.Coal	Non Met	Total Coking
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		(9)	(10)	(11)	(12)
ECL						0.017				0.017	0.000	0.017
BCCL	0.029	1.035		0.198	1.605	9.838	20.209			2.795	30.119	32.914
CCL					0.077	2.176	12.734	3.812		4.102	14.697	18.799
NCL												0.000
WCL					0.200					0.169	0.031	0.200
SECL			0.108								0.108	0.108
SECL (GP-IV/2&3)												0.000
MCL												0.000
NEC												0.000
CIL	0.029	1.035	0.108	0.198	1.882	12.031	32.943	3.812	0.000	7.083	44.955	52.038
SCCL												0.000
JKML												0.000
JSMDCL												0.000
DVC							0.392				0.392	0.392
IISCO						0.075	0.483			0.558	0.000	0.558
SAIL												0.000
RRVUNL												0.000
Total Public	0.029	1.035	0.108	0.198	1.882	12.106	33.818	3.812	0.000	7.641	45.347	52.988
TISCO					0.134	1.049	5.042			6.225	0.000	6.225
Meghalaya												0.000
SIL												0.000
HIL												0.000
SPL												0.000
GMR												0.000
BALCO												0.000
JPVL												0.000
CESC												0.000
Total Private	0.000	0.000	0.000	0.000	0.134	1.049	5.042	0.000	0.000	6.225	0.000	6.225
ALL INDIA	0.029	1.035	0.108	0.198	2.016	13.155	38.860	3.812	0.000	13.866	45.347	59.213

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

TABLE 4.12A: GRADEWISE DESPATCHES OF NON COKING COAL BY COMPANIES DURING 2015-16
(Quantity in Million Tonnes)

Companies	DESPATCHES OF NON-COKING COAL																			Total N-coking	Total Coal
	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16	G17	UNG			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	
ECL	0.094	1.310	14.124	4.920	1.408	2.334	0.184						13.988							38.362	38.379
BCCL		0.210	0.360	0.077	1.374	1.119		0.110												3.250	36.164
CCL		0.044	0.138	2.546	0.831	0.995	4.003	12.053	11.080	5.314	3.437							0.342		40.783	59.582
NCL				0.503	0.212	17.482	11.688		46.908		1.569									78.362	78.362
WCL			0.016	0.334	1.201	2.695	9.155	25.747	2.958											42.106	42.306
SECL		2.688	3.573	6.260	6.198	4.659	1.161	1.447	2.325	97.444	10.719									136.474	136.582
SECL (GP-IV/2&3)													1.049	1.103						2.152	2.152
MCL				0.105			0.153	0.311	2.096	13.209	79.664	44.676								140.214	140.214
NEC	0.054	0.229		0.059																0.342	0.342
CIL	0.054	0.323	4.252	18.270	14.745	11.224	29.284	26.344	39.668	65.367	115.967	95.389	58.664	1.049	1.103	0.000	0.000	0.342		482.045	534.083
SCCL				0.712		10.694	1.164	9.974	8.761	12.409		11.023	1.403	1.734		0.631	0.182			58.687	58.687
JKML																0.012				0.012	0.012
JSMDCL												0.197								0.197	0.197
DVC																				0.000	0.392
IISCO			0.029		0.124													0.014		0.167	0.725
SAIL																				0.000	0.000
RRVUNL										6.210										6.210	6.210
Total Public	0.054	0.323	4.252	18.299	15.457	11.348	39.978	27.508	49.642	74.128	134.586	95.586	69.687	2.452	2.837	0.000	0.643	0.538		547.318	600.306
TISCO												0.008								0.008	6.233
Meghalaya	3.712																			3.712	3.712
SIL							0.163													0.163	0.163
HIL									0.012											0.012	0.012
SPL									16.842											16.842	16.842
GMR													0.059	0.366						0.425	0.425
BALCO							0.079													0.079	0.079
JPVL										2.796										2.796	2.796
CESC										1.874										1.874	1.874
Total Private	3.712	0.000	0.000	0.000	0.000	0.000	0.000	0.163	0.079	16.854	4.670	0.008	0.059	0.366	0.000	0.000	0.000	0.000		25.911	32.136
ALL INDIA	3.766	0.323	4.252	18.299	15.457	11.348	39.978	27.671	49.721	90.982	139.256	95.594	69.746	2.818	2.837	0.000	0.643	0.538		573.229	632.442

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 2015-16

(Quantity in Million Tonnes)

Grade	Assam	Chhattisgarh	Jammu & Kashmir	Jharkhand	Madhya Pradesh	Maharashtra	Meghalaya	Odisha	Telangana	Uttar Pradesh	West Bengal	All India
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Steel-I				0.026							0.003	0.029
Steel-II				1.035								1.035
SC-I		0.108										0.108
Wash-I				0.198								0.198
Wash-II				1.331	0.200						0.485	2.016
Wash-III				11.637							1.518	13.155
Wash-IV				38.860								38.860
Mg Feed				3.812								3.812
SLV1												0.000
Met.Coal				13.694	0.169						0.003	13.866
Non Met	0.000	0.108	0.000	43.205	0.031	0.000	0.000	0.000	0.000	0.000	2.003	45.347
Tot Ckg.	0.000	0.108	0.000	56.899	0.200	0.000	0.000	0.000	0.000	0.000	2.006	59.213
G1	0.054						3.712					3.766
G2	0.229										0.094	0.323
G3		1.279		0.608	1.409						0.956	4.252
G4	0.059	2.292		0.498	1.297						14.153	18.299
G5		4.555		4.007	2.277	0.146		0.105	0.712	0.119	3.536	15.457
G6		1.291		2.854	5.588	0.520				0.212	0.883	11.348
G7		0.966		2.476	19.245	0.675			10.694	3.950	1.972	39.978
G8		1.161		4.187	1.299	8.019		0.153	1.164	11.688		27.671
G9		1.526		12.163	1.621	24.126		0.311	9.974			49.721
G10		2.337		11.080	47.904	2.958		2.096	8.761	15.846		90.982
G11		103.654		5.314	2.796			13.209	12.409		1.874	139.256
G12		10.719		3.642	1.569			79.664				95.594
G13				13.988				44.735	11.023			69.746
G14		1.049						0.366	1.403			2.818
G15		1.103							1.734			2.837
G16												0.000
G17			0.012						0.631			0.643
UNG				0.356					0.182			0.538
Tot. Nckg	0.342	131.932	0.012	61.173	85.005	36.444	3.712	140.639	58.687	31.815	23.468	573.229
Total Coal	0.342	132.040	0.012	118.072	85.205	36.444	3.712	140.639	58.687	31.815	25.474	632.442

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

TABLE 4.14: GRADEWISE DESPATCHES OF COKING COAL AND NON COKING COAL IN INDIA DURING LAST TEN YEARS
(Quantity in Million Tonnes)

Type	Grade	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	New Grade	2012-13	2013-14	2014-15	2015-16
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		(9)	(10)	(11)	(12)
COKING COAL	Steel-I	0.133	0.089	0.064	0.091	0.224	0.092	Steel-I	0.075	0.071	0.052	0.029
	Steel-II	0.512	0.280	0.871	1.057	1.226	1.271	Steel-II	1.671	0.898	0.327	1.035
	SC-1	0.188	0.178	0.171	0.158	0.170	0.204	SC-1	0.166	0.130	0.132	0.108
	Wash-I	0.275	0.462	0.309	0.291	0.193	0.185	Wash-I	0.297	0.190	0.102	0.198
	Wash-II	3.242	2.106	2.551	1.756	1.601	1.816	Wash-II	1.812	1.921	1.693	2.016
	Wash-III	6.893	7.212	7.841	9.114	10.432	13.730	Wash-III	13.335	13.582	12.177	13.155
	Wash-IV	20.600	23.014	23.865	30.000	35.081	34.425	Wash-IV	38.500	41.563	41.955	38.860
	Mg Feed							Mg Feed				3.812
	SLV1	0.084	0.202	0.052	0.002	0.023	0.000	SLV1	0.003	0.109		
	Met.Coal	16.334	16.438	15.061	15.144	16.075	15.903	Met.Coal	14.730	15.236	13.494	13.866
	Non Met	15.593	17.105	20.663	27.325	32.875	35.820	Non Met	41.129	43.228	42.944	45.347
Total Coking		31.927	33.543	35.724	42.469	48.950	51.723		55.859	58.464	56.438	59.213
NON - COKING COAL	A	4.825	4.650	4.023	10.266	11.772	14.678	G1	5.864	6.130	2.772	3.766
	B	23.524	24.717	26.024	27.689	25.648	60.175	G2	0.522	0.264	0.621	0.323
	C	52.197	53.177	46.101	53.242	54.760	28.050	G3	4.985	4.747	4.698	4.252
	D	42.543	47.928	53.338	52.679	49.524	51.887	G4	19.14	21.944	19.647	18.299
	E	93.693	101.850	117.612	118.933	117.677	106.834	G5	17.431	16.537	16.296	15.457
	F	157.304	174.411	191.143	205.325	207.576	197.845	G6	20.787	16.314	20.186	11.348
	SLV	7.652	6.375	8.833	2.712			G7	35.934	36.620	38.705	39.978
	G			0.437		6.075	13.386	G8	27.198	31.275	29.283	27.671
								G9	71.963	54.287	50.547	49.721
								G10	64.307	64.193	76.369	90.982
								G11	110.285	119.125	137.861	139.256
								G12	57.847	76.740	82.302	95.594
								G13	62.881	50.900	55.655	69.746
								G14	3.079	4.112	4.205	2.818
								G15	3.177	3.359	3.446	2.837
								G16	1.476	2.480	1.579	0.000
								G17	4.401	4.523	3.141	0.643
Ungr	6.135	6.916	5.937	0.477	1.483	10.721	Ungr		0.046	0.021	0.538	
Total Non Coking		387.873	420.024	453.448	471.323	474.515	483.576		511.277	513.596	547.334	573.229
TOTAL COAL		419.800	453.567	489.172	513.792	523.465	535.299		567.136	572.060	603.772	632.442

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

TABLE 4.15: MODEWISE COMPANYWISE DESPATCHES OF COAL (External & Internal) /COAL PRODUCTS (Washed Coal & Middlings) in 2015-16
(Quantity in Million Tonnes)

Company	Raw Coal/ Coal Product	YEAR 2015-16 (External)							YEAR 2015-16 (Internal)							Grand Total
		RAIL	ROAD	BELT	ROPE	MGR	Other	TOTAL	RAIL	ROAD	BELT	ROPE	MGR	Other	TOTAL	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
ECL	RC	26.444	1.679			10.256		38.379							0.000	38.379
BCCL	RC	27.560	6.193					33.753	1.049	1.362					2.411	36.164
BCCL	CP	2.347	0.004					2.351							0.000	2.351
CCL	RC	26.771	19.726					46.497		13.085					13.085	59.582
CCL	CP	11.836	0.109					11.945							0.000	11.945
NCL	RC	27.857	6.799	1.840		38.581		75.077		3.285					3.285	78.362
NCL	CP		3.115					3.115							0.000	3.115
WCL	RC	27.140	11.860	0.929	1.968	0.255		42.152						0.154	0.154	42.306
WCL	CP	0.136						0.136							0.000	0.136
SECL	RC	46.876	54.799	7.136		25.066	2.705	136.582							0.000	136.582
SEC (GP-IV/2&3)	RC		2.152					2.152							0.000	2.152
MCL	RC	89.079	34.515	1.388		15.231	0.001	140.214							0.000	140.214
NEC	RC	0.274	0.068					0.342							0.000	0.342
CIL	RC	272.001	137.791	11.293	1.968	89.389	2.706	515.148	1.049	17.732	0.000	0.000	0.000	0.154	18.935	534.083
CIL	CP	14.319	3.228	0.000	0.000	0.000	0.000	17.547	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.547
SCCL	RC	38.299	9.260		0.519	8.611	1.998	58.687							0.000	58.687
JKML	RC		0.012					0.012							0.000	0.012
DVC	RC		0.392					0.392							0.000	0.392
IISCO	RC		0.059					0.059		0.400	0.191	0.075			0.666	0.725
IISCO	CP	1.133	0.001					1.134							0.000	1.134
SAIL	RC							0.000							0.000	0.000
JSMDCL	RC		0.197					0.197							0.000	0.197
RRVUNL	RC							0.000		6.210					6.210	6.210
RRVUNL	CP		5.479					5.479							0.000	5.479
PUBLIC	RC	310.300	147.711	11.293	2.487	98.000	4.704	574.495	1.049	24.342	0.191	0.075	0.000	0.154	25.811	600.306
PUBLIC	CP	15.452	8.708	0.000	0.000	0.000	0.000	24.160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	24.160
TISCO	RC							0.000		0.270	5.740	0.221		0.002	6.233	6.233
TISCO	CP	5.184	0.003					5.187							0.000	5.187
MEG	RC		3.712					3.712							0.000	3.712
CESC	RC		0.115					0.115		1.759					1.759	1.874
HIL	RC		0.012					0.012							0.000	0.012
SPL	RC		16.842					16.842							0.000	16.842
GMR	RC		0.425					0.425							0.000	0.425
BALCO	RC		0.079					0.079							0.000	0.079
SIL	RC	0.163						0.163							0.000	0.163
JPVL	RC	2.796						2.796							0.000	2.796
PRIVATE	RC	2.959	21.185	0.000	0.000	0.000	0.000	24.144	0.000	2.029	5.740	0.221	0.000	0.002	7.992	32.136
PRIVATE	CP	5.184	0.003	0.000	0.000	0.000	0.000	5.187	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.187
All India	RC	313.259	168.896	11.293	2.487	98.000	4.704	598.639	1.049	26.371	5.931	0.296	0.000	0.156	33.803	632.442
All India	CP	20.636	8.711	0.000	0.000	0.000	0.000	29.347	0.000	0.000	0.000	0.000	0.000	0.000	0.000	29.347

TABLE 4.16: COMPANYWISE OFF-TAKE OF RAW COAL TO DIFFERENT PRIORITY SECTORS (INCLUDING WASHERIES) DURING 2015-16

(Quantity in Million Tonnes)

Company	Power (Utility)	Power (Captive)	Metallurgical Use			Non Coking Washery	Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	Total Despatches	Colliery Own - Consumption	Colliery Staff	Total Offtake
			Direct Feed	Coking Washery	Cokeries															
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
ECL	35.775	0.079					0.204	0.089		0.063			0.044	0.003	0.014	2.108	38.379	0.227		38.606
BCCL	28.992	0.001		0.907					1.032							5.232	36.164	0.048	0.001	36.213
CCL	33.517	1.845	0.330	3.812	0.133	9.273			0.239	0.593	0.018					9.822	59.582	0.001		59.583
NCL	69.284	3.930						0.210		0.102	0.246					4.590	78.362			78.362
WCL	31.791	1.958	0.169		0.031			1.709		0.329		0.071	0.380	0.074		5.794	42.306	0.004		42.310
SECL	105.403	5.504	0.108					2.959	1.021	3.284		0.010	0.162	0.042		18.089	136.582	0.014		136.596
SECL (GP-IV/2&3)																2.152	2.152			2.152
MCL	93.173	18.292						0.240	0.004	3.166						25.339	140.214	0.005		140.219
NEC		0.175						0.022					0.037			0.108	0.342			0.342
CIL	397.935	31.784	0.607	4.719	0.164	9.273	0.204	5.229	2.296	7.537	0.246	0.099	0.623	0.119	0.014	73.234	534.083	0.299	0.001	534.383
SCCL	47.694	2.172						3.724		0.098	0.194	0.226	0.588	0.147	0.014	3.830	58.687	0.035		58.722
JKML								0.002						0.001	0.009		0.012			0.012
DVC	0.392																0.392			0.392
IISCO		0.108		0.558			0.045									0.014	0.725			0.725
SAIL																	0.000			0.000
JSMDC	0.100							0.030		0.030					0.037		0.197			0.197
RRVUNL						6.210											6.210			6.210
PUBLIC	446.121	34.064	0.607	5.277	0.164	15.483	0.249	8.985	2.296	7.665	0.440	0.325	1.211	0.267	0.074	77.078	600.306	0.334	0.001	600.641
TISCO				6.225		0.008											6.233		0.001	6.234
MEG																3.712	3.712			3.712
CESC	1.874																1.874			1.874
HIL		0.012															0.012			0.012
SPL	16.842																16.842			16.842
GMR		0.425															0.425			0.425
BALCO		0.079															0.079			0.079
SIL		0.065								0.098							0.163			0.163
JPVL	2.796																2.796			2.796
PRIVATE	21.512	0.581	0.000	6.225	0.000	0.008	0.000	0.000	0.000	0.098	0.000	0.000	0.000	0.000	0.000	3.712	32.136	0.000	0.001	32.137
GRAND TOTAL	467.633	34.645	0.607	11.502	0.164	15.491	0.249	8.985	2.296	7.763	0.440	0.325	1.211	0.267	0.074	80.790	632.442	0.334	0.002	632.778

TABLE 4.17 : COMPANYWISE OFF-TAKE OF LIGNITE TO DIFFERENT PRIORITY SECTORS DURING 2015-16

(Quantity in Million Tonnes)

Company	Power (Utility)	Power (Captive)	Metallurgical Use			Non Coking Washery	Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	Total Despatches	Colliery Own - Consumption	Colliery Staff	Total Offtake
			Direct Feed	Coking Washery	Cokeries															
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
GIPCL		3.063															3.063			3.063
GMDCL		3.125					0.010	0.103	0.003		1.009	0.227	0.384	1.723	0.384		6.968			6.968
GHCL		0.104															0.104			0.104
NLCL	21.954	1.640					0.002	0.035			0.011		0.043	0.001	0.008	0.023	23.717			23.717
RSMML		0.282						0.087						0.004		0.599	0.972			0.972
VSLPPL		0.824															0.824			0.824
BLMCL		6.563															6.563			6.563
TOTAL	21.954	15.601	0.000	0.000	0.000	0.000	0.012	0.225	0.003	0.000	1.020	0.227	0.427	1.728	0.392	0.622	42.211	0.000	0.000	42.211

TABLE 4.18 : COMPANYWISE OFF-TAKE OF RAW COAL TO DIFFERENT PRIORITY SECTORS DURING 2015-16

(Quantity in Million Tonnes)

Company	Power (Utility)	Power (Captive)	Steel(Direct Feed)	Steel (coke oven plants & cokeries)	Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	Total Despatches	Colliery Own - Consumption	Colliery Staff	Total Offtake
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
ECL	35.775	0.079			0.204	0.089		0.063			0.044	0.003	0.014	2.108	38.379	0.227		38.606
BCCL	28.992	0.001		0.907			1.032							5.232	36.164	0.048	0.001	36.213
CCL	42.790	1.845	0.330	3.945			0.239	0.593	0.018					9.822	59.582	0.001		59.583
NCL	69.284	3.930				0.210		0.102	0.246					4.590	78.362			78.362
WCL	31.791	1.958	0.169	0.031		1.709		0.329		0.071	0.380	0.074		5.794	42.306	0.004		42.310
SECL	105.403	5.504	0.108			2.959	1.021	3.284		0.010	0.162	0.042		18.089	136.582	0.014		136.596
SECL (GP-IV/2&3)														2.152	2.152			2.152
MCL	93.173	18.292				0.240	0.004	3.166						25.339	140.214	0.005		140.219
NEC		0.175				0.022					0.037			0.108	0.342			0.342
CIL	407.208	31.784	0.607	4.883	0.204	5.229	2.296	7.537	0.246	0.099	0.623	0.119	0.014	73.234	534.083	0.299	0.001	534.383
SCCL	47.694	2.172				3.724		0.098	0.194	0.226	0.588	0.147	0.014	3.830	58.687	0.035		58.722
JKML						0.002						0.001	0.009		0.012			0.012
DVC	0.392														0.392			0.392
IISCO		0.108		0.558	0.045									0.014	0.725			0.725
SAIL															0.000			0.000
JSMDC	0.100					0.030		0.030					0.037		0.197			0.197
RRVUNL	6.210														6.210			6.210
PUBLIC	461.604	34.064	0.607	5.441	0.249	8.985	2.296	7.665	0.440	0.325	1.211	0.267	0.074	77.078	600.306	0.334	0.001	600.641
TISCO	0.008			6.225											6.233		0.001	6.234
MEG														3.712	3.712			3.712
CESC	1.874														1.874			1.874
HIL		0.012													0.012			0.012
SPL	16.842														16.842			16.842
GMR		0.425													0.425			0.425
BALCO		0.079													0.079			0.079
SIL		0.065						0.098							0.163			0.163
JPVL	2.796														2.796			2.796
PRIVATE	21.520	0.581	0.000	6.225	0.000	0.000	0.000	0.098	0.000	0.000	0.000	0.000	0.000	3.712	32.136	0.000	0.001	32.137
GRAND TOTAL	483.124	34.645	0.607	11.666	0.249	8.985	2.296	7.763	0.440	0.325	1.211	0.267	0.074	80.790	632.442	0.334	0.002	632.778

Note: (i) Raw Coal sent to coking and non coking washery, as the case may be, reported accordingly.
 (ii) Power which is generated and used for commercial purpose in considered as Power(Utility).
 (iii) Power which is generated and utilized/consumed for their own use in considered as under Power(Captive).

TABLE-4.19 : SECTORWISE OFFTAKE OF COKING COAL (RAW COAL, WASHED COAL & MIDDLING) FOR FINAL CONSUMPTION - COMPANYWISE IN 2015-16

(Quantity in Million Tonnes)

COMPANY	Type of coal/ coal products/Lignite	Power (Utility)	Power (Captive)	Metallurgical Use		Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	Total Despatches	Colliery Own - Consumption	Colliery Staff	Total Offtake
				Direct Feed	Cokeries														
(1)	(2)	(3)	(4)	(5)	(7)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
ECL	RCE														0.017	0.017			0.017
ECL	TOT														0.017	0.017	0.000	0.000	0.017
BCCL	RCE	25.840			0.907			0.994							2.762	30.503			30.503
BCCL	WC			0.597												0.597			0.597
BCCL	MID	1.001	0.754													1.755			1.755
BCCL	TOT	26.841	0.754	0.597	0.907			0.994							2.762	32.855			32.855
CCL	RCE	12.228		0.330	0.133										2.296	14.987			14.987
CCL	WC				1.375											1.375			1.375
CCL	MID	0.965	0.654													1.619			1.619
CCL	TOT	13.193	0.654	0.330	1.508										2.296	17.981			17.981
WCL	RCE			0.015	0.031											0.046			0.046
WCL	WC				0.081											0.081			0.081
WCL	MID	0.055														0.055			0.055
WCL	TOT	0.055		0.015	0.112											0.182			0.182
SECL	RCE			0.108												0.108			0.108
SECL	TOT			0.108												0.108			0.108
CIL	RCE	38.068		0.345	1.071			0.994							5.075	45.553	0.000	0.000	45.553
CIL	WC			0.597	1.456											2.053	0.000	0.000	2.053
CIL	MID	1.966	1.408													3.374	0.000	0.000	3.374
CIL	TOT	40.034	1.408	0.942	2.527	0.000	0.000	0.994	0.000	0.000	0.000	0.000	0.000	0.000	5.075	50.980	0.000	0.000	50.980
DVC	RCE	0.392			0.000											0.392			0.392
DVC	TOT	0.392			0.000											0.392			0.392
IISCO	WC				0.555											0.555			0.555
IISCO	MID				0.000	0.578								0.001	0.579				0.579
IISCO	TOT				0.555	0.578								0.001	1.134				1.134
PUBLIC	RCE	38.460	0.000	0.453	1.071	0.000	0.000	0.994	0.000	0.000	0.000	0.000	0.000	0.000	5.075	46.053	0.000	0.000	46.053
PUBLIC	WC	0.000	0.000	0.597	2.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.053	0.000	0.000	2.053
PUBLIC	MID	2.021	1.408	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.429	0.000	0.000	3.429
PUBLIC	TOT	40.481	1.408	1.050	3.082	0.000	0.000	0.994	0.000	0.000	0.000	0.000	0.000	0.000	5.075	51.535	0.000	0.000	51.535
TISCO	WC				3.460											3.460			3.460
TISCO	MID	1.591	0.046		0.090											1.727			1.727
TISCO	TOT	1.591	0.046		3.550											5.187			5.187
PRIVATE	RCE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PRIVATE	WC	0.000	0.000	0.000	3.460	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.460	0.000	0.000	3.460
PRIVATE	MID	1.591	0.046	0.000	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.727	0.000	0.000	1.727
PRIVATE	TOT	1.591	0.046	0.000	3.550	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.187	0.000	0.000	5.187
ALL INDIA	RCE	38.460	0.000	0.453	1.071	0.000	0.000	0.994	0.000	0.000	0.000	0.000	0.000	0.000	5.075	46.053	0.000	0.000	46.053
ALL INDIA	WC	0.000	0.000	0.597	5.471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.513	0.000	0.000	5.513
ALL INDIA	MID	3.612	1.454	0.000	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.156	0.000	0.000	5.156
ALL INDIA	TOT	42.072	1.454	1.050	6.632	0.000	0.000	0.994	0.000	0.000	0.000	0.000	0.000	0.000	5.075	56.722	0.000	0.000	56.722

TABLE-4.20: SECTORWISE OFFTAKE OF NON-COKING COAL (RAW COAL, WASHED COAL & MIDDLING) FOR FINAL CONSUMPTION-COMPANYWISE IN 2015-16

(Quantity in Million Tonnes)

Company	Type of coal/ coal products /Lignite	Power (Utility)	Power (Captive)	Direct Feed	Cokeries	Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	Total Despatch	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	35.775	0.079			0.204	0.089		0.063			0.044	0.003	0.014	2.091	38.362	0.227		38.589
ECL	TOT	35.775	0.079			0.204	0.089		0.063			0.044	0.003	0.014	2.091	38.362	0.227		38.589
BCCL	RCE	3.152	0.001					0.038							0.059	3.250			3.250
BCCL	TOT	3.152	0.001					0.038							0.059	3.250			3.250
CCL	RCE	21.289	1.845					0.239	0.593		0.018				7.526	31.510			31.510
CCL	WC	8.528	0.422													8.950			8.950
CCL	TOT	29.817	2.267					0.239	0.593		0.018				7.526	40.460			40.460
NCL	RCE	65.999	3.930				0.210		0.102	0.246					4.590	75.077			75.077
NCL	WC	3.115														3.115			3.115
NCL	TOT	69.114	3.930				0.210		0.102	0.246					4.590	78.192			78.192
WCL	RCE	31.791	1.958				1.709		0.329		0.071	0.380	0.074		5.794	42.106			42.106
WCL	TOT	31.791	1.958				1.709		0.329		0.071	0.380	0.074		5.794	42.106			42.106
SECL	RCE	105.403	5.504				2.959	1.021	3.284		0.010	0.162	0.042		18.089	136.474	0.014		136.488
SECL	TOT	105.403	5.504				2.959	1.021	3.284		0.010	0.162	0.042		18.089	136.474	0.014		136.488
SECL (GP-IV/2&3)	RCE														2.152	2.152			2.152
SECL (GP-IV/2&3)	TOT														2.152	2.152			2.152
MCL	RCE	93.173	18.292				0.240	0.004	3.166						25.339	140.214	0.005		140.219
MCL	TOT	93.173	18.292				0.240	0.004	3.166						25.339	140.214	0.005		140.219
NEC	RCE		0.175					0.022				0.037			0.108	0.342			0.342
NEC	TOT		0.175					0.022				0.037			0.108	0.342			0.342
CIL	RCE	356.582	31.784	0.000	0.000	0.204	5.229	1.302	7.537	0.246	0.099	0.623	0.119	0.014	65.748	469.487	0.246	0.000	469.733
CIL	WC	11.643	0.422	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.065	0.000	0.000	12.065
CIL	MID	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CIL	TOT	368.225	32.206	0.000	0.000	0.204	5.229	1.302	7.537	0.246	0.099	0.623	0.119	0.014	65.748	481.552	0.246	0.000	481.798
SCCL	RCE	47.694	2.172				3.724		0.098	0.194	0.226	0.588	0.147	0.014	3.830	58.687	0.035		58.722
SCCL	TOT	47.694	2.172				3.724		0.098	0.194	0.226	0.588	0.147	0.014	3.830	58.687	0.035		58.722
JKML	RCE							0.002					0.001	0.009		0.012			0.012
JKML	TOT							0.002					0.001	0.009		0.012			0.012
IISCO	RCE					0.045									0.014	0.059			0.059
IISCO	TOT					0.045									0.014	0.059			0.059
JSMDCL	RCE	0.100					0.030		0.030					0.037		0.197			0.197
JSMDCL	TOT	0.100					0.030		0.030					0.037		0.197			0.197
RRVUNL	WC		5.479													5.479			5.479
RRVUNL	TOT		5.479													5.479			5.479
PUBLIC	RCE	404.376	33.956	0.000	0.000	0.249	8.985	1.302	7.665	0.440	0.325	1.211	0.267	0.074	69.592	528.442	0.281	0.000	528.723
PUBLIC	WC	11.643	5.901	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.544	0.000	0.000	17.544
PUBLIC	MID	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PUBLIC	TOT	416.019	39.857	0.000	0.000	0.249	8.985	1.302	7.665	0.440	0.325	1.211	0.267	0.074	69.592	545.986	0.281	0.000	546.267
MEG	RCE														3.712	3.712			3.712
MEG	TOT														3.712	3.712			3.712
CESC	RCE	0.115														0.115			0.115
CESC	TOT	0.115														0.115			0.115
HIL	RCE		0.012													0.012			0.012
HIL	TOT		0.012													0.012			0.012
SPL	RCE	16.842														16.842			16.842
SPL	TOT	16.842														16.842			16.842
GMR	RCE		0.425													0.425			0.425
GMR	TOT		0.425													0.425			0.425
BALCO	RCE		0.079													0.079			0.079
BALCO	TOT		0.079													0.079			0.079
SIL	RCE		0.065						0.098							0.163			0.163
SIL	TOT		0.065						0.098							0.163			0.163
JPVL	RCE	2.796														2.796			2.796
JPVL	TOT	2.796														2.796			2.796
PRIVATE	RCE	19.753	0.581	0.000	0.000	0.000	0.000	0.000	0.098	0.000	0.000	0.000	0.000	0.000	3.712	24.144	0.000	0.000	24.144
PRIVATE	WC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PRIVATE	MID	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PRIVATE	TOT	19.753	0.581	0.000	0.000	0.000	0.000	0.000	0.098	0.000	0.000	0.000	0.000	0.000	3.712	24.144	0.000	0.000	24.144
ALL India	RCE	424.129	34.537	0.000	0.000	0.249	8.985	1.302	7.763	0.440	0.325	1.211	0.267	0.074	73.304	552.586	0.281	0.000	552.867
ALL India	WC	11.643	5.901	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.544	0.000	0.000	17.544
ALL India	MID	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ALL India	TOT	435.772	40.438	0.000	0.000	0.249	8.985	1.302	7.763	0.440	0.325	1.211	0.267	0.074	73.304	570.130	0.281	0.000	570.411

TABLE-4.21: SECTORWISE OFFTAKE OF RAW COAL, WASHED COAL, MIDDINGS FOR FINAL CONSUMPTION TO DIFFERENT STATES: 2015-16
(Quantity in Million Tonnes)

COMPANY	Type of coal/ coal products	Power (Utility)	Power (Captive)	Metallurgical Use		Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	Despatches	Colliery Own - Consumption	Colliery Staff	Offtake
				Direct Feed	Cokeries														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
An. Pradesh	Raw Coal (FC)	29.155	1.763				0.471		0.124	0.125	0.060	0.072		0.005	0.675	32.450			32.450
An. Pradesh	Washed Coal				0.408											0.408			0.408
An. Pradesh	Tot Coal (FC)	29.155	1.763		0.408		0.471		0.124	0.125	0.060	0.072		0.005	0.675	32.858			32.858
Assam	Raw Coal (FC)	0.114					0.022					0.037			0.055	0.228			0.228
Assam	Tot Coal (FC)	0.114					0.022					0.037			0.055	0.228			0.228
BHR	Raw Coal (FC)	6.360			0.018						0.006				0.617	7.001			7.001
BHR	Middlings	0.008												0.001		0.009			0.009
BHR	Tot Coal (FC)	6.368			0.018						0.006			0.001	0.617	7.010			7.010
Chhattisgarh	Raw Coal (FC)	48.665	2.618	0.066			1.606		3.251			0.014			0.196	56.416			56.416
Chhattisgarh	Washed Coal				0.736											0.736			0.736
Chhattisgarh	Middlings		0.020			0.009										0.029			0.029
Chhattisgarh	Tot Coal (FC)	48.665	2.638	0.066	0.736	0.009	1.606		3.251			0.014			0.196	57.181			57.181
Delhi	Raw Coal (FC)	2.143	0.064				0.030					0.029			0.037	2.303			2.303
Delhi	Washed Coal	0.042														0.042			0.042
Delhi	Middlings	0.008														0.008			0.008
Delhi	Tot Coal (FC)	2.193	0.064				0.030					0.029			0.037	2.353			2.353
Gujarat	Raw Coal (FC)	16.166	0.456					0.766			0.039	0.005	0.028		0.164	17.624			17.624
Gujarat	Tot Coal (FC)	16.166	0.456					0.766			0.039	0.005	0.028		0.164	17.624			17.624
Haryana	Raw Coal (FC)	13.311						0.658							0.045	14.014			14.014
Haryana	Washed Coal	0.219														0.219			0.219
Haryana	Middlings	0.175														0.175			0.175
Haryana	Tot Coal (FC)	13.705						0.658							0.045	14.408			14.408
H.Pradesh	Raw Coal (FC)						0.074									0.074			0.074
H.Pradesh	Tot Coal (FC)						0.074									0.074			0.074
J&K	Raw Coal (FC)						0.031						0.001	0.009		0.041			0.041
J&K	Tot Coal (FC)						0.031						0.001	0.009		0.041			0.041
Jharkhand	Raw Coal (FC)	32.373	1.573	0.241	0.904		0.053		0.497		0.004			0.041	8.432	44.118	0.057	0.002	44.177
Jharkhand	Washed Coal				3.443											3.443			3.443
Jharkhand	Middlings	2.494	1.106			0.136									0.001	3.737			3.737
Jharkhand	Tot Coal (FC)	34.867	2.679	0.241	4.347	0.136	0.053	0.000	0.497	0.000	0.004	0.000	0.000	0.041	8.433	51.298	0.057	0.002	51.357
Kerala	Raw Coal (FC)						0.035					0.046				0.081			0.081
Kerala	Tot Coal (FC)						0.035					0.046				0.081			0.081
Karnataka	Raw Coal (FC)	12.730	0.663				1.475		0.023		0.008	0.120	0.109		0.042	15.170			15.170
Karnataka	Tot Coal (FC)	12.730	0.663				1.475		0.023		0.008	0.120	0.109		0.042	15.170			15.170
Maharashtra	Raw Coal (FC)	53.709	1.213				1.624		0.451		0.021	0.273	0.052		4.956	62.299	0.002		62.301
Maharashtra	Tot Coal (FC)	53.709	1.213				1.624		0.451		0.021	0.273	0.052		4.956	62.299	0.002		62.301
Meghalaya	Raw Coal (FC)														3.712	3.712			3.712
Meghalaya	Tot Coal (FC)														3.712	3.712			3.712
M. Pradesh	Raw Coal (FC)	57.887	1.807	0.154			0.946		0.060		0.021	0.151	0.037		3.935	64.998	0.016		65.014
M. Pradesh	Middlings	0.055														0.055			0.055
M. Pradesh	Tot Coal (FC)	57.942	1.807	0.154	0.000	0.000	0.946	0.000	0.060	0.000	0.021	0.151	0.037	0.000	3.935	65.053	0.016	0.000	65.069

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TABLE-4.21: SECTORWISE OFFTAKE OF RAW COAL, WASHED COAL, MIDDINGS FOR FINAL CONSUMPTION TO DIFFERENT STATES: 2015-16

(Quantity in Million Tonnes)

COMPANY	Type of coal/ coal products	Power (Utility)	Power (Captive)	Metallurgical Use		Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	Despatches	Colliery Own - Consumption	Colliery Staff	Offtake
				Direct Feed	Cokeries														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
Odisha	Raw Coal (FC)	27.974	15.037	0.100			0.253	0.004	2.559	0.220	0.007	0.024			25.062	71.240	0.005		71.245
Odisha	Washed Coal				0.250											0.250			0.250
Odisha	Middlings		0.079			0.109										0.188			0.188
Odisha	Tot Coal (FC)	27.974	15.116	0.100	0.250	0.109	0.253	0.004	2.559	0.220	0.007	0.024			25.062	71.678	0.005		71.683
Panjab	Raw Coal (FC)	11.786	0.334					0.373							0.035	12.528			12.528
Panjab	Tot Coal (FC)	11.786	0.334					0.373							0.035	12.528			12.528
Rajasthan	Raw Coal (FC)	11.126	1.814				0.355	0.255					0.019		0.062	13.631			13.631
Rajasthan	Washed Coal	0.061	5.479													5.540			5.540
Rajasthan	Tot Coal (FC)	11.187	7.293				0.355	0.255					0.019		0.062	19.171			19.171
Telangana	Raw Coal (FC)	24.611	1.300				1.455		0.074	0.069	0.173	0.467	0.019	0.008	2.551	30.727	0.035		30.762
Telangana	Tot Coal (FC)	24.611	1.300				1.455		0.074	0.069	0.173	0.467	0.019	0.008	2.551	30.727	0.035		30.762
Tamilnadu	Raw Coal (FC)	19.765	0.710				0.120					0.020			0.019	20.634			20.634
Tamilnadu	Tot Coal (FC)	19.765	0.710				0.120					0.020			0.019	20.634			20.634
U. Pradesh	Raw Coal (FC)	61.865	4.499		0.133		0.210	0.239	0.094	0.246	0.008				4.878	72.172			72.172
U. Pradesh	Washed Coal	2.963														2.963			2.963
U. Pradesh	Middlings	0.231														0.231			0.231
U. Pradesh	Tot Coal (FC)	65.059	4.499		0.133		0.210	0.239	0.094	0.246	0.008				4.878	75.366			75.366
Uttaranchal	Raw Coal (FC)		0.502												0.076	0.578			0.578
Uttaranchal	Tot Coal (FC)		0.502												0.076	0.578			0.578
W. Bengal	Raw Coal (FC)	43.593	0.228	0.039	0.023	0.249	0.007		0.630			0.073	0.003	0.010	1.963	46.818	0.219		47.037
W. Bengal	Washed Coal	0.495			1.231											1.726			1.726
W. Bengal	Middlings	0.628	0.253			0.324									0.008	1.213			1.213
W. Bengal	Tot Coal (FC)	44.716	0.481	0.039	1.254	0.573	0.007		0.630			0.073	0.003	0.010	1.971	49.757	0.219		49.976
Others	Raw Coal (FC)						0.011								19.840	19.851			19.851
Others	Middlings		0.008												0.090	0.098			0.098
Others	Tot Coal (FC)		0.008				0.011								19.930	19.949			19.949
ALL India	Raw Coal (FC)	473.333	34.581	0.600	1.078	0.249	8.778	2.295	7.763	0.660	0.347	1.331	0.268	0.073	77.352	608.708	0.334	0.002	609.044
ALL India	Washed Coal	3.780	5.479	0.000	6.068	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	15.327	0.000	0.000	15.327
ALL India	Middlings	3.599	1.466	0.000	0.000	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.099	5.743	0.000	0.000	5.743
ALL India	Tot Coal (FC)	480.712	41.526	0.600	7.146	0.827	8.778	2.295	7.763	0.660	0.347	1.331	0.268	0.074	77.451	629.778	0.334	0.002	630.114

TABLE 4.22 : AVAILABILITY AND OFF-TAKE OF INDIAN RAW COAL FROM PUBLIC & PRIVATE SECTORS DURING LAST TEN YEARS
(Quantity in Million Tonnes)

YEAR	PUBLIC							PRIVATE							ALL INDIA						
	AVAILABILITY			OFF-TAKE			Closing Stock	AVAILABILITY			OFF-TAKE			Closing Stock	AVAILABILITY			OFF-TAKE			Closing Stock
	Op.St.	Prdn.	Total	Desp.	Coll. Con.	Total		Op.St.	Prdn.	Total	Desp.	Coll. Con.	Total		Op.St.	Prdn.	Total	Desp.	Coll. Con.	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
2006-07	34.041	400.393	434.434	389.561	0.990	390.551	43.848	0.293	30.439	30.732	30.239	0.001	30.240	0.500	34.334	430.832	465.166	419.800	0.991	420.791	44.348
2007-08	43.848	422.166	466.014	418.458	0.925	419.383	46.493	0.500	34.916	35.416	35.109	0.001	35.110	0.286	44.348	457.082	501.430	453.567	0.926	454.493	46.779
2008-09	46.493	450.115	496.608	446.908	0.845	447.753	46.820	0.286	42.642	42.928	42.264	0.000	42.264	0.497	46.779	492.757	539.536	489.172	0.845	490.017	47.317
2009-10	46.820	484.04	530.860	466.845	0.762	467.607	63.175	0.497	48.002	48.499	46.947	0.000	46.947	1.688	47.317	532.042	579.359	513.792	0.762	514.554	64.863
2010-11	63.175	485.061	548.236	476.060	0.614	476.674	71.569	1.688	47.633	49.321	47.405	0.008	47.413	0.623	64.863	532.694	597.557	523.465	0.621	524.086	72.192
2011-12	71.569	490.755	562.324	486.900	0.581	487.481	72.628	0.623	49.195	49.818	48.399	0.001	48.400	1.412	72.192	539.950	612.142	535.299	0.621	535.920	74.040
2012-13	72.628	509.240	581.868	520.326	0.466	520.792	61.347	1.412	47.162	48.574	46.810	0.002	46.812	1.702	74.040	556.402	630.442	567.136	0.468	567.604	63.049
2013-14	61.347	528.080	589.427	533.951	0.424	534.375	54.534	1.702	37.685	39.387	38.109	0.001	38.110	0.980	63.049	565.765	628.814	572.060	0.425	572.485	55.514
2014-15	54.534	567.032	621.566	543.648	0.575	544.223	59.101	0.980	42.147	43.127	27.087	0.001	27.088	0.288	55.514	609.179	664.693	570.735	0.576	571.311	59.389
2015-16	59.101	606.677	665.778	600.306	0.335	600.641	64.776	0.288	32.553	32.841	32.136	0.001	32.137	0.585	59.389	639.230	698.619	632.442	0.336	632.778	65.361

TABLE 4.23 : AVAILABILITY AND OFF-TAKE OF INDIAN RAW COAL FROM CAPTIVE AND NON-CAPTIVE MINES DURING LAST TEN YEARS

(Quantity in Million Tonnes)

YEAR	CAPTIVE							NON-CAPTIVE							ALL INDIA						
	AVAILABILITY			OFF-TAKE			Closing Stock	AVAILABILITY			OFF-TAKE			Closing Stock	AVAILABILITY			OFF-TAKE			Closing Stock
	Op.St.	Prdn.	Total	Desp.	Coll. Con	Total		Op.St.	Prdn.	Total	Desp.	Coll. Con	Total		Op.St.	Prdn.	Total	Desp.	Coll. Con	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
2006-07	0.343	25.514	25.857	25.264	0.009	25.273	0.460	34.001	405.318	439.319	394.483	0.982	395.465	43.888	34.344	430.832	465.176	419.747	0.991	420.738	34.344
2007-08	0.460	29.452	29.912	29.649	0.005	29.654	0.305	43.888	427.630	471.518	423.918	0.921	424.839	46.474	44.348	457.082	501.430	453.567	0.926	454.493	46.779
2008-09	0.305	38.577	38.649	37.901	0.000	37.901	0.590	46.474	454.413	500.887	451.271	0.845	452.116	46.727	46.779	492.990	539.769	489.172	0.845	490.017	47.317
2009-10	0.590	35.460	36.050	34.344	0.000	34.344	1.732	46.727	496.582	543.309	479.448	0.762	480.210	63.131	47.317	532.04	579.36	513.792	0.762	514.554	64.863
2010-11	1.732	34.224	35.956	33.664	0.000	33.664	0.719	63.131	498.470	561.601	489.801	0.621	490.422	71.473	64.863	532.694	597.557	523.465	0.621	524.086	72.192
2011-12	0.719	43.706	44.425	43.099	0.002	43.101	1.436	71.473	496.244	567.717	492.200	0.580	492.780	72.604	72.192	539.950	612.142	535.299	0.582	535.881	74.040
2012-13	1.436	45.280	46.716	44.865	0.001	44.866	1.834	72.604	511.122	583.726	522.271	0.467	522.738	61.215	74.040	556.402	630.442	567.136	0.468	567.604	63.049
2013-14	1.834	39.484	41.318	39.871	0.000	39.871	1.224	61.215	526.281	587.496	532.189	0.425	532.614	54.290	63.049	565.765	628.814	572.060	0.425	572.485	55.514
2014-15	1.224	52.722	53.946	52.570	0.000	52.570	0.475	54.290	556.457	610.747	551.202	0.576	551.778	58.914	55.514	609.179	664.693	603.772	0.576	604.348	59.389
2015-16	0.475	31.101	31.576	30.553	0.000	30.553	0.704	58.914	608.129	667.043	601.889	0.336	602.225	64.657	59.389	639.230	698.619	632.442	0.336	632.778	65.361

TABLE 4.24: AVAILABILITY AND OFF-TAKE OF INDIAN RAW COAL BY COMPANIES DURING 2014-15 & 2015-16

(Quantity in Million Tonnes)

Company	2014-15							2015-16						
	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	58.168	494.234	552.402	488.860	0.512	489.372	53.491	53.491	538.754	592.245	534.083	0.300	534.383	57.683
SCCL	3.020	52.536	55.556	52.662	0.063	52.725	5.348	5.348	60.380	65.728	58.687	0.035	58.722	7.025
JKML	0.005	0.013	0.018	0.013		0.013	0.013	0.013	0.013	0.026	0.012		0.012	0.013
JSMDCL	0.000	0.415	0	0.408		0	0.007	0.007	0.190	0	0.197		0	0.000
DVC	0.011	0.066	0.077	0.055		0.055	0.030	0.030	0.403	0.433	0.392		0.392	0.041
IISCO	0.008	0.626	0.634	0.619		0.619	0.013	0.013	0.727	0.740	0.725		0.725	0.014
SAIL	0.006	0.025	0.031	0.025		0.025	0.000	0.000	0.000	0.000	0.000		0.000	0.000
RRVUNL	0.000	3.443	3.443	3.443		3.443	0.000	0.000	6.210	6.210	6.210		6.210	0.000
DVC EMTA	0.009	1.001	1.010	1.006		1.006	0.000							
APMDTCL	0.022	0.000	0.022	0.000		0.000	0.000							
WBPDCCL	0.039	6.221	6.260	6.248		6.248	0.008							
WBMDTCL	0.085	1.041	1.126	1.111		1.111	0.007							
PSEB-PANEM	0.083	3.433	3.516	3.454		3.454	0.089							
KECML		2.478	2.478	2.413		2.413	0.095							
MPSMCL		1.500	1.500	1.505		1.505	0.000							
PUBLIC	61.456	567.032	628.488	561.822	0.575	562.397	59.101	58.902	606.677	665.579	600.306	0.335	600.641	64.776
TISCO	0.014	6.043	6.057	6.061	0.001	6.062	0.012	0.012	6.228	6.240	6.233	0.001	6.234	0.007
Meghalaya		2.524	2.524	2.524		2.524	0.000	0.000	3.712	3.712	3.712		3.712	0.000
SPL	0.144	9.406	9.550	9.261		9.261	0.145	0.145	17.022	17.167	16.842		16.842	0.326
CESC								0.000	1.877	1.877	1.874		1.874	0.003
HIL	0.122	2.248	2.370	2.386		2.386	0.008	0.008	0.069	0.077	0.012		0.012	0.057
GMR								0.000	0.560	0.560	0.425		0.425	0.136
BALCO								0.000	0.120	0.120	0.079		0.079	0.041
SIL	0.020	0.196	0.216	0.196		0.196	0.009	0.009	0.165	0.174	0.163		0.163	0.011
JPVL								0.000	2.800	2.800	2.796		2.796	0.004
ICML	0.848	3.449	4.297	3.771		3.771	0.000							
JSPL	0.010	5.989	5.999	5.989		5.989	0.010							
MIEL	0.008	1.000	1.008	1.022		1.022	0.000							
BLA	0.000	0.300	0.300	0.300		0.300	0.000							
PIL	0.001	1.000	1.001	1.000		1.000	0.000							
JNL	0.025	0.703	0.728	0.777		0.777	0.002							
JPL	0.164	6.248	6.412	5.726		5.726	0.000							
ESCL	0.093	0.433	0.526	0.133		0.133	0.037							
UML	0.001	0.790	0.791	0.794		0.794	0.000							
SEML	0.084	1.189	1.273	1.266		1.266	0.054							
BSIL	0.055	0.031	0.086	0.136		0.136	0.004							
TUML-SVSL	0.001	0.198	0.199	0.208		0.208	0.007							
SOVA	0.003	0.400	0.403	0.400		0.400	0.000							
PRIVATE	1.593	42.147	43.740	41.950	0.001	41.951	0.288	0.174	32.553	32.727	32.136	0.001	32.137	0.585
INDIA	63.049	609.179	672.228	603.772	0.576	604.348	59.389	59.076	639.230	698.306	632.442	0.336	632.778	65.361

Table 4.25: COMPANYWISE AND SECTORWISE OFF-TAKE OF LIGNITE IN LAST FIVE YEARS
(Quantity in Million Tonnes)

Company	Year	Power	Steel	Cement	Fertilizer	Textiles	B & C	Paper	Brick	Chemical	Others	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
GHCL	2011-12	0.389										0.389
GIPCL	2011-12	2.716										2.716
GMDCL	2011-12	3.069		0.340		3.536		0.579	0.915	0.831	2.073	11.343
NLCL	2011-12	23.740	0.031	0.586		0.001	0.010	0.052	0.014	0.001	0.037	24.472
RSMML	2011-12	1.306	0.001	0.088	0.002	0.132			0.053	0.038	0.502	2.120
VSLPPL	2011-12	0.843										0.843
TOTAL	2011-12	32.063	0.032	1.014	0.002	3.669	0.010	0.631	0.982	0.870	2.612	41.883
GHCL	2012-13	0.283										0.283
GIPCL	2012-13	3.482										3.482
GMDCL	2012-13	3.442		0.254	0.001	3.401		0.667	0.857	0.562	1.721	10.905
NLCL	2012-13	24.836	0.049	0.668		0.003		0.027	0.009	0.018	0.081	25.691
RSMML	2012-13	0.591		0.175		0.064				0.013	0.544	1.387
VSLPPL	2012-13	0.815										0.815
BLMCL	2012-13	3.750										3.750
TOTAL	2012-13	37.199	0.049	1.097	0.001	3.468	0.000	0.694	0.866	0.593	2.346	46.313
GIPCL	2013-14	3.249										3.249
GMDCL	2013-14	2.825	0.004	0.320	0.003	0.664		1.215	0.993	0.148	2.226	8.398
GHCL	2013-14	0.190										0.190
NLCL	2013-14	24.819	0.026	0.995		0.004		0.071	0.010	0.013	0.053	25.991
RSMML	2013-14	0.612		0.174		0.065		0.004		0.002	0.571	1.428
VSLPPL	2013-14	0.839										0.839
BLMCL	2013-14	3.802										3.802
TOTAL	2013-14	36.336	0.030	1.489	0.003	0.733	0.000	1.290	1.003	0.163	2.850	43.897
GIPCL	2014-15	3.456										3.456
GMDCL	2014-15	3.126		0.318	0.005	2.841		0.557	0.658	0.326	0.882	8.713
GHCL	2014-15	0.193										0.193
NLCL	2014-15	24.494	0.023	0.755		0.001		0.093	0.013	0.007	0.055	25.441
RSMML	2014-15	0.458		0.201	0.041	0.045					0.660	1.405
VSLPPL	2014-15	0.823										0.823
BLMCL	2014-15	6.923										6.923
TOTAL	2014-15	39.473	0.023	1.274	0.046	2.887	0.000	0.650	0.671	0.333	1.597	46.954
GIPCL	2015-16	3.063										3.063
GMDCL	2015-16	3.125	0.010	0.103	0.003	1.723	1.009	0.384	0.384	0.227		6.968
GHCL	2015-16	0.104										0.104
NLCL	2015-16	23.594	0.002	0.035		0.001	0.011	0.043	0.008		0.023	23.717
RSMML	2015-16	0.282		0.087		0.004					0.599	0.972
VSLPPL	2015-16	0.824										0.824
BLMCL	2015-16	6.563										6.563
TOTAL	2015-16	37.555	0.012	0.225	0.003	1.728	1.020	0.427	0.392	0.227	0.622	42.211

TABLE 4.26 : CAPTIVE BLOCK WISE DESPATCH OF RAW COAL DURING LAST TWO YEARS

(Quantity in Million Tonnes)

Block	Company	State	2014-15			2015-16		
			Coking Coal	Non Coking Coal	Total Coal	Coking Coal	Non Coking Coal	Total Coal
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
SECL(GP-IV/2&3)	SECL	Chhattisgarh					2.152	2.152
Parsa East & Kanta Basan	RRVUNL	Chhattisgarh		3.443	3.443		6.210	6.210
Tasra	SAIL/IISCO	Jharkhand	0.024	0.001	0.025			0.000
Namchik Namphuk	APMDTCL	Arunachal Pradesh			0.000			
Panchwara North	WBPDC	Jharkhand		4.007	4.007			
Pachwara Central	PSEB-PANEM	Jharkhand		3.454	3.454			
Amelia North	MPSMCL	Madhya Pradesh		1.505	1.505			
Baranj I-IV, Kiloni, Manora Deep	KECML	Maharashtra		2.413	2.413			
Barjora North	DVCEMTA	West Bengal		1.006	1.006			
Trans Damodar	WBMDTCL	West Bengal		1.111	1.111			
Tara East & West	WBPDC	West Bengal		1.818	1.818			
Barjore	WBPDC	West Bengal		0.214	0.214			
Gangaramchak & Bhadulia	WBPDC	West Bengal		0.209	0.209			
Total Public			0.024	19.181	19.205	0.000	8.362	8.362
Amelia North	JPVL	Madhya Pradesh					2.796	2.796
Belgaon	SIL	Maharashtra		0.196	0.196		0.163	0.163
Chotia	BALCO	Chhattisgarh					0.079	0.079
Gare Palma IV/4 & 5	HIL	Chhattisgarh					0.012	0.012
Moher & Moher Amlori Extn	SPL	Madhya Pradesh		9.261	9.261		16.842	16.842
Sarshatali	CESC	West Bengal					1.874	1.874
Talabira-I	GMR	Odisha					0.425	0.425
Chotia	PIL	Chhattisgarh		1.000	1.000			
Gare Palma IV/1	JSPL	Chhattisgarh		5.989	5.989			
Gare Palma IV/2&3	JPL	Chhattisgarh		5.726	5.726			
Gare Palma IV/4	JNL	Chhattisgarh		0.777	0.777			
Gare Palma IV/5	MIEL	Chhattisgarh		1.022	1.022			
Gare Palma IV/7	SEML	Chhattisgarh		1.266	1.266			
Kathautia	UML	Jharkhand		0.794	0.794			
Parbatpur Central	ESCL	Jharkhand	0.112	0.021	0.133			
Gotitoria East & West	BLA	Madhya Pradesh		0.300	0.300			
Marki Mangli I	BSIL	Maharashtra		0.136	0.136			
Marki Mangli II-III	TUML-SVSL	Maharashtra		0.208	0.208			
Talabira I	HIL	Odisha		2.386	2.386			
Ardhagram	SOVA	West Bengal		0.400	0.400			
Sarshatali	ICML	West Bengal		3.771	3.771			
Total Private			0.112	33.253	33.365	0.000	22.191	22.191
Grand Total			0.136	52.434	52.570	0.000	30.553	30.553

TABLE 4.27 : BALANCE SHEET OF AVAILABILITY AND SUPPLY OF RAW COAL & LIGNITE DURING 2014-15 & 2015-16
(Quantity in Million Tonnes)

Availability (within India)	2014-15	2015-16	Supply (within India)	2014-15				2015-16			
				Raw Coal	Lignite	Imported Coal	Total	Raw Coal	Lignite	Imported Coal	Total
(A) Production			Sectors								
Coking Coal	57.446	60.887									
Non-coking Coal	551.733	578.343									
Lignite	48.270	43.842	Steel & Washery	12.522	0.023	43.715	56.260	12.273	0.012	44.561	56.846
Total	657.449	683.072	Power (Utility+Captive)	497.701	39.473	N.A.	537.174	517.769	37.555	N.A.	555.324
(B) Change of Vendible Stock (Closing - Opening)			Cement	11.357	1.274	N.A.	12.631	8.985	0.225	N.A.	9.210
Coking Coal	0.552	1.760	Textile	0.415	2.887		3.302	0.267	1.728		1.995
Non-coking Coal	3.323	4.212	Sponge Iron	17.766			17.766	7.763			7.763
Lignite	1.316	1.633	Fertilizer & Chem.	2.293	0.379		2.672	2.736	0.003		2.739
Total Change (Cl - Op)	5.191	7.605	Paper	1.648	0.650		2.298	1.211	0.427		1.638
(C) Import			Brick	0.091	0.671		0.762	0.074	0.392		0.466
Coking Coal	43.715	44.561	Others	59.979	1.597	174.068	235.644	81.364	1.869	159.388	242.621
Non-coking Coal	174.068	159.388	Colliery Consmn.	0.576			0.576	0.336			0.336
Total Raw Coal	217.783	203.949	Total Off-take	604.348	46.954	217.783	869.085	632.778	42.211	203.949	878.938
(D) Export	1.238	1.575									
			Statistical Difference				-0.283				-1.097
(E) Total Availability	868.802	877.841	Total Supply				868.802				877.841

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 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. Pit head closing stock as on 31-03-2016 of coal and lignite was 65.361 MT and 4.809 MT respectively. The closing stock of coal and lignite increased over the last year. Statement 5.1 shows the pit head closing stock at the end of 2014-15 and 2015-16.

Statement 5.1 Pit Head Closing Stock (MT) of Coal and Lignite in India at the end of 2014-15 and 2015-16		
Types of Fossil Fuel	Year	
	2014-15	2015-16
Coal		
Metallurgical	1.174	1.562
Non-metallurgical	5.790	7.162
Total Coking Coal	6.964	8.724
Non-coking	52.425	56.637
Total Raw Coal	59.389	65.361
Lignite	3.176	4.809

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

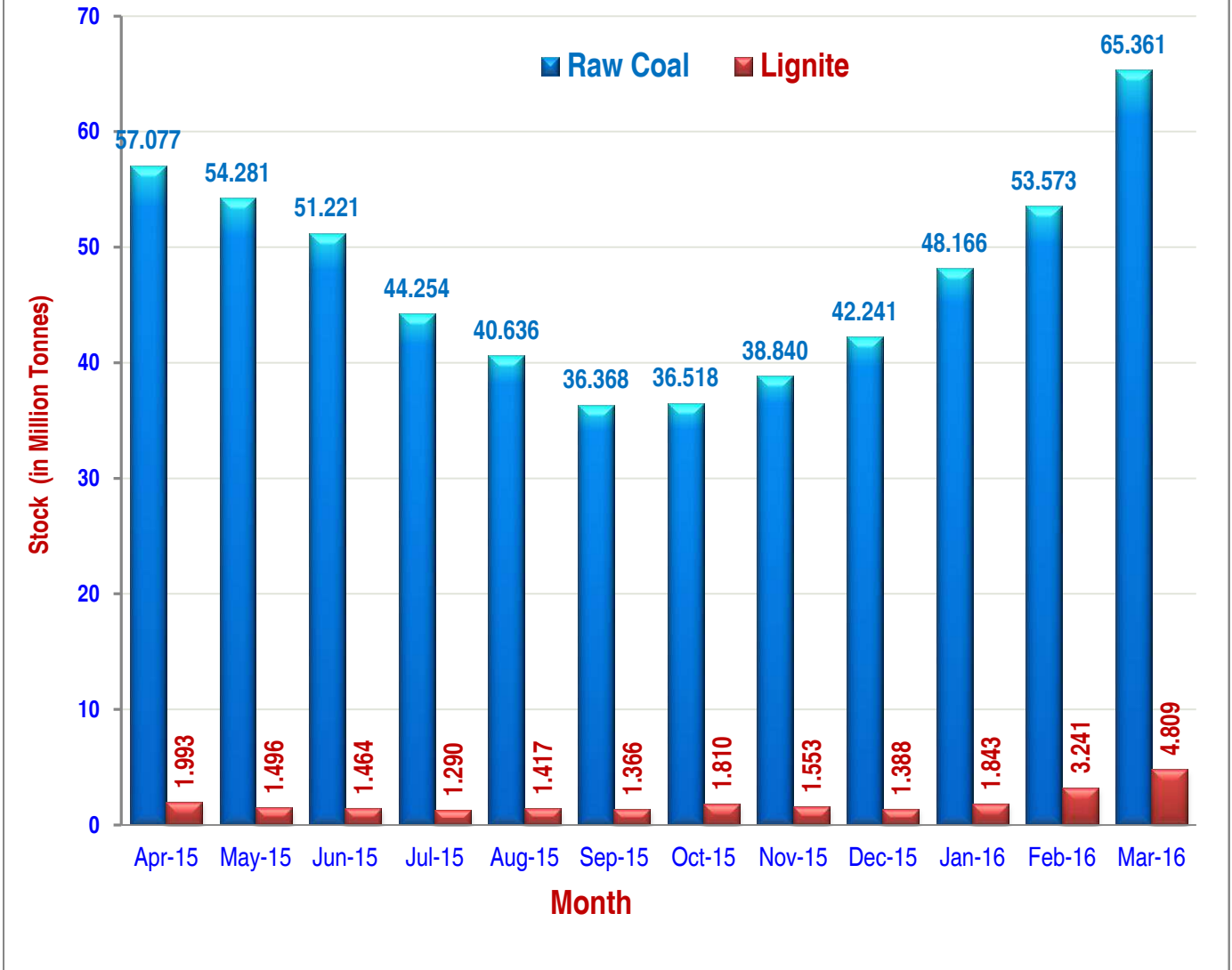
Statement 5.2 Pit Head Closing Stock (MT) of Coal and Lignite in India in last ten years.		
Year	Pit Head Closing Stock (MT)	
	Raw Coal	Lignite
2006-07	44.348	1.002
2007-08	46.779	0.328
2008-09	54.850	0.903
2009-10	64.863	0.565
2010-11	72.192	0.610
2011-12	74.040	1.051
2012-13	63.049	1.493
2013-14	55.514	1.860
2014-15	59.389	3.176
2015-16	65.361	4.809

It may be seen that in case of coal, the pit head closing stock has been increasing over the years till 2011-12 whereas in 2012-13 and 2013-14 it decreased. Again in 2014-15 and 2015-16 it increased. From 59.389 MT in 2014-15, closing stock of coal increased to 65.361 Mt in 2015-16. In case of lignite the trend fluctuating. However, from 1.051 MT in 2011-12 stock of lignite increased to 4.809 MT in 2015-16.

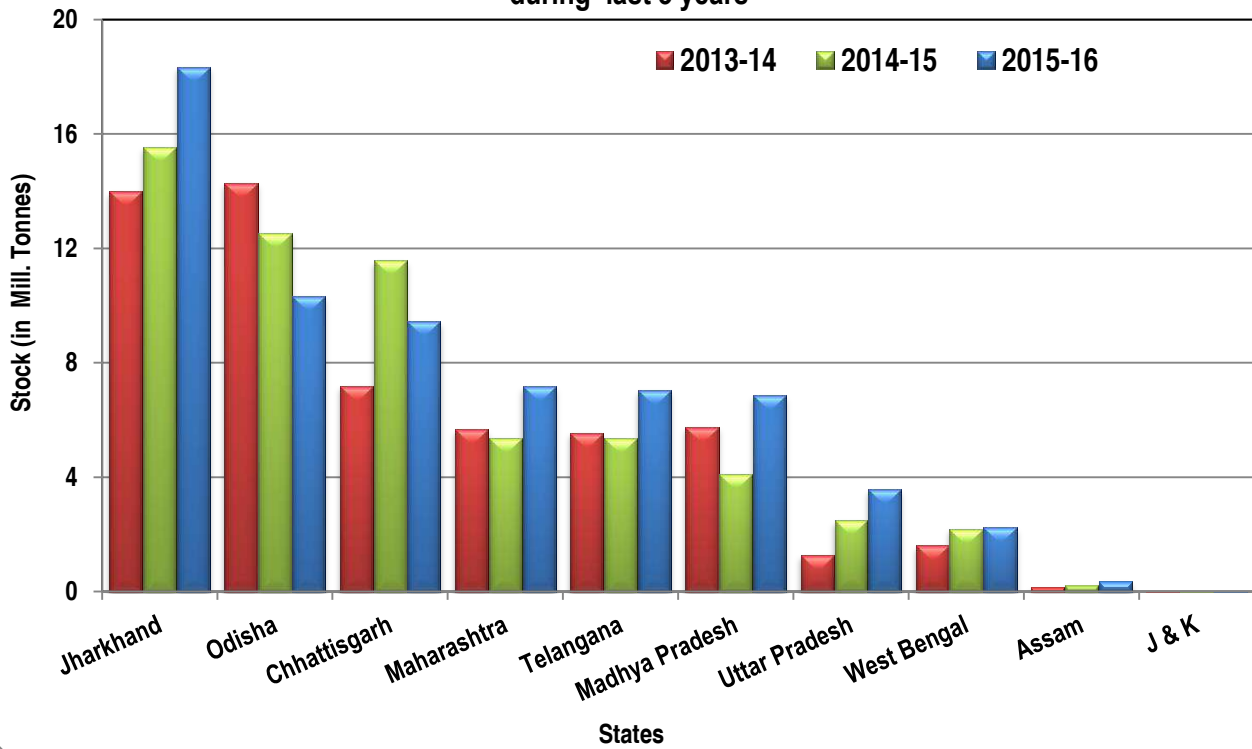
Statement 5.3 shows pit head closing stock of coal by companies during the period 2014-15 and 2015-16. The details on this aspect have been provided in tables attached with the section.

Statement 5.3: Company wise Pit Head Closing Stock (MT) of Coal and Lignite in India at the end of 2014-15 and 2015-16		
Company	Year	
	2014-15	2015-16
COAL		
ECL	3.451	5.055
BCCL	4.362	4.016
CCL	9.718	11.460
NCL	4.898	6.590
WCL	5.501	8.007
SECL	12.816	12.002
MCL	12.530	10.194
NEC	0.215	0.359
CIL	53.491	57.683
SCCL	5.348	7.025
OTHER PUBLIC	0.262	0.068
PUBLIC	59.101	64.776
PRIVATE	0.288	0.585
TOTAL	59.389	65.361
Lignite		
NLC	2.842	4.573
GMDCL	0	0
GIPCL	0	0
GHCL	0.023	0.011
VSLPL	0.233	0.031
BLMCL	0.078	0.194
TOTAL	3.176	4.809

Ch. 5.1 : Monthly Pit Head Closing Stock of Raw Coal & Lignite



Ch. 5.2: Statewise Pit Head Closing Stock of Raw Coal during last 3 years



Ch. 5.3: Companywise Pit Head Closing Stock of Raw Coal during last 3 years

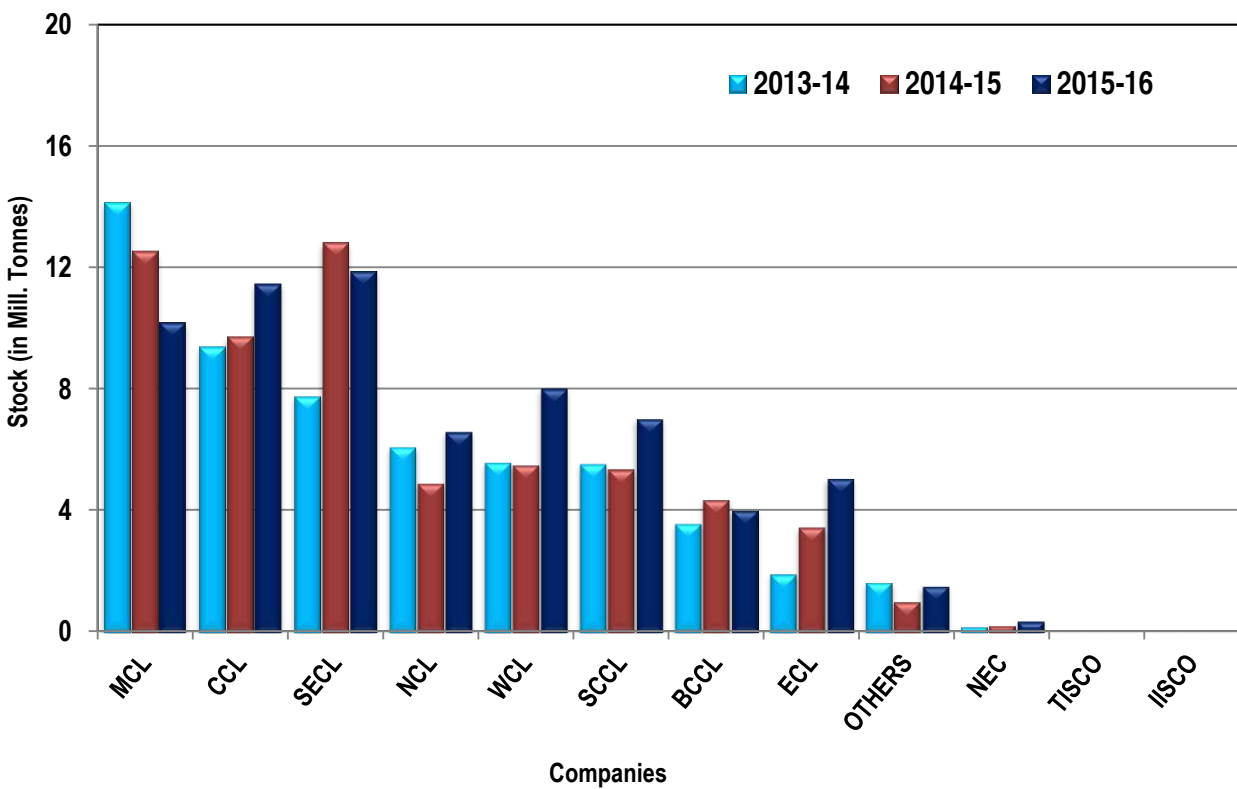


TABLE-5.1. TRENDS OF PIT-HEAD CLOSING STOCK OF DIFFERENT SOLID FOSSIL FUELS IN LAST TEN YEARS
(Quantity in Million Tonnes)

Year	Raw coal			Lignite			Total solid fossil fuel	
	Pit-head Closing Stock	Share in total solid fossil fuel (%)	Change over previous year (%)	Pit-head Closing Stock	Share in total solid fossil fuel (%)	Change over previous year (%)	Pit-head Closing Stock	Change over previous year (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2006-07	44.348	97.79	29.17	1.002	2.21	90.86	45.350	30.10
2007-08	46.779	99.30	5.48	0.328	0.70	-67.27	47.107	3.87
2008-09	47.317	98.13	1.15	0.903	1.87	175.30	48.220	2.36
2009-10	64.863	99.14	37.08	0.565	0.86	-37.43	65.428	35.69
2010-11	72.192	99.16	11.30	0.610	0.84	7.96	72.802	11.27
2011-12	74.040	98.60	2.56	1.051	1.40	72.30	75.091	3.14
2012-13	63.049	97.69	-14.84	1.493	2.31	42.06	64.542	-14.05
2013-14	55.514	96.76	-11.95	1.860	3.24	24.58	57.374	-11.11
2014-15	59.389	94.92	6.98	3.176	5.08	70.75	62.565	9.05
2015-16	65.361	93.15	10.06	4.809	6.85	51.42	70.170	12.16

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

(Quantity in Million Tonnes)

Year	Coking Coal									Non Coking Coal			Raw Coal	
	Metallurgical Coal			Non Metallurgical Coal			Total Coking Coal			Pit-head Closing Stock	Share in 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)
2006-07	3.086	58.0	8.9	2.235	42.0	8.9	5.321	12.0	8.9	39.027	88.0	32.5	44.348	29.2
2007-08	3.993	58.0	29.4	2.892	42.0	29.4	6.885	14.7	29.4	39.894	85.3	2.2	46.779	5.5
2008-09	4.065	61.3	1.8	2.565	38.7	-11.3	6.630	12.1	-3.7	48.220	87.9	20.9	54.850	17.3
2009-10	1.927	17.1	-52.6	9.337	82.9	264.0	11.264	17.4	69.9	53.599	82.6	11.2	64.863	18.3
2010-11	1.715	13.4	-11.0	11.038	86.6	18.2	12.753	17.7	13.2	59.439	82.3	10.9	72.192	11.3
2011-12	2.340	21.0	36.4	8.792	79.0	-20.3	11.132	15.0	-12.7	62.908	85.0	5.8	74.040	2.6
2012-13	1.480	18.4	-36.8	6.556	81.6	-25.4	8.036	12.7	-27.8	55.013	87.3	-12.6	63.049	-14.8
2013-14	1.139	17.8	-23.0	5.273	82.2	-19.6	6.412	11.6	-20.2	49.102	88.4	-10.7	55.514	-12.0
2014-15	1.174	16.9	3.1	5.790	83.1	9.8	6.964	11.7	8.6	52.425	88.3	6.8	59.389	7.0
2015-16	1.562	17.9	33.0	7.162	82.1	23.7	8.724	13.3	25.3	56.637	86.7	8.0	65.361	10.1

TABLE-5.3 : MONTHLY PIT-HEAD CLOSING STOCK OF COAL, LIGNITE AND VARIOUS COAL PRODUCTS IN 2015-16

(Quantity in Million Tonnes)

Month	Raw Coal	Lignite	Washed Coal (Coking)	Washed Coal (Non-Coking)	Middlings (Coking)	Middlings (Non-Coking)	Hard Coke
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Apr-15	57.077	1.993	0.206	0.545	0.686	0	0.050
May-15	54.281	1.496	0.199	0.558	0.633	0	0.073
Jun-15	51.221	1.464	0.268	0.785	0.778	0	0.063
1st Quarter	51.221	1.464	0.268	0.785	0.778	0.000	0.063
Jul-15	44.254	1.290	0.186	0.827	0.703	0	0.052
Aug-15	40.636	1.417	0.181	0.936	0.626	0	0.074
Sep-15	36.368	1.366	0.252	0.788	0.410	0	0.046
2nd Quarter	36.368	1.366	0.252	0.788	0.410	0.000	0.046
Oct-15	36.518	1.810	0.257	0.910	0.494	0	0.067
Nov-15	38.840	1.553	0.188	0.729	0.571	0	0.071
Dec-15	42.241	1.388	0.254	0.913	0.574	0	0.100
3rd Quarter	42.241	1.388	0.254	0.913	0.574	0.000	0.100
Jan-16	48.166	1.843	0.225	1.051	0.513	0	0.151
Feb-16	53.573	3.241	0.250	1.018	0.563	0	0.147
Mar-16	65.361	4.809	0.222	0.995	0.542	0	0.125
4th Quarter	65.361	4.809	0.222	0.995	0.542	0.000	0.125

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

(Quantity in Million Tonnes)

Year	State: Arunachal Pradesh			State: Assam			State: Chhattisgarh		
	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2006-07				0.182	0.41	-42.41	7.066	15.93	53.98
2007-08	0.010	0.02	0.00	0.079	0.17	-56.59	6.012	12.85	-14.92
2008-09	0.022	0.05	120.00	0.252	0.53	218.99	4.303	9.09	-28.43
2009-10	0.049	0.08	122.73	0.294	0.45	16.67	7.015	10.82	63.03
2010-11	0.104	0.14	112.24	0.293	0.41	-0.34	9.731	13.48	38.72
2011-12	0.004	0.01	-96.15	0.095	0.13	-67.58	8.732	11.79	-10.27
2012-13	0.022	0.03	450.00	0.082	0.13	-13.68	5.639	8.94	-35.42
2013-14	0.000	0.00	-100.00	0.169	0.30	106.10	7.186	12.94	27.43
2014-15	0.000	0.00	0.00	0.215	0.36	27.22	11.576	19.49	61.09
2015-16	0.000	0.00	1.00	0.359	0.55	66.98	9.444	14.45	-18.42

Year	State: Jammu & Kashmir			State: Jharkhand			State: Madhya Pradesh		
	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)
(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2006-07	0.001	0.00	0.00	19.027	42.90	27.61	2.119	4.78	-3.42
2007-08	0.003	0.01	200.00	20.557	43.94	8.04	2.010	4.30	-5.14
2008-09	0.002	0.00	-33.33	19.171	40.52	-6.74	1.615	3.41	-19.65
2009-10	0.008	0.01	300.00	24.933	38.44	30.06	2.498	3.85	54.67
2010-11	0.004	0.01	-50.00	27.128	37.58	8.80	4.391	6.08	75.78
2011-12	0.003	0.00	-25.00	24.684	33.34	-9.01	6.265	8.46	42.68
2012-13	0.005	0.01	66.67	17.796	28.23	-27.90	7.318	11.61	16.81
2013-14	0.013	0.02	160.00	13.987	25.20	-21.40	5.756	10.37	-21.34
2014-15	0.013	0.02	0.00	15.544	26.17	11.13	4.111	6.92	-28.58
2015-16	0.013	0.02	0.00	18.355	28.08	18.08	6.854	10.49	66.72

Year	State: Maharashtra			State: Odisha			State:Telangana		
	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)
(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
2006-07	3.914	8.83	21.82	8.023	18.09	80.13	1.485	3.35	4.65
2007-08	2.924	6.25	-25.29	12.357	26.42	54.02	0.143	0.31	-90.37
2008-09	2.386	5.04	-18.40	17.474	36.93	41.41	0.152	0.32	6.29
2009-10	2.701	4.16	13.20	23.409	36.09	33.96	1.224	1.89	705.26
2010-11	3.793	5.25	40.43	21.611	29.94	-7.68	2.413	3.34	97.14
2011-12	4.841	6.54	27.63	22.261	30.07	3.01	3.038	4.10	25.90
2012-13	5.656	8.97	16.84	18.175	28.83	-18.35	3.020	4.79	-0.59
2013-14	5.670	10.21	0.25	14.293	25.75	-21.36	5.548	9.99	83.71
2014-15	5.370	9.04	-5.29	12.538	21.11	-12.28	5.348	9.01	-3.60
2015-16	7.170	10.97	33.52	10.330	15.80	-17.61	7.025	10.75	31.36

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

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

(Quantity in Million Tonnes)

Year	State: Uttar Pradesh			State: West Bengal			ALL INDIA	
	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)	Quantity	Growth (%)
(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)
2006-07	0.490	1.10	-25.30	2.041	4.60	-20.98	44.348	48.42
2007-08	0.702	1.50	43.27	1.982	4.24	-2.89	46.779	5.48
2008-09	0.283	0.60	-59.69	1.657	3.50	-16.40	47.317	1.15
2009-10	0.664	1.02	134.63	2.068	3.19	24.80	64.863	37.08
2010-11	0.798	1.11	20.18	1.926	2.67	-6.87	72.192	11.30
2011-12	1.509	2.04	89.10	2.608	3.52	35.41	74.040	2.56
2011-13	3.224	5.11	113.65	2.112	3.35	-19.02	63.049	-14.84
2013-14	1.274	2.29	-60.48	1.618	2.91	-23.39	55.514	-11.95
2014-15	2.484	4.18	94.98	2.190	3.69	35.35	59.389	6.98
2015-16	3.570	5.46	43.72	2.241	3.43	2.33	65.361	10.06

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

(Quantity in Million Tonnes)

Year	State: Tamil Nadu			State: Gujrat			State: Rajasthan		
	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2006-07	0.973	97.11	108.80	0.029	2.89	-40.82			
2007-08	0.302	92.07	-68.96	0.026	7.93	-10.34			
2008-09	0.862	95.46	185.43	0.041	4.54	57.69			
2009-10	0.410	72.57	-52.44	0.155	27.43	278.05			
2010-11	0.471	77.21	14.88	0.139	22.79	-10.32			
2011-12	0.589	56.04	25.05	0.462	43.96	232.37			
2012-13	1.121	75.08	90.32	0.320	21.43	-30.74	0.052	3.48	0.00
2013-14	1.739	93.49	55.13	0.069	3.71	-78.44	0.052	2.80	0.00
2014-15	2.842	73.29	63.43	0.023	0.59	-66.67	1.013	26.12	1848.08
2015-16	4.573	95.09	60.91	0.011	0.23	-52.17	0.225	4.68	-77.79

Year	ALL INDIA	
	Quantity	Growth (%)
(11)	(12)	(13)
2006-07	1.002	94.56
2007-08	0.328	-67.27
2008-09	0.903	175.30
2009-10	0.565	-37.43
2010-11	0.610	7.96
2011-12	1.051	72.30
2012-13	1.493	42.06
2013-14	1.860	24.58
2014-15	3.878	108.49
2015-16	4.809	24.01

TABLE-5.6 : TRENDS OF PIT-HEAD CLOSING STOCK OF RAW COAL AND LIGNITE BY COMPANIES IN LAST THREE YEARS
(Quantity in Million Tonnes)

Company	2013-14		2014-15		2015-16	
	Quantity	% of All India	Quantity	% of All India	Quantity	% of All India
(1)	(2)	(3)	(4)	(5)	(6)	(7)
COAL :						
ECL	1.913	3.45	3.451	5.81	5.055	7.73
BCCL	3.576	6.44	4.362	7.34	4.016	6.14
CCL	9.405	16.94	9.718	16.36	11.460	17.53
NCL	6.107	11.00	4.898	8.25	6.590	10.08
WCL	5.600	10.09	5.501	9.26	8.007	12.25
SECL	7.764	13.99	12.816	21.58	11.876	18.17
SECL(GP-IV/2&3)					0.126	0.19
MCL	14.149	25.49	12.530	21.10	10.194	15.60
NEC	0.169	0.30	0.215	0.36	0.359	0.55
CIL	48.683	87.69	53.491	90.07	57.683	88.25
SCCL	5.548	9.99	5.348	9.01	7.025	10.75
JKML	0.013	0.02	0.013	0.02	0.013	0.02
JSMDCL	0.000	0.00	0.007	0.01	0.000	0.00
DVC	0.020	0.04	0.030	0.05	0.041	0.06
IISCO	0.009	0.02	0.013	0.02	0.014	0.02
SAIL	0.000	0.00	0.000	0.00	0.000	0.00
RRVUNL					0.000	0.00
DVC EMTA	0.005	0.01	0.000	0.00		
APMDTCL	0.000	0.00	0.000	0.00		
WBPDCCL	0.034	0.06	0.008	0.01		
PSEB-PANEM	0.110	0.20	0.089	0.15		
KECML	0.030	0.05	0.095	0.16		
WBMDTCL	0.077	0.14	0.007	0.01		
MPSMCL	0.005	0.01	0.000	0.00		
PUBLIC	54.534	98.23	59.101	99.52	64.776	99.10
TISCO	0.017	0.03	0.012	0.02	0.007	0.01
Meghalaya	0.000	0.00	0.000	0.00	0.000	0.00
HIL	0.144	0.26	0.008	0.01	0.057	0.09
SIL	0.009	0.02	0.009	0.02	0.011	0.02
SPL	0.000	0.00	0.145	0.24	0.326	0.50
GMR					0.136	0.21
BALCO					0.041	0.06
CESC					0.003	0.00
JPVL					0.004	0.01
ICML	0.278	0.50	0.000	0.00		
JSPL	0.010	0.02	0.010	0.02		
MIEL	0.022	0.04	0.000	0.00		
BLA	0.000	0.00	0.000	0.00		
PIL	0.001	0.00	0.000	0.00		
JNL	0.076	0.14	0.002	0.00		
JPL	0.005	0.01	0.000	0.00		
ESCL	0.157	0.28	0.037	0.06		
UML	0.004	0.01	0.000	0.00		
SEML	0.131	0.24	0.054	0.09		
BSIL	0.109	0.20	0.004	0.01		
TUML/SVSL	0.017	0.03	0.007	0.01		
SOVA	0.000	0.00	0.000	0.00		
PRIVATE	0.980	1.77	0.288	0.48	0.585	0.90
ALL INDIA	55.514	100.00	59.389	100.00	65.361	100.00
LIGNITE :						
NLC	1.739	93.49	2.842	89.48	4.573	95.09
GMDCL					0.000	
GIPCL	0.053	2.85			0.000	
GHCL	0.016	0.86	0.023	0.72	0.011	0.23
RSMML					0.000	
VSLPPL	0.051		0.233		0.031	
BLMCL	0.001	0.05	0.078	2.46	0.194	4.03
ALL INDIA	1.860	97.26	3.176	92.66	4.809	99.36
COAL & LIGNITE	57.374		62.565		70.170	

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

(Quantity in Million Tonnes)

STATES	COAL COMPANY	2013-2014			2014-2015			2015-2016		
		Coking	N-Coking	Total	Coking	N-Coking	Total	Coking	N-Coking	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Arunachal Pradesh	APMDTCL		0.000	0.000			0.000			
Assam	NEC		0.169	0.169		0.215	0.215		0.359	0.359
Chhattisgarh	SECL	0.005	6.936	6.941	0.009	11.501	11.510	0.036	9.184	9.220
Chhattisgarh	SECL(GP-IV/2&3)								0.126	0.126
Chhattisgarh	MIEL		0.022	0.022			0.000			
Chhattisgarh	JSPL		0.010	0.010		0.010	0.010			
Chhattisgarh	PIL		0.001	0.001			0.000			
Chhattisgarh	BALCO								0.041	0.041
Chhattisgarh	JNL		0.076	0.076		0.002	0.002			
Chhattisgarh	JPL		0.005	0.005			0.000			
Chhattisgarh	HIL								0.057	0.057
Chhattisgarh	SEML		0.131	0.131		0.054	0.054			
Chhattisgarh	RRVUNL			0.000			0.000			0.000
Chhattisgarh	TOTAL	0.005	7.181	7.186	0.009	11.567	11.576	0.036	9.408	9.444
Jammu & Kashmir	JKML		0.013	0.013		0.013	0.013		0.013	0.013
Jharkhand	ECL	0.006	1.095	1.101	0.006	1.812	1.818	0.002	3.388	3.390
Jharkhand	BCCL	2.536	0.621	3.157	3.102	0.724	3.826	2.869	0.588	3.457
Jharkhand	CCL	3.486	5.919	9.405	3.452	6.266	9.718	5.604	5.856	11.460
Jharkhand	JSMDCL			0.000			0.007			0.000
Jharkhand	DVC		0.020	0.020		0.030	0.030	0.041		0.041
Jharkhand	IISCO	0.003		0.003			0.000			0.000
Jharkhand	TISCO	0.017		0.017	0.007	0.005	0.012	0.007		0.007
Jharkhand	PSWB/PANEM		0.110	0.110		0.089	0.089			
Jharkhand	WBPDC		0.013	0.013		0.007	0.007			
Jharkhand	UML		0.004	0.004			0.000			
Jharkhand	ESCL	0.090	0.067	0.157	0.011	0.026	0.037			
Jharkhand	SAIL			0.000			0.000			0.000
Jharkhand	TOTAL	6.138	7.849	13.987	6.578	8.966	15.544	8.523	9.832	18.355
Madhya Pradesh	NCL		4.833	4.833		2.414	2.414		3.020	3.020
Madhya Pradesh	WCL	0.008	0.087	0.095	0.085	0.161	0.246	0.094	0.754	0.848
Madhya Pradesh	SECL		0.823	0.823		1.306	1.306		2.656	2.656
Madhya Pradesh	BLA			0.000			0.000			0.000
Madhya Pradesh	SPL			0.000		0.145	0.145		0.326	0.326
Madhya Pradesh	JPVL		0.005	0.005			0.000		0.004	0.004
Madhya Pradesh	TOTAL	0.008	5.748	5.756	0.085	4.026	4.111	0.094	6.760	6.854
Maharashtra	WCL		5.505	5.505		5.255	5.255		7.159	7.159
Maharashtra	SIL		0.009	0.009		0.009	0.009		0.011	0.011
Maharashtra	KECML		0.030	0.030		0.095	0.095			
Maharashtra	BSIL		0.109	0.109		0.004	0.004			
Maharashtra	TUML/SVSL		0.017	0.017		0.007	0.007			
Maharashtra	TOTAL	0.000	5.670	5.670	0.000	5.370	5.370	0.000	7.170	7.170
Meghalaya	PRIVATE			0.000			0.000			0.000
Odisha	MCL		14.149	14.149		12.530	12.530		10.194	10.194
Odisha	GMR								0.136	0.136
Odisha	HIL		0.144	0.144		0.008	0.008			
Odisha	TOTAL		14.293	14.293		12.538	12.538		10.330	10.330
Telangana	SCCL		5.548	5.548		5.348	5.348		7.025	7.025
Uttar Pradesh	NCL		1.274	1.274		2.484	2.484		3.570	3.570
West Bengal	ECL	0.013	0.799	0.812	0.010	1.623	1.633	0.010	1.655	1.665
West Bengal	BCCL	0.248	0.171	0.419	0.282	0.254	0.536	0.061	0.498	0.559
West Bengal	IISCO		0.006	0.006		0.013	0.013		0.014	0.014
West Bengal	WBPDC		0.021	0.021		0.001	0.001			
West Bengal	ICML		0.278	0.278			0.000			
West Bengal	CESC								0.003	0.003
West Bengal	DVC EMTA		0.005	0.005			0.000			
West Bengal	WBMDTCL		0.077	0.077		0.007	0.007			
West Bengal	SOVA		0.000	0.000			0.000			
West Bengal	TOTAL	0.261	1.357	1.618	0.292	1.898	2.190	0.071	2.170	2.241
Total Public		6.305	48.224	54.529	6.946	52.155	59.101	8.717	56.059	64.776
Total Private		0.107	0.878	0.985	0.018	0.270	0.288	0.007	0.578	0.585
All India		6.412	49.102	55.514	6.964	52.425	59.389	8.724	56.637	65.361

TABLE - 5.8 : CAPTIVE BLOCK WISE CLOSING STOCK OF RAW COAL DURING LAST TWO YEARS

(Quantity in Million Tonnes)

Block	Company	State	2014-15			2015-16		
			Coking Coal	Non Coking Coal	Total Coal	Coking Coal	Non Coking Coal	Total Coal
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Gare Palma IV/2&3	SECL(GP-IV/2&3)	Chhattisgarh					0.126	0.126
Parsa East & Kanta Basan	RRUVNL	Chhattisgarh					0.000	0.000
Tasra	SAIL/IISCO	Jharkhand					0.000	0.000
Amelia North	MPSMCL	Madhya Pradesh			0.000			
Baranj I-IV, Kiloni, Manora Deep	KECML	Maharashtra		0.095	0.095			
Barjora North	DVCEMTA	West Bengal			0.000			
Barjore	WBPDCCL	West Bengal		0.001	0.001			
Gangaramchak & Bhadulia	WBPDCCL	West Bengal			0.000			
Namchik Namphuk	APMDTCL	Arunachal Pradesh			0.000			
Panchwara North	WBPDCCL	Jharkhand		0.007	0.007			
Panchwara North	PSEB-PANEM	Jharkhand		0.089	0.089			
Tara East & West	WBPDCCL	West Bengal			0.000			
Trans Damodar	WBMDTCL	West Bengal			0.000			
Total Public			0.000	0.192	0.192	0.000	0.126	0.126
Belgaon	SIL	Maharashtra		0.009	0.009		0.011	0.011
Chotia	BALCO	Chhattisgarh					0.041	0.041
Gare Palma IV/4 & 5	HIL	Chhattisgarh					0.057	0.057
Moher & Moher Amlori Extn	SPL	Madhya Pradesh		0.145	0.145		0.326	0.326
Sarshatali	CESC	West Bengal					0.003	0.003
Amelia North	JPVL	Madhya Pradesh					0.004	0.004
Talabira I	GMR	Odisha					0.136	0.136
Ardhagram	SOVA	West Bengal			0.000			
Chotia	PIL	Chhattisgarh			0.000			
Gare Palma IV/1	JSPL	Chhattisgarh		0.010	0.010			
Gare Palma IV/2&3	JPL	Chhattisgarh			0.000			
Gare Palma IV/4	JNL	Chhattisgarh		0.002	0.002			
Gare Palma IV/5	MIEL	Chhattisgarh			0.000			
Gare Palma IV/7	SEML	Chhattisgarh		0.054	0.054			
Gotitoria East & West	BLA	Madhya Pradesh			0.000			
Kathautia	UML	Jharkhand			0.000			
Marki Mangli I	BSIL	Maharashtra		0.004	0.004			
Marki Mangli II-III	TUML-SVSL	Maharashtra		0.007	0.007			
Parbatpur Central	ESCL	Jharkhand	0.041	0.066	0.107			
Sarshatali	ICML	West Bengal			0.000			
Talabira I	HIL	Odisha		0.009	0.009			
Total Private			0.041	0.306	0.347	0.000	0.578	0.578
Grand Total			0.041	0.498	0.539	0.000	0.704	0.704

Section VI

Pit-head Value, Price and Duty

6.1 Pit-head Value

6.1.1 Coal production in India (including lignite) in the year 2015-16 has already been discussed in Section III. In this section an attempt has been made to discuss pit-head value of coal produced, price, royalty etc. Statement 6.1 provides state wise production and value for coal and lignite for the year 2015-16.

Statement 6.1: State-wise Production (MT) and Value (Million Rs.) of Coal and Lignite for the year 2015-16		
Coal	Production	Value
Assam	0.487	1711.3
Chhattisgarh	130.605	147436.8
Jammu & Kashmir	0.013	27.6
Jharkhand	121.067	187369.9
Maharashtra	38.351	65340.3
Meghalaya	3.712	18634.2
Madhya Pradesh	107.714	132254.9
Orissa	138.461	121010.1
Telangana	60.38	122753.5
Uttar Pradesh	12.689	14028.1
West Bengal	25.751	73255.4
ALL INDIA	639.230	883822.1
Lignite		
Gujarat	10.123	14723.5
Tamilnadu	24.227	49168.0
Rajasthan	9.492	11103.3
ALL INDIA	43.842	74994.8

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

6.1.3 Table 6.2 provides data on state-wise production of coal and its values by sector for captive and non-captive separately. After adoption of GCV Band Price since 2012, pit head (run of mine) price of coking coal of Coal India Limited during 2013-14 is given in Table 6.5 and 6.6.

The price of non-coking coal of CIL after adoption of GCV Band Price since 2012 has been given in Table 6.8, 6.9 and 6.10. Price of Singareni Collieries Company Limited is given in Table 6.11.

6.2 Price and Duty

Royalty rates on Indian coal and lignite has been discussed in Table 6.12.

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

(Quantity in Million Tonnes and Value in Million Rupees)

STATES	2011-12		2012-13		2013-14		2014-15		2015-16	
	Production	Value	Production	Value	Production	Value	Production	Value	Production	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
COAL :										
Arunachal Pradesh	0.221	1464.1	0.073	483.6						
Assam	0.602	3988.0	0.605	3591.2	0.664	3392.9	0.779	3819.9	0.487	1711.3
Chhattisgarh	113.958	70740.3	117.830	90750.7	127.095	89275.0	134.764	139855.4	130.605	147436.8
Jammu & Kashmir	0.020	42.5	0.019	40.4	0.019	40.4	0.013	27.6	0.013	27.6
Jharkhand	109.566	139887.6	111.274	175665.4	113.091	240509.8	124.143	193135.1	121.067	187369.9
Maharashtra	39.159	53112.6	39.134	62356.8	37.223	57363.5	38.257	67045.4	38.351	65340.3
Meghalaya	7.206	47739.8	5.640	37365.0	5.732	37974.5	2.524	12670.5	3.712	18634.2
Madhya Pradesh	71.123	83305.5	75.948	93737.9	75.590	111792.7	87.609	111478.2	107.714	132254.9
Odisha	105.476	96399.0	110.132	47256.8	112.917	150160.6	123.627	158984.3	138.461	121010.1
Telangana	52.211	90008.1	53.190	91695.8	50.469	73998.0	52.536	109642.6	60.380	122753.5
Uttar Pradesh	16.178	34369.5	16.090	35844.2	14.721	20046.1	14.957	16186.9	12.689	14028.1
West Bengal	24.230	80662.1	26.467	108398.7	28.244	40794.0	29.970	80025.8	25.751	73255.4
ALL INDIA	539.950	701719.1	556.402	747186.6	565.765	825347.5	609.179	892871.7	639.230	883822.1
LIGNITE :										
Gujarat	14.779	15249.9	14.528	14990.9	11.588	12547.1	12.317	17914.6	10.123	14723.5
Tamilnadu	24.590	36964.7	24.844	37346.6	25.056	41992.1	25.190	51122.4	24.227	49168.0
Rajasthan	2.963	1161.8	7.081	2776.6	7.627	5136.1	10.763	12590.0	9.492	11103.3
ALL INDIA	42.332	53376.5	46.453	55114.1	44.271	59675.3	48.270	81627.0	43.842	74994.8

Note: In respect of Coal Companies which either did not provide value or the value provided is not justified, the value has been estimated on the basis of Basic Price (ROM) notified by Coal India Limited.

TABLE 6.2 : STATEWISE PRODUCTION OF COAL AND ITS VALUE - BY SECTOR & CAPTIVE / NON-CAPTIVE UNITS DURING 2015-16

(Quantity in Million Tonnes and Value in Million Rupees)

Block	Sector	Quantity / Value	Assam	Chhattisgarh	Jammu & Kashmir	Jharkhand	Maharashtra	Meghalaya	Madhya Pradesh	Odisha	Telangana	Uttar Pradesh	West Bengal	ALL INDIA	
(1)	(2)	(3)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(4)	(14)	(15)	(16)	
NON CAPTIVE	Public	Prdn.	0.487	121.928	0.013	114.839	38.186		87.892	137.901	60.380	12.689	23.874	598.189	
		Value	1711.3	141204.0	27.6	174260.7	65059.2		115623.2	120582.1	122753.5	14028.1	72111.7	827361.4	
	Private	Prdn.				6.228			3.712						9.940
		Value				13109.2			18634.2						31743.4
	TOTAL	Prdn.	0.487	121.928	0.013	121.067	38.186		3.712	87.892	137.901	60.380	12.689	23.874	608.129
		Value	1711.3	141204.0	27.6	187369.9	65059.2		18634.2	115623.2	120582.1	122753.5	14028.1	72111.7	859104.8
CAPTIVE	Public	Prdn.		8.488										8.488	
		Value		5959.0											5959.0
	Private	Prdn.		0.189			0.165		19.822	0.560			1.877	22.613	
		Value		273.8			281.1		16631.7	428.0			1143.7	18758.4	
	TOTAL	Prdn.	0.000	8.677	0.000	0.000	0.165	0.000	19.822	0.560	0.000	0.000	1.877	31.101	
		Value	0.0	6232.8	0.0	0.0	281.1	0.0	16631.7	428.0	0.0	0.0	1143.7	24717.4	
TOTAL	Public	Prdn.	0.487	130.416	0.013	114.839	38.186	0.000	87.892	137.901	60.380	12.689	23.874	606.677	
		Value	1711.3	147163.0	27.6	174260.7	65059.2	0.0	115623.2	120582.1	122753.5	14028.1	72111.7	833320.4	
	Private	Prdn.	0.000	0.189	0.000	6.228	0.165	3.712	19.822	0.560	0.000	0.000	1.877	32.553	
		Value	0.0	273.8	0.0	13109.2	281.1	18634.2	16631.7	428.0	0.0	0.0	1143.7	50501.8	
	Total	Prdn.	0.487	130.605	0.013	121.067	38.351	3.712	107.714	138.461	60.380	12.689	25.751	639.230	
		Value	1711.3	147436.8	27.6	187369.9	65340.3	18634.2	132254.9	121010.1	122753.5	14028.1	73255.4	883822.1	

Note: In respect of Coal Companies which either did not provide value or the value provided is not justified, the value has been estimated on the basis of Basic Price (ROM) notified by Coal India Limited.

Table 6.3 : PITHEAD (RUN OF MINE) PRICE (Rupees/Tonne) OF NON-COKING COAL PRIOR TO INTRODUCTION OF GCV

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

COMPANIES	Period	Grade of Coal							
		A	B	C	D	E	F	G	UNG
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ECL (Specified S P Mines)	15-06-2004 to 12-12-2007	1870	1670	1470	1270	850	650	450	
ECL (Specified S P Mines)	13-12-2007 to 15-10-2009	2060	1840	1620	1400	940	720	500	
ECL (Specified S P Mines)	16-10-2009 to 26-02-2011	2370	2120	1860	1610	1080	830	580	
ECL (Specified S P Mines)	27-02-2011 to 31-12-2011	4100	3990	1860	1610	1080	830	580	
ECL (Specified Raniganj)	01-04-2004 to 12-12-2007	1740	1640	1440	1240	770	570	380	
ECL (Specified Raniganj)	13-12-2007 to 14-10-2009	1910	1800	1580	1360	850	630	420	
ECL (Specified Raniganj)	15-10-2009 to 26-02-2011	2200	2070	1820	1560	980	730	480	
ECL (Specified Raniganj)	27-02-2011 to 31-12-2011	4100	3990	1820	1560	980	730	480	
ECL (Mugma)	15-06-2004 to 12-12-2007	1550	1380	1180	980	780	580	380	
ECL (Mugma)	13-12-2007 to 15-10-2009	1710	1520	1300	1080	860	640	420	
ECL (Mugma)	16-10-2009 to 26-02-2011	1970	1750	1500	1240	990	740	480	
ECL (Mugma) (NLF)	27-02-2011 to 31-12-2011	3690	3590	1500	1240	990	740	480	
ECL(Rajmahal)	15-06-2004 to 12-12-2007				1050 (LF)	810	690	550	
ECL(Rajmahal)	13-12-2007 to 15-10-2009				1160 (LF)	890	760	610	
ECL(Rajmahal)	16-10-2009 to 26-02-2011	x	x	x	1330 (LF)	1020	870	700	
ECL (Rajmahal) (NLF)	27-02-2011 to 31-12-2011	x	x	x	1330 (LF)	1020	870	700	
ECL (Others)	15-06-2004 to 12-12-2007	1350	1220	1020	820	620	480	340	
ECL (Others)	13-12-2007 to 15-10-2009	1490	1340	1120	900	680	530	370	
ECL (Others)	16-10-2009 to 26-02-2011	1710	1540	1290	1040	780	610	430	
ECL (Others) (NLF)	27-02-2011 to 31-12-2011	3690	3590	1290	1040	780	610	430	
BCCL	15-06-2004 to 12-12-2007	1310	1190	990	820	650	520	370	
BCCL	13-12-2007 to 15-10-2009	1440	1310	1090	900	720	570	410	
BCCL	16-10-2009 to 26-02-2011	1660	1510	1250	1040	830	660	470	
BCCL (LF)	27-02-2011 to 31-12-2011	4100	3990	1430	1210	x	x	x	
BCCL (NLF)	27-02-2011 to 31-12-2011	3690	3590	1250	1040	830	660	470	
CCL (Specified 7 units)	15-06-2004 to 12-12-2007	1600	1440	1240	1040	820	620	420	
CCL (Specified 7 units)	13-12-2007 to 15-10-2009	1760	1580	1360	1140	900	680	460	
CCL (Specified 7 units)	16-10-2009 to 26-02-2011	1940	1740	1500	1250	990	750	510	
CCL (Specified 7 units)	27-02-2011 to 31-12-2011	4100	3990	1500	1250	990	750	510	
CCL (Specified 16 units)	15-06-2004 to 12-12-2007	1500	1360	1160	970	x	x	x	
CCL (Specified 16 units)	13-12-2007 to 15-10-2009	1650	1500	1280	1070	x	x	x	
CCL (Specified 16 units)	16-10-2009 to 26-02-2011	1820	1650	1410	1180	x	x	x	
CCL (Specified 16 units)	27-02-2011 to 31-12-2011	4100	3990	1410	1180	x	x	x	
CCL (Others)	15-06-2004 to 12-12-2007	1340	1210	1010	830	650	520	370	
CCL (Others)	13-12-2007 to 15-10-2009	1470	1330	1110	910	720	570	410	
CCL (Others)	16-10-2009 to 26-02-2011	1620	1460	1220	1000	790	630	450	
CCL (Others) (NLF)	27-02-2011 to 31-12-2011	3690	3590	1220	1000	790	630	450	

Contd....

Table 6.3 : PITHEAD (RUN OF MINE) PRICE (Rupees/Tonne) OF NON-COKING COAL PRIOR TO INTRODUCTION OF GCV

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

COMPANIES	Period	Grade of Coal							
		A	B	C	D	E	F	G	UNG
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
NCL	15-06-2004 to 12-12-2007	1230	1110	910	760	610	480	350	
NCL	13-12-2007 to 15-10-2009	1350	1220	1000	840	670	530	390	
NCL	16-10-2009 to 26-02-2011	1490	1340	1100	920	740	580	430	
NCL (LF)	27-02-2011 to 31-12-2011	4100	3990	1280	1080	x	x	x	
NCL (NLF)	27-02-2011 to 31-12-2011	3690	3590	1100	920	740	580	430	
WCL	15-06-2004 to 12-12-2007	1320	1250	1160	1100	900	710	540	
WCL	13-12-2007 to 15-10-2009	1450	1380	1280	1210	990	780	590	
WCL	16-10-2009 to 26-02-2011	1600	1520	1410	1330	1090	860	650	
WCL	27-02-2011 to 31-12-2011	4100	3990	1410	1330	1090	860	650	
SECL (Specified)	15-06-2004 to 12-12-2007	1330	1250	1070	920	720	520	360	
SECL (Specified)	13-12-2007 to 15-10-2009	1460	1380	1180	1010	790	570	400	
SECL (Specified)	16-10-2009 to 26-02-2011	1190	1110	950	800	660	520	390	
SECL (Korea Rewa)	27-02-2011 to 31-12-2011	4100	3990	1300	1110	870	630	440	
SECL (Korba & Raigarh) (LF)	27-02-2011 to 31-12-2011	4100	3990	1180	1010	x	x	x	
SECL (Korba & Raigarh) (NLF)	27-02-2011 to 31-12-2011	3690	3590	1050	880	730	570	430	
MCL	15-06-2004 to 12-12-2007	1610	1520	1300	1110	870	630	440	
MCL	13-12-2007 to 15-10-2009	1050	940	780	650	510	400	290	
MCL (LF)	27-02-2011 to 31-12-2011	4100	3990	1180	1010	x	x	x	
MCL (NLF)	27-02-2011 to 31-12-2011	3690	3590	1050	880	730	570	430	
NEC	15-06-2004 to 12-12-2007	1320	1050						
NEC	13-12-2007 to 15-10-2009	1520	1210						
NEC	16-10-2009 to 26-02-2011	2510	2000						
NEC	27-02-2011 to 31-12-2011	4100	3990	x	x	x	x	x	
SCCL *	13-01-2011 to 31-12-2011	2610	2220	1840	1500	1130	690	510	

Note: (i). The above mentioned Price is changed from January, 2012 based on the Gross Calorific Value (GCV). Please see table 6.8 to 6.13 for revised price of Non-coking Coal

* SCCL did not notify Sector wise Price. However, the price is shown here and not shown in Table 6.4.

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

Source: Websites of documents provided by CIL and SCCL

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

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

COMPANIES	Period	Grade of Coal							
		A	B	C	D	E	F	G	UNG
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ECL (Specified S P Mines)	15-06-2004 to 12-12-2007		1670	1470	1270	850	650	450	
ECL (Specified S P Mines)	13-12-2007 to 15-10-2009		1840	1620	1400	940	720	500	
ECL (Specified S P Mines)	16-10-2009 to 26-02-2011		2120	1860	1610	1080	830	580	
ECL (Specified S P Mines)	27-02-2011 to 31-12-2011		3990	2420	2090	1400	1080	750	
ECL (Specified Raniganj)	01-04-2004 to 12-12-2007		1640	1440	1240	770	570	380	
ECL (Specified Raniganj)	13-12-2007 to 14-10-2009		1800	1580	1360	850	630	420	
ECL (Specified Raniganj)	15-10-2009 to 26-02-2011		2070	1820	1560	980	730	480	
ECL (Raniganj)	27-02-2011 to 31-12-2011		3990	2370	2030	1270	950	620	
ECL (Mugma)	15/06/04 - 12/12/07	1550	1380	1180	980	780	580	380	
ECL (Mugma)	13/12/07 - 15/10/09	1710	1520	1300	1080	860	640	420	
ECL (Mugma)	15/10/09-26/2/11	1970	1750	1500	1240	990	740	480	
ECL (Mugma) (NLF)	27-02-2011 to 31-12-2011	3690	3590	1950	1610	1290	960	620	
ECL(Rajmahal)	15-06-2004 to 12-12-2007				1050 (LF)	810	690	550	
ECL(Rajmahal)	13-12-2007 to 15-10-2009				1160 (LF)	890	760	610	
ECL(Rajmahal)	16-10-2009 to 26-02-2011		x	x	1330 (LF)	1020	870	700	
ECL (Rajmahal) (NLF)	27-02-2011 to 31-12-2011		x	x	1730 (LF)	1330	1130	910	
ECL (Others)	15-06-2004 to 12-12-2007		1220	1020	820	620	480	340	
ECL (Others)	13-12-2007 to 15-10-2009		1340	1120	900	680	530	370	
ECL (Others)	16-10-2009 to 26-02-2011		1540	1290	1040	780	610	430	
ECL (Others) (NLF)	27-02-2011 to 31-12-2011		3590	1680	1350	1010	790	560	
BCCL	15-06-2004 to 12-12-2007		1190	990	820	650	520	370	
BCCL	13-12-2007 to 15-10-2009		1310	1090	900	720	570	410	
BCCL	16-10-2009 to 26-02-2011		1510	1250	1040	830	660	470	
BCCL (LF)	27-02-2011 to 31-12-2011		3990	1860	1570	x	x	x	
BCCL (NLF)	27-02-2011 to 31-12-2011		3590	1630	1350	1080	860	610	
CCL (Specified 7 units)	15-06-2004 to 12-12-2007		1440	1240	1040	820	620	420	
CCL (Specified 7 units)	13-12-2007 to 15-10-2009		1580	1360	1140	900	680	460	
CCL (Specified 7 units)	16-10-2009 to 26-02-2011		1740	1500	1250	990	750	510	
CCL (Specified 7 units)	27-02-2011 to 31-12-2011		3990	1950	1630	1290	980	660	
CCL (Specified 16 units)	15-06-2004 to 12-12-2007		1360	1160	970	x	x	x	
CCL (Specified 16 units)	13-12-2007 to 15-10-2009		1500	1280	1070	x	x	x	
CCL (Specified 16 units)	16-10-2009 to 26-02-2011		1650	1410	1180	x	x	x	
CCL (Specified 16 units)	27-02-2011 to 31-12-2011		3990	1830	1530	x	x	x	
CCL (Others)	15-06-2004 to 12-12-2007		1210	1010	830	650	520	370	
CCL (Others)	13-12-2007 to 15-10-2009		1330	1110	910	720	570	410	
CCL (Others)	16-10-2009 to 26-02-2011		1460	1220	1000	790	630	450	
CCL (Others) (NLF)	27-02-2011 to 31-12-2011		3590	1590	1300	1030	820	590	

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

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

COMPANIES	Period	Grade of Coal							
		A	B	C	D	E	F	G	UNG
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Contd....									
NCL	15-06-2004 to 12-12-2007	1230	1110	910	760	610	480	350	
NCL	13-12-2007 to 15-10-2009	1350	1220	1000	840	670	530	390	
NCL	16-10-2009 to 26-02-2011	1490	1340	1100	920	740	580	430	
NCL (LF)	27-02-2011 to 31-12-2011	4100	3990	1660	1400	x	x	x	
NCL (NLF)	27-02-2011 to 31-12-2011	3690	3590	1430	1200	960	750	560	
WCL	15-06-2004 to 12-12-2007	1320	1250	1160	1100	900	710	540	
WCL	13-12-2007 to 15-10-2009	1450	1380	1280	1210	990	780	590	
WCL	16-10-2009 to 26-02-2011	1600	1520	1410	1330	1090	860	650	
WCL	27-02-2011 to 31-12-2011	4100	3990	1830	1730	1420	1120	850	
SECL (Specified)	15-06-2004 to 12-12-2007	1330	1250	1070	920	720	520	360	
SECL (Specified)	13-12-2007 to 15-10-2009	1460	1380	1180	1010	790	570	400	
SECL (Specified)	16-10-2009 to 26-02-2011	1190	1110	950	800	660	520	390	
SECL (Korea Rewa)	27-02-2011 to 31-12-2011	4100	3990	1690	1440	1130	820	570	
SECL(Korba & Raigarh)(LF)	27-02-2011 to 31-12-2011	4100	3990	1530	1310	x	x	x	
SECL(Korba & Raigarh)(NLF)	27-02-2011 to 31-12-2011	3690	3590	1370	1140	950	740	560	
MCL	15-06-2004 to 12-12-2007	1610	1520	1300	1110	870	630	440	
MCL	13-12-2007 to 15-10-2009	1050	940	780	650	510	400	290	
MCL (LF)	27-02-2011 to 31-12-2011	4100	3990	1530	1310	x	x	x	
MCL (NLF)	27-02-2011 to 31-12-2011	3690	3590	1370	1140	950	740	560	
NEC	15-06-2004 to 12-12-2007	1320	1050						
NEC	13-12-2007 to 15-10-2009	1520	1210						
NEC	27-02-2011 to 31-12-2011	2510	2000						
NEC	27-02-2011 to 31-12-2011	4100	3990	x	x	x	x	x	
SCCL *									

Note: (i). The above mentioned Price is changed from January, 2012 based on the Gross Calorific Value (GCV). Please see table 6.8 to 6.13 for revised price of Non-coking Coal

* SCCL did not notify Sector wise Price. However, the price is shown in Table 6.3.

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

Source: Websites of documents provided by CIL and SCCL

Table 6.5 : PIT HEAD (RUN OF MINE) PRICE (Rupees Per Tonne) OF COKING COAL

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

Companies	Period	Grade of Coal							
		SI	SII	WI	WII	WIII	WIV	SCI	SCII
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ECL (Unspecified)	27-02-2011 to 31-03-2013			2390	1990	1470	1370		
ECL (Unspecified)	01-04-2013 to 31-03-2014			2390	1990	1470	1370		
ECL (Unspecified)	01-04-2014 to 31-03-2015			2390	1990	1470	1370		
ECL (Unspecified)	01-04-2015 to 31-03-2016			2390	1990	1470	1370		
ECL (Raniganj)	27-02-2011 to 31-03-2013							2150	1790
ECL (Raniganj)	01-04-2013 to 31-03-2014							2150	1790
ECL (Raniganj)	01-04-2014 to 31-03-2015							2150	1790
ECL (Raniganj)	01-04-2015 to 31-03-2016							2150	1790
BCCL (Specified)	27-02-2011 to 31-03-2013	3750	3140	2740	1980	1480	1370		
BCCL (Specified)	01-04-2013 to 27-05-2013	3750	3140	2740	1980	1480	1370		
BCCL (Specified)	28-05-2013 to 31-03-2014	3750	3140	2220	1850	1360	1270		
BCCL (Specified)	01-04-2014 to 31-03-2015	3750	3140	2220	1850	1360	1270		
BCCL (Specified)	01-04-2015 to 31-03-2016	3750	3140	2220	1850	1360	1270		
BCCL (Unspecified)	27-02-2011 to 31-03-2013			2020	1680	1240	1150		
BCCL (Unspecified)	01-04-2013 to 31-03-2014			2020	1680	1240	1150		
BCCL (Unspecified)	01-04-2014 to 31-03-2015			2020	1680	1240	1150		
BCCL (Unspecified)	01-04-2015 to 31-03-2016			2020	1680	1240	1150		
CCL	27-02-2011 to 31-03-2013			1960	1620	1200	1120		
CCL	01-04-2013 to 31-03-2014			1960	1620	1200	1120		
CCL	01-04-2014 to 30-03-2015			1960	1620	1200	1120		
CCL	wef 31-03-2015	3750		1960	1620	1200	1120		
CCL	01-04-2015 to 31-03-2016	3750		1960	1620	1200	1120		
WCL	27-02-2011 to 31-03-2013			1710	1410	1290			
WCL	01-04-2013 to 31-03-2014			1710	1410	1290			
WCL	01-04-2014 to 31-03-2015			1710	1410	1290			
WCL	01-04-2015 to 31-03-2016			1710	1410	1290			
SECL	27-02-2011 to 31-03-2013							1740	1450
SECL	01-04-2013 to 31-03-2014							1740	1450
SECL	01-04-2014 to 31-03-2015							1740	1450
SECL	01-04-2014 to 31-03-2015							1740	1450
SECL	01-04-2015 to 31-03-2016							1740	1450

Source : Information provided by CIL. Further details are available in the website of CIL.

There was no change in CIL price during 2015-16. The change was in May'15 in respect of only two coal mines of CCL each for S-I and S-II grade.

Table 6.6 : PIT HEAD (RUN OF MINE) PRICE (Rupees Per Tonne) OF COKING COAL
Applicable for Consumers Other Than Power Utilities (Including IPPs), Fertiliser and Defence.

Companies	Period	Grade of Coal							
		SI	SII	WI	WII	WIII	WIV	SCI	SCII
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ECL (Unspecified)	27-02-2011 to 31-03-2013			3110	2590	1910	1780		
ECL (Unspecified)	01-04-2013 to 31-03-2014			3110	2590	1910	1780		
ECL (Unspecified)	01-04-2014 to 31-03-2015			3110	2590	1910	1780		
ECL (Unspecified)	01-04-2015 to 31-03-2016			3110	2590	1910	1780		
ECL (Raniganj)	27-02-2011 to 31-03-2013							2800	2330
ECL (Raniganj)	01-04-2013 to 31-03-2014							2800	2330
ECL (Raniganj)	01-04-2014 to 31-03-2015							2800	2330
ECL (Raniganj)	01-04-2015 to 31-03-2016							2800	2330
BCCL (Specified)	27-02-2011 to 31-03-2013	4880	4080	3560	2570	1920	1780		
BCCL (Specified)	01-04-2013 to 27-05-2013	4880	4080	3560	2570	1920	1780		
BCCL (Specified)	28-05-2013 to 31-03-2014	4880	4080	2890	2400	1770	1650		
BCCL (Specified)	01-04-2014 to 31-03-2015	4880	4080	2890	2400	1770	1650		
BCCL (Specified)	01-04-2015 to 31-03-2016	4880	4080	2890	2400	1770	1650		
BCCL (Unspecified)	27-02-2011 to 31-03-2013			2630	2180	1610	1500		
BCCL (Unspecified)	01-04-2013 to 31-03-2014			2630	2180	1610	1500		
BCCL (Unspecified)	01-04-2014 to 31-03-2015			2630	2180	1610	1500		
BCCL (Unspecified)	01-04-2015 to 31-03-2016			2630	2180	1610	1500		
CCL	27-02-2011 to 31-03-2013			2550	2110	1560	1460		
CCL	01-04-2013 to 31-03-2014			2550	2110	1560	1460		
CCL	01-04-2014 to 31-03-2015			2550	2110	1560	1460		
CCL	01-04-2015 to 31-03-2016			2550	2110	1560	1460		
WCL	27-02-2011 to 31-03-2013				2220	1830	1680		
WCL	01-04-2013 to 31-03-2014				2220	1830	1680		
WCL	01-04-2014 to 31-03-2015				2220	1830	1680		
WCL	01-04-2015 to 31-03-2016				2220	1830	1680		
SECL	27-02-2011 to 31-03-2013							2260	1890
SECL	01-04-2013 to 31-03-2014							2260	1890
SECL	01-04-2014 to 31-03-2015							2260	1890
SECL	01-04-2015 to 31-03-2016							2260	1890

Source : Information provided by CIL. Further details are available in the website of CIL.

There was no change in CIL price during 2015-16. The change was in May'15 in respect of only two coal mines of CCL each for S-I and S-II grade.

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

Period	Coking Coal	Non-coking Coal
01/04/75 - 08/02/83	2.40	1.65
09/02/83 - 25/06/03	4.25	3.50
27/06/2003 - till date	10.00	10.00

Notes. (1) Since 29-11-1978, SED is charged on Indigenous Raw Coal irrespective of location and ownership of coal mines.

Table 6.8 : PIT HEAD (Run of Mine) PRICE (Rupees Per Tonne) OF NON-COKING COAL OF COAL INDIA LTD. EXCLUDING WCL

Grade of Coal	GCV Bands	Applicable to Power Utilities (including IPPs) and Defence Sector					
		01-01-12	21-06-12	01-04-13	28-05-13	01-04-14	01-04-15
		to 20-06-12	to 31-03-13	to 27-05-13	to 31-03-14	to 31-03-15	to 31-03-16
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
G 1	Exceeding 7000	*	*	*	*	*	*
G 2	Exceeding 6700 and not exceeding 7000	4870	4870	4870	4870	4870	4870
G 3	Exceeding 6400 and not exceeding 6700	4420	4420	4420	3890	3890	3890
G 4	Exceeding 6100 and not exceeding 6400	3970	3970	3970	3490	3490	3490
G 5	Exceeding 5800 and not exceeding 6100	2800	2800	2800	2800	2800	2800
G 6	Exceeding 5500 and not exceeding 5800	1450	1740	1740	1600	1600	1600
G 7	Exceeding 5200 and not exceeding 5500	1270	1520	1520	1400	1400	1400
G 8	Exceeding 4900 and not exceeding 5200	1140	1370	1370	1250	1250	1250
G 9	Exceeding 4600 and not exceeding 4900	880	1060	1060	970	970	970
G 10	Exceeding 4300 and not exceeding 4600	780	940	940	860	860	860
G 11	Exceeding 4000 and not exceeding 4300	640	770	770	700	700	700
G 12	Exceeding 3700 and not exceeding 4000	600	720	720	660	660	660
G 13	Exceeding 3400 and not exceeding 3700	550	660	660	610	610	610
G 14	Exceeding 3100 and not exceeding 3400	500	600	600	550	550	550
G 15	Exceeding 2800 and not exceeding 3100	460	550	550	510	510	510
G 16	Exceeding 2500 and not exceeding 2800	410	490	490	450	450	450
G 17	Exceeding 2200 and not exceeding 2500	360	430	430	400	400	400

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

For WCL (**up to 31-03-2013**) there shall be a 10% add-on over and above the price mentioned above for increase in GCV by every 100 Kcal/ Kg and below.

Source : Information provided by CIL.

Table 6.9 : PIT HEAD Price (Run of Mine) PRICE (Rupees Per Tonne) OF NON-COKING COAL OF COAL INDIA LTD. EXCLUDING WCL

Grade of Coal	GCV Bands	Applicable to Sectors Other than Power Utilities (including IPPs) and Defence					
		01-01-12 to 20-06-12	21-06-12 to 31-03-13	01-04-13 to 27-05-13	28-05-13 to 31-03-14	01-04-14 to 31-03-15	01-04-15 to 31-03-16
(1)	(2)	(5)	(6)	(6)	(6)	(6)	(6)
G 1	Exceeding 7000	*	*	*	*	*	*
G 2	Exceeding 6700 and not exceeding 7000	4870	4870	4870	4870	4870	4870
G 3	Exceeding 6400 and not exceeding 6700	4420	4420	4420	3890	3890	3890
G 4	Exceeding 6100 and not exceeding 6400	3970	3970	3970	3490	3490	3490
G 5	Exceeding 5800 and not exceeding 6100	2800	2800	2800	2800	2800	2800
G 6	Exceeding 5500 and not exceeding 5800	1960	2350	2350	2150	2150	2150
G 7	Exceeding 5200 and not exceeding 5500	1720	2050	2050	1890	1890	1890
G 8	Exceeding 4900 and not exceeding 5200	1540	1850	1850	1690	1690	1690
G 9	Exceeding 4600 and not exceeding 4900	1180	1430	1430	1310	1310	1310
G 10	Exceeding 4300 and not exceeding 4600	1050	1270	1270	1160	1160	1160
G 11	Exceeding 4000 and not exceeding 4300	870	1040	1040	950	950	950
G 12	Exceeding 3700 and not exceeding 4000	810	970	970	890	890	890
G 13	Exceeding 3400 and not exceeding 3700	740	890	890	820	820	820
G 14	Exceeding 3100 and not exceeding 3400	680	810	810	740	740	740
G 15	Exceeding 2800 and not exceeding 3100	620	740	740	680	680	680
G 16	Exceeding 2500 and not exceeding 2800	550	660	660	610	610	610
G 17	Exceeding 2200 and not exceeding 2500	490	580	580	540	540	540

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

For WCL (up to 31-03-2013) there shall be a 10% add-on over and above the price mentioned above for increase in GCV by every 100 Kcal/ Kg and below.

Source : Information provided by CIL.

Table 6.10 : PIT HEAD (Run of Mines) PRICE (Rupees per Tonne) OF NON-COKING COAL OF WESTERN COALFIELDS LTD (WCL)

(Applicable to Power Utilities (including IPPs) and Defence Sector)

Grade of Coal	GCV Bands	01-04-13 to 27-05-13	28-05-13 to 16-12-13	17-12-13 to 31-03-14	01-04-14 to 31-03-15	01-04-15 to 31-03-16
(1)	(2)	(3)	(4)	(5)	(6)	(6)
G 1	Exceeding 7000	*	*	*	*	*
G 2	Exceeding 6700 and not exceeding 7000	4870	4870	4870	4870	4870
G 3	Exceeding 6400 and not exceeding 6700	4420	3890	3890	3890	3890
G 4	Exceeding 6100 and not exceeding 6400	3970	3490	3490	3490	3490
G 5	Exceeding 5800 and not exceeding 6100	2800	2800	2800	2800	2800
G 6	Exceeding 5500 and not exceeding 5800	1740	1760	1920	1920	1920
G 7	Exceeding 5200 and not exceeding 5500	1520	1540	1680	1680	1680
G 8	Exceeding 4900 and not exceeding 5200	1370	1380	1510	1510	1510
G 9	Exceeding 4600 and not exceeding 4900	1060	1070	1170	1170	1170
G 10	Exceeding 4300 and not exceeding 4600	940	940	1030	1030	1030
G 11	Exceeding 4000 and not exceeding 4300	770	770	840	840	840
G 12	Exceeding 3700 and not exceeding 4000	720	730	800	800	800
G 13	Exceeding 3400 and not exceeding 3700	660	670	730	730	730
G 14	Exceeding 3100 and not exceeding 3400	600	610	670	670	670
G 15	Exceeding 2800 and not exceeding 3100	550	560	610	610	610
G 16	Exceeding 2500 and not exceeding 2800	490	500	550	550	550
G 17	Exceeding 2200 and not exceeding 2500	430	440	480	480	480

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

Source : Information provided by CIL.

Table 6.11: PIT HEAD (RUN OF MINE) PRICE (Rupees per Tonne) OF NON-COKING COAL OF WESTERN COALFIELDS LTD

(Applicable to Sectors Other than Power Utilities (including IPPs) and Defence Sector)

Grade of Coal	GCV Bands	01-04-13 to 27-05-13	28-05-13 to 16-12-13	17-12-13 to 31-03-14	01-04-14 to 31-03-15	01-04-15 to 31-03-16
(1)	(2)	(3)	(4)	(5)	(6)	(6)
G 1	Exceeding 7000	*	*	*	*	*
G 2	Exceeding 6700 and not exceeding 7000	4870	4870	4870	4870	4870
G 3	Exceeding 6400 and not exceeding 6700	4420	3890	3890	3890	3890
G 4	Exceeding 6100 and not exceeding 6400	3970	3490	3490	3490	3490
G 5	Exceeding 5800 and not exceeding 6100	2800	2800	2800	2800	2800
G 6	Exceeding 5500 and not exceeding 5800	2350	2370	2590	2590	2590
G 7	Exceeding 5200 and not exceeding 5500	2050	2080	2270	2270	2270
G 8	Exceeding 4900 and not exceeding 5200	1850	1860	2030	2030	2030
G 9	Exceeding 4600 and not exceeding 4900	1430	1440	1570	1570	1570
G 10	Exceeding 4300 and not exceeding 4600	1270	1270	1390	1390	1390
G 11	Exceeding 4000 and not exceeding 4300	1040	1050	1150	1150	1150
G 12	Exceeding 3700 and not exceeding 4000	970	980	1070	1070	1070
G 13	Exceeding 3400 and not exceeding 3700	890	900	980	980	980
G 14	Exceeding 3100 and not exceeding 3400	810	820	890	890	890
G 15	Exceeding 2800 and not exceeding 3100	740	750	820	820	820
G 16	Exceeding 2500 and not exceeding 2800	660	670	730	730	730
G 17	Exceeding 2200 and not exceeding 2500	580	590	640	640	640

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

Source : Information provided by CIL.

**Table 6.12 : PIT HEAD (RUN OF MINE) PRICE (Rupees per Tonne) OF THE SINGARENI COLLIERIES COMPANY LTD
(Applicable to All Sectors)**

Grade of Coal	GCV RANGE				
		08-01-12 to 31-03-12	01-04-12 to 31-03-13	01-04-13 to 18-07-13	19-07-13 to 10-09-13
(1)	(2)	(3)	(4)	(5)	(6)
G 1	Above 7000	3542	3896	3896	4680
G 2	6701-7000	3393	3733	3733	4480
G 3	6401-6700	3244	3569	3569	4290
G 4	6101-6400	3032	3336	3336	4340
G 5	5801-6100	2886	3319	3319	4320
G 6	5501-5800	2360	2360	2360	2360
G 7	5201-5500	1840	1840	1840	1840
G 8	4901-5200	1700	1700	1700	1700
G 9	4601-4900	1500	1500	1500	1500
G 10	4301-4600	1400	1400	1400	1400
G 11	4001-4300	1130	1130	1130	1130
G 12	3701-4000	910	910	910	910
G 13	3401-3700	690	690	690	690
G 14	3101-3400	610	610	610	610
G 15	2801-3100	510	510	510	510
G 16	2501-2800	474	474	474	474
G 17	2201-2500	420	420	420	420

NB : SCCL notified separate price of coal for Power Utilities and Non-Power Consumers Sectors from 11-09-2013, please vide Table 6.13

Source : Information provided by SCCL

Table 6.13 : PIT HEAD (RUN OF MINE) PRICE (Rupees per Tonne) OF THE SINGARENI COLLIERIES COMPANY LTD

Grade of Coal	GCV RANGE	For Power Sector Customers					For Non-Power Sector Customers				
		11-09-13 to 31-03-14	01-04-14 to 11-01-15 to 26-03-15	12-01-15 to 31-03-15 to 31-03-15	01-04-15 to 08-12-15	09-12-15 to 31-03-16	11-09-13 to 31-03-14	01-04-14 to 11-01-15	12-01-15 to 31-03-15	01-04-15 to 08-12-15	09-12-15 to 31-03-16
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
G 1	Above 7000	4680	4680	4680	4680	4680	4680	4680	4680	4680	4680
G 2	6701-7000	4480	4480	4480	4480	4480	4480	4480	4480	4480	4480
G 3	6401-6700	4390	4390	4390	4390	4390	4390	4390	4390	4390	4390
G 4	6101-6400	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340
G 5	5801-6100	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320
G 6	5501-5800	2720	2720	3328	3328	3328	3310	3310	3328	3328	3328
G 7	5201-5500	2120	2120	2600	2600	2600	2580	2580	2600	2600	2600
G 8	4901-5200	1960	1960	2580	2580	2580	2550	2550	2580	2580	2580
G 9	4601-4900	1730	1730	1730	1730	1730	2250	2250	2280	2280	2280
G 10	4301-4600	1610	1610	1610	1610	1610	2100	2100	2130	2130	2130
G 11	4001-4300	1300	1300	1300	1300	1300	1700	1700	1725	1725	1725
G 12	3701-4000	1050	1050	1050	1050	1050	1370	1370	1395	1395	1395
G 13	3401-3700	800	800	800	800	800	1040	1040	1065	1065	1065
G 14	3101-3400	710	710	710	710	710	920	920	945	945	945
G 15	2801-3100	590	590	590	590	590	770	770	795	795	795
G 16	2501-2800	550	550	550	550	550	620	620	635	635	635
G 17	2201-2500	490	490	490	490	490	550	550	486	486	486
Yellandu CHP G-14				944	944	944			1077	1077	1077
RG OC-III CHP											
G10- CRR	4301-4600					1709					2229
G11- CRR	4001-4300					1399					1824
G12- CRR	3701-4000					1149					1494

Source : Information provided by SCCL

NB : SCCL notified separate price of coal for Power Utilities and Non-Power Consumers from 11-09-2013.

Table 6.14 : ROYALTY RATES ON INDIAN COAL AND LIGNITE (Rs./ Tonne)

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

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

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, 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 2015-16, import of coal by India was 203.949 MT (value Rs. 860338 Million) against import of 217.783 MT (value Rs. 1045066 Million) registered in 2014-15. This shows an decrease of 6.35% in quantity and a saving of Rs. 18,473 crores i.e. 17.67% in value over the previous year. The quantities of imported coking and non-coking coal are as follows:

Type of Coal	Quantity [MT]	Value [Rs. Million]
Coking	44.561	282519
Non-Coking	159.388	577819
Total	203.949	860338

It is observed that the share of coking coal in the total quantity was 21.84% which in value terms accounted for 32.83%

7.4 Statement 7.2 shows country wise import of coal in India in 2015-16. It can be seen that

Indonesia with 47.81% [97.514 MT] share remained the leading supplier followed by Australia with 23.97% [48.894 MT] and South Africa 18.09% [36.901 MT]. These three countries together accounted for 89.87% of the total import to India in 2015-16.

Country	Quantity [MT]	% Share
Indonesia	97.514	47.81
Australia	48.894	23.97
South Africa	36.901	18.09
U S A	5.815	2.85
Russia	3.822	1.87
Mozambique	2.779	1.36
Canada	1.552	0.76
Chile	0.773	0.37
New Zealand	0.681	0.33
Others	5.218	2.59
Total	203.949	100.00

7.5 The break-up of source country wise Import for coking and non-coking coal during 2015-16 is given in statement 7.3 and statement 7.4 respectively.

Country	Quantity [MT]	%Share
Australia	38.994	87.51
Canada	1.355	3.04
U S A	1.161	2.61
Mozambique	1.89	4.24
New Zealand	0.62	1.39
South Africa	0.264	0.59
Others	0.277	0.62
Total	44.561	100.00

Statement 7.4 Source Country-Wise Import of Non-Coking Coal to India during 2015-16		
Country	Quantity [MT]	% Share
Indonesia	97.364	61.09
South Africa	36.637	22.99
Australia	9.899	6.21
U S A	4.654	2.92
Russia	3.818	2.40
Mozambique	0.889	0.56
Chile	0.773	0.48
Others	5.354	3.36
Total	159.388	100.00

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

Statement 7.5: Demand, Production and Import of Coal in India in last five years [MT]			
Year	Demand *	Production	Import
2011-12	696.03	539.950	102.853
2012-13	772.84	556.402	145.785
2013-14	729.53	565.765	166.857
2014-15	787.03	609.179	217.783
2015-16	884.87	639.230	203.949

* 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 neighbouring countries. In the year 2015-16, the total export was 1.575 MT. Export to Bangladesh was 0.814 MT (51.68%) followed by Nepal 0.559 MT (35.49%). Export to other countries was negligible.

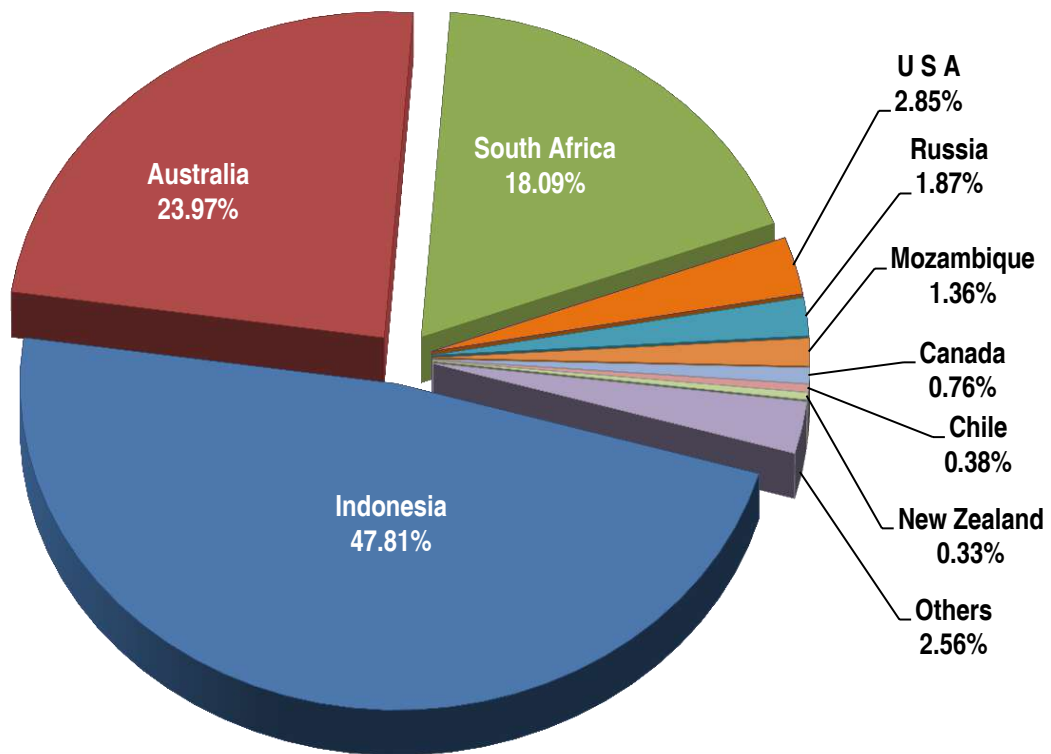
Statement 7.6: Export of Coal from India by destination countries during 2015-16		
Country	Quantity [MT]	Share
Bangladesh PR	0.814	51.68
Nepal	0.559	35.49
Bhutan	0.069	4.38
United Arab Emts	0.067	4.25
Iran	0.064	4.06
Others	0.002	0.13
Total	1.575	100

In 2015-16, coking coal was exported only to Iran and it was 0.064 MT.

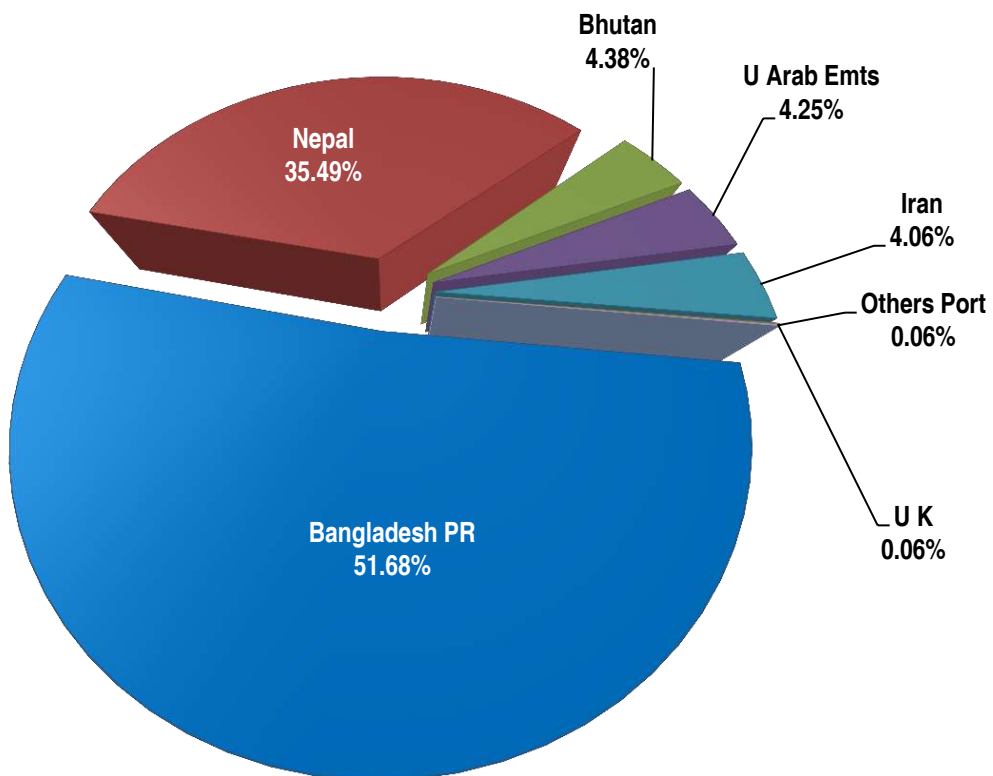
From Statement 7.7, it may be seen that in 2015-16, export of non-coking coal to Bangladesh was 0.814 MT followed by Nepal 0.559 MT. Export to other countries was negligible.

Statement 7.7: Export of Non-coking Coal from India by destination countries during 2015-16		
Country	Quantity [MT]	% Share
Bangladesh PR	0.814	53.87%
Nepal	0.559	37.00%
Bhutan	0.069	4.57%
United Arab Emts	0.067	4.43%
Others	0.002	0.13%
Total	1.511	100.00%

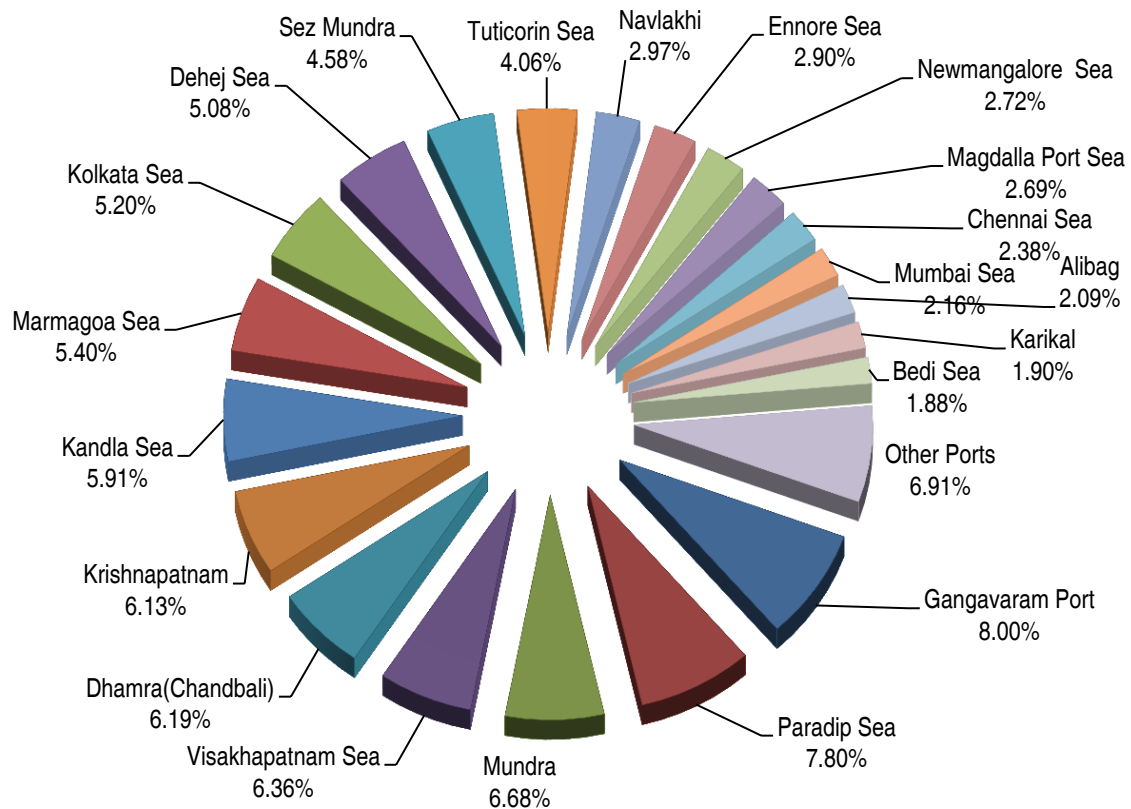
Ch.7.1: SHARE OF COUNTRY WISE IMPORT OF COAL IN 2015-16



Ch.7.2: SHARE OF COUNTRY WISE EXPORT OF COAL IN 2015-16



Ch.7.3 : SHARE OF PORT WISE IMPORT OF COAL IN 2015-16



Ch.7.4 : SHARE OF PORT WISE EXPORT OF COAL IN 2015-16

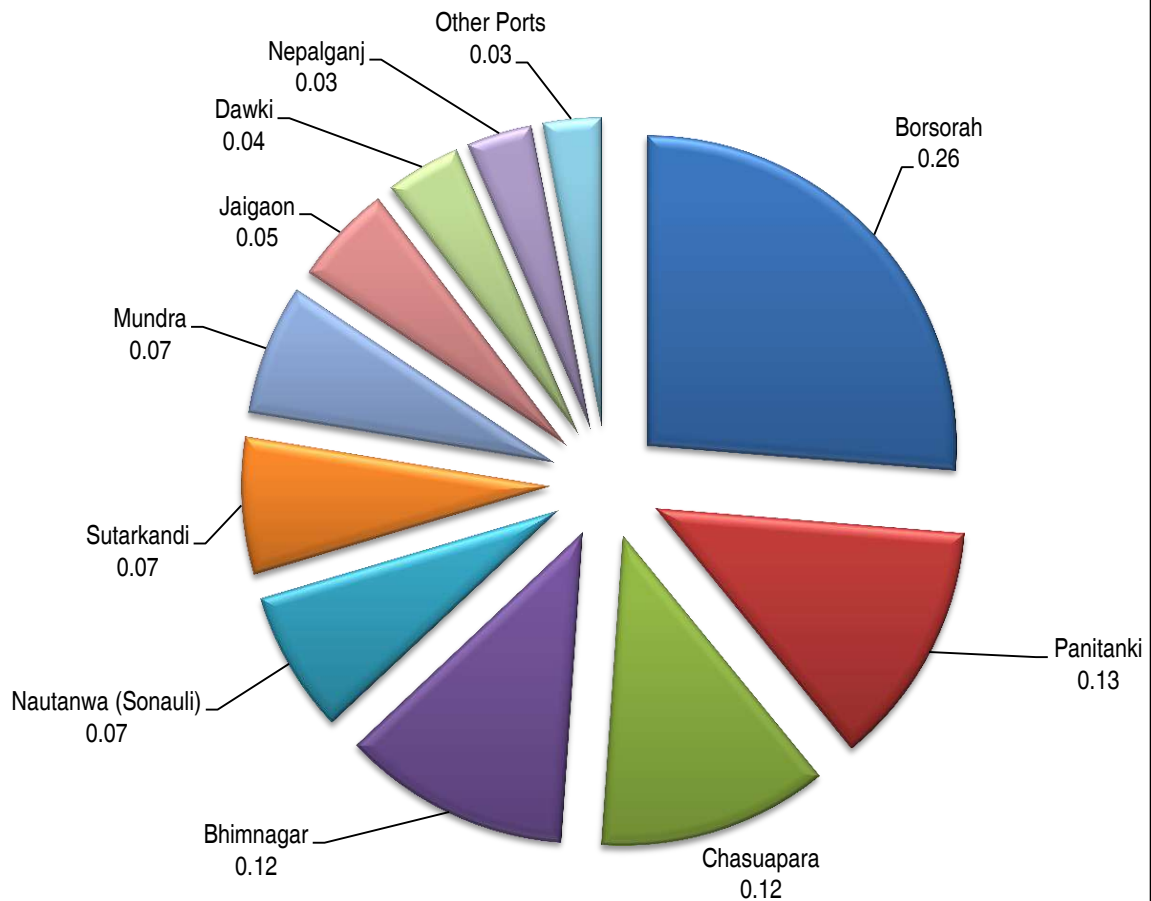


TABLE 7.1 : YEAR WISE IMPORT OF COAL AND COKE TO INDIA DURING LAST TEN YEARS

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

Year	Coking Coal		Non Coking Coal		Total Coal		Coke & Others Coal Products		Lignite	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2006-07	17.877	101806	25.204	65080	43.081	166886	4.686	40211		
2007-08	22.029	121025	27.765	86358	49.794	207384	4.248	51231		
2008-09	21.080	226140	37.923	187268	59.003	413408	1.881	46051		
2009-10	24.690	201311	48.565	190489	73.255	391800	2.355	33311		
2010-11	19.484	208621	49.434	206875	68.918	415496	1.490	31204		
2011-12	31.801	424692	71.052	363683	102.853	788376	2.365	47585		
2012-13	35.557	378398	110.228	490057	145.785	868455	3.081	56919	0.0006	10
2013-14	36.872	348319	129.985	574973	166.857	923292	4.171	67995	0.0013	24
2014-15	43.715	337656	174.068	707411	217.783	1045066	3.294	43806	0.0006	17
2015-16	44.561	282519	159.388	577819	203.949	860338	3.072	32684	0.0010	15

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

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

Year	Coking Coal		Non Coking Coal		Total Coal		Coke & Others Coal Products		Lignite	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2006-07	0.107	222	1.447	2915	1.554	3137	0.076	323		
2007-08	0.036	84	1.591	2684	1.627	2768	0.097	987		
2008-09	0.109	245	1.546	3240	1.655	3485	1.338	7246		
2009-10	0.270	696	2.180	4347	2.450	5042	0.129	2080		
2010-11	0.111	265	1.764	4544	1.875	4809	0.729	11647		
2011-12	0.097	287	1.917	5525	2.014	5900	0.613	11525		
2012-13	0.056	302	2.387	8349	2.443	8651	1.201	6017	0.0691	360
2013-14	0.008	35	2.180	10805	2.188	10840	0.154	1521	0.0019	61
2014-15	0.042	413	1.196	6784	1.238	7197	0.102	1140	0.0028	40
2015-16	0.064	650	1.511	8348	1.575	8998	0.149	1494	0.0005	9

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

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

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

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

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

TABLE 7.3 : SOURCE COUNTRY-WISE IMPORT OF COAL, COKE AND LIGNITE TO INDIA DURING 2015-16

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

Country	Coking Coal		Non Coking Coal		Total Coal		Coke & Others Coal Products		Lignite	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Afghanistan	0.000	0			0.000	0				
Australia	38.994	246883	9.899	47873	48.894	294756	0.1926	2100		
Austria			0.000	0	0.000	0				
Baharain Is			0.017	69	0.017	69				
Bangladesh PR			0.000	0	0.000	0	0.0004	4		
Bhutan			0.005	18	0.005	18				
Canada	1.355	8396	0.197	934	1.552	9330				
Chile			0.773	2174	0.773	2174				
China PRP			0.480	1775	0.480	1775	2.1552	21977	0.0009	10
Colombia			0.000	9	0.000	9	0.0624	796		
Denmark					0.000	0	0.0001	2		
Estonia					0.000	0		0		
Germany			0.000	1	0.000	1		0		
Iceland			0.039	152	0.039	152				
Indonesia	0.149	848	97.364	319261	97.514	320109				
Iran					0.000	0	0.0000	0		
Iraq			0.012	50	0.012	50				
Ireland					0.000	0	0.0001	1		
Japan					0.000	0	0.1758	1904		
Latvia			0.002	22	0.002	22	0.0062	68		
Lithuania					0.000	0	0.0005	9		
Mauritius			0.000	0	0.000	0				
Moldova			0.070	240	0.070	240				
Mozambique	1.890	11202	0.889	3016	2.779	14218				
Netherland			0.000	3	0.000	3				
New Zealand	0.620	4118	0.061	258	0.681	4376				
Oman			0.110	562	0.110	562	0.0460	654		
Poland					0.000	0	0.3535	4234		
Russia	0.004	31	3.818	20169	3.822	20200	0.0749	904		
Saudi Arab			0.008	24	0.008	24	0.0024	11		
Singapore			0.020	48	0.020	48				
South Africa	0.264	1719	36.637	140396	36.901	142116				
Spain	0.109	703			0.109	703				
Thailand			0.000	2	0.000	2				
U Arab Emts	0.012	94			0.012	94				
U K	0.002	37	0.006	55	0.008	92	0.0002	7		
U S A	1.161	8488	4.654	23912	5.815	32399			0.0001	5
Ukraine			0.054	334	0.054	334	0.0012	11		
Vietnam SOC REP			0.034	463	0.034	463				
Unspecified			4.238	15999	4.238	15999				
TOTAL	44.561	282519	159.388	577819	203.949	860338	3.072	32684	0.0010	15

Source: DGCI & S , KOLKATA

TABLE 7.4 : DESTINATION COUNTRY-WISE EXPORT OF COAL, COKE AND LIGNITE TO INDIA DURING 2015-16

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

Country	Coking Coal		Non Coking Coal		Total Coal		Coke & Others Coal Products		Lignite	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Baharain Is			0.000	0.17	0.000	0.17				
Bangladesh Pr	0.000	0.05	0.814	4417.00	0.814	4417.05	0.0051	32.45		
Belgium					0.000	0.00	0.0000	0.02		
Bhutan	0.000	0.53	0.069	531.57	0.069	532.10	0.0223	418.95	0.0002	3.47
China P Rp					0.000	0.00	0.0330	322.29		
Egypt A Rp					0.000	0.00	0.0001	1.10		
Ethiopia			0.000	0.04	0.000	0.04				
Germany			0.000	0.02	0.000	0.02	0.0000	0.01		
Greece					0.000	0.00	0.0000	0.33		
Indonesia					0.000	0.00	0.0000	0.96		
Iran	0.064	649.56			0.064	649.56				
Jordan			0.000	0.39	0.000	0.39	0.0002	2.88		
Madagascar			0.000	2.80	0.000	2.80				
Malaysia			0.000	2.37	0.000	2.37	0.0000	1.04		
Mauritius			0.000	0.06	0.000	0.06				
Nepal	0.000	0.24	0.559	3146.35	0.559	3146.59	0.0785	551.33	0.0001	1.11
Nigeria			0.000	0.02	0.000	0.02	0.0001	1.84		
Oman			0.000	0.19	0.000	0.19	0.0011	15.65		
Pakistan Ir					0.000	0.00	0.0049	78.02	0.0001	2.25
Qatar			0.000	0.26	0.000	0.26				
Saudi Arab			0.000	0.73	0.000	0.73	0.0011	22.59		
South Africa					0.000	0.00	0.0003	7.81		
Sri Lanka Dsr					0.000	0.00	0.0004	10.34	0.0001	1.39
Sudan					0.000	0.00	0.0001	1.31		
Tanzania Rep					0.000	0.00	0.0001	2.21		
U Arab Emts			0.067	230.28	0.067	230.28	0.0013	22.09	0.0001	0.50
U K			0.001	13.27	0.001	13.27				
U S A					0.000	0.00	0.0000	0.03		
Unspecified			0.000	2.56	0.000	2.56	0.0000	0.24		
TOTAL	0.064	650.37	1.511	8348.06	1.575	8998.43	0.1486	1493.51	0.0006	8.73

Source: DGCI & S , KOLKATA

TABLE 7.5 : PORT WISE IMPORT OF COAL, COKE & LIGNITE TO INDIA DURING 2015-16

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

Port	Coking Coal		Non Coking Coal		Total Coal		Coke & Others Coal		Lignite	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Alibag	0.596	3886	3.660	10795	4.256	14681	0.0460	654		
Appic Multi Prod Sez Vizag Dc			0.048	162	0.048	162	0.0366	345		
Attariroad,Amritsar	0.000	0			0.000	0				
Bedi Sea			3.828	11750	3.828	11750				
Bhavnagar			1.152	3784	1.152	3784				
Bhuj			0.410	1175	0.410	1175				
Chennai Air				0	0.000	0				
Chennai Sea	0.001	32	4.847	14160	4.848	14192	0.0005	8	0.0008	8
Cochin Sea			0.088	385	0.088	385	0.0004	6		
Dehej Sea			10.360	38042	10.360	38042				
Delhi Air			0.000	0	0.000	0				
Dhamra(Chandbali)	7.158	44422	5.473	21204	12.631	65626				
Dharmatar Sea	0.593	3817	1.123	3841	1.716	7658				
Ennore Sea	0.075	430	5.832	26746	5.908	27176				
Gangavaram Port	6.076	38084	10.235	34426	16.310	72509	0.0030	47		
Ghajadanga			0.000	0	0.000	0	0.0004	4		
Hazira Port, Surat			2.529	9006	2.529	9006				
Hetero Infra Sez Nakkapalli Ap			0.012	20	0.012	20				
Icd Bhusawal					0.000	0	0.0059	64		
Icd Garhiharsaru					0.000	0		0		
Icd Patli					0.000	0	0.0001	1		
Jabilant Infra Ltd Kandla			0.017	54	0.017	54				
Jaigad	0.035	204	0.063	284	0.098	488	0.0057	98		
Kakinada Sea			2.454	7798	2.454	7798				
Kandla Sea	0.379	2792	11.678	44642	12.057	47434	0.0727	770		
Karikal	0.476	3000	3.397	12227	3.873	15227				
Kattupalli Port/ Tiruvallur	0.000	1			0.000	1				
Kiadb Textile Sez Karnataka			0.074	252	0.074	252				
Kolkata Sea	5.389	34800	5.226	22267	10.615	57067	0.5706	6081	0.0001	1
Krishnapatnam	3.137	19997	9.369	33407	12.505	53404	0.0745	664		
Magdalla Port Sea	0.883	5421	4.606	17362	5.489	22782	1.1207	12516		
Marmagoa Sea	5.829	37470	5.193	24584	11.022	62054	0.0315	397		
Muldwarka			0.103	302	0.103	302				
Mumbai Air			0.000	1	0.000	1		0	0.0000	1
Mumbai Sea			4.410	17189	4.410	17189				
Mundra	1.100	7170	12.532	45254	13.632	52424	0.0000	1	0.0000	0
Naliya, Bhuj			0.585	1656	0.585	1656				
Navlakhi			6.061	20361	6.061	20361				
Newmangalore Sea	0.049	353	5.500	22657	5.549	23010	0.3402	3355		
Nhava Sheva Sea			0.003	83	0.003	83	0.0006	13	0.0001	4
Okha	0.235	1430	0.491	1862	0.726	3291				
Old Mundra			1.155	3853	1.155	3853				
Opgs Gandhidham			0.603	1420	0.603	1420				
Panaji	0.158	872	0.012	50	0.169	922				
Paradip Sea	7.320	46143	8.582	30300	15.901	76444	0.4811	4865		
Parri Infra Co Pvt Ltd			0.089	278	0.089	278				
Pipavab(Vicyor)	0.044	323	0.576	2289	0.620	2613				
Porbandar			0.413	1508	0.413	1508				
Ramki Pharma City (India) Pvt			0.012	23	0.012	23				
Revdanda			0.825	2468	0.825	2468				
Sez Dahej			0.014	46	0.014	46				
Sez Mundra			9.340	31079	9.340	31079				
Sez Wardha Power Ltd. Warora			0.025	97	0.025	97				
Sikka			0.159	731	0.159	731				
Tuticorin Sea			8.275	30432	8.275	30432	0.0031	55		
Visakhapatnam Sea	5.028	31873	7.949	25506	12.977	57379	0.2781	2737		
Other Ports					0.000	0				
TOTAL	44.561	282519	159.388	577819	203.949	860338	3.072	32684	0.0010	15

Source: DGCI & S, KOLKATA

TABLE 7.6 : PORT WISE EXPORT OF COAL, COKE & LIGNITE TO INDIA DURING 2015-16

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

Port	Coking Coal		Non-Coking Coal		Total Coal		Coke		Lignite	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Bairgania			0.001	8.41	0.001	8.41				
Bangalore Airport								0.01		
Barhni			0.001	8.92	0.001	8.92	0.0576	415.67		
Bhimnagar			0.104	2.84	0.104	2.84				
Borsorah			0.517	2793.71	0.517	2793.71	0.0037	17.32		
Cfs Patparganj			0.000	0.02	0.000	0.02				
Chasuapara			0.160	871.53	0.160	871.53				
Chengrabandha Rly.Station			0.001	6.52	0.001	6.52				
Chennai Sea			0.000	2.82	0.000	2.82	0.0000	0.03	0.0001	0.33
Cochin Sea			0.000	0.25	0.000	0.25				
Dalu			0.002	13.82	0.002	13.82				
Dawki			0.058	309.19	0.058	309.19				
Delhi (lcd)			0.000	0.54	0.000	0.54				
Elec Tech Park Ili Cochin Dc			0.000	0.24	0.000	0.24				
Ghajadanga			0.001	4.18	0.001	4.18	0.0006	6.56		
Gouriphanta			0.025	172.42	0.025	172.42				
Hatisar (Deosiri)	0.000	0.53	0.007	65.15	0.007	65.68				
Hili (West)			0.003	18.71	0.003	18.71				
Icd Hyderabad							0.0000	0.04		
Icd Kanakpura			0.000	0.04	0.000	0.04				
Icd Nagpur			0.000	2.30	0.000	2.30	0.0000	0.33		
Icd Sabarmati			0.000	0.06	0.000	0.06	0.0000	0.06		
Jaigaon			0.063	466.18	0.063	466.18	0.0223	418.95	0.0002	3.47
Jogbani			0.001	9.11	0.001	9.11	0.0009	7.34	0.0000	0.01
Joynagar			0.000	2.09	0.000	2.09				
Kolkata Air				0.00		0.00				
Kolkata Sea							0.0003	8.79		
Kotwaligate (Mohedipur)			0.000	0.14	0.000	0.14				
L C S Khunwa			0.003	20.43	0.003	20.43				
Laukaha, Madhubani			0.001	5.34	0.001	5.34				
Magdalla Port Sea			0.067	229.92	0.067	229.92				
Mahendraganj	0.000	0.05	0.000	0.48	0.000	0.54				
Mankachar			0.000	0.97	0.000	0.97				
Marmagoa Sea							0.0002	4.33		
Mumbai Air				0.00		0.00				
Mundra	0.064	649.56	0.000	1.18	0.064	650.74	0.0090	149.81	0.0000	0.17
Nautanwa (Sonauli)	0.000	0.24	0.079	561.17	0.079	561.41	0.0067	46.20		
Nepalganj			0.038	284.70	0.038	284.70	0.0015	9.89		
Newmangalore Sea							0.0330	322.25		
Nhava Sheva Sea			0.001	13.45	0.001	13.45	0.0001	3.09	0.0001	3.64
Panitanki			0.294	2001.81	0.294	2001.81	0.0090	52.48	0.0001	1.10
Petrapole Land			0.000	0.09	0.000	0.09	0.0004	3.16		
Pipavab(Vicyor)							0.0001	1.80		
Raxaul Land			0.008	53.32	0.008	53.32	0.0028	19.99		
Sonbarsa			0.000	2.41	0.000	2.41				
Sutarkandi			0.072	399.90	0.072	399.90				
Toothibari, Maharajganj			0.002	13.70	0.002	13.70				
Visakhapatnam Sea							0.0005	5.41		
Unspecified										
Total	0.064	650.37	1.511	8348.06	1.575	8998.43	0.1486	1493.51	0.0006	8.73

Source: DGCI & S, KOLKATA

Section VIII

Coal Consumption – A Sectoral Perspective

8.1 Consumption of Coal in India

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

8.1.2 In blast furnace, iron ore, hard coke and limestone are used and hot air is injected into the base of the furnace. The molten iron or hot metal is periodically tapped and sent along with steel scrap and more lime stone to Basic Oxygen Furnace (BOF) to produce almost pure liquid steel. To economise on coking coal consumption, non-coking coal in pulverized 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 carbonization (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 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. That 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 2015-16, the consumption of indigenous coking coal was 5.831 MT and that of imported coking coal was 20.979 MT. The corresponding figures for 2014-15 were 5.661 MT and 21.133 MT respectively. In 2015-16, in case of indigenous coking coal used by integrated steel plants, TISCO accounted for the consumption of 3.367 MT followed by consumption of 2.077 MT by SAIL and 0.387 MT by VSP. In case of consumption of imported coking coal in 2015-16, SAIL, TISCO and VSP accounted for 13.273 MT, 3.636 MT and 4.070 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 and blend ratio.

8.2 Contribution of coal washeries

8.2.1 We have already explained the role of washeries in coal industry. Table 8.3 provides data on coking coal washeries in India in 2015-16. It can be seen that the total capacity of the washeries was 35.90 MTA. The share of public sector coal washeries was 29.70 MTA and the remaining 6.20 MTA was the share of private sector.

8.2.2 Table 8.4 shows performance of coking coal washeries for last three years. It may be seen that the performance has been more or less static in the last three years (2013-14, 2014-15 and 2015-16) with washed coking coal production of 6.614 MT 6.072 MT and 6.179 MT respectively. The corresponding yield percentage was 47%, 44% and 43% respectively.

8.2.3 Table 8.5 provides details of non-coking coal washeries in public sector and private sector and their installed capacities. Table 8.6 records the performance of these washeries for last three years.

8.3 Power Generation Capacity

8.3.1 Table 8.7 shows the details of installed power generating capacity at all India level in 2015-16. It can be seen that the total power generating capacity has increased from 85795 MW as on 31.03.1997 to 302088 MW as on 31.03.2016. In total power generating capacity as on 31-03-2016, mode wise shares are thermal power 210676 MW, hydro power 42783 MW, renewable energy sources 42849 MW and nuclear power 5780 MW.

8.3.2 Table 8.8 shows the gross electricity generation by prime movers for last ten years. It may be seen that the total gross electricity generation in 2015-16 was 1167591 MKWh.

8.4 Cement

8.4.1 Table 8.10 provides details of consumption of coal and fuel in cement sector for the period 2000-01 to 2015-16. As per information available from the Cement Manufacturer's Association of India, it may be observed that in 2015-16, the total consumption of coal (including lignite) in cement sector was 20.70 MT in the form of coal for kilns 11.28 MT, lignite 1.04 MT and pet coke 8.38 MT. The consumption by captive power plant in cement industry was 8.34 MT. However, information regarding the total cement production and the total consumption of coal etc. of the country was not available from the Cement Manufacturer's Association of India. This organization could provide data only in respect of its member companies. Thus data at all India level was not available. The

total receipt of coal including imported coal for cement manufacturing was 20.29 MT.

8.4.2 Table 8.9 provides further details on cement and clinker capacity, production and capacity utilization in the country from the year 2000-01 to 2015-16. However, due to non-availability of data of the country as a whole from Cement Manufacturer's Association since 2012-13, like previous years, state wise details of production, capacity etc. for the year 2015-16 could not be incorporated here. However, for reference, it is reported that in the 2011-12, highest production (34.10 MT) of cement was reported by Rajasthan. This was followed by Andhra Pradesh (29.75 MT), Tamil Nadu (20.97 MT) and Madhya Pradesh (20.54 MT). The cement production over the years has been increasing but the capacity utilization has been fluctuating during these years.

8.5 Some Key indicators for 2015-16

Installed Capacity of Coal Based Power Plants (Utilities) as on 31.03.2016	185173 MW
Electricity generation from coal based power plants in 2015-16	895340 MKWh
Installed capacity of Coking Coal Washeries in 2015-16	35.90 MTA
Production of Washed Coking Coal in 2015-16	6.179 MT
Installed capacity of Non-coking Coal Washeries in 2015-16	137.92 MT
Production of Washed Non-coking Coal in 2015-16	42.888 MT

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

(Quantity in Thousand Tonnes)

PLANT	ITEM	2015-16						2014-15					
		Indigenous			Imported	Total Coking	Boiler Coal	Indigenous			Imported	Total Coking	Boiler Coal
		Prime	Medium	Total				Prime	Medium	Total			
BHILAI (B.S.P.)	Opn. Stock	0	52	52	90	142	68	3	8	11	133	144	56
	Receipt	198	501	699	4251	4950	301	33	539	572	4051	4623	510
	Consumption	149	581	730	4305	5035	324	35	502	537	4287	4824	511
	Cls. Stock	45	11	56	85	141	32	0	52	52	90	142	68
ROURKELA (R.S.P.)	Opn. Stock	3	19	22	74	96	83	2	6	8	65	73	83
	Receipt	138	94	232	2807	3039	1300	217	159	376	2706	3082	1242
	Consumption	123	126	249	2795	3044	1330	218	139	357	2702	3059	1218
	Cls. Stock	15	4	19	73	92	110	3	19	22	74	96	83
DURGAPUR (D.S.P.)	Opn. Stock	2	2	4	35	39	47	2	5	7	43	50	20
	Receipt	265	124	389	1643	2032	812	215	185	400	1613	2013	841
	Consumption	210	182	392	1664	2056	873	208	233	441	1684	2125	849
	Cls. Stock	8	2	10	36	46	34	2	2	4	35	39	47
BOKARO (B.S.L)	Opn. Stock	9	10	19	105	124	73	2	5	7	75	82	41
	Receipt	253	259	512	2907	3419	1933	270	188	458	3078	3536	1941
	Consumption	187	278	465	3148	3613	1869	276	180	456	3155	3611	1906
	Cls. Stock	46	5	51	61	112	103	9	10	19	105	124	73
I.S.P.	Opn. Stock	3	0	3	36	39	9	5	0	5	50	55	1
	Receipt	266	0	266	1428	1694	112	241	0	241	1043	1284	139
	Consumption	241	0	241	1361	1602	128	244	0	244	1092	1336	177
	Cls. Stock	19	0	19	40	59	2	3	0	3	36	39	9
SAIL TOTAL	Opn. Stock	17	83	100	340	440	280	14	24	38	366	404	201
	Receipt	1120	978	2098	13036	15134	4458	976	1071	2047	12491	14538	4673
	Consumption	910	1167	2077	13273	15350	4524	981	1054	2035	12920	14955	4661
	Cls. Stock	133	22	155	295	450	281	17	83	100	340	440	280
T.I.S.CO.	Opn. Stock	-	-	137	1340	1477	-	-	-	103	986	1089	-
	Receipt	-	-	3413	3174	6587	-	-	-	3230	5242	8472	-
	Consumption	-	-	3367	3636	7003	-	-	-	3196	4554	7750	-
	Cls. Stock	-	-	183	878	1061	-	-	-	137	1674	1811	-
V.S.P.	Opn. Stock	0	197	197	398	595	77	0	64	64	214	278	23
	Receipt	0	386	386	4131	4517	1545	0	562	562	3844	4406	1419
	Consumption	0	387	387	4070	4457	1429	0	430	430	3659	4089	1365
	Cls. Stock	0	196	196	458	654	193	0	197	197	398	595	77
GRAND TOTAL	Opn. Stock	17	280	434	2078	2512	357	14	88	205	1566	1771	224
	Receipt	1120	1364	5897	20341	26238	6003	976	1633	5839	21577	27416	6092
	Consumption	910	1554	5831	20979	26810	5953	981	1484	5661	21133	26794	6026
	Cls. Stock	133	218	534	1631	2165	474	17	280	434	2412	2846	357

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

(Quantity in Thousand Tonnes)

Steel Plants	Year	Prime Coking		Medium Coking		Blendable		Imported Coking		Total Coking Coal		Hotmetal Production
		Quantity	Blend Ratio	Quantity	Blend Ratio	Quantity	Blend Ratio	Quantity	Blend Ratio	Quantity	Blend Ratio	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
BSP	2011-12	433	9.9	492	11.3	0	0.0	3428	78.8	4353	100.0	5125
	2012-13	450	11.5	405	10.3	0	0.0	3067	78.2	3922	100.0	5206
	2013-14	352	7.2	536	10.9	0	0.0	4029	81.9	4917	100.0	5377
	2014-15	35	0.7	502	10.4	0	0.0	4287	88.9	4824	100.0	5072
	2015-16	149	3.0	581	11.5	0	0.0	4305	85.5	5035	100.0	5316
BSL	2011-12	378	11.6	341	10.5	0	0.0	2534	77.9	3253	100.0	4012
	2012-13	376	12.1	221	7.1	0	0.0	2502	80.7	3099	100.0	4126
	2013-14	220	7.8	162	5.7	0	0.0	2438	86.5	2820	100.0	4100
	2014-15	276	7.6	180	5.0	0	0.0	3155	87.4	3611	100.0	4253
	2015-16	187	5.2	278	7.7	0	0.0	3148	87.1	3613	100.0	3701
DSP	2011-12	217	12.2	191	10.8	0	0.0	1364	77.0	1772	100.0	2099
	2012-13	308	17.7	122	7.0	0	0.0	1312	75.3	1742	100.0	2241
	2013-14	244	12.6	188	9.7	0	0.0	1508	77.7	1940	100.0	2191
	2014-15	208	9.8	233	11.0	0	0.0	1684	79.2	2125	100.0	2296
	2015-16	210	10.2	182	8.9	0	0.0	1664	80.9	2056	100.0	2170
Rourkela	2011-12	423	18.7	126	5.6	0	0.0	1712	75.7	2261	100.0	2309
	2012-13	449	19.9	130	5.8	0	0.0	1677	74.3	2256	100.0	2365
	2013-14	295	10.3	170	5.9	0	0.0	2400	83.8	2865	100.0	2538
	2014-15	218	7.1	139	4.5	0	0.0	2702	88.3	3059	100.0	3156
	2015-16	123	4.0	126	4.1	0	0.0	2795	91.8	3044	100.0	3042
ISP	2011-12	377	30.0	97	7.7	0	0.0	781	62.2	1255	100.0	451
	2012-13	319	33.9	44	4.7	0	0.0	578	61.4	941	100.0	231
	2013-14	331	23.5	0	0.0	0	0.0	1079	76.5	1410	100.0	220
	2014-15	244	18.3	0	0.0	0	0.0	1092	81.7	1336	100.0	565
	2015-16	241	15.0	0	0.0	0	0.0	1361	85.0	1602	100.0	1430
DPL	2011-12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2012-13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2013-14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2014-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2014-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VSP(RINL) Visakhapatnam	2011-12	0	0.0	507	12.6	0	0.0	3503	87.4	4010	100.0	3778
	2012-13	0	0.0	503	11.2	0	0.0	3996	88.8	4499	100.0	3814
	2013-14	0	0.0	404	10.0	0	0.0	3642	90.0	4046	100.0	3769
	2014-15	0	0.0	430	9.5	0	0.0	4089	90.5	4519	100.0	3780
	2015-16	0	0.0	387	8.7	0	0.0	4070	91.3	4457	100.0	3780
TISCO Jamshedpur	2011-12	830	15.4	2077	38.5	0	0.0	2483	46.1	5390	100.0	7750
	2012-13	907	14.9	2343	38.4	0	0.0	2854	46.8	6104	100.0	8850
	2013-14	1042	14.8	2643	37.6	0	0.0	3341	47.6	7026	100.0	9899
	2014-15	0.0	0.0	0.0	0.0	3196	41.2	4554	58.8	7750	100.0	10163
	2015-16	0.0	0.0	0.0	0.0	3367	48.1	3636	51.9	7003	100.0	10163

TABLE 8.3: COKING COAL WASHERIES IN INDIA DURING 2015-16

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
							15.03
Public	Central Coalfields Ltd.	Kathara	1969	Md. Ckg.	Jharkhand	Bokaro	3.00
		Swang	1970	Md. Ckg.	Jharkhand	Bokaro	0.75
		Rajrappa	1987	Md. Ckg.	Jharkhand	Ramgarh	3.00
		Kedla	1997	Md. Ckg.	Jharkhand	Ramgarh	2.60
		Kargali	1958	Coking	Jharkhand	Bokaro	2.72
							12.07
Public	Western Coalfields Ltd.	Nandan	1984	Md. Ckg.	M.P.	Chhindwara	1.20
Public	All Coal India Ltd.						28.30
Public	Steel Authority of India Ltd.	Chasnala	1969	Coking	Jharkhand	Dhanbad	1.40
Total Public							29.70
Private	Tata Steel Ltd.	W.Bokaro-II	1984	Md. Ckg.	Jharkhand	E. Bokaro	1.80
		W.Bokaro-III	1994	Md. Ckg.	Jharkhand	E. Bokaro	2.10
		Jamadoba	1957	Pr. Ckg.	Jharkhand	Jharia	1.30
		Bhelatand	1995	Pr. Ckg.	Jharkhand	Jharia	1.00
							6.20
Total Private							6.20
Grand Total							35.90

TABLE 8.4: COKING COAL WASHERY PERFORMANCE IN LAST THREE YEARS

(Quantity in Thousand Tonnes)

Year	Owner Company	Raw Coal Feed	Washed Coal	Yield (%)
			Prod.	Washed Coal
(1)	(2)	(3)	(4)	(5)
2015-16	BCCL	2340	599	26
	CCL	3812	1471	39
	WCL	155	81	52
	Total CIL	6307	2151	34
	SAIL	1220	581	48
	Total Public	7527	2732	36
	TSL (Private)	6761	3447	51
	Total Private	6761	3447	51
	Grand Total	14288	6179	43
2014-15	BCCL	1656	387	23
	CCL	3529	1648	47
	WCL	232	75	32
	Total CIL	5417	2110	39
	SAIL	1140	517	45
	Total Public	6557	2627	40
	TSL (Private)	6686	3267	49
	ESCL	420	178	42
	Total Private	7106	3445	48
Grand Total	13663	6072	44	
2013-14	BCCL	2374	953	40
	CCL	2946	1358	46
	WCL	229	120	52
	Total CIL	5549	2431	44
	SAIL	787	408	52
	Total Public	6336	2839	45
	TSL (Private)	7458	3656	49
	ESCL	353	119	34
	Total Private	7811	3775	48
Grand Total	14147	6614	47	

TABLE 8.5: NON COKING COAL WASHERY IN INDIA DURING 2015-16

Sector	Owner Company	Name of Washery	Year of Commissioning	Feed Type	State	Location/ Coal field	Raw Coal Capacity (MTPA)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Public	Bharat Coking Coal Ltd.	Dugda-I	1968	Non-Ckg	Jharkhand	Jharia	1.00	
		Lodna	1955, 1990	Non-Ckg	Jharkhand	Jharia	0.48	
								1.48
	Central Coalfields Ltd.	Gidi	1970	Non-Coking	Jharkhand	E. Bokaro	2.50	
		Piparwar	1997	Non-Coking	Jharkhand	N.Karanpura	6.50	
								9.00
	Northern Coalfields Ltd.	Bina Deshelling	1999	Non-Coking	U.P.	Sonebhadra	4.50	
All Coal India Ltd.							14.98	
Total Public				Non-Coking			14.98	
Private	Adani Enterprises Ltd.	AEL	2012-13	Non-Coking	Chhatisgarh	Parsa	10.00	
	Aryan Coal Benefication (India) Ltd.	Chakabuwa	2004	Non-Coking	Chhatisgarh	Korba	4.00	
		Dipka	1999-2000	Non-Coking	Chhatisgarh	Korba	12.00	
		Pander Pauni	2003-04	Non-Coking	Maharashtra	Bollarpur	3.00	
		Gevra	2007-08	Non-Coking	Chhatisgarh	Korba	5.00	
		Binjhri	2010-11	Non-Coking	Chhatisgarh	Korba	0.96	
		Himgir	2011-12	Non-Coking	Orissa	Hemgir	5.00	
	Aryan Energy Pvt. Ltd.	Indaram			Non-Coking	A.P.	Ramagundam	0.60
		Talcher	2003	Non-Coking	Orissa	Talcher	2.00	
		RKP	2014	Non-Coking	Telangana	Mandamarri	1.00	
	Bhatia International Limited	Wani	2004	Non-Coking	Maharashtra	Wardha	3.73	
		Ghugus	2005	Non-Coking	Maharashtra	Wardha	4.00	
		Jharsuguda	2008	Non-Coking	Orissa	Chhualibera	1.50	
		Pander Pauni	2011	Non-Coking	Maharashtra	Pandherpouni	0.96	
		Bla Industries Pvt. Ltd.	Dharmasthal Coal Project	2004-05	Non-Coking	M.P.	Gadarwara	0.30
	Earth Mineral Co. Ltd.	Jharsuguda	2008	Non-Coking	Orissa	Talcher	4.00	
	Global Coal & Mining Pvt. Ltd	IB Valley	2006	Non-Coking	Orissa	Ib valley	4.00	
		Ramagundam	2004	Non-Coking	A.P.	Ramagundam	1.00	
		Talcher	2002	Non-Coking	Orissa	Talcher	4.00	
		Manuguru	2009	Non-Coking	A.P.	Manuguru	0.96	
		Gupta Coal Field & Washeries Ltd.	Sasti			Non-Coking	Maharashtra	Wardha
	Ramagundam		2001-02	Non-Coking	Maharashtra	Ramagundam	2.40	
	Ghugus		2005-06	Non-Coking	Maharashtra	Wardha	2.40	
	Gondegaon				Non-Coking	Maharashtra	Kamptee	2.40
	Majri		2006-07	Non-Coking	Maharashtra	Wardha	2.40	
	Wani		2001-02	Non-Coking	Maharashtra	Wardha	1.92	
	Jindal Steel & Power Ltd.		Jindal Mine Washery	2002	Non-Coking	Chhatisgarh	Mand Raigarh	6.00
Jindal Power Ltd.	JPL	2013	Non-Coking	Chhatisgarh	Raigarh	4.75		
Indo Unique Flames Ltd	Punwat	2006	Non-Coking	Maharashtra	Wardha	2.40		
	Wani	2003	Non-Coking	Maharashtra	Wardha	2.40		
Kartikay Coal Washeries Pvt Ltd	Wani	2005-06	Non-Coking	Maharashtra	Wardha	2.50		
Sarda Energy & Mineral Division	Karwahi Washery Div.	2011	Non-Coking	Chhatisgarh	Raigarh	0.96		
Spectrum Coal & Power Ltd	Ratija	1999	Non-Coking	Chhatisgarh	Korba	11.00		
Spectrum Coal & Power Ltd	Talcher	2015	Non-Coking	Orissa	Bharatpur	11.00		
Total Private							122.94	
Grand Total							137.92	

TABLE 8.6: PERFORMANCE OF NON COKING COAL WASHERIES IN INDIA FOR LAST THREE FINANCIAL YEARS

(Quantity in Thousand Tonnes)

Year	Company	Raw Coal Feed	Washed Coal Production	Yield (%)
(1)	(2)	(3)	(4)	(5)
2015-16	CCL	9273.20	8652.57	93.31
	NCL	3285.30	3115.04	94.82
	Total CIL	12558.50	11767.61	93.70
	Total Public	12558.50	11767.61	93.70
	ADANI ENTERPRISES LTD.	6209.94	5351.11	86.17
	ARYAN COAL BENEFICATION PVT.LTD.	18111.79	14343.53	79.19
	ARYAN ENERGY PVT. LTD.	1208.76	860.21	71.16
	GLOBAL COAL & MINING PVT. LTD.	2678.16	1833.81	68.47
	JINDAL POWER LIMITED	348.16	259.59	74.56
	SPECTRUM COAL & POWER LTD.	10641.86	8471.98	79.61
	Total Private	39198.67	31120.23	79.39
Grand Total	51757.17	42887.84	82.86	
2014-15	BCCL *	109.00	83.00	76.15
	CCL	7281.00	6689.00	91.87
	NCL	3616.00	3441.00	95.16
	Total CIL	11006.00	10805.00	98.17
	Total Public	11006.00	10805.00	98.17
	ADANI ENTERPRISES LTD.	3442.65	3004.57	87.27
	ARYAN COAL BENEFICATION PVT.LTD.	18989.42	14975.65	78.86
	ARYAN ENERGY PVT. LTD.	600.69	441.52	73.50
	BHATIA COAL WASHERIES LTD.	170.27	112.70	66.19
	B L A INDUSTRIES PVT LTD.	300.03	314.47	104.81
	GLOBAL COAL & MINING PVT. LTD.	2498.20	1808.71	72.40
	JINDAL STEEL & POWER LTD.	5720.39	2171.82	37.97
	JINDAL POWER LIMITED	1788.40	1261.61	70.54
	KARTIKAY COAL WASHERIES PVT. LTD.	57.56	47.51	82.54
SARDA ENERGY & MINERALS LTD.	763.31	317.41	41.58	
SPECTRUM COAL & POWER LTD.	7311.71	5811.13	79.48	
Total Private	41642.63	30267.09	72.68	
Grand Total	52648.63	41072.09	78.01	
2013-14	BCCL *	157	111.00	70.70
	CCL	7497	6930.00	92.44
	NCL	3998	3778.00	94.50
	Total CIL	11652.00	10819.00	92.85
	Total Public	11652.00	10819.00	92.85
	ADANI ENTERPRISES LTD.	1196.76	972.35	81.25
	ARYAN COAL BENEFICATION PVT.LTD.	15206.67	11771.87	77.41
	ARYAN ENERGY PVT. LTD.	385.46	283.59	73.57
	BHATIA COAL WASHERIES LTD.	951.90	576.63	60.58
	B L A INDUSTRIES PVT LTD.	300.09	304.68	101.53
	GLOBAL COAL & MINING PVT. LTD.	56053.25	33314.00	59.43
	JINDAL STEEL & POWER LTD.	5760.00	2094.00	36.35
	JINDAL POWER LIMITED	1791.22	1146.27	63.99
	KARTIKAY COAL WASHERIES PVT. LTD.	13.43	10.59	78.85
SARDA ENERGY & MINERALS LTD.	819.90	328.05	40.01	
Total Private	82478.68	50802.03	61.59	
Grand Total	94130.68	61621.03	65.46	

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 8TH 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 8 th Plan (31.03.97)	21658	54154	6562	294	61010	2225	902	85795
End of 9 th Plan (31.03.2002)	26269	62131	11163	1135	74429	2720	1628	105046
31.03.2003 (Utilities only)	26767	63951	11633	1178	76762	2720	1628	107877
31.03.2004 (Utilities only)	29507	64956	11840	1173	77969	2720	2488	112684
31.03.2005 (Utilities only)	30942	67791	11910	1202	80902	2770	3811	118426
31.03.2006 (Utilities only)	32326	68519	12690	1202	82411	3360	6191	124287
End of 10 th Plan (31.03.2007)	34654	71121	13692	1202	86015	3900	7761	132329
31.03.2009 (Utilities+Non-Utilities)	36989	91466	18497	9950	119913	4120	13617	174639
Utilities	36878	77649	14876	1200	93725	4120	13242	147965
Non-Utilities	111	13817	3621	8750	26188	0	375	26674
31.03.2010 (Utilities+Non-Utilities)	36918	101381	21424	10657	133462	4560	15975	190915
Utilities	36863	84198	17056	1200	102454	4560	15521	159398
Non-Utilities	55	17183	4368	9457	31008	0	454	31517
31.03.2011 (Utilities+Non-Utilities)	37624	113030	22760	10855	146645	4780	19021	208070
Utilities	37567	93918	17706	1200	112824	4780	18455	173626
Non-Utilities	57	19112	5054	9655	33821	0	566	34444
31.03.2012 (Utilities+Non-Utilities)	39038	134638	24266	11155	170059	4780	25375	239252
Utilities	38990	112022	18381	1200	131603	4780	24504	199877
Non-Utilities	48	22616	5885	9955	38456	0	871	39375
31.03.2013 (Utilities+Non-Utilities)	39558	154111	24608	11155	191066	4780	28666	264070
Utilities	39491	130221	20110	1200	151531	4780	27542	223344
Non-Utilities	67	23890	4498	9955	39535	0	1124	40726
31.03.2014 (Utilities+Non-Utilities)	40595	170025	26533	12632	209190	4780	32951	288021
Utilities	40531	145273	21782	1200	168255	4780	31692	245258
Non-Utilities	64	24752	4751	11432	40935	0	1259	42763
31.03.2015 (Utilities+Non-Utilities)	41332	190725	28255	13209	232189	5780	37078	316379
Utilities	41267	164636	23062	1200	188898	5780	35777	271722
Non-Utilities	65	26089	5193	12009	43291	0	1301	44657
31.03.2016 (Utilities+Non-Utilities)	42783	185173	24509	994	210676	5780	42849	302088
Utilities	42783	185173	24509	994	210676	5780	42849	302088
Non-Utilities	NA	NA	NA	NA	NA	NA	NA	NA

Note: Renewable Energy Sources includes Small Hydro Project, Biomass Gasifier, Biomass Power, Urban & Industrial Waste Power Source : Central Electricity Authority.

Table 8.8: Electricity Gross Generation by Prime movers (Million KWh)

Year	Sector	Hydro	Thermal Electricity				Nuclear	Renewable Energy Sources	Grand Total
			Coal based	Gas based	Diesel etc.	Total			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2006-07	Utilities	113502	461794	64157	12399	538350	18802		670654
	Non Utilities	218	56184	15207	10191	81582	0		81800
	Total	113720	517978	79364	22590	619932	18802		752454
2007-08	Utilities	120387	486998	69716	28567	585281	16957		722625
	Non Utilities	202	53569	25585	11121	90275	0		90477
	Total	120589	540567	95301	39688	675556	16957		813102
2008-09	Utilities	110099	511895	71597	32649	616141	14927		722625
	Non Utilities	146	73626	15306	10643	99575	0		90477
	Total	110245	585521	86903	43292	715716	14927		813102
2009-10	Utilities	104060	539587	96373	41195	677155	0		781215
	Non Utilities	152	77416	19739	8826	105981	0		106133
	Total	104212	617003	116112	50021	783136	0		887348
2010-11	Utilities	114416	561298	100342	42426	704066	26266		844748
	Non Utilities	149	96657	15435	8676	120768	0		120917
	Total	114565	657955	115777	51102	824834	26266		965665
2011-12	Utilities	130511	612497	93281	53875	759653	32287		922451
	Non Utilities	131	104863	21972	7422	134257	0		134388
	Total	130642	717360	115253	61297	893910	32287		1056839
2012-13	Utilities	113720	691341	66664	59897	817902	32866		964488
	Non Utilities	118	113167	20769	9956	143892	0		144010
	Total	113838	804508	87433	69853	961794	32866		1108498
2013-14	Utilities	134848	745533	44522	67518	857573	34228		1026649
	Non Utilities	129	118178	19912	10769	148859	0		148988
	Total	134977	863711	64434	78287	1006432	34228		1175637
2014-15	Utilities	129244	835291	41075	75139	951505	36102		1116851
	Non Utilities	145	128401	21135	12376	161912	0		162057
	Total	129389	963692	62210	87515	1113417	36102		1278908
2015-16	Utilities	121377	895340	47122	557	943019	37414	65781	1167591
	Non Utilities	NA	NA	NA	NA	NA	NA	NA	NA
	Total	121377	895340	47122	557	943019	37414	65781	1167591

Source : Central Electricity Authority.

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

Year	All India/ State	Capacity (Mill. Tonnes)	Clinker		Cement Production	Capacity Utilisation(%)
			Production	Ground		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2000-01	All India	121.93	84.45	80.28	93.61	81
2001-02	All India	134.94	88.24	85.92	102.40	79
2002-03	All India	139.38	97.29	91.71	111.35	81
2003-04	All India	145.95	102.68	94.94	117.50	82
2004-05	All India	153.60	109.42	101.74	127.57	84
2005-06	All India	160.00	116.34	110.55	141.81	90
2006-07	All India	167.79	121.75	117.52	155.64	94
2007-08	All India	198.10	129.73	124.19	168.31	94
2007-08	All India	198.10	129.73	124.19	168.31	94
2008-09	All India	221.44	138.78	133.70	181.60	88
2009-10	All India	222.60	128.25	121.21	160.75	83
2010-11	All India	238.40	132.70	126.54	169.00	76
2011-12	All India	244.04	137.23	134.15	180.01	75
2012-13	All India	Data not available from Cement Manufacturers Association of India.				
2013-14	All India					
2014-15	All India					
2015-16	All India					

Source : Cement Manufacturers' Association

TABLE 8.10: CONSUMPTION OF COAL AND FUEL IN CEMENT SECTOR IN 2015-16

(Quantity 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 ¹	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)
2000-01	9.74	0.79	4.40	14.93	0.42	15.35	13.05	0.05	0.37	13.47	1.90	15.37	93.61	14.39	15.95
2001-02	11.09	0.87	3.37	15.33	0.96	16.29	12.82	0.08	0.88	13.78	2.03	15.81	102.40	13.46	15.62
2002-03	12.35	0.77	3.66	16.78	1.09	17.87	14.17	0.00	1.09	15.26	2.57	17.83	111.35	13.70	15.69
2003-04	13.34	1.03	3.18	17.55	1.52	19.07	14.20	0.11	1.41	15.72	3.22	18.94	117.50	13.38	15.31
2004-05	14.84	1.27	3.63	19.74	2.63	22.37	14.92	0.79	1.87	17.58	3.63	21.21	127.57	13.73	16.06
2005-06	14.81	1.55	3.40	19.76	2.98	22.74	15.10	0.82	2.16	18.08	4.31	22.39	141.81	12.75	15.54
2006-07	14.43	2.94	4.96	22.33	2.92	25.25	16.82	0.83	2.09	19.74	5.28	25.02	155.66	12.68	16.00
2007-08	14.56	5.00	6.08	25.64	3.20	28.84	17.99	0.93	2.27	21.19	6.14	27.33	168.31	12.59	16.34
2008-09	14.29	6.17	6.97	27.43	2.77	30.20	19.16	0.36	2.41	21.93	7.64	29.57	181.60	12.07	15.80
2009-10	10.79	4.36	6.95	22.10	4.15	26.25	15.93	0.11	2.86	18.90	6.90	25.80	160.75	11.80	14.70
2010-11	11.91	4.99	8.52	25.42	3.54	28.96	17.63	0.19	1.92	19.74	8.50	28.24	168.29	11.73	14.98
2011-12	10.45	4.51	9.39	24.35	5.45	29.80	14.14	0.75	4.70	19.59	8.71	28.30	180.01	10.88	14.28
2012-13	10.38	3.93	9.27	23.58	5.18	29.82	12.28	1.06	5.18	18.52	8.55	27.07	248.23	N. A.	N. A.
2013-14	9.22	3.92	9.08	22.22	5.96	29.93	12.81	1.75	5.96	20.52	8.33	28.85	255.83	N. A.	N. A.
2014-15	7.71	3.52	10.88	22.11	6.14	29.95	13.21	1.70	6.14	21.05	8.52	29.57	270.24	N. A.	N. A.
2015-16	7.07	2.71	10.51	20.29	8.38	29.70	11.28	1.04	8.38	20.70	8.34	29.04	283.00	N. A.	N. A.

* The data is as provided by CMA only in respect of its Member Companies.

** The ratio mainly relates to Dry process.

Source: Cement Manufacturers' Association.

Section IX

Captive Coal Blocks

Captive Coal Block

9.1.1 In the year 2014-15, by order of Hon'ble Supreme Court of India, allocation of 204 coal blocks were cancelled except Moher, Moher Amlori, Tasra, Pakri-Barwadi Coal Block and 10 UMPP Coal Blocks. As per Coal Mines (Special Provisions) Act, 2015, allocation of Schedule-I coal mines started by way of Public Auction or on the basis of Competitive Bids for Tariff. As on 31.03.2016 reallocation (either vested or allotted) were done in respect of 66 coal blocks. Out these 66 coal blocks, 08 blocks started production. 02 more blocks given to CIL as Custodian had started production. Moher, Moher Amlori was already continuing production. In 2015-16, production from those Captive Coal Blocks was 31.101 MT.

9.1.2 The policy of the allotment of Captive Coal Blocks was adopted by the Government of India in the year 1993 and as per this policy by the end of 2013-14, out of total allocated 218 coal blocks, 80 coal blocks were de-allocated. Thus at the end of 2013-14, 138 coal blocks and 28 lignite blocks remained allocated under the category of Captive Coal Block. During the year 2014-15 by virtue of judgment dated 25.08.2014 read with the order dated 24.09.2014 of the Hon'ble Supreme Court of India, out of 218 captive coal blocks, allocation of 204 coal blocks were cancelled except allocation of 12 coal blocks for UMPPs and one coal block each allocated to NTPC and SAIL.

9.1.3 Further, allocation of four coal blocks for UMPPs, namely, Chhatrasal coal block cancelled on 07.05.2015 and Meenakshi, Meenakshi B and Dip side of Meenakshi blocks of UMPP cancelled on 15.12.2015. As such as on date 10 coal blocks allocated through earlier dispensations stand allocated.

9.1.4 Subsequent to the order of the Hon'ble Supreme Court of India, 42 nos. of producing coal blocks [Schedule II coal mines as per the Coal Mines (Special Provisions) Ordinance, 2014 replaced by the Coal Mines (Special Provision) Act, 2015] were allowed to produce coal up to 31.03.2015. Thus total number of blocks stand allocated from 25.09.2014 to 31.03.2015 was 52 [42 + 10 earlier coal blocks].

9.1.5 As per Coal Mines (Special Provisions) Act, 2015, allocation of Schedule-I coal mines started by way of Public Auction or on the basis of Competitive Bids for Tariff. Up to 31.03.2016 re-allocation (either vested or allotted) was done in respect of 66 coal blocks. 07 nos. of coal blocks have been given to Coal India Limited and 01 block has been given to OCL Iron & Steel Ltd as Custodian, but only 02 blocks (Gare Palma IV/2 & 3) have started production.

9.1.6 In 2015-16, Moher, Moher Amlori block which was not cancelled continued production, 08 coal blocks vested/allotted started production and 02 blocks under custodian of CIL also started production. From these 12 coal blocks, the production of coal is 31.101 MT in 2015-16.

9.1.7 Under the "Auction by Competitive Bidding Rules, 2012", 10 regionally explored coal blocks have been allotted to Central/State Government companies.

9.1.8 Therefore, as on 31.03.2016, numbers of coal blocks stand exist as 94 (vested/allotted -66 + Custodian - 08 + Under Auction by Competitive Bidding Rules, 2012-10 and blocks not cancelled-10)

TABLE 9.1: SUMMARY OF ALLOCATION OF COAL BLOCKS STAND ALLOCATED/ VESTED/UNDER CUSTODIAN/ ALLOTTED UNDER AUCTION BY COMPETITIVE BIDDING RULES, 2012 & LIGNITE BLOCKS STAND ALLOCATED DURING 2015-16

Sector	End Use	No of blocks	Geological/Extractable Reserves (Qty. in MT)
(1)	(2)	(3)	(4)
A. COAL BLOCKS			
Public Sector Undertakings	Power	37	7926.38
	Commercial Mining	7	364.86
	Non Regulated Sector	3	322.78
	Power (Auction by Competitive Bidding Rules, 2012)	10	NA
	TOTAL	57	8614.02
Private Companies	Power	6	318.45
	UMPP	8	3730.54
	Non Regulated Sector	23	586.59
	TOTAL	37	4635.58
ALL INDIA	Power	43	8244.83
	Commercial Mining	7	364.86
	UMPP	8	3730.54
	Non Regulated Sector	26	909.37
	Power (Auction by Competitive Bidding Rules, 2012)	10	NA
	TOTAL	94	13249.60
B. LIGNITE BLOCKS			
State PSU	Power	10	1033.30
	Commercial	9	462.40
	Subtotal	19	1495.70
Private	Power	5	99.60
	Commercial	1	7.80
	Subtotal	6	107.40
ALL INDIA	Power	15	1132.9
	Commercial	10	470.2
	Grand Total	25	1603.10

Note : NRS: Non Regulated Sector
GR quantities are GR value as available with this office and subject to change for few blocks with approval of Mine Plan. Extractable Reserve (in MT) have been shown against the newly Allocated/Vested coal blocks as per CM(SP) Act, 2015, as per the data available in this office. For other blocks, original GR have been shown as per available data.

Table 9.2: Yearwise and Sectorwise Allotment of Captive Coal Blocks stand allocated/vested Under Custodian excluding blocks allotted under auction by Competitive Bidding Rules, 2012 during 2015-16

(GR in Million Tonnes)

Year of Allotment	Power		Ultra Mega Power Project		Non Regulated Sector		Govt. Commercial		Total	
	Coal Blocks (No.)	Geological/Extractable Reserves	Coal Blocks (No.)	Geological/Extractable Reserves	Coal Blocks (No.)	Geological/Extractable Reserves	Coal Blocks (No.)	Geological/Extractable Reserves	Coal Blocks (No.)	Geological/Extractable Reserves
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(14)	(15)
1996					1	251.88			1	251.88
1998									0	0.00
2004	1	1436.00							1	1436.00
2006			2	575.00					2	575.00
2007			1	916.52					1	916.52
2008			1	100.00					1	100.00
2009			3	1339.02					3	1339.02
2010			1	800.00					1	800.00
2015	42	6808.83			24	606.51	7	364.86	73	7780.20
2016					1	50.98			1	50.98
Total	43	8244.83	8	3730.54	26	909.37	7	364.86	84	13249.60

GR=Geological Reserves as estimated during allocation.

Note :

GR quantities are GR value as available with this office and subject to change for few blocks with approval of Mine Plan. Extractable Reserve (in MT) have been shown against the newly Allocated/Vested coal blocks as per CM(SP) Act, 2015, as per the data available in this office. For other blocks, original GR have been shown as per available data.

TABLE 9.3: STATEWISE AND SECTORWISE ALLOTMENT OF CAPTIVE COAL BLOCKS STAND ALLOCATED/VESTED/ UNDER CUSTODIAN EXCLUDING BLOCKS ALLOTTED UNDER AUCTION BY COMPETITIVE BIDDING RULES, 2012 DURING 2015-16

(GR in Million Tonnes)

State	Power		Ultra Mega Power Project		Non Regulated Sector		Govt. Commercial		Total	
	Coal Blocks (No.)	Geological/Extractable Reserves	Coal Blocks (No.)	Geological/Extractable Reserves	Coal Blocks (No.)	Geological/Extractable Reserves	Coal Blocks (No.)	Geological/Extractable Reserves	Coal Blocks (No.)	Geological/Extractable Reserves
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Arunachal Pradesh							1	4.79	1	4.79
Andhra Pradesh	1	45.36							1	45.36
Chhattisgarh	9	2737.55	2	1113.67	5	172.05	3	336.86	19	4360.13
Jharkhand	13	4504.33	2	1141.87	10	469.91			25	6116.11
Maharashtra	6	90.35	1	100.00	5	46.04	1	11.54	13	247.93
Madhya Pradesh			2	575.00	5	202.44	2	11.67	9	789.11
Orissa	5	584.96	1	800.00					6	1384.96
West Bengal	9	282.28			1	18.93			10	301.21
Total	43	8244.83	8	3730.54	26	909.37	7	364.86	84	13249.60

Note.

GR quantities are GR value as available with this office and subject to change for few blocks with approval of Mine Plan. Extractable Reserve (in MT) have been shown against the newly Allocated/Vested coal blocks as per CM(SP) Act, 2015, as per the data available in this office. For other blocks, original GR have been shown as per available data.

TABLE 9.4: LIST OF COAL BLOCKS UNDER CUSTODIAN DURING 2015-16

Sl.No.	Block allocated	No. of blocks	State where the block is located	Geological/Extractable Reserves (in MT)	Name of the party	Type of Company (PSU(S)/ PSU(C)/ Private)	End –Use Plant
(1)	(2)	(3)	(4)	(5)	(7)	(8)	(9)
1	Namchik Namphuk	1	ARP	4.79	Chairman, CIL (Custodian)	PSU(C)	Commercial
2-3	Gare-Palma-IV/2 & IV/3	2	CH	178.86	Chairman, CIL (Custodian)	PSU(C)	Commercial
4	Gare-Palma-IV/1	1	CH	158.00	Chairman, CIL (Custodian)	PSU(C)	Commercial
TOTAL CHHATTISGARH		3		336.86			
5	Marki Mangli-II	1	MH	11.54	Chairman, CIL (Custodian)	PSU(C)	Commercial
6	Gotitoria (East)	1	MP	5.146	Chairman, CIL (Custodian)	PSU(C)	Commercial
7	Gotitoria (West)	1	MP	6.527	Chairman, CIL (Custodian)	PSU(C)	Commercial
TOTAL MADHYAPRADESH		2		11.67			
8	Ardhagram	1	WB	18.93	DC-OCL IRON AND STEEL LTD.	P	NRS
TOTAL		8		383.793			

NOTE :- GR quantities are GR value as available with this office and subject to change for few blocks with approval of Mine Plan. Extractable Reserve (in MT) have been shown against the newly Allocated/Vested coal blocks as per CM(SP) Act, 2015, as per the data available in this office. For other blocks, original GR have been shown as per available data.

TABLE 9.5: COAL BLOCKS ALLOTTED UNDER AUCTION BY COMPETITIVE BIDDING RULES, 2012

Sl. No.	Name of block	State	Name of Successful Bidder/Allottee	Allotted/ Vested	Specified EUP
(1)	(2)	(3)	(4)	(5)	(6)
1	Kente Extn	Orissa	Rajasthan Rajya Vidyut Utpadan Nigam Ltd	Allotted	Power
2	Tentuloi	Orissa	Odisha Thermal Power Corp Ltd	Allotted	Power
3	Gondbahera-Ujjeni	Orissa	Madhya Pradesh Power Generation Corp Ltd	Allotted	Power
4	Kudanali-Luburi	Orissa	NTPC Ltd & CPSU & Jammu & Kashmir State Power Development Corp Ltd	Allotted	Power
5	Banai	Orissa	NTPC Ltd	Allotted	Power
6	Bhalumuda	Orissa	NTPC Ltd	Allotted	Power
7	Sarapal-Nuapara	Orissa	Andhra Pradesh Power Generation Corp Ltd	Allotted	Power
8	Chandrabila	Orissa	Tamil Nadu Generation & Distribution Corp Ltd	Allotted	Power
9	Mahajanwadi	Orissa	Madhya Pradesh Power Generation Corp Ltd	Allotted	Power
10	Kalyanpur-Badalpara	Orissa	Haryana Power Generation Corp Ltd	Allotted	Power

TABLE 9.6: LIST OF COAL BLOCKS NOT CANCELLED BY HON'BLE SUPREME COURT

Sl.No.	Block allocated	No. of blocks	State where the block is located	Geo-logical Reserves (in MT)	Date of Allotment	Name of the party	Type of Company (PSU(S)/PSU/private)	End –Use Plant
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	Pindrakhi	1	CH	421.51	09.09.09	Akaltara Power Ltd.	P	UMPP
2	Putra Parogia	1	CH	692.16	09.09.09	Akaltara Power Ltd.	P	UMPP
TOTAL CHHATTISGARH UMPP		2		1113.67				
3	Pakri-Barwadih	1	JH	1436.00	11.10.04	NTPC	PSU(C)	Power
TOTAL JHARKHAND POWER		1		1436.00				
4	Tasra	1	JH	251.88	26.02.96	Steel Authority of India Ltd.	PSU(C)	NRS
TOTAL JHARKHAND NRS		1		251.88				
5	Kerandari BC	1	JH	916.52	20.07.07	Power Finance Corporation Talaiy UMPP Jharkhand	P	UMPP
6	Mourya	1	JH	225.35	26.06.09	Karanpura Energy Ltd.(SPV of JSEB)	P	UMPP
TOTAL JHARKHAND UMPP		2		1141.87				
7	Bhivkund	1	MH	100.00	17.07.08	MAHAGENCO	P	UMPP
TOTAL MAHARASHTRA UMPP		1		100.00				
8-9	Moher, Moher-Amlori Extn.	2	MP	575.00	13.09.06	Power Finance Corporation Sasan UMPP	P	UMPP
TOTAL MADHYAPRADESH UMPP		2		575.00				
10	Bankui	1	OR	800.00	21.06.10	Sakshigopal Integrated Power Co Ltd.	P	UMPP
TOTAL ORISSA UMPP		1		800.00				
TOTAL		10		5418.42				

Note: GR quantities are GR value as available with this office (as per MP/Status Report/Allocation letter etc.) and subject to change for few blocks with approval of Mine Plan.

TABLE 9.7: STATEWISE LIST OF SCHEDULE - II AND SCHEDULE - III CAPTIVE COAL BLOCKS STAND VESTED/ALLOCATED DURING 2015-16

Sl.No.	Block allocated	Schedule	No. of blocks	State where the block is located	Extractable Reserves (in MT)	Date of Allotment	Mode of allocation	Name of the party	Type of Company (PSU(S)/P SU@/ Private)	End –Use Plant
(1)	(2)	(3)	(4)	(5)	(6)	(8)	(9)	(10)	(11)	(12)
1	Tadicherla-I	III	1	Telangana	45.36	31.08.15	Allotted	Telangana State Power Generation Corpn. Ltd.	PSU(S)	Power
TOTAL TELANGANA POWER			1		45.36					
2	Gare Palma Sector-I	III	1	CH	194.00	14.09.15	Allotted	Gujarat State Electricity Corporation Limited	PSU(S)	Power
3	Talaipalli	III	1	CH	861.25	08.09.15	Allotted	NTPC Ltd.	PSU(C)	Power
4-5	Gidhmuri & Paturia	III	2	CH	257.83	13.10.15	Allotted	Chhattisgarh State Power Generation Co Ltd	PSU(S)	Power
6	Parsa	III	1	CH	184.26	08.09.15	Allotted	Rajasthan Rajya Vidyut Utpadan Nigam Ltd	PSU(S)	Power
7	Gare Pelma Sector II	III	1	CH	655.15	31.08.15	Allotted	Maharashtra State Power Generation Co Ltd	PSU(S)	Power
8-9	Parsa East & Kanta Basan	II	2	CH	450.97	31.03.15	Allotted	Rajasthan Rajya Vidyut Utpadan Nigam Ltd	PSU(S)	Power
10	Gare Palma Sector-III	III	1	CH	134.09	14.09.15	Allotted	Chhattisgarh State Power Generation Co Ltd	PSU(S)	Power
TOTAL CHHATTISGARH POWER			9		2737.55					
11	Gare-Palma- IV/4	II	1	CH	12.30	23.03.15	Vested	Hindalco Industries Ltd.	P	NRS
12	Gare-Palma-IV/7	II	1	CH	52.98	23.03.15	Vested	Monnet Ispat & Energy Limited	P	NRS
13	Gare-Palma-IV/5	II	1	CH	42.43	23.03.15	Vested	Hindalco Industries Ltd.	P	NRS
14	Chotia	II	1	CH	18.49	23.03.15	Vested	Bharat Aluminium Company Ltd.	P	NRS
15	Gare Palma IV/8	III	1	CH	45.85	22.04.15	Vested	Ambuja Cements Ltd.	P	NRS
TOTAL CHHATTISGARH NRS			5		172.05					
16	Tokisud North	II	1	JH	51.97	23.03.15	Vested	Essar Power MP Ltd.	P	Power
17	Jitpur	III	1	JH	65.54	22.04.15	Vested	Adani Power Ltd.	P	Power
18	Ganeshpur	III	1	JH	91.80	22.04.15	Vested	GMR Chhattisgarh Energy Ltd.	P	Power
19-20	Chattii Bariatu, Chattii Bariatu South	III	2	JH	390.96	08.09.15	Allotted	NTPC Ltd.	PSU(C)	Power
21	Saharpur Jamarpani	III	1	JH	524.00	13.08.15	Allotted	UP Rajya Vidyut Utpadan Nigam Ltd.	PSU(C)	Power
22	Pachwara Central	II	1	JH	239.75	31.03.15	Allotted	Punjab State Power Corp. Ltd.	PSU(S)	Power
23	Badam	III	1	JH	90.50	31.08.15	Allotted	Bihar State Power Generation Co. Ltd.	PSU(S)	Power
24	Pachwara North	II	1	JH	392.75	31.03.15	Allotted	WBPDCL	PSU(S)	Power
25	Rajbar E&D	III	1	JH	526.05	30.06.15	Allotted	Tenughat Vidyut Nigam Limited (TVNL)	PSU(S)	Power
26	Banhardih	III	1	JH	553.00	30.06.15	Allotted	Jharkhand Urja Utpadan Nigam Ltd.	PSU(S)	Power
27	Kerandari	III	1	JH	142.01	08.09.15	Allotted	NTPC Ltd.	PSU(C)	Power
TOTAL JHARKHAND POWER			12		3068.33					
28	Moitra	III	1	JH	29.91	22.04.15	Vested	JSW Steel Ltd.	P	NRS
29-30	Brinda & Sasai	III	2	JH	25.40	22.04.15	Vested	Usha Martin Ltd	P	NRS
31	Meral	III	1	JH	12.67	22.04.15	Vested	Trimula Industries Ltd.	P	NRS
32	Parbatpur Central	II	1	JH	50.98	23.03.16	Allotted	Steel Authority of India Ltd	PSU(C)	NRS

Contd....

TABLE 9.7: STATEWISE LIST OF SCHEDULE - II AND SCHEDULE - III CAPTIVE COAL BLOCKS STAND VESTED/ALLOCATED DURING 2015-16

Sl.No.	Block allocated	Schedule	No. of blocks	State where the block is located	Extractable Reserves (in MT)	Date of Allotment	Mode of allocation	Name of the party	Type of Company (PSU(S)/P SU@/ Private)	End –Use Plant
(1)	(2)	(3)	(4)	(5)	(6)	(8)	(9)	(10)	(11)	(12)
33	Lohari		1	JH	9.05	22.04.15	Vested	Araanya Mines Private Ltd.	P	NRS
34	Kathautia	II	1	JH	23.96	23.03.15	Vested	Hindalco Industries Ltd.	P	NRS
35	Dumri	III	1	JH	46.14	22.04.15	Vested	Hindalco Industries Ltd.	P	NRS
36	Sitanala	III	1	JH	19.92	31.08.15	Allotted	Steel Authority of India Ltd.	PSU(C)	NRS
TOTAL JHARKHAND NRS			9		218.03					
37-42	Baranj – I, II, III, IV, Kiloni & Manora Deep	II	6	MH	90.35	31.03.15	Allotted	Karnataka Power Corporation Ltd	PSU(S)	Power
TOTAL MAHARASHTRA POWER			6		90.35					
43	Marki Mangli III	II	1	MH	3.58	17.04.15	Vested	B.S. Ispat Ltd.	P	NRS
44	Nerad Malegaon	III	1	MH	10.62	22.04.15	Vested	Indrajit Power Pvt. Ltd.	P	NRS
45	Marki Mangli-I	II	1	MH	9.78	30.09.15	Vested	Topworth Urja and Metals Ltd.	P	NRS
46	Belgaon	II	1	MH	7.14	23.03.15	Vested	Sunflag Iron and Steel Co. Ltd	P	NRS
47	Majra	III	1	MH	14.92	30.09.15	Vested	Jaypee Cement Corporation Ltd.	P	NRS
TOTAL MAHARASHTRA NRS			5		46.04					
48	Sial Ghogri	II	1	MP	5.69	23.03.15	Vested	Reliance Cement Company Pvt. Ltd.	P	NRS
49	Mandla North	II	1	MP	84.00	23.03.15	Vested	Jaiprakash Associates Ltd	P	NRS
50	Amelia (North)	II	1	MP	70.28	23.03.15	Vested	Jaiprakash Power Ventures Ltd.	P	NRS
51	Bicharpur	II	1	MP	29.12	23.03.15	Vested	UltraTech Cement Ltd.	P	NRS
52	Mandla South	III	1	MP	13.35	22.04.15	Vested	Jaypee Cement Corporation Ltd.	P	NRS
TOTAL MADHYAPRADESH NRS			5		202.44					
53	Talabira-I	II	1	Orissa	10.79	23.03.15	Vested	GMR Chhattisgarh Energy Ltd.	P	Power
54	Dulanga	III	1	Orissa	152.05	08.09.15	Allotted	NTPC Ltd.	PSU(C)	Power
55-56	Manoharpur & Dipside of Manoharpur	III	2	Orissa	152.12	31.08.15	Allotted	Odisha Coal & Power Ltd.	PSU(S)	Power
57	Naini	III	1	Orissa	270.00	13.08.15	Allotted	The Singareni Collieries Co. Ltd.	PSU(C)	Power
TOTAL ORISSA POWER			5		584.96					
58	Trans Damodar	II	1	WB	47.32	23.03.15	Vested	The Durgapur Projects Ltd.	P	Power
59	Sarshatolli	II	1	WB	51.03	23.03.15	Vested	CESC Ltd.	P	Power
60	Barjora (North)	II	1	WB	56.57	31.03.15	Allotted	WBPDC	PSU(C)	Power
61	Khagra Joydev	II	1	WB	103.80	31.03.15	Allotted	Damodar Valley Corporation	PSU(C)	Power
62-63	Tara (East) and Tara (West)	II	2	WB	11.06	31.03.15	Allotted	WBPDC	PSU(S)	Power
64-65	Gangaramchak & Gangaramchak Bhadulia	II	2	WB	11.05	31.03.15	Allotted	WBPDC	PSU(S)	Power
66	Barjora	II	1	WB	1.45	31.03.15	Allotted	WBPDC	PSU(S)	Power
TOTAL WEST BENGAL POWER			9		282.28					
TOTAL			66		7447.39					

Note.

GR quantities are GR value as available with this office and subject to change for few blocks with approval of Mine Plan. Extractable Reserve (in MT) have been shown against the newly Allocated/Vested coal blocks as per CM(SP) Act, 2015, as per the data available in this office. For other blocks, original GR have been shown as per available data.

TABLE 9.8: SECTORWISE LIST OF SCHEDULE - II AND SCHEDULE - III CAPTIVE COAL BLOCKS STAND VESTED/ALLOCATED DURING 2015-16

Sl.No.	Block allocated	Schedule	No. of blocks	State where the block is located	Extractable Reserves (in MT)	Date of Allotment	Mode of allocation	Name of the party	Type of Company (PSU(S) /PSU(C)/ Private)	End -Use Plant
(1)	(2)	(3)	(4)	(5)	(6)	(8)	(9)	(10)	(11)	(12)
1	Gare-Palma- IV/4	II	1	CH	12.30	23.03.15	Vested	Hindalco Industries Ltd.	P	NRS
2	Gare-Palma-IV/7	II	1	CH	52.98	23.03.15	Vested	Monnet Ispat & Energy Limited	P	NRS
3	Gare-Palma-IV/5	II	1	CH	42.43	23.03.15	Vested	Hindalco Industries Ltd.	P	NRS
4	Chotia	II	1	CH	18.49	23.03.15	Vested	Bharat Aluminium Company Ltd.	P	NRS
5	Gare Palma IV/8	III	1	CH	45.85	22.04.15	Vested	Ambuja Cements Ltd.	P	NRS
6	Moitra	III	1	JH	29.91	22.04.15	Vested	JSW Steel Ltd.	P	NRS
7-8	Brinda & Sasai	III	2	JH	25.40	22.04.15	Vested	Usha Martin Ltd	P	NRS
9	Meral	III	1	JH	12.67	22.04.15	Vested	Trimula Industries Ltd.	P	NRS
10	Lohari		1	JH	9.05	22.04.15	Vested	Araanya Mines Private Ltd.	P	NRS
11	Kathautia	II	1	JH	23.96	23.03.15	Vested	Hindalco Industries Ltd.	P	NRS
12	Dumri	III	1	JH	46.14	22.04.15	Vested	Hindalco Industries Ltd.	P	NRS
13	Marki Mangli III	II	1	MH	3.58	17.04.15	Vested	B.S. Ispat Ltd.	P	NRS
14	Nerad Malegaon	III	1	MH	10.62	22.04.15	Vested	Indrajit Power Pvt. Ltd.	P	NRS
15	Marki Mangli-I	II	1	MH	9.78	30.09.15	Vested	Topworth Urja and Metals Ltd.	P	NRS
16	Belgaon	II	1	MH	7.14	23.03.15	Vested	Sunflag Iron and Steel Co. Ltd	P	NRS
17	Majra	III	1	MH	14.92	30.09.15	Vested	Jaypee Cement Corporation Ltd.	P	NRS
18	Sial Ghogri	II	1	MP	5.69	23.03.15	Vested	Reliance Cement Company Pvt. Ltd.	P	NRS
19	Mandla North	II	1	MP	84.00	23.03.15	Vested	Jaiprakash Associates Ltd	P	NRS
20	Amelia (North)	II	1	MP	70.28	23.03.15	Vested	Jaiprakash Power Ventures Ltd.	P	NRS
21	Bicharpur	II	1	MP	29.12	23.03.15	Vested	UltraTech Cement Ltd.	P	NRS
22	Mandla South	III	1	MP	13.35	22.04.15	Vested	Jaypee Cement Corporation Ltd.	P	NRS
TOTAL PRIVATE NRS			22		567.66					
23	Tokisud North	II	1	JH	51.97	23.03.15	Vested	Essar Power MP Ltd.	P	Power
24	Jitpur	III	1	JH	65.54	22.04.15	Vested	Adani Power Ltd.	P	Power
25	Ganeshpur	III	1	JH	91.80	22.04.15	Vested	GMR Chhattisgarh Energy Ltd.	P	Power
26	Talabira-I	II	1	Orissa	10.79	23.03.15	Vested	GMR Chhattisgarh Energy Ltd.	P	Power
27	Trans Damodar	II	1	WB	47.32	23.03.15	Vested	The Durgapur Projects Ltd.	P	Power
28	Sarshatolli	II	1	WB	51.03	23.03.15	Vested	CESC Ltd.	P	Power
TOTAL PRIVATE POWER			6		318.45					

Contd...

TABLE 9.8: SECTORWISE LIST OF SCHEDULE - II AND SCHEDULE - III CAPTIVE COAL BLOCKS STAND VESTED/ALLOCATED DURING 2015-16

Sl.No.	Block allocated	Schedule	No. of blocks	State where the block is located	Extractable Reserves (in MT)	Date of Allotment	Mode of allocation	Name of the party	Type of Company (PSU(S) /PSU(C)/ Private)	End -Use Plant
(1)	(2)	(3)	(4)	(5)	(6)	(8)	(9)	(10)	(11)	(12)
29	Parbatpur Central	II	1	JH	50.98	23.03.16	Allotted	Steel Authority of India Ltd	PSU(C)	NRS
30	Sitanala	III	1	JH	19.92	31.08.15	Allotted	Steel Authority of India Ltd.	PSU(C)	NRS
TOTAL PSU NRS			2		70.90					
31	Talaipalli	III	1	CH	861.25	08.09.15	Allotted	NTPC Ltd.	PSU(C)	Power
32-33	Chatti Bariatu, Chatti Bariatu South	III	2	JH	390.96	08.09.15	Allotted	NTPC Ltd.	PSU(C)	Power
34	Saharpur Jamarpani	III	1	JH	524.00	13.08.15	Allotted	UP Rajya Vidyut Utpadan Nigam Ltd.	PSU(C)	Power
35	Dulanga	III	1	Orissa	152.05	08.09.15	Allotted	NTPC Ltd.	PSU(C)	Power
36	Naini	III	1	Orissa	270.00	13.08.15	Allotted	The Singareni Collieries Co. Ltd.	PSU(C)	Power
37	Barjora (North)	II	1	WB	56.57	31.03.15	Allotted	WBPDCL	PSU(C)	Power
38	Khagra Joydev	II	1	WB	103.80	31.03.15	Allotted	Damodar Valley Corporation	PSU(C)	Power
39	Tadicherla-I	III	1	Telangana	45.36	31.08.15	Allotted	Telangana State Power Generation Corpn. Ltd.	PSU(S)	Power
40	Gare Palma Sector-I	III	1	CH	194.00	14.09.15	Allotted	Gujarat State Electricity Corporation Limited	PSU(S)	Power
41-42	Gidhmuri & Paturia	III	2	CH	257.83	13.10.15	Allotted	Chhattisgarh State Power Generation Co Ltd	PSU(S)	Power
43	Parsa	III	1	CH	184.26	08.09.15	Allotted	Rajasthan Rajya Vidyut Utpadan Nigam Ltd	PSU(S)	Power
44	Gare Pelma Sector II	III	1	CH	655.15	31.08.15	Allotted	Maharashtra State Power Generation Co Ltd	PSU(S)	Power
45-46	Parsa East & Kanta Basan	II	2	CH	450.97	31.03.15	Allotted	Rajasthan Rajya Vidyut Utpadan Nigam Ltd	PSU(S)	Power
47	Gare Palma Sector-III	III	1	CH	134.09	14.09.15	Allotted	Chhattisgarh State Power Generation Co Ltd	PSU(S)	Power
48	Pachwara Central	II	1	JH	239.75	31.03.15	Allotted	Punjab State Power Corp. Ltd.	PSU(S)	Power
49	Badam	III	1	JH	90.50	31.08.15	Allotted	Bihar State Power Generation Co. Ltd.	PSU(S)	Power
50	Pachwara North	II	1	JH	392.75	31.03.15	Allotted	WBPDCL	PSU(S)	Power
51	Rajbar E&D	III	1	JH	526.05	30.06.15	Allotted	Tenughat Vidyut Nigam Limited (TVNL)	PSU(S)	Power
52	Banhardih	III	1	JH	553.00	30.06.15	Allotted	Jharkhand Urja Utpadan Nigam Ltd.	PSU(S)	Power
53-58	Baranj - I, II, III, IV, Kiloni & Manora Deep	II	6	MH	90.35	31.03.15	Allotted	Karnataka Power Corporation Ltd	PSU(S)	Power
59-60	Manoharpur & Dipside of Manoharpur	III	2	Orissa	152.12	31.08.15	Allotted	Odisha Coal & Power Ltd.	PSU(S)	Power
61-62	Tara (East) and Tara (West)	II	2	WB	11.06	31.03.15	Allotted	WBPDCL	PSU(S)	Power
63-64	Gangaramchak & Gangaramchak Bhadulia	II	2	WB	11.05	31.03.15	Allotted	WBPDCL	PSU(S)	Power
65	Barjore	II	1	WB	1.45	31.03.15	Allotted	WBPDCL	PSU(S)	Power
66	Kerandari	III	1	JH	142.01	08.09.15	Allotted	NTPC Ltd.	PSU(C)	Power
TOTAL PSU POWER			36		6490.38					
ALL TOTAL			66		7447.39					

Note.

GR quantities are GR value as available with this office and subject to change for few blocks with approval of Mine Plan. Extractable Reserve (in MT) have been shown against the newly Allocated/Vested coal blocks as per CM(SP) Act, 2015, as per the data available in this office. For other blocks, original GR have been shown as per available data.

**TABLE 9.9: 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. Commercial		Private Comm & Cements		Total	
		No. of Coal Blocks	Production (Mill. Tonnes)	No. of Coal Blocks	Production (Mill. Tonnes)	No. of Coal Blocks	Production (Mill. Tonnes)	No. of Coal Blocks	Production (Mill. Tonnes)	No. of Coal Blocks	Production (Mill. Tonnes)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1997-98	Achievement	2	0.71							2	0.71
1998-99		2	1.79	1	0.04					3	1.83
1999-00		2	2.17	1	0.78					3	2.95
2000-01		2	2.41	1	1.42					3	3.83
2001-02		2	2.91	1	1.55					3	4.46
2002-03		3	3.40	1	2.12					4	5.52
2003-04		4	5.36	1	2.47					5	7.83
2004-05		4	6.92	2	3.09			2	0.10	8	10.11
2005-06		5	7.58	2	5.76			2	0.28	9	13.62
2006-07		5	10.07	4	7.32			2	0.22	11	17.61

XI th Five Year Plan

2007-08	Target 1	13	13.90	4	8.05	1	0.20	2	0.33	28	22.48
2007-08	Achvmt	7	12.83	5	8.01	1	0.08	2	0.33	15	21.25
2008-09	Target 1	20	22.53	14	11.21	3	1.65	3	0.33	58	35.72
2008-09	Achvmt	14	21.25	8	8.39	1	0.14	2	0.24	25	30.01
2009-10	Target 1	30	24.90	37	19.04	6	2.85	2	0.30	77	47.09
2009-10	Achvmt	14	25.735	11	9.475	1	0.25			26	35.46
2010-11	Target 1	33	35.80	41	31.20	8	5.70	2	0.30	86	73.00
2010-11	Target 2	15	25.50	9	9.64	1	0.20	2	0.30	27	35.64
2010-11	Achvmt	15	24.36	10	9.27	1	0.30	2	0.30	28	34.22
2011-12	Target 1	42	54.28	41	41.30	8	8.20	2	0.30	93	104.08
2011-12	Target 2	18	27.30	16	10.35	2	0.30	2	0.30	38	38.25
2011-12	Achvmt	15	25.82	11	9.83	1	0.22	2	0.30	29	36.17

XII th Five Year Plan

2012-13	Target	17	26.80	17	11.10	3	1.00	2	0.30	39	39.20
2012-13	Achvmt	19	25.59	13	10.72	2	0.42	2	0.30	36	37.04
2013-14	Target	20	28.25	21	12.16	4	0.57	3	0.30	48	41.28
2013-14	Achvmt	22	26.81	13	11.64	3	0.73	2	0.30	40	39.49
2014-15	Target	25	37.87	14	12.69	3	1.01	4	0.30	46	51.87
2014-15	Achvmt	22	37.927	13	11.954	3	2.541	2	0.30	40	52.72

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

Year	Target / Achievement	Power		Non Regulated Sector		Govt. Commercial		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)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2015-16	Target	6	22.70	5	3.27	2	2.00	13	27.97
2015-16	Achvmt	6	25.669	4	3.154	2	2.278	12	31.101

Note: Target refers to CCO Estimate done in Feb 2016.

Table - 9.10 : LIGNITE BLOCKS STAND ALLOCATED TILL 31/03/2016

Sl. No.	State (Block)	Date of Allocation	Name of Block	Name of Allocattee	No. of Blocks	Sector	GR while allotting	End Use Project	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Gujarat	15/12/1995	Vastan	GIPCL	1	Pub	40.0	Power	Producing
2	Gujarat	04-04-2000	Khadsaliya	GHCL	1	Pvt	7.8	Commercial	Producing
3	Gujarat	12-05-2001	Tadkeswar	GMDC	1	Pub	40.0	Commercial	Producing
4	Gujarat	30/04/2003	Mata na Madh	GMDC	1	Pub	34.0	Commercial	Producing
5	Gujarat	21/07/1973/NA	Panandhro	GMDC	1	Pub	98.0	Commercial	Producing
6	Gujarat	05.12.2001	Rajpardi /G-19 Extn (Amod)	GMDC	1	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	Non-producing
9	Gujarat	06.09.2005	Khadsaliya-II & Surka III	GIPCL	2	Pub	22.5	Power	Non-producing
10	Gujarat	5.12.2001	Surkha (North), Bhavnagar	GMDC	1	Pub	69.6	Commercial	-
Gujarat Total					11		755.7		
1	Rajasthan	02.11.1994	Giral	RSSML	1	Pub	101.9	Commercial	Producing
2	Rajasthan	25.08.2001	Matasukh	RSMML	1	Pub	16.9	Commercial	Producing
3	Rajasthan	25.08.001	Kasnau Igija	RSMML	1	Pub		Commercial	Producing
4	Rajasthan	06.09.2004	Soneri	RSMML	1	Pub		42.6	Power
5	Rajasthan	01.07.2005	Gurha(W)	RSMML	1	Pub	37.5	Power	Non-producing
6	Rajasthan	01.07.2005	Gurha(E)	V.S Lig	1	Pvt	44.7	Power	Producing
7	Rajasthan	13.11.2006	Kapurdi	RRVPL	1	Pub	92.0	Power	Producing
8	Rajasthan	13.11.2006	Jalipa	RSMML	1	Pub	316.3	Power	Non-producing
9	Rajasthan	13.11.2006	Shivkar-Kurla	RSMML	1	Pub	112.0	Power	Non-producing
10	Rajasthan	13.11.2006	Sachcha Sauda	RSMML	1	Pub	28.7	Power	Non-producing
11	Rajasthan	07.02.2007	Mondal Charan	Indure Pvt.Ltd	1	Pvt	17.7	Power	Non-producing
12	Rajasthan	07.02.2007	Indawar	Nandlal Enterprise Ltd	1	Pvt	12.0	Power	Non-producing
13	Rajasthan	07.02.2007	Kapriion-Ki-Dhani	DCM Shriram	1	Pvt	17.0	Power	Non-producing
14	Rajasthan	07.02.2007	Nimbri Chandrabadan	Binani Cement Ltd.	1	Pvt	8.2	Power	Non-producing
Total					14		847.4		
Grand Total					25		1603.1		

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

Section X

World Coal Review

10.1 Reserve

10.1.1 World coal reserve (including lignite) is dispersed unevenly over different regions of the world. Statement 10.1 shows distribution of world coal reserves over different countries by end of 2015. It can be seen that the top five places, as per coal reserve, are occupied by USA (26.6%), Russia (17.6%), China (12.8%), Australia (8.6%) and India (6.8%) and these five countries together account for 72.4% of total world coal reserves.

Country / Group	Reserve	% Share
USA	237295	26.62
Russian Federation	157010	17.61
China	114500	12.84
Australia	76400	8.57
India	60600	6.80
Germany	40548	4.55
Ukraine	33873	3.80
Kazakhstan	33600	3.77
South Africa	30156	3.38
Indonesia	28017	3.14
Other Countries	79532	8.92
World	891531	100.0

Source: International Energy Agency (IEA).

10.2 Production

10.2.1 In the World, during the year 2015, production of coal and lignite was 6720.80 MT and 807.36 MT respectively. During the year 2014, production of coal and lignite was 6910.07 MT and 815.86 MT respectively. Statement 10.2 shows main coal and lignite producing countries during 2015. In this Statement it can be seen that the top six positions are occupied by China (3360.18 MT), USA (811.49 MT), India (684.02 MT), Australia (508.67 MT), Indonesia (469.27 MT) and Russian Federation (349.28 MT) and these six countries together account for about 82.13% of total world coal and lignite production whereas China alone accounts for 44.63% of the world coal and lignite production.

Country / Group	Production	% Share
China	3360.18	44.63
USA	811.49	10.78
India	684.02	9.09
Australia	508.67	6.76
Indonesia	469.27	6.23
Russian Federation	349.28	4.64
South Africa	252.07	3.35
Germany	184.72	2.45
Poland	135.25	1.80
Kazakhstan	107.20	1.42
Others	666.01	8.85
World	7528.16	100

10.2.2 World Coking Coal production during 2015 is given in Statement 10.3.

Country	Production	% Share
China	611.05	56.07
Australia	191.06	17.53
USA	57.37	5.26
Russian Federation	77.95	7.15
India	54.55	5.01
Canada	26.00	2.39
Kazakhstan	16.03	1.47
Poland	12.92	1.19
Mongolia	7.85	0.72
Ukraine	5.78	0.53
Others	29.31	2.69
World	1089.87	100.00

Source: International Energy Agency (IEA).

10.2.5 Statement 10.4 provides world lignite production during 2015 by major lignite producing countries.

Country	Production	% Share
Germany	178.07	22.06
Russian Federation	73.24	9.07
Australia	65.35	8.09
USA	64.11	7.94
Poland	63.13	7.82
Turkey	50.44	6.25
Greece	46.25	5.73
India	43.23	5.35
Czech Republic	38.10	4.72
Serbia	37.66	4.66
Bulgaria	35.86	4.44
Others	111.92	13.86
World	807.36	100.00

Source: International Energy Agency (IEA)

10.3 Import and Export

10.3.1 During 2015 world coal import was 1318.97 MT against 1403.78 MT during 2014. During 2015, import of coking coal and steam coal was 276.27 MT and 1042.70 MT respectively. Import of lignite was 4.78 MT. Statement 10.5 shows major country wise import of coking coal and steam coal during 2015.

Country	Import		
	Coking Coal	Steam Coal	Total Coal
China	48.00	156.13	204.13
India	51.09	170.71	221.80
Japan	50.31	141.24	191.55
Korea	37.03	98.06	135.09
Chinese Taipei	6.59	59.22	65.81
Germany	10.76	44.72	55.48
Turkey	5.44	28.54	33.98
Brazil	10.3	9.97	20.27
Ukraine	9.77	4.82	14.59
Others	46.98	329.29	376.27
World	276.27	1042.7	1318.97
China			

10.3.2. During 2015, total coal export was 1301.99 MT against 1358.63 MT in 2014. During 2015, export of coking coal was 299.20 MT, steam coal 1002.79 MT and lignite 9.10 MT. Statement 10.6 shows major country wise export of coal during 2015.

Country	Export		
	Coking Coal	Steam Coal	Total Coal
Australia	180.46	194.59	375.05
Indonesia	2.73	365.65	368.38
Russian Federation	18.34	133.39	151.73
Columbia	1.45	80.51	81.96
South Africa	0.42	76.85	77.27
USA	41.74	25.33	67.07
Canada	28.05	2.33	30.38
Mongolia	7.12	6.71	13.83
China	0.97	3.99	4.96
Mozambique	3.34	1.12	4.46
Others	14.58	112.32	126.9
World	299.20	1002.79	1301.99

Source: International Energy Agency (IEA).

10.4 Coal Price

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

Table 10.1 : WORLD PROVED COAL RESERVES AT THE END OF 2015

(Quantity In Million Tonnes)

Countries	Anthracite and bituminous	Sub-bituminous and Lignite	Total	Share of Total	R/P ratio	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)
US	108501	128794	237295	26.6%	292	* More than 500 years
Canada	3474	3108	6582	0.7%	108	# Less than 0.05%
Mexico	860	351	1211	0.1%	84	
Total North America	112835	132253	245088	27.5%	276	
Brazil	-	6630	6630	0.7%	*	Notes: Total proved reserves of coal- Generally taken to be those quantities that geological and engineering information indicates with reasonable certainty can be recovered in the future from known reservoirs under existing economic and operating conditions. The data series for total proved oil does not necessarily meet the definitions, guidelines and practices used for determining proved reserves at company level, for instance as published by the US Securities and Exchange Commission, nor does it necessarily represent BP's view of proved reserves by country.
Colombia	6746	-	6746	0.8%	79	
Venezuela	479	-	479	0.1%	*	
Other S. & Cent. America	57	729	786	0.1%	244	
Total S. & Cent. America	7282	7359	14641	1.6%	150	
Bulgaria	2	2364	2366	0.3%	66	
Czech Republic	181	871	1052	0.1%	23	
Germany	48	40500	40548	4.5%	220	
Greece	-	3020	3020	0.3%	63	
Hungary	13	1647	1660	0.2%	180	
Kazakhstan	21500	12100	33600	3.8%	316	
Poland	4178	1287	5465	0.6%	40	
Romania	10	281	291	◆	11	
Russian Federation	49088	107922	157010	17.6%	422	
Serbia	1	13410	13411	1.5%	352	
Spain	200	330	530	0.1%	173	
Turkey	322	8380	8702	1.0%	192	
Ukraine	15351	18522	33873	3.8%	*	
United Kingdom	228	-	228	◆	27	Reserves-to-production (R/P) ratio - If the reserves remaining at the end of any year are divided by the production in that year, the result is the length of time that those remaining reserves would last if production were to continue at that rate.
Uzbekistan	47	1853	1900	0.2%	481	
Other Europe & Eurasia	1388	5494	6882	0.8%	187	
Total Europe & Eurasia	92557	217981	310538	34.8%	273	
South Africa	30156	-	30156	3.4%	120	
Zimbabwe	502	-	502	0.1%	121	
Other Africa	942	214	1156	0.1%	122	
Middle East	1122	-	1122	0.1%	*	
Total Middle East & Africa	32722	214	32936	3.7%	123	
Australia	37100	39300	76400	8.6%	158	
China	62200	52300	114500	12.8%	31	
India	56100	4500	60600	6.8%	89	
Indonesia	-	28017	28017	3.1%	71	
Japan	337	10	347	◆	296	
Mongolia	1170	1350	2520	0.3%	103	
New Zealand	33	538	571	0.1%	168	
Pakistan	-	2070	2070	0.2%	*	
South Korea	-	126	126	◆	71	
Thailand	-	1239	1239	0.1%	82	
Vietnam	150	-	150	◆	4	
Other Asia Pacific	713	1075	1788	0.2%	37	
Total Asia Pacific	157803	130525	288328	32.3%	53	
Total World	403199	488332	891531	100.0%	114	
of which: OECD	155494	229321	384815	43.2%	206	
Non-OECD	247705	259011	506716	56.8%	85	
European Union	4883	51199	56082	6.3%	112	
CIS	86524	141309	227833	25.6%	435	

Source: BP Statistical Review of World Energy 2016

Table 10.2: Trends of Coal Production By Major Coal Producing Countries during Last Ten Years

(Quantity In Million Tonnes Oil Equivalent)

Countries	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Change 2015 over 2014	2015 Share of Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
US	595.1	587.7	596.7	540.8	551.2	556.1	517.8	500.9	508.0	455.2	-10.4%	11.9%
Canada	34.8	35.7	35.6	33.1	35.4	35.5	35.9	36.6	35.8	32.1	-10.3%	0.8%
Mexico	6.8	7.3	6.9	6.1	7.3	9.4	7.4	7.2	7.2	7.0	-3.2%	0.2%
Total North America	636.7	630.7	639.2	580.0	594.0	600.9	561.1	544.6	551.1	494.3	-10.3%	12.9%
Brazil	2.6	2.7	2.9	2.3	2.3	2.4	2.9	3.7	3.4	3.4	-	0.1%
Colombia	43.0	45.4	47.8	47.3	48.3	55.8	58.0	55.6	57.6	55.6	-3.4%	1.5%
Venezuela	5.2	5.0	3.7	2.4	1.9	1.9	1.4	0.9	0.6	0.6	0.1%	♦
Other S. & Cent. America	0.4	0.3	0.4	0.4	0.4	0.4	0.5	1.7	2.4	1.7	-27.7%	♦
Total S. & Cent. America	51.2	53.4	54.8	52.4	52.9	60.5	62.7	61.9	64.0	61.3	-4.1%	1.6%
Bulgaria	4.3	4.7	4.8	4.6	4.9	6.2	5.6	4.8	5.1	5.9	14.7%	0.2%
Czech Republic	23.9	23.8	22.8	20.9	20.6	20.8	19.8	17.7	16.7	16.4	-1.8%	0.4%
Germany	53.3	54.4	50.1	46.4	45.9	46.7	47.8	45.1	44.1	42.9	-2.7%	1.1%
Greece	8.2	8.4	8.1	8.2	7.3	7.5	8.0	6.7	6.4	6.0	-6.1%	0.2%
Hungary	1.8	1.8	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.5	-3.5%	♦
Kazakhstan	41.4	42.2	47.9	43.4	47.5	49.8	51.6	51.4	48.9	45.8	-6.3%	1.2%
Poland	68.0	62.5	60.9	56.4	55.4	55.7	57.8	57.2	54.0	53.7	-0.6%	1.4%
Romania	6.5	6.9	7.0	6.6	5.9	6.6	6.3	4.6	4.4	4.8	8.4%	0.1%
Russian Federation	141.0	143.5	149.0	141.7	151.0	157.6	168.3	173.1	176.6	184.5	4.5%	4.8%
Serbia	n/a	8.0	8.3	7.4	7.2	7.8	7.3	7.7	5.7	7.3	27.7%	0.2%
Spain	6.2	5.9	4.4	3.8	3.3	2.6	2.5	1.8	1.6	1.2	-24.5%	♦
Turkey	13.2	14.8	16.7	17.4	17.5	17.9	17.0	15.5	16.4	11.7	-28.4%	0.3%
Ukraine	35.7	34.0	34.4	31.8	31.8	36.3	38.0	36.6	25.9	16.4	-36.7%	0.4%
United Kingdom	11.4	10.7	11.3	11.0	11.4	11.5	10.6	8.0	7.3	5.3	-26.8%	0.1%
USSR	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Uzbekistan	0.8	1.0	0.9	1.0	1.0	1.1	1.2	1.1	1.2	1.1	-8.8%	♦
Other Europe & Eurasia	24.8	16.3	16.5	16.6	16.9	17.1	15.6	18.0	17.2	15.3	-11.5%	0.4%
Total Europe & Eurasia	440.4	438.8	444.8	418.8	429.2	446.8	459.0	450.9	433.1	419.8	-3.1%	11.0%
Total Middle East	1.0	1.1	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	-	♦
South Africa	138.3	138.4	141.0	139.7	144.1	143.2	146.6	145.4	148.2	142.9	-3.6%	3.7%
Zimbabwe	1.4	1.3	1.0	1.1	1.7	1.7	1.0	2.0	3.7	2.7	-28.1%	0.1%
Other Africa	1.1	0.8	0.9	0.8	1.0	1.3	4.5	5.4	5.9	5.9	0.2%	0.2%
Total Africa	140.7	140.5	142.8	141.6	146.8	146.1	152.1	152.8	157.8	151.4	-4.0%	4.0%
Australia	211.6	217.9	224.9	232.6	240.5	233.4	250.4	268.2	287.3	275.0	-4.3%	7.2%
China	1328.4	1439.3	1491.8	1537.9	1665.3	1851.7	1873.5	1894.6	1864.2	1827.0	-2.0%	47.7%
India	198.2	210.3	227.5	246.0	252.4	250.8	255.0	255.7	271.0	283.9	4.7%	7.4%
Indonesia	119.2	133.4	147.8	157.6	169.2	217.3	237.3	276.2	281.7	241.1	-14.4%	6.3%
Japan	0.7	0.8	0.7	0.7	0.5	0.7	0.7	0.7	0.7	0.6	-10.5%	♦
Mongolia	4.1	4.8	5.2	8.2	15.2	19.9	18.1	18.0	15.4	14.9	-3.1%	0.4%
New Zealand	3.6	3.0	3.0	2.8	3.3	3.1	3.0	2.8	2.5	2.0	-16.6%	0.1%
Pakistan	1.8	1.7	1.8	1.6	1.5	1.4	1.5	1.3	1.5	1.5	-2.3%	♦
South Korea	1.3	1.3	1.3	1.2	1.0	1.0	1.0	0.8	0.8	0.8	0.9%	♦
Thailand	5.5	5.3	5.2	5.1	5.3	6.2	5.2	5.3	5.2	4.4	-15.7%	0.1%
Vietnam	21.7	23.8	22.3	24.7	25.1	26.1	23.6	23.0	23.4	23.3	-0.4%	0.6%
Other Asia Pacific	22.4	20.6	22.0	23.5	24.7	24.8	25.2	28.9	28.5	28.1	-1.4%	0.7%
Total Asia Pacific	1918.5	2062.2	2153.4	2241.8	2404.0	2636.4	2694.6	2775.5	2782.2	2702.6	-2.9%	70.6%
Total World	3188.5	3326.7	3436.0	3435.3	3627.6	3891.4	3930.2	3986.5	3988.9	3830.1	-4.0%	100.0%
of which: OECD	1051.3	1046.8	1055.3	993.5	1013.2	1013.7	990.1	983.3	1002.8	921.4	-8.1%	24.1%
Non-OECD	2137.2	2280.0	2380.7	2441.8	2614.4	2877.8	2940.1	3003.2	2986.1	2908.8	-2.6%	75.9%
European Union #	193.2	187.0	178.9	167.9	165.6	168.4	167.7	157.3	150.3	145.3	-3.4%	3.8%
CIS	219.5	221.5	233.0	218.8	232.0	245.7	260.3	263.5	254.2	249.4	-1.9%	6.5%

Source: BP Statistical Review of World Energy 2016

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

Includes coal produced for Coal-to-Liquids and Coal-to-Gas transformations.

^ Less than 0.05.

w Less than 0.05%.

n/a not available.

Excludes Estonia, Latvia and Lithuania prior to 1985 and Slovenia prior to 1990.

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

(Figs. In Million Tonnes Oil Equivalent)

Countries	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Change in 2015 over 2014	2015 Share of Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
US	565.7	573.3	564.2	496.2	525.0	495.4	437.9	454.6	453.8	396.3	-12.7%	10.3%
Canada	30.1	31.2	30.3	24.2	25.2	22.2	21.2	20.8	21.4	19.8	-7.3%	0.5%
Mexico	12.3	11.3	10.1	10.3	12.7	14.7	12.8	12.7	12.8	12.8	0.7%	0.3%
Total North America	608.1	615.8	604.5	530.7	563.0	532.3	472.0	488.1	487.9	429.0	-12.1%	11.2%
Argentina	1.1	1.2	1.4	1.0	1.3	1.5	1.3	1.3	1.5	1.4	-5.5%	♦
Brazil	12.8	13.6	13.8	11.1	14.5	15.4	15.3	16.5	17.6	17.4	-0.8%	0.5%
Chile	3.4	4.1	4.4	4.0	4.5	5.8	6.7	7.5	7.6	7.2	-4.9%	0.2%
Colombia	4.1	3.5	5.8	4.5	5.4	4.3	5.1	5.8	6.0	7.0	18.3%	0.2%
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Peru	0.8	1.0	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.9	-0.5%	♦
Trinidad & Tobago	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-8.3%	♦
Other S. & Cent. America	2.1	2.2	2.3	2.0	2.1	2.5	2.5	2.6	3.0	3.0	-0.7%	0.1%
Total S. & Cent. America	24.5	25.7	28.6	23.7	28.7	30.6	32.1	34.8	36.7	37.1	1.2%	1.0%
Austria	4.1	3.9	3.8	2.9	3.4	3.5	3.2	3.3	3.0	3.2	7.4%	0.1%
Azerbaijan	^	^	^	^	^	^	^	^	^	^	-	♦
Belarus	0.6	0.7	0.6	0.6	0.6	0.8	0.8	0.9	1.0	0.8	-18.9%	♦
Belgium	5.0	4.4	4.6	3.2	3.8	3.5	3.3	3.4	3.3	3.2	-3.6%	0.1%
Bulgaria	7.0	7.9	7.6	6.4	6.9	8.1	6.9	5.9	6.4	6.7	4.2%	0.2%
Czech Republic	21.0	21.4	19.7	17.6	18.4	18.1	17.2	16.4	15.9	15.6	-2.0%	0.4%
Denmark	5.6	4.7	4.1	4.0	3.8	3.2	2.5	3.2	2.6	1.8	-32.6%	♦
Finland	6.8	6.4	4.8	5.0	6.3	5.0	4.0	4.5	4.1	3.5	-15.4%	0.1%
France	12.4	12.8	12.1	10.8	11.5	9.8	11.1	11.8	8.7	8.7	♦	0.2%
Germany	84.5	86.7	80.1	71.7	77.1	78.3	80.5	82.8	78.8	78.3	-0.6%	2.0%
Greece	8.4	8.8	8.3	8.4	7.9	7.9	8.1	7.0	6.7	5.7	-14.1%	0.1%
Hungary	3.1	3.1	3.1	2.6	2.7	2.7	2.6	2.3	2.2	2.2	-2.8%	0.1%
Ireland	2.4	2.3	2.3	2.0	2.0	1.9	2.3	2.0	2.0	2.2	8.2%	0.1%
Italy	16.7	16.3	15.8	12.4	13.7	15.4	15.7	13.5	13.1	12.4	-4.7%	0.3%
Kazakhstan	28.3	31.1	33.8	30.9	33.4	36.3	36.5	36.3	35.5	32.6	-8.3%	0.8%
Lithuania	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-22.5%	♦
Netherlands	7.7	8.4	8.0	7.5	7.5	7.5	8.2	8.2	9.1	10.6	17.4%	0.3%
Norway	0.6	0.7	0.7	0.6	0.8	0.8	0.8	0.8	0.9	0.8	-8.8%	♦
Poland	57.4	55.9	55.2	51.8	55.1	55.0	51.2	53.4	49.4	49.8	0.7%	1.3%
Portugal	3.3	2.9	2.5	2.9	1.6	2.2	2.9	2.7	2.7	3.3	23.2%	0.1%
Romania	9.5	10.2	9.6	7.6	7.0	8.2	7.6	5.8	5.8	6.1	6.9%	0.2%
Russian Federation	97.0	93.9	100.7	92.2	90.5	94.0	98.4	90.5	87.6	88.7	1.3%	2.3%
Slovakia	4.5	4.0	4.0	3.9	3.9	3.7	3.5	3.5	3.4	3.3	-2.6%	0.1%
Spain	17.9	20.0	13.5	9.4	6.9	12.8	15.5	11.4	11.6	14.4	23.9%	0.4%
Sweden	2.7	2.7	2.4	1.9	2.5	2.5	2.2	2.2	2.1	2.1	0.6%	0.1%
Switzerland	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	10.6%	♦
Turkey	26.6	29.5	29.6	30.9	31.4	33.9	36.5	31.6	36.1	34.4	-4.7%	0.9%
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-	-
Ukraine	39.8	39.8	41.8	35.9	38.3	41.5	42.5	41.6	35.6	29.2	-18.0%	0.8%
United Kingdom	40.9	38.4	35.6	29.8	30.9	31.4	39.0	37.1	29.9	23.4	-21.6%	0.6%
USSR	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Uzbekistan	0.8	1.0	1.0	1.0	0.9	1.1	1.2	1.1	1.2	1.1	-8.8%	♦
Other Europe & Eurasia	21.2	21.8	22.4	21.4	22.5	24.6	22.9	23.8	22.0	23.4	6.3%	0.6%
Total Europe & Eurasia	536.3	540.2	528.0	475.4	491.6	514.1	527.4	507.2	481.0	467.9	-2.7%	12.2%

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

(Figs. In Million Tonnes Oil Equivalent)

Countries	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Change in 2015 over 2014	2015 Share of Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Iran	1.5	1.6	1.2	1.4	1.3	1.4	1.1	1.2	1.2	1.2	1.2%	♦
Israel	7.8	8.0	7.9	7.7	7.7	7.9	8.8	7.4	6.9	6.7	-1.9%	0.2%
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	^	0.1	0.1	^	0.1	0.1	0.1	0.1	0.1	0.1	-29.5%	♦
United Arab Emirates	0.3	0.1	0.3	0.6	0.7	1.2	1.7	1.4	1.6	1.6	-	♦
Other Middle East	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.8	0.8	-2.8%	♦
Total Middle East	9.8	9.9	9.7	9.9	10.1	11.1	12.3	10.8	10.7	10.5	-1.7%	0.3%
Algeria	0.9	0.8	0.8	0.5	0.3	0.3	0.3	0.2	0.2	0.2	-	♦
Egypt	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.7	0.7	1.0%	♦
South Africa	81.5	83.6	93.3	93.8	92.8	90.4	88.3	88.9	90.1	85.0	-5.6%	2.2%
Other Africa	7.3	6.8	6.7	5.9	6.9	7.4	6.8	8.4	11.4	11.0	-3.9%	0.3%
Total Africa	90.6	92.0	101.4	100.8	100.4	98.5	95.8	97.8	102.4	96.9	-5.4%	2.5%
Australia	56.6	54.9	55.4	53.4	50.6	50.2	47.3	45.0	44.7	46.6	4.3%	1.2%
Bangladesh	0.5	0.6	0.6	0.8	0.8	0.7	0.9	1.0	0.9	0.8	-10.9%	♦
China	1448.4	1576.9	1603.1	1680.4	1743.4	1899.0	1923.0	1964.4	1949.3	1920.4	-1.5%	50.0%
China Hong Kong SAR	6.9	7.5	6.9	7.2	6.2	7.4	7.3	7.8	8.1	6.7	-17.8%	0.2%
India	219.4	240.1	259.4	282.8	292.9	300.4	330.0	355.6	388.7	407.2	4.8%	10.6%
Indonesia	28.9	36.2	31.5	33.2	39.5	46.9	53.0	57.6	69.8	80.3	15.0%	2.1%
Japan	112.3	117.7	120.3	101.6	115.7	109.6	115.8	120.7	118.7	119.4	0.6%	3.1%
Malaysia	7.3	8.8	9.8	10.6	14.8	14.8	15.9	15.1	15.4	17.6	14.8%	0.5%
New Zealand	2.2	1.7	2.1	1.6	1.4	1.4	1.7	1.5	1.5	1.4	-1.7%	♦
Pakistan	4.0	5.4	6.0	4.9	4.6	4.0	4.2	3.2	4.7	4.7	-1.5%	0.1%
Philippines	5.0	5.4	6.4	6.1	7.0	7.7	8.1	10.0	10.6	11.4	7.4%	0.3%
Singapore	^	^	^	^	^	^	^	0.3	0.4	0.4	-	♦
South Korea	54.8	59.7	66.1	68.6	75.9	83.6	81.0	81.9	84.6	84.5	-0.2%	2.2%
Taiwan	37.0	38.8	37.0	35.2	37.6	38.9	38.0	38.6	39.0	37.8	-3.1%	1.0%
Thailand	12.4	13.9	15.1	15.1	15.5	15.8	16.4	15.8	17.9	17.6	-1.8%	0.5%
Vietnam	5.3	5.8	11.4	10.7	14.0	16.5	15.0	15.8	19.3	22.2	15.4%	0.6%
Other Asia Pacific	21.9	18.8	20.6	20.9	20.5	16.5	17.2	17.7	18.8	19.3	2.7%	0.5%
Total Asia Pacific	2022.9	2192.3	2251.7	2333.2	2440.4	2613.5	2674.8	2752.0	2792.5	2798.5	0.2%	72.9%
Total World	3292.2	3476.0	3523.9	3473.6	3634.3	3800.0	3814.4	3890.7	3911.2	3839.9	-1.8%	100.0%
of which: OECD	1182.0	1201.1	1176.1	1051.7	1115.7	1095.8	1049.1	1059.2	1043.2	979.2	-6.1%	25.5%
Non-OECD	2110.2	2274.9	2347.8	2421.9	2518.6	2704.2	2765.3	2831.5	2867.9	2860.7	-0.3%	74.5%
European Union #	326.6	327.8	303.1	267.0	279.3	287.3	293.7	287.1	267.2	262.4	-1.8%	6.8%
CIS	167.3	167.3	179.0	161.5	164.6	174.7	180.7	171.8	162.6	154.2	-5.2%	4.0%

Source: BP Statistical Review of World Energy 2016

* Commercial solid fuels only, i.e. bituminous coal and anthracite (hard coal), and lignite and brown (sub-bituminous) coal, and other commercial solid fuels. Excludes coal converted to liquid or gaseous fuels, but includes coal consumed in transformation processes.

^ Less than 0.05.

w Less than 0.05%.

n/a not available.

Excludes Estonia, Latvia and Lithuania prior to 1985 and Slovenia prior to 1990.

Note: Differences between these consumption figures and the world production statistics are accounted for by stock changes, and unavoidable disparities in the definition, measurement or conversion of coal supply and demand data.

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	Asian Marker price †
(1)	(2)	(3)	(4)	(5)	(6)
1987	31.30	-	53.44	41.28	-
1988	39.94	-	55.06	42.47	-
1989	42.08	-	58.68	48.86	-
1990	43.48	31.59	60.54	50.81	-
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	29.48
1999	28.79	31.29	42.83	35.74	27.82
2000	35.99	29.90	39.69	34.58	31.76
2001	39.03	50.15	41.33	37.96	36.89
2002	31.65	33.20	42.01	36.90	30.41
2003	43.60	38.52	41.57	34.74	36.53
2004	72.08	64.90	60.96	51.34	72.42
2005	60.54	70.12	89.33	62.91	61.84
2006	64.11	62.96	93.46	63.04	56.47
2007	88.79	51.16	88.24	69.86	84.57
2008	147.67	118.79	179.03	122.81	148.06
2009	70.66	68.08	167.82	110.11	78.81
2010	92.50	71.63	158.95	105.19	105.43
2011	121.52	87.38	229.12	136.21	125.74
2012	92.50	72.06	191.46	133.61	105.50
2013	81.69	71.39	140.45	111.16	90.90
2014	75.38	69.00	114.41	97.65	77.89
2015	56.64	53.59	93.85	79.47	63.52

† Source: IHS McCloskey Coal Information Service. Prices for 1990-2000 are the average of the monthly marker, 2001-2015 the average of weekly prices.

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

Prices for 1990-2000 are by coal price publication date, 2001-2015 by coal price assessment date.

Note: CAPP = Central Appalachian; cif = cost+insurance+freight (average prices); fob = free on board.

Table-10.5: Production of Coal and Coke by Major Coal Producing Countries during 2014 & 2015

(Quantity in Thousand Tonnes)

Country	2014					2015 e				
	Coking Coal	Other Bit. & Anthracite	SubBit. 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)
Botswana		1712					2066			
Egypt		1500			367	44				
Mozambique	3785	2547				3948	2632			
Niger				263					226	
Nigeria		46					44			
Other Africa		306					312			
South Africa	3448	257092			2111	3188	248884			
United Republic of Tanzania		246					257			
Zambia		159					200			
Zimbabwe	422	5361			310	422	3873			
Africa Total	7655	268969	0	263	2788	7602	258268	0	226	0
Bangladesh		947					931			
Chinese Taipei					6277					
DPR of Korea		27090	3741				31233	3975		
India	50568	551733		48270	27069	54548	586248		43227	
Indonesia	1022	256466	227201			2728	230318	236221		
Islamic Republic of Iran	810	148			1081	952	148			
Japan					38936					38626
Korea		1748			18453		1764			19218
Kyrgyzstan		298		1505			228		1641	
Malaysia		2687					2560			
Mongolia	5702	10477		6365	94	7853	10597		5755	
Myanmar		642		50			535		42	
Nepal		18					19			
Other Asia		1861		541	55		1777		543	
Pakistan		2383		1168	81		2955		1209	
People's Republic of China	619764	2847246			478443	611051	2749125			
Philippines			7600					7091		
Tajikistan		822		56			1017		57	
Thailand				18042					15151	
Uzbekistan		408		3989			412		3987	
Vietnam		41678					37195			
Asia Total	677866	3746652	238542	79986	570489	677132	3657062	247287	71612	57844
Australia	180295	226712	21244	60543	2817	191056	229746	22520	65350	2924
New Zealand	1760	189	1712	317	503	1334	66	1672	324	504
Australia and Oceania Total	182055	226901	22956	60860	3320	192390	229812	24192	65674	3428
Albania									4	
Austria					1331					1329
Belgium					1443		6			1230
Bosnia and Herzegovina			5947	5704	908			6476	6110	
Bulgaria				31268					35863	
Czech Republic	4590	4090		38177	2539	4088	4227		38103	2332

Contd....

Table-10.5: Production of Coal and Coke by Major Coal Producing Countries during 2014 & 2015

(Quantity in Thousand Tonnes)

Country	2014					2015 e				
	Coking Coal	Other Bit. & Anthracite	SubBit. 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)
Estonia					25					8
Finland					888					876
Former Yugoslav Republic of Macedonia				6482					5926	
France					3237					2542
Georgia				299					353	
Germany	4739	3598		178178	8770	3843	2807		178065	8901
Greece				50845					46246	
Hungary				9551	923				9261	960
Italy		86			1920		73			1978
Kazakhstan	17906	89185		6894	2698	16030	85000		6170	
Kosovo				7204					8241	
Montenegro				1655					1755	
Netherlands					2011					2045
Norway		1675					1103			
Poland	12288	60252		63877	9568	12915	59204		63128	9792
Romania			80	23485				47	25452	
Russian Federation	76318	13516		68893	39512	77951	198090		73243	
Serbia				30011					37660	
Slovak Republic				2188	1561				1949	1637
Slovenia				3108					3168	
Spain		2669	1230		1543		1750	1318		1704
Sweden					1113					1187
Turkey	861	972	843	62573	4388	767	668	1520	50444	4522
Ukraine	12022	33208		127	13858	5775	22453			
United Kingdom	99	11548			3632	167	8359			2734
Europe Total	128823	220799	8100	590519	101868	121536	383740	9361	591141	43777
Canada	31950	4000	24968	8100	2219	26000	2700	22500	10487	1954
Mexico	1882	70	12834	601	2230	3113	73	11543	540	1796
United States of America	72717	363017	397913	72109	13747	57368	308935	381071	64119	12453
North America Total	106549	367087	435715	80810	18196	86481	311708	415114	75146	16203
Argentina		83			840					
Bolivarian Republic of Venezuela		1200					1079			
Brazil		155	4360	3422	9722		102	4367	3560	
Chile					443		3060			450
Colombia	4687	83891			2495	4730	85530			
Peru		211					248			
South America Total	4687	85540	4360	3422	13500	4730	90019	4367	3560	450
Others		176812								
World	1107635	5092760	709673	815860	710161	1089871	4930609	700321	807359	121702

Source: International Energy Agency (IEA)

Table-10.6: Import of Coal and Coke by Major Coal Importing Countries during 2014 & 2015

(Quantity in Thousand Tonnes)

Country	2014					2015 e				
	Coking Coal	Other Bit. & Anthracite	SubBit. 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)
Algeria	20				236	20				
Benin		70					41			
Dominican Republic of Congo		1043			510		977			
Egypt	434				324	443	1511			
Ethiopia		321					325			
Kenya		533					614			
Mauritius		772					804			
Morocco		6519					6441			
Nigeria							147			
Other Africa		1009					1287			
Senegal		367					846			
South Africa	853					1199				
United Republic of Tanzania							148			
Zimbabwe		24								
Africa Total	1307	10658	0	0	1070	1662	13141	0	0	0
Bangladesh		988					1806		32	
Cambodia			490					1559		
Chinese Taipei	6870	45664	13247		173	6585	50062	9160		
DPR of Korea		113			200		950			
Hong Kong (China)		13789					11163			
India	51700	78074	107855		3294	51091	85161	85547		
Indonesia	2539					3008				
Islamic Republic of Iran	134	6			437	69				
Israel		11021					10606			
Japan	51061	137008			3218	50306	141244			2654
Jordan		521			43		253			
Korea	33176	92991	4865		405	37027	91234	6824		388
Kuwait							369			
Kyrgyzstan		1276		21			1270		16	
Lebanon		250					320			
Malaysia		21738					24408			
Myanmar							53			
Nepal		788					524			
Oman							11			
Other Asia		581					931			
Pakistan	115	2645				164	4887			
People's Republic of China	62440	229146			2	47999	156128			

Contd....

Table-10.6: Import of Coal and Coke by Major Coal Importing Countries during 2014 & 2015

(Quantity in Thousand Tonnes)

Country	2014					2015 e				
	Coking Coal	Other Bit. & Anthracite	SubBit. 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)
Philippines		13365	1525		292		13962	2771		
Singapore		632			11		778			
Sri Lanka		1607					1971			
Syrian Arab Republic					1					
Tajikistan		12								
Thailand		21243			38		23015			
United Arab Emirates		2330	59				1914	55		
Vietnam		2536	506		178		5016	1160		
Yemen		189					145			
Asia Total	208035	678513	128547	21	8292	196249	628181	107076	48	3042
Australia	81	30			81	101	24			130
New Zealand		30	441				31	405		
Australia and Oceania Total	81	60	441		81	101	55	405		130
Albania		133					102			
Armenia							1			
Austria	1824	1333	86	12	1186	1730	1297	82	20	959
Belarus		781			65		677			
Belgium	2234	2992			54	1786	2265			107
Bosnia and Herzegovina	1408		3	17	9	1408		82	19	
Bulgaria		1410		2	90		1534		2	
Croatia		962		44	28		996		56	
Cyprus		5					6			
Czech Republic	1781	1427		1387	295	1579	1981		1016	390
Denmark		4287			14		2757			15
Estonia		82					7			
Finland	1316	4123			398	1317	2226			446
Former Yugoslav Republic of Macedonia		7	186	85	2		2	150	80	
France	4932	7921		177	808	3604	8795		118	879
Georgia		126			131		112			
Germany	9710	44030		13	3520	10759	44717		20	2893
Greece		310		26			267			
Hungary	1321	40	181		44	1300	42	156	61	34
Iceland		100			31		108			28
Ireland		1974					2355			
Italy	2362	17091	475	3	1215	2292	16905	435	3	682
Kazakhstan		15			1218		211			
Kosovo		15		1			15			
Latvia		85					98			

Contd....

Table-10.6: Import of Coal and Coke by Major Coal Importing Countries during 2014 & 2015

(Quantity in Thousand Tonnes)

Country	2014					2015 e				
	Coking Coal	Other Bit. & Anthracite	SubBit. 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)
Lithuania	2	298		1	17		268			
Luxembourg		85					73			1
Montenegro				3					5	
Netherlands	4445	42816		41	468	3876	52935		26	379
Norway		761					693			427
Poland	2404	8013		176	192	2692	5515		252	94
Portugal		4371				2	5414			
Republic of Moldova		146					183			
Romania	21	132	543	388	738	15	108	674	355	
Russian Federation	1181	491		1552	150	671	24101		1531	
Serbia		160		460	290		203		460	
Slovak Republic	2680	1104		474	210	2740	921		436	191
Slovenia		22	418	48	32		16	366	34	31
Spain	1631	14763				1720	17315			337
Sweden	1542	1232				1573	1212			87
Switzerland		39		134	17		76		132	15
Turkey	5466	24350			352	5444	28535			568
Ukraine	9706	4989		1	1636	9774	4815			
United Kingdom	6344	35421				4750	20733			1112
Europe Total	62310	228442	1892	5045	14939	59032	250592	1945	4626	9675
Canada	3907	2217	1676	19	975	3872	2178	1505	12	923
Costa Rica		3			94		3			
Cuba		3			1					
Guatemala		720					1888			
Honduras		119			91		218			
Jamaica		95					141			
Mexico	2027	30		3	501	1783	5463	458	4	701
Panama		337					354			
United States of America	1448	8075	673	101	69	1558	6497	2114	100	127
North America Total	7382	11599	2349	123	1731	7213	16742	4077	116	1751
Argentina	1001	1219				1022	794			
Brazil	10960	9015	376		1797	10304	9614	354		
Chile	614				5	684	9218			
Peru		528			13		500			
Uruguay		3					3			
South America Total	12575	10765	376	0	1815	12010	20129	354	0	0
Others		38444								
World	291690	978481	133605	5189	27928	276267	928840	113857	4790	14598

Source: International Energy Agency (IEA)

Table 10.7 : Export of Coal and Coke by Major Exporting Countries during 2014 & 2015
(Quantity in Thousand Tonnes)

Country	2014					2015 e					
	Coking Coal	Other Bit. & Anthracite	Sub Bit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke	Coking Coal	Other Bit. & Anthracite	SubBit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Botswana	194					197					
Egypt						128					
Mozambique	3633	1046				3340	1118				
Other Africa	275					300					
South Africa	783	68246				419	76847				
Zimbabwe						207					
Africa Total	4416	69761	0	0	335	3759	78462	0	0	0	
Chinese Taipei						71					
DPR of Korea	15610					19863					
India	42	1196				3	102	724			
Indonesia	1022	256168	151048			2728	230020	135630			
Islamic Republic of Iran	205										
Japan	1					483	2	787			
Kyrgyzstan	236					5	5	16			
Malaysia	181					193					
Mongolia	6033	8141				140	7718	6708	45		
Other Asia	5					435	55	437			
People's Republic of China	836	6440				8507	967	3994			
Philippines			5246			3066					
Thailand	23										
Uzbekistan						41					
Vietnam	10410					161	1755				
Asia Total	8138	298411	156294	624	9379	11413	263264	138696	498	787	
Australia	180458	194586				846	187664	204683	712		
New Zealand	1719	22					1326	43			
Australia and Oceania Total	182177	194586	22			846	188990	204683	43	712	
Austria						5	6				
Belarus	5					43					
Belgium	557					176	79	5			
Bosnia and Herzegovina	6	340	85	354							
Bulgaria	41					51	36	36			
Croatia	14					1	29				
Czech Republic	2386	1978				905	525	1895	2337	950	492
Denmark	52										
Estonia						26	8				
Finland						73	79				
France						54	84	69	26		
Georgia						3					

Contd....

Table 10.7 : Export of Coal and Coke by Major Exporting Countries during 2014 & 2015
(Quantity in Thousand Tonnes)

Country	2014					2015 e				
	Coking Coal	Other Bit. & Anthracite	Sub Bit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke	Coking Coal	Other Bit. & Anthracite	SubBit. Coal	Lignite/ Brown Coal & Peat	Coke Oven Coke
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Germany	5	203		1171	491		177		913	348
Greece		9								
Hungary				384	467				351	298
Ireland		13					13			
Italy		1			341		82			308
Kazakhstan	1901	26570		2474	15	825	24464		2145	
Kosovo		1		24					24	
Latvia		6					51			
Lithuania							40			
Montenegro				28					42	
Netherlands		31256			535		36214		5	525
Norway		1608					1124			
Poland	2141	6815		303	6687	2303	6883		198	6456
Romania		5		37			11		377	
Russian Federation	21082	132018		2404	2522	18336	133386		3371	
Serbia				14					14	
Slovak Republic					35					1
Slovenia		1					1	8		
Spain	25	1259			130		564			144
Sweden		1			30					81
Turkey		64			5		151			2
Ukraine	1448	5586		120	1158	350	875			
United Kingdom	1	424			88	1	376			210
Europe Total	28995	208487	340	8003	13713	23799	207103	348	8477	8983
Canada	31063	3301	9	92	61	28049	2321	17	99	77
Mexico		4					3			
United States of America	54495	27847	5866	21	858	41737	20012	5322	22	777
North America Total	85558	31152	5875	113	919	69786	22336	5339	121	854
Argentina					58					
Bolivarian Republic of Venezuela		930					804			
Chile					153		1023			89
Colombia	1438	79752			1973	1449	80506			
Peru		253			35		178			
South America Total	1438	80935	0	0	2219	1449	82511	0	0	89
Others		2041								
World	310722	885373	162531	8740	27411	299196	858359	144426	9096	11425

Source: International Energy Agency (IEA)

Section XI

Mine Statistics

11.1.1 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 (Table 11.1), Number of Mines-State-wise (Table 11.2), Number of Mines-Sector-wise (Table 11.3), Number of Mines-Captive/ Non Captive (Table 11.4), Number of Mines-Public/ Private, Captive/Non Captive (Table 11.5), Number of Working Coal Mines (Table 11.6), Number of working Lignite Mines (Table 11.7), Number of Mines - State-wise, Public/ private, Captive/ Non captive (Table 11.8), and Number of Lignite Mines-State-wise, Public/private, Captive/ Non captive (Table 11.9) as on 31.03.2016.

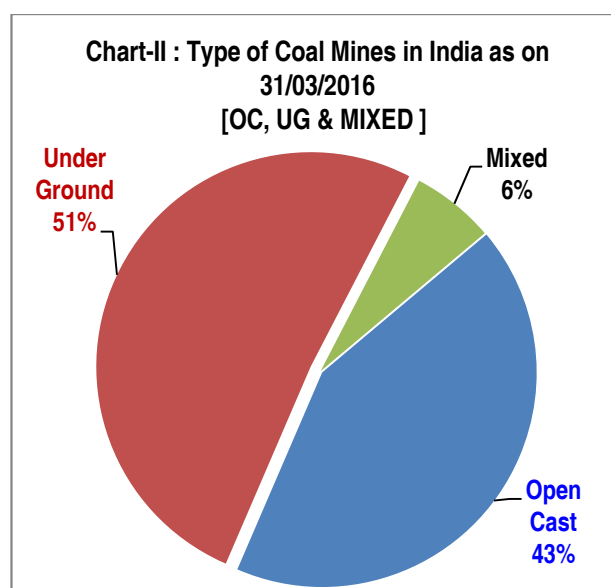
11.1.2 As on 31.03.2016, the total number of operating coal mines was 493. The state-wise distribution of these coal mines is given in statement 11.1.

State	No. of coal mines		
	Captive	Non-Captive	Total
Assam	0	4	4
Chhattisgarh	7	50	57
Jammu & Kashmir	0	4	4
Jharkhand	1	139	140
Madhya Pradesh	3	67	70
Maharashtra	1	59	60
Meghalaya	0	3	3
Odisha	1	28	29
Uttar Pradesh	0	4	4
Telangana	0	47	47
West Bengal	1	74	75
All India	14	479	493

11.1.3 As on 31.03.2016, the total number of operating lignite mines was reported to be 19. The state-wise distribution of these lignite mines is given in statement 11.2.

State	No. of coal mines		
	Captive	Non-Captive	Total
Gujarat	10	0	10
Rajasthan	5	1	6
Tamilnadu		3	3
All India	15	4	19

11.1.4 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.



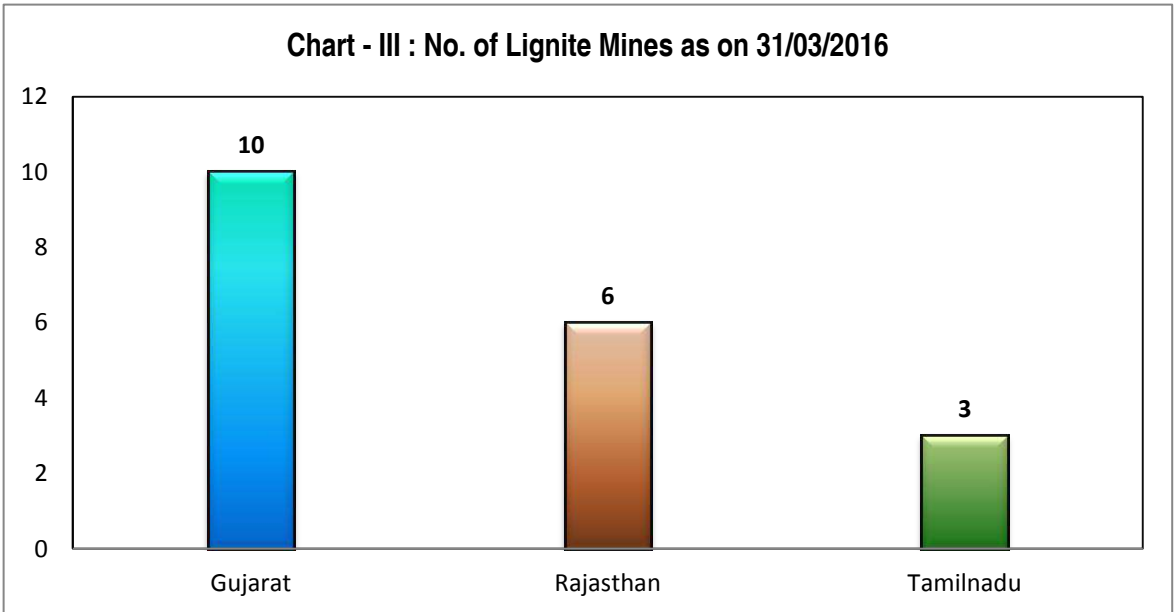
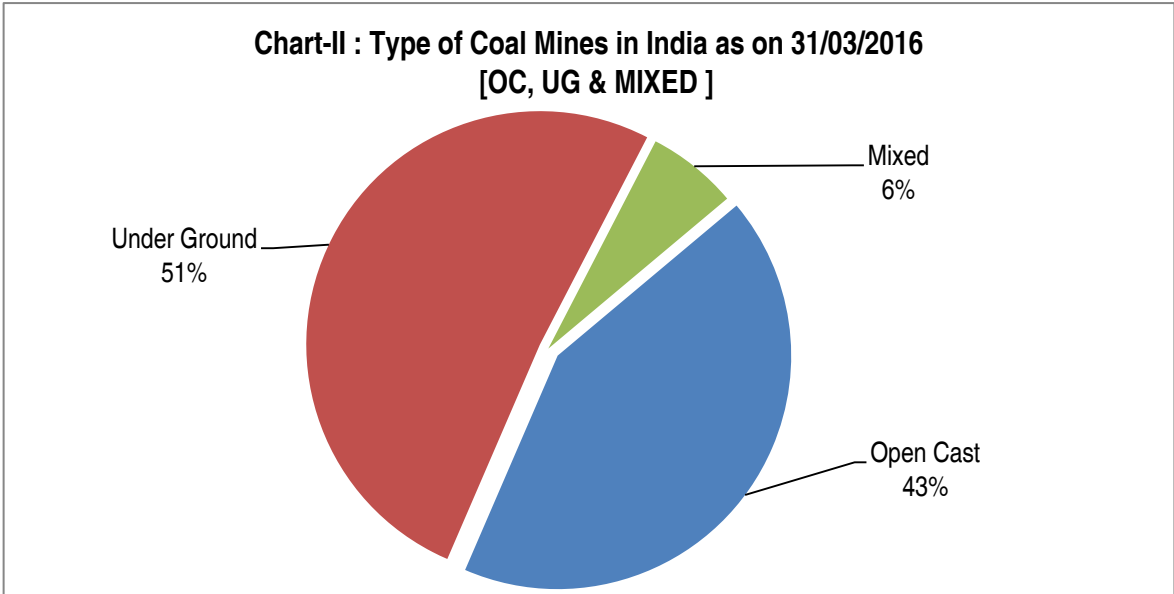
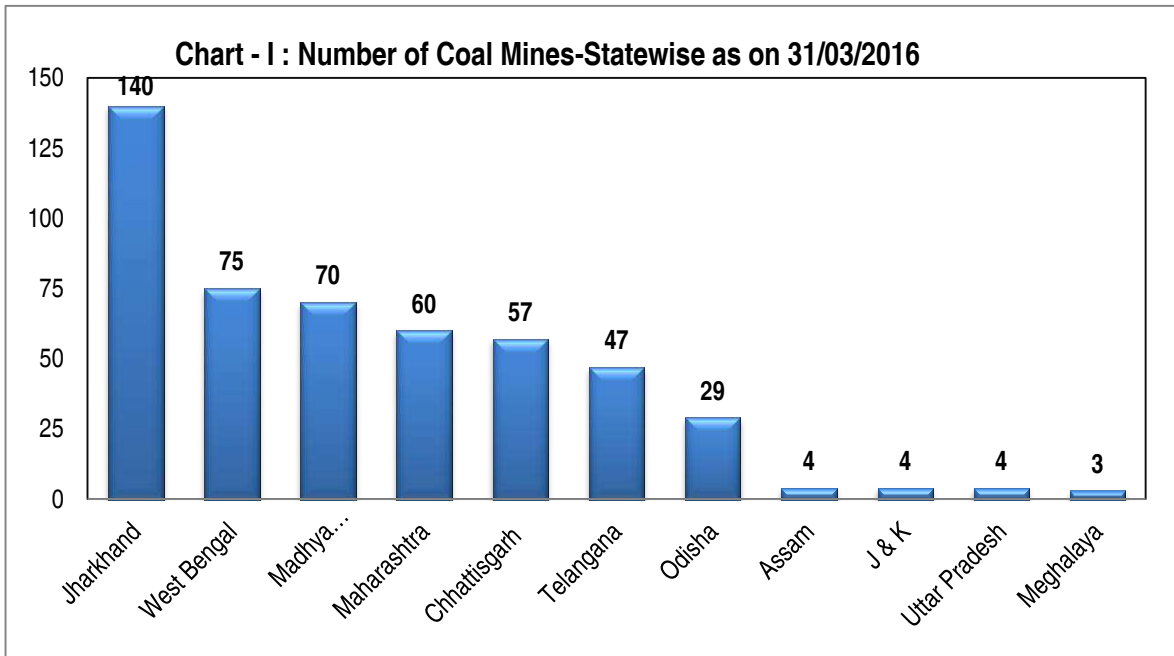


Table 11.1: Number of Coal & Lignite Mines -Companywise as on 31/03/2016

Coal / Lignite	Company	Number of Mines				
		OC	UG	Mixed	Total	
(1)	(2)	(3)	(4)	(5)	(6)	
Coal	ECL	18	60	8	86	
	BCCL	18	13	17	48	
	CCL	42	21	2	65	
	NCL	10	0	0	10	
	WCL	45	39	2	86	
	SECL	20	63	1	84	
	SECL(GP-IV/2&3)	2	0	0	2	
	MCL	18	10	0	28	
	NEC	3	1	0	4	
	CIL		176	207	30	413
	SCCL	16	31	0	47	
	JKML	0	4	0	4	
	JSMDCL	1	0	0	1	
	DVC	1	0	0	1	
	IISCO	1	2	1	4	
	SAIL	1	0	0	1	
	RRVUNL	2	0	0	2	
	PUBLIC		198	244	31	473
	TISCO	3	5	0	8	
	MEG	3	0	0	3	
	CESC	0	1	0	1	
	HIL	1	1	0	2	
	SPL	2	0	0	2	
	GMR	1	0	0	1	
	BALCO	1	0	0	1	
	SIL	0	1	0	1	
	JPVL	1	0	0	1	
PRIVATE		12	8	0	20	
Total		210	252	31	493	
Lignite	NLCL	4			4	
	GMDCL	6			6	
	GIPCL	3			3	
	GHCL	1			1	
	RSMML	3			3	
	VSLPPL	1			1	
	BLMCL	1			1	
	Total		19			19

Table 11.2: Number of Coal & Lignite Mines -Statewise as on 31/03/2016

Coal / Lignite	States	Number of Mines			
		OC	UG	Mixed	Total
(1)	(2)	(3)	(4)	(5)	(6)
Coal	Arunachal Pradesh	0	0	0	0
	Assam	3	1	0	4
	Chhattisgarh	20	36	1	57
	J & K	0	4	0	4
	Jharkhand	72	47	21	140
	Madhya Pradesh	22	46	2	70
	Maharashtra	38	22	0	60
	Meghalaya	3	0	0	3
	Odisha	19	10	0	29
	Telangana	16	31	0	47
	Uttar Pradesh	4	0	0	4
	West Bengal	13	55	7	75
	All India		210	252	31
Lignite	Gujarat	10			10
	Tamilnadu	3			3
	Rajasthan	5			5
	All India	18			18

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

Table 11.3: Number of Mines -Sectorwise as on 31/03/2016

Type	Sector	Number of Mines			
		OC	UG	Mixed	Total
(1)	(2)	(3)	(4)	(5)	(6)
COAL :	Public	198	244	31	473
	Private	12	8	0	20
	Total	210	252	31	493
LIGNITE :	Public	17			17
	Private	2			2
	Total	19			19

Table 11.4: Number of Mines -Captive/Non Captive as on 31/03/2016

Type	Sector	Number of Mines			
		OC	UG	Mixed	Total
(1)	(2)	(3)	(4)	(5)	(6)
COAL :	Captive	11	3	0	14
	Non Captive	199	249	31	479
	Total	210	252	31	493
LIGNITE :	Captive	15			15
	Non Captive	4			4
	Total	19			19

Table 11.5: Number of Mines -Public/Private, Captive/Non Captive as on 31/03/2016

Type	Sector	No. of Collieries			
		OC	UG	Mixed	Total
(1)	(2)	(3)	(4)	(5)	(6)
COAL :	Public Non-Captive	193	244	31	468
	Private Non-Captive	6	5	0	11
	Public Captive	5	0	0	5
	Private Captive	6	3	0	9
	Total	210	252	31	493
LIGNITE :	Public Captive	13			13
	Public Non-Captive	4			4
	Private Captive	2			2
	Private Non-Captive	0			0
	Total	19			19

**Table 11.6: Number of Working Coal Mines as on 31/03/2016
(including non-producing but not closed and under construction mines)**

Company	Arunachal Pradesh			Assam			Chhattisgarh				J & K			Jharkhand				Madhya Pradesh			
	OC	UG	TOTAL	OC	UG	TOTAL	OC	UG	Mixed	TOTAL	OC	UG	TOTAL	OC	UG	Mixed	TOTAL	OC	UG	Mixed	TOTAL
(1)	(5)	(6)	(1)	(2)	(3)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)
ECL						0				0			0	7	7	1	15				0
BCCL						0				0			0	17	13	17	47				0
CCL						0				0			0	42	21	2	65				0
NCL						0				0			0				0	6			6
WCL						0				0			0				0	7	18	2	27
SECL						0	14	35	1	50			0				0	6	28		34
SECL(GP-IV/2&3)						0	2			2			0				0				0
MCL						0				0			0				0				0
NEC				3	1	4				0			0				0				0
CIL	0	0	0	3	1	4	16	35	1	52	0	0	0	66	41	20	127	19	46	2	67
SCCL			0			0				0			0				0				0
JKML			0			0				0	4	4					0				0
JSMDCL			0			0				0			0	1			1				0
DVC			0			0				0			0	1			1				0
IISCO			0			0				0			0		1	1	2				0
SAIL			0			0				0			0	1			1				0
RRVUNL			0			0	2			2			0				0				0
PUBLIC	0	0	0	3	1	4	18	35	1	54	0	4	4	69	42	21	132	19	46	2	67
TISCO			0			0				0			0	3	5		8				0
MEG																					0
CESC			0			0				0			0				0				0
HIL			0			0	1	1		2			0				0				0
SPL			0			0				0			0				0	2			2
GMR			0			0				0			0	0			0				0
BALCO			0			0	1			1			0	0			0				0
SIL			0			0				0			0	0			0				0
JPVL			0			0				0			0	0			0	1			1
PRIVATE	0	0	0	0	0	0	2	1	0	3	0	0	0	3	5	0	8	3	0	0	3
Total	0	0	0	3	1	4	20	36	1	57	0	4	4	72	47	21	140	22	46	2	70

Contd...

Table 11.6: Number of Working Coal Mines as on 31/03/2016
(including non-producing but not closed and under construction mines)

Company	Maharashtra				Meghalaya		Odisha			UP		Telangana			West Bengal				All India			
	OC	UG	Mixed	TOTAL	OC	TOTAL	OC	UG	TOTAL	OC	TOTAL	OC	UG	TOTAL	OC	UG	Mixed	TOTAL	OC	UG	Mixed	TOTAL
(26)	(27)	(28)	(29)	(30)	(40)	(41)	(31)	(32)	(33)	(34)	(35)	(2)	(3)	(4)	(36)	(37)	(38)	(39)	(42)	(43)	(44)	(45)
ECL				0	0				0	0				0	11	53	7	71	18	60	8	86
BCCL				0	0				0	0				0	1			1	18	13	17	48
CCL				0	0				0	0				0				0	42	21	2	65
NCL				0	0				0	4	4			0				0	10	0	0	10
WCL	38	21		59	0				0	0				0				0	45	39	2	86
SECL				0	0				0	0				0				0	20	63	1	84
SECL(GP-IV/2&3)				0	0				0	0				0				0	2	0	0	2
MCL				0	0	18	10	28		0				0				0	18	10	0	28
NEC				0	0				0	0				0				0	3	1	0	4
CIL	38	21	0	59	0	0	18	10	28	4	4	0	0	0	12	53	7	72	176	207	30	413
SCCL				0	0				0	0	16	31	47					0	16	31	0	47
JKML				0	0				0	0				0				0	0	4	0	4
JSMDC				0	0				0	0				0				0	1	0	0	1
DVC				0	0				0	0				0				0	1	0	0	1
IISCO				0	0				0	0				0	1	1		2	1	2	1	4
SAIL				0	0				0	0				0				0	1	0	0	1
RRVUNL				0	0				0	0				0				0	2	0	0	2
PUBLIC	38	21	0	59	0	0	18	10	28	4	4	16	31	47	13	54	7	74	198	244	31	473
TISCO				0	0				0	0				0				0	3	5	0	8
MEG					3	3													3	0	0	3
CESC				0	0				0	0				0	1			1	0	1	0	1
HIL				0	0				0	0				0				0	1	1	0	2
SPL				0	0				0	0				0				0	2	0	0	2
GMR				0	0	1		1		0				0				0	1	0	0	1
BALCO				0	0				0	0				0				0	1	0	0	1
SIL		1		1	0				0	0				0				0	0	1	0	1
JPVL				0	0				0	0				0				0	1	0	0	1
PRIVATE	0	1	0	1	3	3	1	0	1	0	0	0	0	0	0	1	0	1	12	8	0	20
Total	38	22	0	60	3	3	19	10	29	4	4	16	31	47	13	55	7	75	210	252	31	493

Table 11.7: Number of Working Lignite Mines as on 31/03/2016

Company	Captive & Non Captive	Public & Private	GUJARAT			TAMILNADU			RAJASTHAN			All India		
			OC	UG	TOTAL	OC	UG	TOTAL	OC	UG	TOTAL	OC	UG	TOTAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
NLCL	Non Captive	Public			0	3		3	1		1	4	0	4
GMDCL	Captive	Public	6		6			0			0	6	0	6
GIPCL	Captive	Public	3		3			0			0	3	0	3
GHCL	Captive	Private	1		1			0			0	1	0	1
RSMML	Captive	Public			0			0	3		3	3	0	3
VSLPPL	Captive	Private			0			0	1		1	1	0	1
BLMCL	Captive	Public			0			0	1		1	1	0	1
TOTAL			10	0	10	3	0	3	6	0	6	19	0	19

**TABLE 11.8: NO. OF COAL MINES CAPTIVE, NON-CAPTIVE, PUBLIC AND PRIVATE
AS WELL AS STATE-WISE BREAKUP as on 31/03/2016**

State	Captive	Non-Captive	Total	Public	Private	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Arunachal Pradesh	0	0	0	0	0	0
Assam	0	4	4	4	0	4
Chhattisgarh	7	50	57	54	3	57
Jammu & Kashmir	0	4	4	4	0	4
Jharkhand	1	139	140	132	8	140
Madhya Pradesh	3	67	70	67	3	70
Maharashtra	1	59	60	59	1	60
Meghalaya	0	3	3	0	3	3
Odisha	1	28	29	28	1	29
Uttar Pradesh	0	4	4	4	0	4
Telangana	0	47	47	47	0	47
West Bengal	1	74	75	74	1	75
All India	14	479	493	473	20	493

**TABLE 11.9: NO. OF LIGNITE MINES CAPTIVE, NON-CAPTIVE, PUBLIC AND PRIVATE
AS WELL AS STATE-WISE BREAK UP as on 31/03/2016**

State	Captive	Non-Captive	Total	Public	Private	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Gujarat	10	0	10	9	1	10
Rajasthan	5	1	6	5	1	6
Tamilnadu		3	3	3		3
All India	15	4	19	17	2	19

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 01-04-2016 is 576 Million Tonnes (89 Million Tonnes proved, 17 Million Tonnes Indicated and 471 Million Tonnes Inferred). The quantity of coal produced in the state during the previous 21 years is given below.

(Quantity in Million Tonnes)

SI No.	Year	Production
1	1995-1996	3.248
2	1996-1997	3.241
3	1997-1998	3.234
4	1998-1999	4.238
5	1999-2000	4.060
6	2000-2001	4.065
7	2001-2002	5.149
8	2002-2003	4.406
9	2003-2004	5.439
10	2004-2005	5.345
11	2005-2006	5.566
12	2006-2007	5.787
13	2007-2008	6.541
14	2008-2009	5.489
15	2009-2010	5.767
16	2010-2011	6.974
17	2011-2012	7.206
18	2012-2013	5.640
19	2013-2014	5.732
20	2014-2015	2.524
21	2015-2016	3.712

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, Khasi Hills (East & West).

Area Wise Production of Coal in Meghalaya during Last Ten Years

(Quantity in Million Tonnes)

Years	Jaintia Hills	Garo Hills	Khasi Hills	Total
2006-07	3.046	1.175	0.566	5.787
2007-08	4.360	1.370	0.811	6.541
2008-09	2.891	1.004	1.594	5.489
2009-10	3.722	1.562	0.483	5.767
2010-11	4.743	1.940	0.291	6.974
2011-12	4.622	2.108	0.476	7.206
2012-13	2.870	2.380	0.390	5.640
2013-14	2.781	2.519	0.432	5.732
2014-15	1.601	0.395	0.528	2.524
2015-16	1.662	0.701	1.349	3.712

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

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

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

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

Monthly Production /Despatch of Meghalaya coal during 2015-16

(Quantity in Million Tonnes)

Month	Production
April'15	0.408
May'15	0.860
June'15	0.490
July'15	0.000
August'15	0.017
September'15	0.124
October'15	0.220
November'15	0.510
December'15	0.000
January'16	0.240
February'16	0.364
March'16	0.479
Total 2015-16	3.712

COAL COMPANIES:

ECL	Eastern Coalfields Limited (Coal India Ltd. Subsidiary) -Public - Non Captive
BCCL	Bharat Coking Coal Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
CCL	Central Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
NCL	Northern Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
WCL	Western Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
SECL	South Eastern Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
SECL(GP-IV/2&3)	Gare Palma IV/2 & 3 (This to Coal Blocks are now under the Custody of SECL(Coal India Ltd. Subsidiary) - Public - Captive
MCL	Mahanadi Coalfields Limited (Coal India Ltd. Subsidiary) - Public - Non Captive
NEC	North Eastern Coalfields (Coal India Ltd. Subsidiary) - Public - Non Captive
SCCL	Singareni Collieries Company Limited - Public - Non Captive
JKML	Jammu & Kashmir Minerals Limited - Public - Non Captive
JSMDCL	Jharkhand State Mineral Development Corporation Limited - Public - Non Captive
DVC	Damodar Valley Corporation - Public - Non Captive
DVC EMTA	DVC Emta Coal Mines Limited - Public - Captive
IISCO	Indian Iron & Steel Company Limited - Public - Non Captive
SAIL	Steel Authority of India Limited - Public - Captive
APMDTCL	Arunachal Pradesh Mineral Development & Trading Corp. Ltd. - Public - Non Captive
WBPDCL	West Bengal Power Development Corporation Limited - Public - Captive
RRVUNL	Rajasthan Rajya Vidyut Unnayan Nigam Limited - Public - Captive
WBMDTCL	West Bengal Mineral Development and Trading Corporation Limited - Public - Captive
PSEB-PANEM	Panjab State Electricity Board/Panem Coal Mines Limited - Public - Captive
MPSMCL	Madhya Pradesh State Mineral Corporation Limited
ICML	Integrated Coal Mining Limited - Private - Captive
JSPL	Jindal Steel & Power Limited - Private - Captive
TISCO	Tata Iron & Steel Company Limited - Private - Non Captive
HIL	Hindalco Industries Limited - Private - Captive
BLA	BLA Industries Limited - Private - Captive
MIEL	Monnet Ispat & Energy Limited - Private - Captive
PIL	Prakash Industries Limited - Private - Captive
JNL	Jayswal Neco Limited - Private - Captive
JPL	Jindal Power Open Cast Coal Mine - Private - Captive
SIL	Sunflag Iron & Steel Company Limited - Private - Captive
ESCL	Electro Steel Casting Limited - Private - Captive
UML	Usha Martin Limited - Private - Captive
KECML	Karnataka Emta Coal Mines Limited - Public - Captive
SEML	Sarda Energy & Minerals Limited - Private - Captive
BSIL	B. S. Ispat Limited - Private - Captive
TUML	Topworth Urja and Minerals Limited - Private - Captive
SPL	Sasan Power Limited - Private - Captive
SOVA	Sova Ispat Limited - Private - Captive
CESC	CESC Limited - Private - Captive
GMR	GMR Chhattisgarh Energy Limited - Private - Captive
BALCO	Bharat Aluminium Company Limited - Private - Captive
JPVL	Jaiprakash Power Ventures Limited - Private - Captive

LIGNITE COMPANIES:

NLC	Neyveli Lignite Corporation Limited - Public - Non Captive
GIPCL	Gujarat Industries Power Company Limited - Public - Captive
GMDCL	Gujarat Mineral Development Corporation Limited - Public - Captive
GHCL	Gujarat Heavy Chemical Limited - Private - Captive
RSMML	Rajasthan State Mines and Mineral Limited - Public - Captive
VS LIGNITE	V. S Lignite Power Limited - Private - Captive
BLMCL	Barmer Lignite Mining Company Limited - Public - Captive

O.C.	OPEN CAST
U.G.	UNDER GROUND
OBR	Over Burden Removal

