



सत्यमेव जयते

कोल डाईरेक्टरी ऑफ इंडिया
COAL DIRECTORY OF INDIA

2016-17

कोयला सांख्यिकी
COAL STATISTICS

भारत सरकार
कोयला मंत्रालय
कोयला नियंत्रक का कार्यालय
कोलकाता

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

COAL DIRECTORY OF INDIA 2016-17

Coal Statistics



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

COAL DIRECTORY OF INDIA 2016-17

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 syngas, 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 2016-17** an exhaustive data-base related to coal & lignite.

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

Suggestions for further improvement are most welcome.

Kolkata :
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(Anjani Kumar)
Coal Controller

Team Associated with the Publication

Sri Anjani Kumar	Coal Controller
Sri Anupam Lahiri	Director
Sri Indradeep Roy Chowdhury	Deputy Director
Dr. Sujoy Majumder	Officer on Special Duty
Sri Kingshuk Mukhopadhyay	Officer on Special Duty
Sri Goutam Bandyopadhyay	Accountant
Sri Sukumar Das	Superintendent
Sri Sumanta Biswas	UDC
Miss Manashi Goswami	Jr. Computor
Sri Amit Kumar	LDC
Mrs Ruma Nayak	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 backdrop of the then existing unsatisfactory mining conditions, violation of mine safety norms, industrial unrest, inadequate capital investments in mine development, reluctance to mechanise the mining, etc. It also aimed at meeting the long range coal requirements of the country.

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

(Emergency Provisions) Ordinance was promulgated by the Government of India on 16.10.1971 under which except the captive mines of TISCO and IISCO, the management of all coking coal mines was taken over by the Government. A new company called Bharat Coking Coal Limited was formed as a subsidiary company of Steel Authority of India Limited to manage the taken over mines. These mines were subsequently nationalised w.e.f. 1.5.1972. Later on the management of 711 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 31.03.2017 re-allocation (either vested, allotted or custodian) were done in respect of 84 coal blocks. 10 blocks started production, 3 more coal blocks have been given to Coal India Limited had started production. Moher & Moher Amlori was already continuing production. Pakri-Barwardi of NTPC which was also not cancelled, started production. In 2016-17, production from those Captive Coal Blocks was 37.434 MT.

Under the "Auction by Competitive Bidding Rules, 2012", 13 regionally explored coal blocks have been allotted to Central/State Government companies up to 31.03.2017.

Therefore, as on 31.03.2017, numbers of coal blocks stand exist as 107 (vested/allotted -77 + Custodian – 07 + Under Auction by Competitive Bidding Rules,

2012 – 13 and blocks allocated through earlier dispensations – 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 2016-17, the total production of raw coal in India was 657.868 MT whereas it was 639.230 MT in 2015-16. Thus in 2016-17, production of coal increased by 2.9% over 2015-16. In the year 2016-17, production of lignite was 45.230 MT against 43.842 MT in 2015-16, thus in 2016-17 production increased by 3.2% over 2015-16. [Ref : table 3.1]

1. The contribution of public sector and private sector in the production of Raw Coal in 2016-17 was as follows: [Ref : table 3.8]

Production of Raw Coal in 2016-17 (MT)			
Sector	Coking	Non Coking	Total Coal
Public	55.345	569.851	625.196
Private	6.316	26.356	32.672
All India	61.661	596.207	657.868

2. The production of coking coal in 2016-17 was 61.661 MT whereas it was 60.887 MT in 2015-16, thus 1.27% growth over 2015-16. In 2016-17, the production of non-coking coal was 596.207 MT whereas it was 578.343 MT in 2015-16, thus 3.09% growth over 2015-16. [Ref Table: 3.8].
3. In 2016-17, the production of washed coal (coking) was 6.414 MT compared to 6.182 MT in 2015-16, thus increased by 3.8% over 2015-16. In 2016-17, production of middling (coking) was 4.598 MT whereas in 2015-16 it was 5.525 MT, thus decreased by 16.8% over 2015-16. [Ref Table: 3.3]
4. In 2016-17, Odisha registered highest coal production of 139.359 MT (21.2%) followed by Chhattisgarh 138.525 MT (21.1%), Jharkhand 126.435 MT (19.2%) and Madhya Pradesh 105.013 MT (16.0%). In 2016-17, Tamil Nadu was the largest producer of lignite and produced 26.204 MT (57.9%) followed by Gujarat 10.546 MT (23.3%) and Rajasthan 8.480 MT (18.7%). [Ref Table: 3.6 & 3.7]
5. Coal India Limited produced 554.140 MT (84.2%) and SCCL 61.336 MT (9.3%) of coal in 2016-17. In that year main producer of lignite was Neyveli Lignite Corporation and produced 27.617 MT (61.1%). [Ref Table: 3.8]
6. Like previous years in 2016-17, Jharkhand produced the maximum coking coal in India, 59.604 MT which was 96.7% of total coking coal production (61.661 MT). As the highest non-coking coal producing state, Odisha produced 139.359 MT (23.4 %) followed by Chhattisgarh 138.415 MT (23.2%) and Madhya Pradesh 104.882 (17.6%). [Ref Table: 3.9]
7. In 2016-17, around 93.3% of coal production in India was from opencast mines (613.518 MT) and the rest 6.7% was from underground mines (44.350 MT). [Ref Table:-3.16]. SECL produced highest

quantity of coal from underground mines, 14.548 MT (32.8%) followed by SCCL which produced 9.515 MT (21.5%). [Ref Table: 3.17]

8. Overall stripping ratio for the year 2016-17 was 2.65 (stripping ratio is defined as the ratio of overburden removal to coal produced in open cast mining.) [Ref table 3.19]
9. Productivity (OMS) of opencast mines in 2016-17 was 15.0 Tonnes for CIL and 13.85 Tonnes for SCCL. OMS for underground mines of CIL was 0.80 Tonnes and for SCCL was 1.18 Tonnes.(OMS is the output measured in tonnes per unit of man-shift) [Ref table: 3.20].

(B) Despatch

1. In the year 2016-17, despatch of indigenous raw coal was 645.978 MT against 632.442 MT in 2015-16, increased by 2.14% over 2015-16. In 2016-17, despatch of lignite was 43.155 MT against 42.211 MT in 2015-16, increased by 2.2% over 2015-16. [Ref table : 4.1]
2. The contribution of public sector and private sector in the despatch of raw coal in 2016-17 was as follows: [Ref table : 4.8]

Despatch of Raw Coal in 2016-17 (MT)			
Sector	Coking	Non-coking	Total Coal
Public	52.997	560.401	613.398
Private	6.311	26.269	32.580
All India	59.308	586.670	645.978

3. Despatch of coking coal marginally increased to 59.308 MT in 2016-17 from 59.213 MT in 2015-16. [Ref: Table 4.8].
4. In 2016-17, despatch of non-coking coal was 586.670 MT whereas it was 573.229 MT in 2015-16, thus increased by 2.34% over 2015-16. [Ref table : 4.8]
5. In 2016-17, despatch of washed coal (coking) was 6.515 MT against 6.068 MT in 2015-16, increased by 7.4% over 2015-16. Whereas in 2016-17, despatch of middling (coking) was 4.525 MT against 5.735 MT in 2015-16, decreased by 21.1% over 2015-16. [Ref table : 4.3]
6. In 2016-17, major quantity of coal was despatched from Odisha 143.287 MT (22.2%) followed by Chhattisgarh 135.268 MT (20.9%), Jharkhand 120.739 MT (18.7%), Madhya Pradesh 87.743 MT (13.6%) and Telangana 60.791 MT (9.4%). [Ref table : 4.6]
7. In case of lignite despatch, Tamil Nadu had the highest share of 24.165 MT (53.0%) followed by Gujarat 10.545 MT (24.4%) and Rajasthan 8.445 MT (19.6%). [Ref table : 4.7]
8. Out of the total despatch of raw coal in 2016-17, despatch of CIL was 542.981 MT (84.1%) and SCCL 60.791 MT (9.4%). Among the other PSUs maximum coal was despatched by RRVUNL 8.267 MT. Despatch of coal from private sector was 32.580 MT in which SPL had the largest share of 17.101 MT followed by TISCO of 6.311 MT. [Ref table : 4.8]
9. Power Sector (Utility) continued to be the largest user of coal. In 2016-17, coal despatched to power sector was 489.571 MT (76.0%) compared to 483.124 MT (76.4%) in 2015-16. Coal despatched to steel sector was 10.131 MT in 2016-17 and 12.273 MT in 2015-16. Coal despatched to cement sector was 6.356 MT in 2016-17 compared to 8.985 MT in 2015-16 [Ref table : 4.18]
10. In 2016-17, out of total despatch (external) of raw coal, despatch by rail (external) was 326.607 MT (53.5%) and by road (external) 171.746 MT (28.1%). [Ref table : 4.15]

(C) Pit Head Closing Stock

1. Pit-head closing stock of raw coal at the end of 2016-17 was 76.889 MT against 65.361 MT at the end of 2015-16. Closing Stock of lignite at the end of 2016-17 was 6.883 MT whereas it was 4.809 MT at the end of 2015-16. [Ref table : 5.1]. Out of total closing stock at the end of 2016-17, share of public sector was 76.215 MT. [Ref table: 5.6]
2. At the end of 2016-17, Pit-head closing stock of coking coal was 11.165 against MT 8.724 MT at the end of 2015-16 and pit-head closing stock of non-coking coal was 65.724 MT at the end of 2016-17 against MT 56.637 MT at the end of 2015-16 [Ref table :5.2].

(D) Import and Export

1. In 2016-17, total import of coal was 190.953 MT compared to 203.949 MT in 2015-16, a decrease of 6.37% over 2015-16. In 2016-17, import of coking coal was 41.644 MT compared to 44.561 MT in 2015-16, a decrease of 6.55% over 2015-16. Import of non-coking coal was 149.309 MT in 2016-17 compared to 159.388 MT in 2015-16-15, a decrease of 6.32% over 2015-16. [Ref table : 7.1]
2. In 2016-17, coal was mainly imported from Indonesia (91.261 MT), Australia (46.654 MT), South Africa (33.980 MT), USA (5.097 MT), Russia (4.200 MT) and Mozambique (3.707 MT) [Ref table : 7.3]
3. In 2016-17, coal was mainly imported through Krishnapatnam (16.210 MT), Paradip Sea (15.998 MT), Sez Mundra (15.855 MT), Mundra (14.893 MT), Dharma Chandbali (12.734 MT), Kandla (11.336 MT) and Gangavaram (11.237 MT) ports. [Ref table : 7.5]
4. In 2016-17, export of coal was 1.773 MT compared to 1.575 MT in 2015-16. Coal was mainly exported to Bangladesh (1.051 MT) and Nepal (0.639 MT). [Ref table : 7.4]
5. Coal was mainly exported through Borsorah (0.550 MT), Panitanki (0.448 MT), Chasuapara (0.251 MT), Nautanwa/ Sonauli (0.118 MT) and Dawki (0.116) ports. [Ref table :7.6]

(E) Captive Coal block

1. In the year 2016-17, the total production of raw coal from captive coal blocks in India was 37.434 MT compared to 31.101 MT in 2015-16, resulting an increase of 20.36% over 2015-16. During 2016-17, production of coal from coal blocks allocated for Power Sector was 27.381 MT over 25.670 MT coal produced in 2015-16. [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
2012-13	Provisional	51.834	505.873	557.707	46.598	55.212	514.555	569.767	46.312
	Final	51.582	504.82	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	572.06	43.897
	Change (F-P)	0.00%	0.00%	0.00%	0.00%	0.28%	0.13%	0.14%	0.00%
2014-15	Provisional	57.451	554.984	612.435	48.257	56.614	551.016	607.63	46.941
	Final	57.446	551.733	609.179	48.27	56.438	547.334	603.772	46.954
	Change (F-P)	-0.01%	-0.59%	-0.53%	0.03%	-0.31%	-0.67%	-0.63%	0.03%
2015-16	Provisional	60.887	578.347	639.234	43.843	59.213	572.956	632.169	42.212
	Final	60.887	578.343	639.23	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%
2016-17	Provisional	61.661	601.131	662.792	45.23	59.545	590.774	650.319	43.155
	Final	61.661	596.207	657.868	45.23	59.308	586.670	645.978	43.155
	Change (F-P)	0.00%	-0.82%	-0.74%	0.00%	-0.40%	-0.69%	-0.67%	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 01.04.2017 was 3,15,149 Million Tonnes. The type wise break up of coal reveals that reserve of coking coal (prime, medium and semi-coking) was 34,534 Million Tonnes and non-coking coal was 2,80,615 Million Tonnes.

Total coal extracted since 1950 up to 2016-17 was around 144,41,821 Million Tonnes.

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

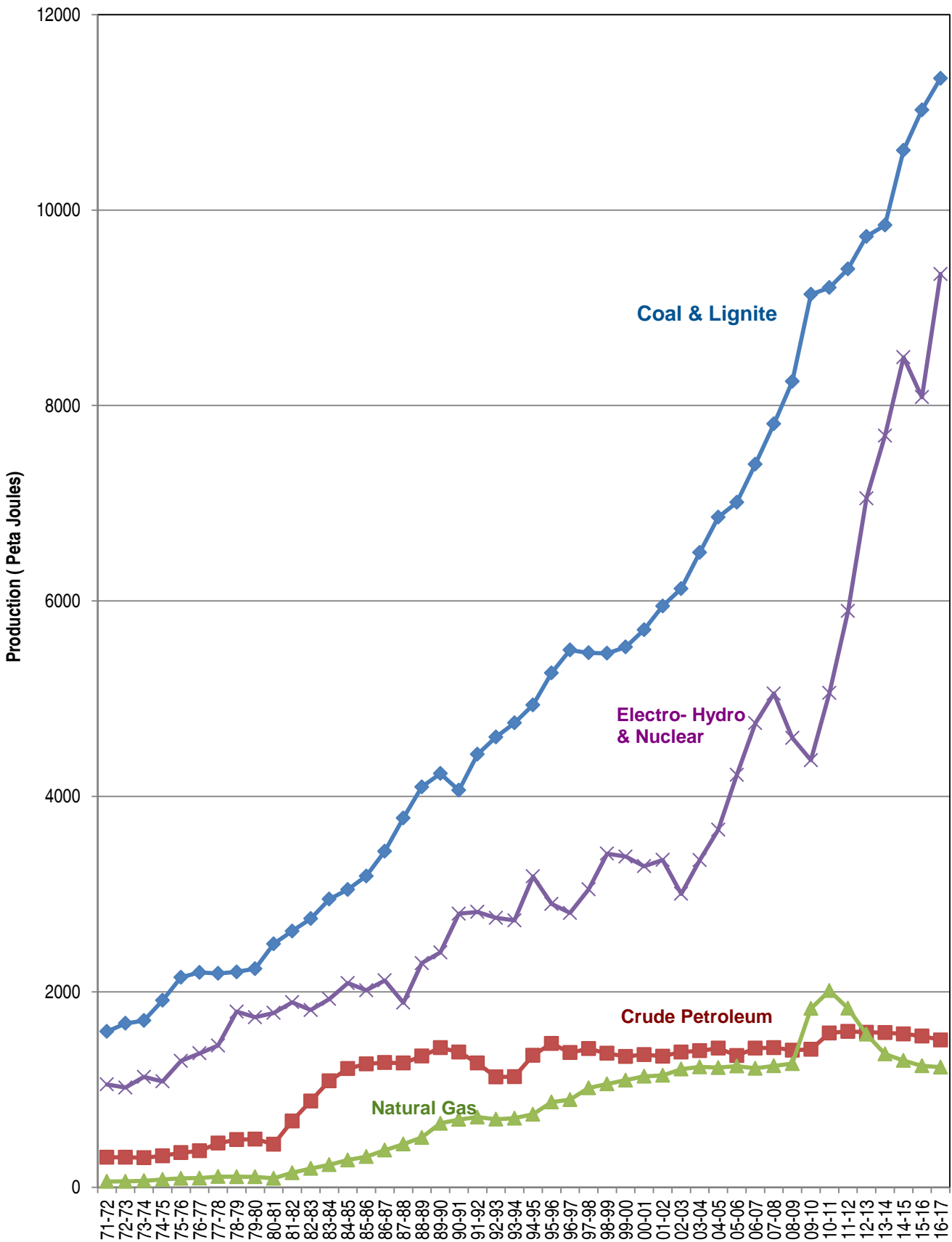


Table 1.1: INDIAN ECONOMY - SELECTED INDICATORS

Sl. No.	Indicator	Unit/base	2012-13	2013-14	2014-15	2015-16	2016-17
(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	1208	1224	1239	1268	1283
3.	Gross Domestic Product at factor cost (base 2011-12) :						
	(i) At current prices	Rs.Billion	99513	112728	124882	137640	152537
	(ii) At constant prices	"	92269	98394	105522	113861	121960
4.	Net National Income at factor cost (base 2011-12) :						
	(i) At current prices	Rs.Billion	87746	99344	110076	121540	134927
	(ii) At constant prices	"	81095	86153	92350	99851	106816
5.	Per Capita Net National Income :						
	(i) At current prices	Rupees	71050	79412	86879	94731	103870
6.	Foreign Exchange Reserves (as on 1st April -2016)						
	(i) Gold	US \$ Million	293360	20978	19038	20115	21615
	(ii) SDR	Mn. Of SDR	4342	4458	4022	1502	1544
	(iii) Foreign Exchange	US \$ Million	260415	276406	318643	335869	399118
7.	Foreign Trade :						
	(i) Import	Rs.Billion	26691.62	30232.73	27370.87	24902.98	25776.66
	(ii) Export	"	16343.19	20543.68	18963.48	17163.78	18494.29
	(iii) Balance of Trade	"	-10348.43	-9689.05	-8407.38	-7739.20	-7282.37
8.	Index of Production :						
	(i) Industrial	2004-05=100	169.6	169.6	176.8	179.5	120*
9.	Wholesale Price Index :	2004-05=100	168.0	172.7	181.2	176.7	183.2
10.	Consumer Price Index:						
	(i) Industrial Workers #	2001=100	209	232	247	261	281
	(ii) Agricultural Labourers	1986-87=100	652	735	788	825	797
	(iii) Urban non-manual workers	1984-85=100	-	-	-	-	-
11.	Fuel (gross)						
	Coal	Mn.Tonne	556.402	565.765	609.179	639.230	657.868
	Lignite	"	46.453	44.271	48.27	43.842	45.230
	Natural Gas	Bn.Cub.Mtr.	40.680	35.400	33.660	32.249	31.897
	Crude Oil	Mn.Tonne	37.860	37.776	37.460	36.942	36.009
	Petroleum Products(Incl RBF)	"	182.316	220.756	221.140	231.923	243.551
12.	Electricity Generated (Gr.)						
	(i) Utilities						
	Hydel	B.KWH	114.0	135.0	129.0	121.4	122.4
	Thermal	"	761.0	792.0	952.0	943.0	994.0
	Nuclear	"	33.0	34.0	36.0	37.4	37.9
	Total	"	908.0	961.0	1117.0	1167.6	1154.3
	(ii) Non-utilities	"	148.0	169.0	162.0	0.0	0.0
	Grand Total	"	1056.0	1130.0	1279.0	1167.6	1154.3

: calender year basis, Q : Quick Estimates.

* Base year is 2011-12

** Based on Calender Year data

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

Sl. No.	Item	Unit	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	Reserves (Proved)							
	(i) Coking Coal	Mn.Tonne	17,933	18,365	18,399	18,003	18,485	18,634
	(ii) Non Coking	"	1,00,211	1,04,816	1,07,509	113129	1,19,602	1,24,423
	(iii) Lignite	"	6,181	6,181	6,181	6,182	6,182	6,541
2	Consumption							
	(i) Coal	Mn.Tonne	638.734	713.389	739.342	822.131	836.727	835.803
	(ii) Lignite	"	41.883	46.313	43.897	46.954	42.211	43.155
	(iii) Coal Products*	"	41.970	43.867	43.554	46.537	43.020	43.173
3	Production :							
	(i) Coal	Mn.Tonne	539.950	556.402	565.765	609.179	639.230	657.868
	(ii) Lignite	"	42.332	46.453	44.271	48.270	43.842	45.230
	(iii) Coal Products*	"	39.241	41.723	43.758	46.146	43.194	45.065
4	Imports							
	(a) Qty : Coal	Mn.Tonne	102.853	145.785	166.857	217.783	203.949	190.953
	Coal Products	"	2.365	3.081	4.171	3.294	3.072	4.346
	Lignite	"		0.001	0.001	0.001	0.001	0.019
	Total (a)	"	105.217	148.867	171.029	221.077	207.022	195.319
	(b) Value: Coal	Rs.Million	788376	868455	923292	1045066	860338	1002314
	Coal Products	"	47585	56919	67995	43806	32684	54019
	Lignite	"		10	24	17	15	433
	Total (b)	"	835960	925384	991310	1088889	893036	1056767
5	Exports							
	(a) Qty : Coal	Mn.Tonne	2.014	2.443	2.188	1.238	1.575	1.773
	Coal Products	"	0.613	1.201	0.154	0.102	0.149	0.089
	Lignite	"		0.069	0.002	0.003	0.001	0.005
	Total (a)	"	2.627	3.713	2.344	1.343	1.724	1.867
	(b) Value: Coal	Rs.Million	5900	8651	10840	7197	8998	9669
	Coal Products	"	11525	6017	1521	1140	1494	1063
	Lignite	"		360	61	40	9	305
	Total (b)	"	17425	15029	12423	8377	10501	11038
6	Unit Value of coal imports (gr.)	Rs./Tonne	7665	5957	5533	4799	4218	5249
7	India's Total Exports	Rs.Million	13970200	16343188	18736494	18963484	17088414	17561659
8	India's Total Imports	Rs.Million	22475600	26691620	26976116	27370866	24813672	24063319
9	(i) Coal imports as percentage of India's total import	%	3.7	3.5	3.7	4.0	3.6	4.4
	(ii) Coal exports as percentage of India's total export	%	0.1	0.1	0.1	0.0	0.1	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
16-17	703098	11348	36009	1508	31897	1229	259588	9345	23430

* 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 : 2007-08 to 2016-17

(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)
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	0.001	0.069	-0.068	1.051	1.493	-0.442	45.943
	Total	602.855	145.786	2.512	143.274	75.091	64.542	10.549	756.678
2013-14	Coal	565.765	166.857	2.188	164.669	63.049	55.514	7.535	737.969
	Lignite	44.271	0.001	0.002	-0.001	1.493	1.860	-0.367	43.903
	Total	610.036	166.858	2.190	164.668	64.542	57.374	7.168	781.872
2014-15	Coal	609.179	217.783	1.238	216.545	55.514	59.389	-3.875	821.849
	Lignite	48.270	0.001	0.003	-0.002	1.860	3.176	-1.316	46.952
	Total	657.449	217.784	1.241	216.543	57.374	62.565	-5.191	868.801
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
2016-17	Coal	657.868	190.953	1.773	189.180	65.361	75.952	-10.591	836.457
	Lignite	45.230	0.019	0.005	0.014	4.809	6.883	-2.074	43.170
	Total	703.098	190.972	1.778	189.194	70.170	82.835	-12.665	879.627

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 2017, in situ geological resources of coal in India up to a depth of 1200 meters is 315.149 Billion Tonnes (BT) which includes proved, indicated and inferred resources. Out of the total geological resources in the country, 297.190 BT (94.30%) are shared by six states, Jharkhand 82.440 BT (26.16%), Odisha 77.285 BT (24.52%), Chhattisgarh 56.661 BT (17.98%), West Bengal 31.667 BT (10.45%), Madhya Pradesh 27.673 BT (8.78%) and Telangana 21.464 BT (6.81%).

2.4.2 Out of the total resource of 315.149 BT as on 1st April, 2017, the share of proved, indicated and inferred resources are 143.058 BT, 139.311 BT and 32.780 BT respectively.

2.4.3 Of the total resources, the share of Prime Coking was 5.313 BT (1.69%), Medium Coking 27.513 BT (8.73%), Blendable / Semi Coking 1.708 BT (0.54%). Share of Non-coking coal (Including High Sulphur) was 280.615 MT (89.04%). It is to be noted that the increase in the total resource from 2015 to 2017 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**.

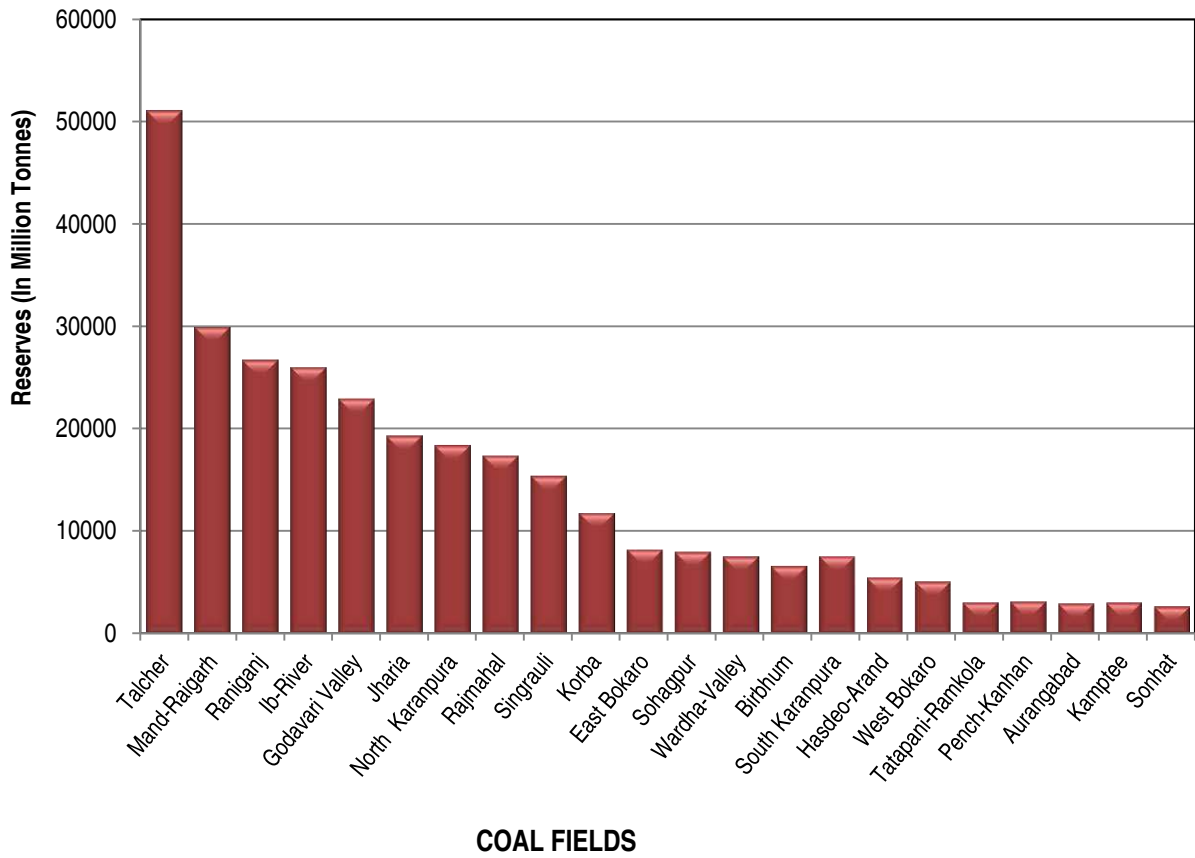
2.5.1 Total lignite resources of the country as on 1st April 2017 was 44.698 Billion Tonnes (BT) which included proved, indicated and inferred resources. Out of the total lignite resources, almost all i.e. 44.240 BT (98.98%) was shared by three major states, Tamil Nadu 35.782 BT (80.05%), Rajasthan 5.736 BT (12.83%) and Gujarat 2.722 BT (6.09%).

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**.

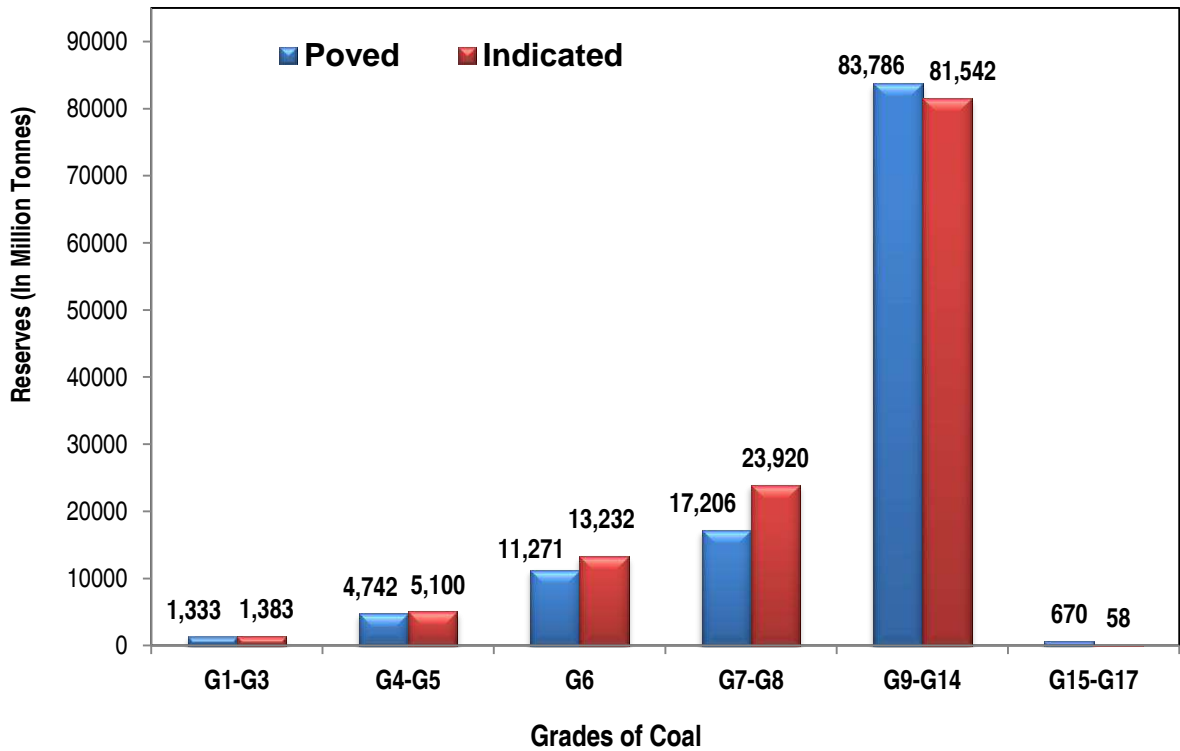
2.6 The different exploration stages and agencies involved in the exercise are summarized below for easy comprehension of the readers.

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 01/04/2017



Ch. 2.2: GRADEWISE GEOLOGICAL RESERVE OF NON-COKING COAL IN GONDAWANA COALFIELDS AS ON 01/04/2017



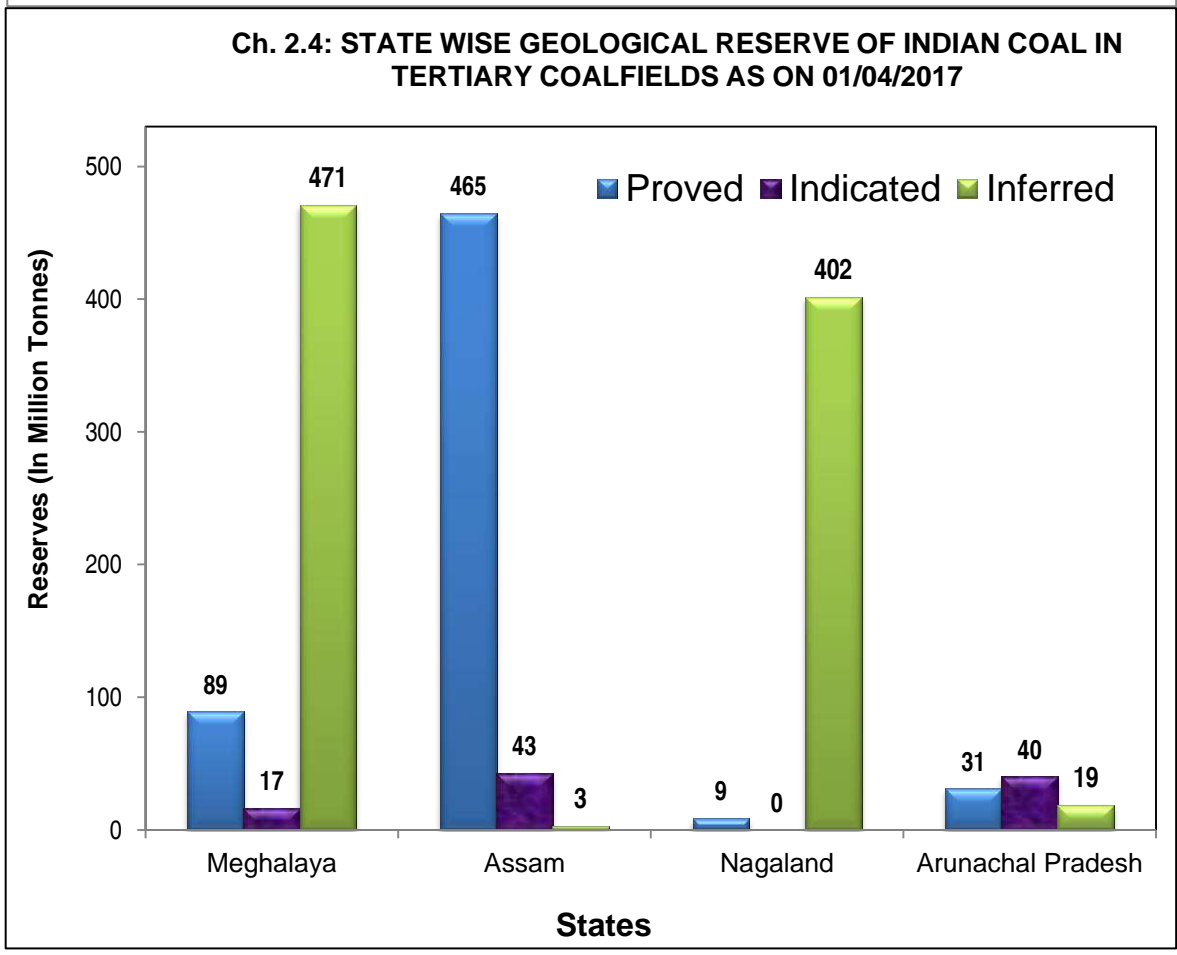
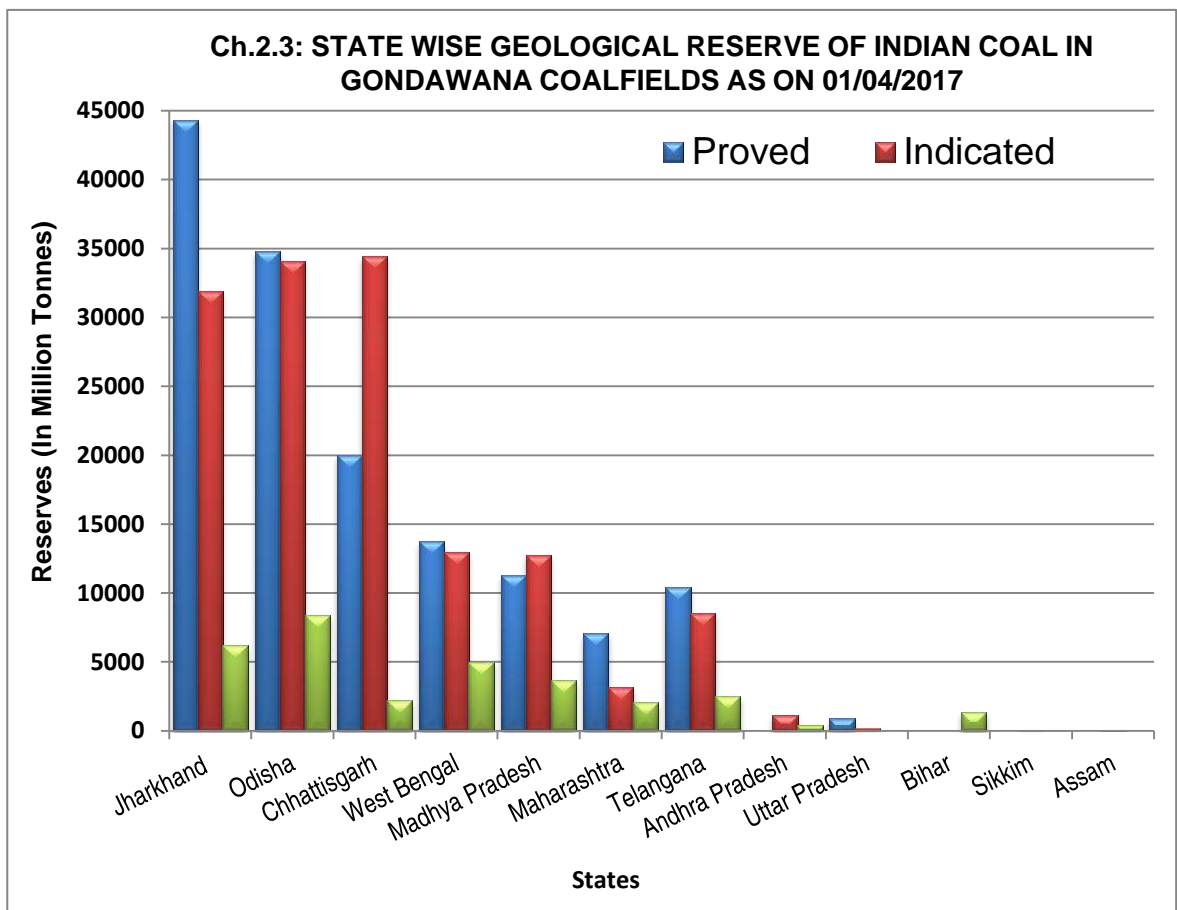
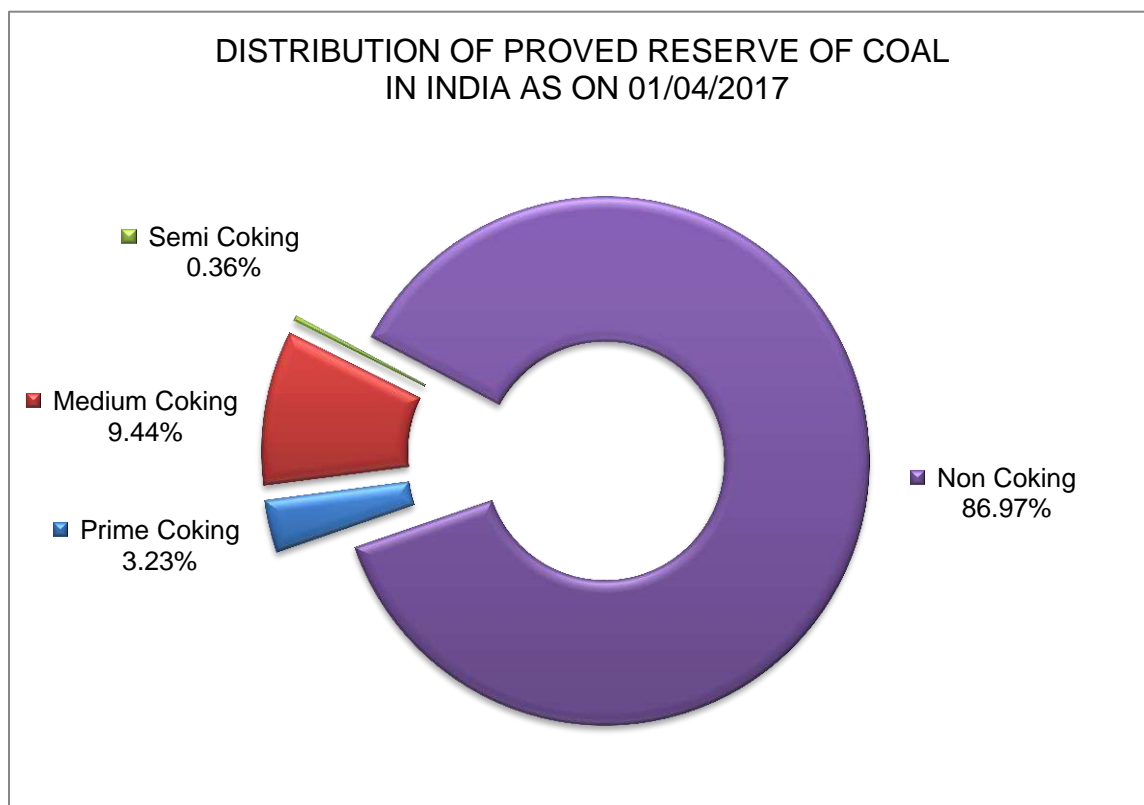


TABLE - 2.1: INVENTORY OF GEOLOGICAL RESERVE OF COAL BY TYPE AS ON 1st APRIL 2015, 2016 & 2017

Type of Coal (1)	As on (2)	Reserve (Quantity in Million Tonnes)			
		Proved (3)	Indicated (4)	Inferred (5)	Total (6)
Prime Coking	01/04/2015	4,614	699	0.00	5,313
	01/04/2016	4,614	699	0.00	5,313
	01/04/2017	4,614	699	0.00	5,313
Medium Coking	01/04/2015	13,389	12,114	1,879	27,382
	01/04/2016	13,389	12,114	1,879	27,382
	01/04/2017	13,501	12,133	1,879	27,513
Blendable / Semi Coking	01/04/2015	482	1,004	222	1,708
	01/04/2016	482	1,004	222	1,708
	01/04/2017	519	995	193	1,708
Non Coking (Including High Sulphur)	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
	01/04/2017	1,24,423	1,25,485	30,706	2,80,615
Total	01/04/2015 *	1,31,614	1,43,241	31,739	3,06,595
	01/04/2016 *	1,38,087	1,39,151	31,563	3,08,802
	01/04/2017 *	1,43,058	1,39,311	32,779	3,15,149



* Including Sikkim

Source: Geological Survey of India

TABLE - 2.2: STATEWISE INVENTORY OF GEOLOGICAL RESOURCES OF COAL AS ON 1st APRIL 2015, 2016 & 2017

(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	1/4/2015	0	4	0	4	ARUNACHAL PRADESH	1/4/2015	31	40	19	90
	1/4/2016	0	14	0	14		1/4/2016	31	40	19	90
	1/4/2017	0	14	0	14		1/4/2017	31	40	19	90
ANDHRA PRADESH	1/4/2015	0	1,149	432	1,581	ASSAM	1/4/2015	465	43	3	511
	1/4/2016	0	1,149	432	1,581		1/4/2016	465	43	3	511
	1/4/2017	0	1,149	432	1,581		1/4/2017	465	43	3	511
JHARKHAND	1/4/2015	41,463	33,026	6,559	81,049	MEGHALAYA	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
	1/4/2017	44,341	31,876	6,223	82,440		1/4/2017	89	17	471	576
BIHAR	1/4/2015	0	0	160	160	NAGALAND	1/4/2015	9	0	307	315
	1/4/2016	0	0	160	160		1/4/2016	9	0	307	315
	1/4/2017	0	0	1,354	1,354		1/4/2017	9	0	402	410
MADHYA PRADESH	1/4/2015	10,411	12,784	3,341	26,536	TERTIARY 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
	1/4/2017	11,269	12,760	3,645	27,673		1/4/2017	594	99	895	1,588
CHHATTISGARH	1/4/2015	18,237	34,390	2,285	54,912	INDIA	1/4/2015	1,31,614	1,43,241	31,740	3,06,595
	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
	1/4/2017	19,997	34,462	2,202	56,661		1/4/2017	1,43,058	1,39,311	32,780	3,15,149
MAHARASHTRA	1/4/2015	5,953	3,190	2,110	11,253	Singrimari coalfield of Assam (Non-Coking) is included in Gondawana coalfield, not considered in Tertiary coalfields.					
	1/4/2016	6,208	3,151	2,077	11,436						
	1/4/2017	7,038	3,158	2,063	12,259						
ODISHA	1/4/2015	30,747	36,545	8,507	75,799						
	1/4/2016	34,295	33,284	8,318	75,896						
	1/4/2017	34,810	34,060	8,415	77,285						
SIKKIM	1/4/2015	0	58	43	101						
	1/4/2016	0	58	43	101						
	1/4/2017	0	58	43	101						
UTTAR PRADESH	1/4/2015	884	178	0	1,062						
	1/4/2016	884	178	0	1,062						
	1/4/2017	884	178	0	1,062						
TELANGANA	1/4/2015	9,807	8808	2597	21,211						
	1/4/2016	10,128	8586	2700	21,415						
	1/4/2017	10,402	8,542	2,520	21,464						
WEST BENGAL	1/4/2015	13,518	13,010	4,907	31,435						
	1/4/2016	13,602	13,021	4,907	31,529						
	1/4/2017	13,723	12,954	4,990	31,667						
GONDAWANA	1/4/2015	1,31,020	1,43,142	30,941	3,05,103						
	1/4/2016	1,37,493	1,39,052	30,764	3,07,309						
	1/4/2017	1,42,464	1,39,212	31,885	3,13,561						

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 01-04-2017)

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	45.78	14.16	0.00	59.94	
		Semi Coking	300-600	120.92	113.23	12.07	246.22	
		Semi Coking	600-1200	58.63	296.29	127.69	482.61	
		Non Coking	0-300	10080.22	1619.36	307.29	12006.87	
		Non Coking	300-600	2357.05	3316.86	2128.30	7802.21	
		Non Coking	600-1200	309.34	1851.06	1497.92	3658.32	
		TOTAL			13522.36	7210.96	4073.27	24806.59
		BARJORA	Non Coking	0-300	200.79	0.00	0.00	200.79
		BIRBHUM	Non Coking	0-300	0.00	818.42	123.53	941.95
			Non Coking	300-600	0.00	3727.70	603.76	4331.46
			Non Coking	600-1200	0.00	1197.38	174.05	1371.43
			TOTAL			0.00	5743.50	901.34
		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	225.33	423.68	139.76	788.77
	WEST BENGAL	TOTAL	Non Coking	0-1200	12947.40	12530.78	4849.85	30328.03
	WEST BENGAL	TOTAL	ALL	0-1200	13723.15	12954.46	4989.61	31667.22
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	2729.99	1277.90	18.71	4026.60
	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			3497.43	3922.80	863.32	8283.55

Contd....

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2017)

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	8589.40	2367.24	722.03	11678.67
		Non Coking	300-600	1130.63	1134.54	729.50	2994.67
		Non Coking	600-1200	90.74	0.00	0.00	90.74
		TOTAL			10319.44	6300.92	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	3240.77	379.03	262.40	3882.20
		Non Coking	300-600	1372.92	376.32	584.65	2333.89
		Non Coking	600-1200	562.39	43.53	0.00	605.92
		TOTAL			5176.08	1312.28	1143.28
	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	12595.65	10572.54	1606.64	24774.83
JHARKHAND	TOTAL	Semi Coking	0-1200	223.34	471.55	53.45	748.34
JHARKHAND	TOTAL	Non Coking	0-1200	26907.25	20133.60	4562.44	51603.29
JHARKHAND	TOTAL	ALL	0-1200	44340.59	31876.40	6222.53	82439.52

Contd....

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2017)

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	486.15	486.15	
		Non Coking	300-600	0.00	0.00	740.50	740.50	
		Non Coking	600-1200	0.00	0.00	126.85	126.85	
	BIHAR	TOTAL	Non Coking	0-1200	0.00	0.00	1353.50	1353.50
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	1571.50	2880.23	186.54	4638.27	
		Non Coking	300-600	38.65	1673.96	12.01	1724.62	
		Non Coking	600-1200	0.00	33.61	0.00	33.61	
	TOTAL			1856.81	5747.90	312.80	7917.51	
	SINGRAULI	Non Coking	0-300	5586.72	2336.59	1381.47	9304.78	
		Non Coking	300-600	1677.33	3251.24	952.90	5881.47	
		Non Coking	600-1200	9.54	172.87	110.40	292.81	
		TOTAL			7273.59	5760.70	2444.77	15479.06
	MADHYA PRADESH	TOTAL	Medium Coking	0-1200	354.49	1560.11	272.83	2187.43
	MADHYA PRADESH	TOTAL	Non Coking	0-1200	10914.20	11199.56	3372.01	25485.77
	MADHYA PRADESH	TOTAL	ALL	0-1200	11268.69	12759.67	3644.84	27673.20

Contd....

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2017)

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	1235.98	605.38	5.15	1846.51	
	BISRAMPUR	Non Coking	300-600	0.22	0.00	0.00	0.22	
	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	7789.12	11744.68	1043.19	20576.99	
		Non Coking	300-600	1497.07	6817.20	519.85	8834.12	
		Non Coking	600-1200	0.00	645.04	0.00	645.04	
		TOTAL			9286.19	19206.92	1563.04	30056.15
	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	19926.34	34362.90	2201.90	56491.14
	CHHATTISGARH	TOTAL	ALL	0-1200	19997.11	34462.15	2201.90	56661.16

Contd....

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2017)

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	4149.65	757.95	294.86	5202.46	
		Non Coking	300-600	250.33	934.74	1146.05	2331.12	
		Non Coking	600-1200	0.00	30.58	26.99	57.57	
		TOTAL			4399.98	1723.27	1467.90	7591.15
	KAMPTEE	Non Coking	0-300	1403.78	461.36	41.76	1906.90	
		Non Coking	300-600	305.94	467.25	234.13	1007.32	
		Non Coking	600-1200	8.03	13.69	138.72	160.44	
		TOTAL			1717.75	942.30	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	7038.20	3157.75	2063.21	12259.16
	MAHARASHTRA	TOTAL	ALL	0-1200	7038.20	3157.75	2063.21	12259.16
	ODISHA	IB-RIVER	Non Coking	0-300	10083.24	5178.86	141.00	15403.10
			Non Coking	300-600	1110.44	4421.06	4168.93	9700.43
Non Coking			600-1200	0.00	1015.87	2.69	1018.56	
TOTAL					11193.68	10615.79	4312.62	26122.09
TALCHER		Non Coking	0-300	20112.66	9943.28	2549.82	32605.76	
		Non Coking	300-600	3277.58	12141.59	1083.56	16502.73	
		Non Coking	600-1200	225.94	1359.11	469.21	2054.26	
		TOTAL			23616.18	23443.98	4102.59	51162.75
ODISHA		TOTAL	Non Coking	0-1200	34809.86	34059.77	8415.21	77284.84
ODISHA		TOTAL	ALL	0-1200	34809.86	34059.77	8415.21	77284.84

Contd....

Table - 2.3: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN COAL (as on 01-04-2017)

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	6331.99	3038.31	103.18	9473.48
		Non Coking	300-600	3927.72	4092.49	400.44	8420.65
		Non Coking	600-1200	142.55	1411.40	2016.23	3570.18
		TOTAL	0-1200	10402.26	8542.20	2519.85	21464.31
TELANGANA	TOTAL	Non Coking	0-1200	10402.26	8542.20	2519.85	21464.31
TELANGANA	TOTAL	ALL	0-1200	10402.26	8542.20	2519.85	21464.31
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
	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 01-04-2017)

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	95.12	97.12
	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	401.69	410.45
NAGALAND	TOTAL	ALL	0-1200	8.76	0.00	401.69	410.45
INDIA	TOTAL	Prime Coking	0-1200	4614.35	698.71	0.00	5313.06
INDIA	TOTAL	Medium Coking	0-1200	13500.56	12132.65	1879.47	27512.68
INDIA	TOTAL	Semi Coking	0-1200	519.44	994.87	193.21	1707.52
INDIA	TOTAL	Non Coking	0-1200	123829.55	125385.72	29812.60	279027.87
INDIA	TOTAL	High Sulphur	0-1200	593.81	99.34	894.53	1587.68
INDIA	TOTAL		0-1200	143057.71	139311.29	32779.81	315148.81
INDIA	Total for Tertiary Coalfields		0-1200	593.81	99.34	894.53	1587.68
INDIA	Total for Gondwana Coalfields*		0-1200	142463.90	139211.95	31885.28	313561.13
INDIA	GRAND TOTAL		0-1200	143057.71	139311.29	32779.81	315148.81

* Including Sikkim

TABLE 2.4: COAL RESERVE BY TYPE OF COAL AND DEPTH AS ON (as on 01-04-2017)

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	7443.49	4078.35	65.79	11587.63
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	339.89	126.33	0.55	466.77
INDIA	<i>TOTAL</i>	Semi Coking	300-600	120.92	572.25	64.97	758.14
INDIA	<i>TOTAL</i>	Semi Coking	600-1200	58.63	296.29	127.69	482.61
INDIA	<i>TOTAL</i>	High Sulphur	0-300	407.96	83.19	894.53	1385.68
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	97843.45	61831.50	9031.04	168705.99
INDIA	<i>TOTAL (Other than Jharia)</i>	Non Coking	300-600	18484.43	52945.50	15878.29	87308.22
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	1844.53	10163.86	4903.27	16911.66
INDIA	TOTAL	Grand Total	0-1200	143057.71	139311.29	32779.81	315148.81

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 01-04-2017)

(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	1525.00	3500.03	2949.36	2040.84	0.70	10080.22	23.13	183.93	472.13	415.84	524.33	0.00	1619.36	307.29	12006.87
	300-600	54.14	608.08	682.59	503.41	508.83	0.00	2357.05	54.58	690.08	1209.48	699.44	663.28	0.00	3316.86	2128.30	7802.21
	600-1200	12.90	79.74	121.18	77.27	18.25	0.00	309.34	152.85	367.36	529.11	418.82	382.92	0.00	1851.06	1497.92	3658.32
	0-1200	131.33	2212.82	4303.80	3530.04	2567.92	0.70	12746.61	230.56	1241.37	2210.72	1534.10	1570.53	0.00	6787.28	3933.51	23467.40
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	123.53	941.95
	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	603.76	4331.46
	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	901.34	6644.84
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		131.33	2212.82	4303.80	3530.38	2768.37	0.70	12947.40	231.84	1305.07	3657.51	2838.29	4498.07	0.00	12530.78	4849.85	30328.03
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 Bokaro	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
	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 Bokaro	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
	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 Karanpura	0-300	31.01	51.92	139.42	1001.36	7359.63	6.06	8589.40	6.56	1.42	4.61	316.73	2031.65	6.27	2367.24	722.03	11678.67
	300-600	0.11	2.34	21.04	235.66	870.58	0.90	1130.63	0.00	2.86	2.93	441.37	687.22	0.16	1134.54	729.50	2994.67
	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	31.14	54.49	161.65	1249.93	8306.45	7.11	9810.77	6.56	4.28	7.54	758.10	2718.87	6.43	3501.78	1451.53	14764.08
South Karanpura	0-300	149.90	151.51	373.55	830.10	1735.11	0.60	3240.77	0.02	40.07	84.33	138.40	116.21	0.00	379.03	262.40	3882.20
	300-600	11.85	106.04	148.97	559.46	546.37	0.23	1372.92	0.19	35.97	46.78	120.80	172.58	0.00	376.32	584.65	2333.89
	600-1200	1.17	69.45	176.24	258.30	57.21	0.02	562.39	0.00	0.00	7.53	9.35	26.65	0.00	43.53	0.00	605.92
	0-1200	162.92	327.00	698.76	1647.86	2338.69	0.85	5176.08	0.21	76.04	138.64	268.55	315.44	0.00	798.88	847.05	6822.01
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 01-04-2017)
(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		302.35	534.42	1220.46	4002.65	20839.41	7.96	26907.25	43.33	195.12	953.06	4442.28	14493.38	6.43	20133.60	4562.44	51603.29
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	486.15	486.15
	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	740.50	740.50
	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	126.85	126.85
	0-1200	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	1353.50	1353.50
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	1353.50	1353.50
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	248.47	434.22	372.68	401.40	0.14	1571.50	109.79	455.76	953.11	688.14	670.73	2.70	2880.23	186.54	4638.27
	300-600	0.07	5.86	6.45	15.10	10.99	0.18	38.65	122.83	423.01	538.69	313.28	273.48	2.67	1673.96	12.01	1724.62
	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	114.66	254.33	440.67	387.78	412.39	0.32	1610.15	233.58	891.41	1494.94	1010.64	951.86	5.37	4587.80	198.55	6396.50
Singrauli	0-300	4.62	86.64	780.80	1223.77	3475.61	15.28	5586.72	43.47	209.17	740.49	567.67	762.43	13.36	2336.59	1381.47	9304.78
	300-600	1.45	11.24	85.14	497.96	1080.09	1.45	1677.33	28.75	325.97	638.01	1028.48	1154.44	75.59	3251.24	952.90	5881.47
	600-1200	0.00	0.00	0.00	0.61	8.83	0.10	9.54	16.56	42.63	47.22	24.61	40.47	1.38	172.87	110.40	292.81
	0-1200	6.07	97.88	865.94	1722.34	4564.53	16.83	7273.59	88.78	577.77	1425.72	1620.76	1957.34	90.33	5760.70	2444.77	15479.06
Total		194.17	607.73	1843.66	2668.84	5582.64	17.16	10914.20	364.61	1637.21	3154.09	2790.89	3152.57	100.19	11199.56	3372.01	25485.77
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	267.70	168.70	234.44	446.76	19.70	1235.98	17.18	46.66	116.57	148.33	275.24	1.40	605.38	5.15	1846.51
	300-600	0.00	0.02	0.00	0.20	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
	0-600	98.68	267.72	168.70	234.64	446.76	19.70	1236.20	17.18	46.66	116.57	148.33	275.24	1.40	605.38	5.15	1846.73

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TABLE-2.5: GRADEWISE INVENTORY OF NON-COKING COAL RESERVE IN GONDWANA COALFIELDS OF INDIA (as on 01-04-2017)
(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 Birsampur	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	41.02	218.29	638.05	6817.87	49.62	7789.12	79.09	31.75	241.75	1767.51	9607.82	16.76	11744.68	1043.19	20576.99
	300-600	70.17	39.02	175.92	388.35	823.35	0.26	1497.07	98.30	82.17	389.78	1589.52	4609.42	48.01	6817.20	519.85	8834.12
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	1.84	84.72	175.97	382.03	0.00	645.04	0.00	645.04
	0-1200	94.44	80.04	394.21	1026.40	7641.22	49.88	9286.19	177.87	115.76	716.25	3533.00	14599.27	64.77	19206.92	1563.04	30056.15
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		604.19	809.85	1193.44	2118.41	15100.79	99.66	19926.34	479.62	812.04	2584.63	7045.07	23375.37	66.17	34362.90	2201.90	56491.14
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	1679.90	2104.53	35.89	4149.65	0.00	24.33	46.14	322.51	364.48	0.49	757.95	294.86	5202.46
	300-600	0.00	0.00	1.84	39.32	200.58	8.59	250.33	0.00	46.03	105.52	214.91	564.92	3.36	934.74	1146.05	2331.12
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.09	19.49	0.00	30.58	26.99	57.57
	0-1200	0.00	31.47	299.70	1719.22	2305.11	44.48	4399.98	0.00	70.36	151.66	548.51	948.89	3.85	1723.27	1467.90	7591.15
Kamptee	0-300	1.89	61.65	334.56	420.88	584.80	0.00	1403.78	5.13	11.34	108.08	128.50	208.31	0.00	461.36	41.76	1906.90
	300-600	0.00	3.33	35.17	142.01	124.90	0.53	305.94	16.64	21.29	171.51	79.37	178.44	0.00	467.25	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	66.40	370.37	565.55	713.01	0.53	1717.75	28.54	32.63	279.90	210.09	391.14	0.00	942.30	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	150.32	821.26	2535.36	3481.50	45.01	7038.20	28.54	129.68	590.41	917.30	1487.97	3.85	3157.75	2063.21	12259.16

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TABLE-2.5: GRADEWISE INVENTORY OF NON-COKING COAL RESERVE IN GONDWANA COALFIELDS OF INDIA (as on 01-04-2017)

(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																	
Ib-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	4737.33	22.23	5178.86	141.00	15403.10
	300-600	0.00	5.62	20.95	67.23	1016.64	0.00	1110.44	15.86	142.08	213.66	519.86	3468.28	61.32	4421.06	4168.93	9700.43
	600-1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	28.49	97.95	820.37	68.43	1015.87	2.69	1018.56
	0-1200	0.33	10.22	70.97	355.84	10756.32	0.00	11193.68	20.01	166.36	325.48	925.98	9025.98	151.98	10615.79	4312.62	26122.09
Talcher	0-300	24.89	208.86	247.22	544.37	18702.80	384.52	20112.66	50.62	174.31	358.38	1195.12	8164.85	0.00	9943.28	2549.82	32605.76
	300-600	3.96	6.65	23.18	71.77	2771.40	400.62	3277.58	48.06	194.47	298.15	1411.46	10189.45	0.00	12141.59	1083.56	16502.73
	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
	0-1200	34.89	225.82	276.19	633.16	21660.98	785.14	23616.18	98.68	379.78	709.08	2675.89	19580.55	0.00	23443.98	4102.59	51162.75
Total		35.22	236.04	347.16	989.00	32417.30	785.14	34809.86	118.69	546.14	1034.56	3601.87	28606.53	151.98	34059.77	8415.21	77284.84
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	46.32	237.61	1233.98	1284.50	3527.45	2.13	6331.99	45.73	96.68	337.20	511.22	2047.48	0.00	3038.31	103.18	9473.48
	300-600	32.93	214.96	714.58	1131.96	1831.77	1.52	3927.72	44.86	155.25	497.82	710.21	2684.35	0.00	4092.49	400.44	8420.65
	600-1200	2.21	8.16	6.40	37.83	87.92	0.03	142.55	8.16	149.19	228.13	407.07	618.85	0.00	1411.40	2016.23	3570.18
	0-1200	81.46	460.73	1954.96	2454.29	5447.14	3.68	10402.26	98.75	401.12	1063.15	1628.50	5350.68	0.00	8542.20	2519.85	21464.31
Total		81.46	460.73	1954.96	2454.29	5447.14	3.68	10402.26	98.75	401.12	1063.15	1628.50	5350.68	0.00	8542.20	2519.85	21464.31
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		1353.47	5011.91	11692.79	18574.73	86237.34	959.31	123829.55	1365.38	5029.17	13052.00	23450.60	82159.95	328.62	125385.72	29812.60	279027.87

Source: Geological Survey Of India

**TABLE - 2.6 : STATEWISE INVENTORY OF GEOLOGICAL RESERVE OF LIGNITE
AS ON 1st APRIL 2015, 2016 & 2017**

State	As on	Resources (Quantity in Million Tonnes)			
		Proved	Indicated	Inferred	Total
(2)	(1)	(3)	(4)	(5)	(6)
Gujarat	01-04-2015	1278.65	283.70	1159.70	2722.05
	01-04-2016	1278.65	283.70	1159.70	2722.05
	01-04-2017	1278.65	283.70	1159.70	2722.05
J & K	01-04-2015	0.00	20.25	7.30	27.55
	01-04-2016	0.00	20.25	7.30	27.55
	01-04-2017	0.00	20.25	7.30	27.55
Kerala	01-04-2015	0.00	0.00	9.65	9.65
	01-04-2016	0.00	0.00	9.65	9.65
	01-04-2017	0.00	0.00	9.65	9.65
Pondicherry	01-04-2015	0.00	405.61	11.00	416.61
	01-04-2016	0.00	405.61	11.00	416.61
	01-04-2017	0.00	405.61	11.00	416.61
Rajasthan	01-04-2015	1168.53	2670.84	1887.34	5726.71
	01-04-2016	1168.53	2670.84	1896.60	5735.97
	01-04-2017	1168.53	2670.84	1896.60	5735.97
Tamilnadu	01-04-2015	3735.23	22900.05	8573.62	35208.90
	01-04-2016	3735.23	22991.17	8953.53	35679.93
	01-04-2017	4093.53	22632.87	9055.98	35782.38
West Bengal	01-04-2015	0.00	1.13	1.64	2.77
	01-04-2016	0.00	1.13	1.64	2.77
	01-04-2017	0.00	1.13	2.80	3.93
All India	01-04-2015	6182.41	26281.58	11650.25	44114.24
	01-04-2016	6182.41	26372.70	12039.42	44594.53
	01-04-2017	6540.71	26014.40	12143.03	44698.14

Note: Figures compiled by Neyveli Lignite Corporation Ltd.

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2017)
(Figs. in Million Tonnes)

State/District (1)	Area/Field (2)	Depth(m) (3)	Proved (4)	Indicated (5)	Inferred (6)	Total (7)	Grand (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	
		150-300	0.00	0.00	24.00	24.00	3127.00
	Devangudi & areas locked up						
	Kudikadu	0-150	0.00	0.00	133.38	133.38	133.38
	Kullanchavadi	>150	0.00	0.00	175.00	175.00	175.00
	South of Vellar(Srimushnam)	0-150	353.13	147.87	0.00	501.00	
		150-300	5.17	3.83	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
	Chidambaram	0-150	0.00	0.00	18.85	18.85	
		150-300	0.00	0.00	24.29	24.29	
>300		0.00	0.00	0.59	0.59	43.73	
Vayalamur	0-150	0.00	0.00	29.40	29.40		
	150-300	0.00	0.00	4.50	4.50		
	>300	0.00	0.00	24.82	24.82	58.72	
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		4093.53	2971.67	1794.30	8859.50	8859.50
*(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 01.04.2017)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Mannargudi lignite field	Thanjavur & Thiruvarur	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-Anaikadu	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 01.04.2017)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand
(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			4093.53	22632.87	9055.98	35782.38	35782.38
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
	Barsingsar	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 01.04.2017)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand
(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 01.04.2017)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand
(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	0.09	0.00	0.09	0.09
	Pyau	0-150	0.00	0.00	45.56	45.56	
		150-300	0.00	0.00	16.62	16.62	62.18
	Rneri	0-150	33.92	0.00	0.00	33.92	33.92
	Riri	0-150	159.68	0.00	0.00	159.68	
		>150	22.75	0.00	0.00	22.75	182.43
	Sarupdesar-Palana west	0-150	0.00	0.67	0.00	0.67	0.67
	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	
		150-300	0.00	1.00	0.00	1.00	9.45
	Bothia-Bhakra- Dunga	0-300	0.00	9.35	0.00	9.35	9.35
	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		
	>300	0.00	0.00	6.85	6.85	165.57	
Jalipa	0-150	224.28	0.00	0.00	224.28		
	150-300	100.55	0.00	0.00	100.55	324.83	

Contd....

Table - 2.7: FIELDWISE INVENTORY OF GEOLOGICAL RESERVE OF INDIAN LIGNITE (as on 01.04.2017)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand
(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
		0-150	0.00	11.47	0.00	11.47	
		150-300	0.00	48.47	0.00	48.47	
	Kurla East (covering Kurla East North & South sub blocks)	>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 01.04.2017)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Sindhari West	>150	0.00	894.93	339.25	1234.18	1234.18
	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	0.33	0.00	0.33	0.51
	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 01.04.2017)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand
(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
	Lakhpat-Dhedadi(Punahrajpur)	0-150	49.00	24.30	0.00	73.30	73.30
	Akrimota	0-150	91.78	0.00	0.00	91.78	91.78
	Jhularai-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 01.04.2017)
(Figs. in Million Tonnes)

State/District	Area/Field	Depth(m)	Proved	Indicated	Inferred	Total	Grand
(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
	Gourangapur- Bankati	0-151	0.00	0.00	0.96	0.96	0.96
	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
	Djara	150-300	0.00	0.00	0.20	0.20	0.20
Total for West Bengal			0.00	1.13	2.80	3.93	3.93
Grand Total for all States			6540.71	26014.40	12143.03	44698.14	44698.14

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

Command Area		CIL	SCCL	NLC	TOTAL
Year	Agency	(Coal)	(Coal)	(Lignite)	
(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			83
2010-11	Central Mine Planning & Design Inst.	1318	0	0	1318
2010-11	All Agencies	35627	9638	57403	102668
2011-12	Geological Survey of India	17872	0	5814	23686
2011-12	Mineral Exploration Corporation Ltd.	16769	9228	43750	69747
2011-12	DGM (Nagaland)	289			289
2011-12	Central Mine Planning & Design Inst.	0	0	0	0
2011-12	All Agencies	34930	9228	49564	93722
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			328
2012-13	Central Mine Planning & Design Inst.	0	0	0	0
2012-13(XIITH Plan)	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			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			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			754
2015-16	Central Mine Planning & Design Inst.	0	0	0	0
2015-16(XIITH Plan)	All Agencies	52086	0	60254	112340
2016-17	Geological Survey of India	0	0	3500	3500
2016-17	Mineral Exploration Corporation Ltd.	49100	0	52186	101286
2016-17	DGM (Nagaland)	595			595
2016-17	Central Mine Planning & Design Inst.	0	0	0	0
2016-17(XIITH Plan)	All Agencies	49695	0	55686	105381
TOTAL (XIITH Plan)	Geological Survey of India	65312	0	35658	100970
TOTAL (XIITH Plan)	Mineral Exploration Corporation Ltd.	189960	22027	285561	497548
TOTAL (XIITH Plan)	DGM (Nagaland)	2887	0	0	2887
TOTAL (XIITH Plan)	Central Mine Planning & Design Inst.	1187	0	0	1187
G. TOTAL (XIITH Plan)	All Agencies	259346	22027	321219	602592

 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
2016-17	DEPARTMENTAL	CIL	61819		53579	32608	61894	155721	16940	0	382561	
2016-17	DEPARTMENTAL	Non-CIL	2503		817	4332		5053	46101		58806	0
2016-17	DEPARTMENTAL	Pvt. Blocks									0	
2016-17	DEPARTMENTAL	Total	64322	0	54396	36940	61894	160774	63041	0	441367	0
2016-17	MECL	CIL	11935			20317		160320			192572	
2016-17	MECL	Non-CIL				3659	3893	105077			112629	51031
2016-17	CG/MP/Odisha Govt.	CIL						49	480		529	
2016-17	Private /Contractual	CIL	69488	8290	25895		10631	77679	28469		220452	
2016-17	Private /Contractual	Non-CIL	59851				4825	36680	5719		107075	
2016-17	Private /Contractual	Total	129339	8290	25895	0	15456	114359	34188	0	327527	
2016-17	All Agencies	CIL	143242	8290	79474	52925	72525	393769	45889	0	796114	
2016-17	All Agencies	Non-CIL	62354	0	817	7991	8718	146810	51820	0	278510	51031
2016-17(XII Plan)	All Agencies	Total	205596	8290	80291	60916	81243	540579	97709	0	1074624	51031

Section III

Production & Productivity

3.1 Production

3.1.1 In 2016-17, production of raw coal in India was 657.868 MT, showing an increase of 2.9% over the previous year. In that year production of lignite was 45.230 MT, showing an increase of 3.2% over 2015-16.

3.1.2 Statement 3.1 shows production of coal in 2016-17 by different companies.

Company	Coal Production (2016-17) [MT]		
	Coking	Non-coking	Total
ECL	0.031	40.486	40.517
BCCL	32.393	4.644	37.037
CCL	21.988	45.059	67.047
NCL		84.096	84.096
WCL	0.131	45.501	45.632
SECL*	0.110	139.893	140.003
MCL		139.208	139.208
NEC		0.600	0.600
CIL	54.653	499.487	554.140
SCCL		61.336	61.336
Other Public	0.692	9.028	9.720
Total Public	55.345	569.851	625.196
Total Private	6.316	26.356	32.672
ALL INDIA	61.661	596.207	657.868

*Including Production from SECL (GP-IV/1) and (GP-IV/2&3) coal blocks.

It can be seen that Coal India Ltd. accounted for 84.2% of coal production in the country. The share of SCCL in the coal production was 9.3%. Contribution from public sector and private sector was 95.0% and 5.0% respectively. The major contribution to the total coal production of the country in 2016-17 came from SECL (21.3%), MCL (21.2%), NCL (12.8%) and CCL (10.2%). The production from these four companies collectively accounted for 65.4% of the total coal production of the country. From Statement 3.1 it can also be seen that the major share in total coal production was of non-coking coal (90.6%).

3.1.3 Statement 3.2 shows coal production in India during 2016-17 by states. From this statement it can be observed that the four major coal producing states were Odisha (21.2%), Chhattisgarh (21.1%), Jharkhand (19.2%) and Madhya Pradesh (16.0%). These four states together produced accounted for about 77.4% of the total coal production in the country.

States	Coal Production (2016-17) [MT]		
	Coking	N-Coking	Total
Assam		0.6	0.6
Chhattisgarh	0.11	138.415	138.525
Jammu & Kashmir		0.01	0.01
Jharkhand	59.604	66.831	126.435
Madhya Pradesh	0.131	104.882	105.013
Maharashtra		40.559	40.559
Meghalaya		2.308	2.308
Odisha		139.359	139.359
Telangana		61.336	61.336
Uttar Pradesh		16.056	16.056
West Bengal	1.816	25.851	27.667
Total	61.661	596.207	657.868

3.1.4 Statement 3.2 also shows that almost all coking coal was produced in the state of Jharkhand which accounted for 96.7% of the total coking coal production. It can also be seen that during 2016-17, the production of coking coal registered an increase of 1.27% over 2015-16 whereas in the case of non-coking coal the increase was 3.09%.

3.1.5 From Table 3.16 it can be observed that in 2016-17, the production from the opencast system of mining accounted for 93.3% of the total coal production and the rest 6.7% 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 87.11% in 2007-08 to 93.26% in 2016-17 whereas in case of underground mining the share has a decreasing trend of 12.89% in 2007-08 to 6.74% in 2016-17.

3.1.6 From table 3.3, it can be seen that the production of total coal products increased from 43.194 MT in 2015-16 to 45.065 MT in 2016-17. It can also be seen that the production of washed coal, both coking and non-coking increased by 3.8% and 18.4% respectively, whereas the production of middlings (coking) decreased by 16.8% over 2015-16. In 2016-17, the production of hard coke also decreased by 4.1% over 2015-16. The production of washed coal (coking and non-coking) was 26.688 MT against the total raw coal production of 657.868 MT in 2016-17.

3.1.7 Stripping Ratio defined as the ratio of OBR (over burden removal) to coal produced in opencast mining has been of interest to the researchers. From table 3.19 it can be seen that in 2016-17, the stripping ratio at all India level was 2.65 while it was 2.67 in 2015-16. The stripping ratio of CIL was 2.21 and of SCCL 6.03. in 2016-17, the stripping ratio for the public sector was 2.56 and for the private sector 4.56. In case of CIL subsidiaries, MCL reported the lowest stripping ratio of 0.89 whereas NEC reported the highest stripping ratio of 9.51.

3.1.8 Output Per Man Shift (OMS) is one of the measures of efficiency for the production. Table 3.20 shows OMS for 2016-17 of two major players in the public sector namely CIL and SCCL by type of mining. It may be seen that during 2016-17, in respect of opencast mining, OMS (in Tonnes) of CIL was 15.0 and SCCL 13.85. 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 nine years, from 8.60 in 2007-08 to 15.35 in 2015-16. In case of SCCL, the trend is fluctuating one over the last ten years.

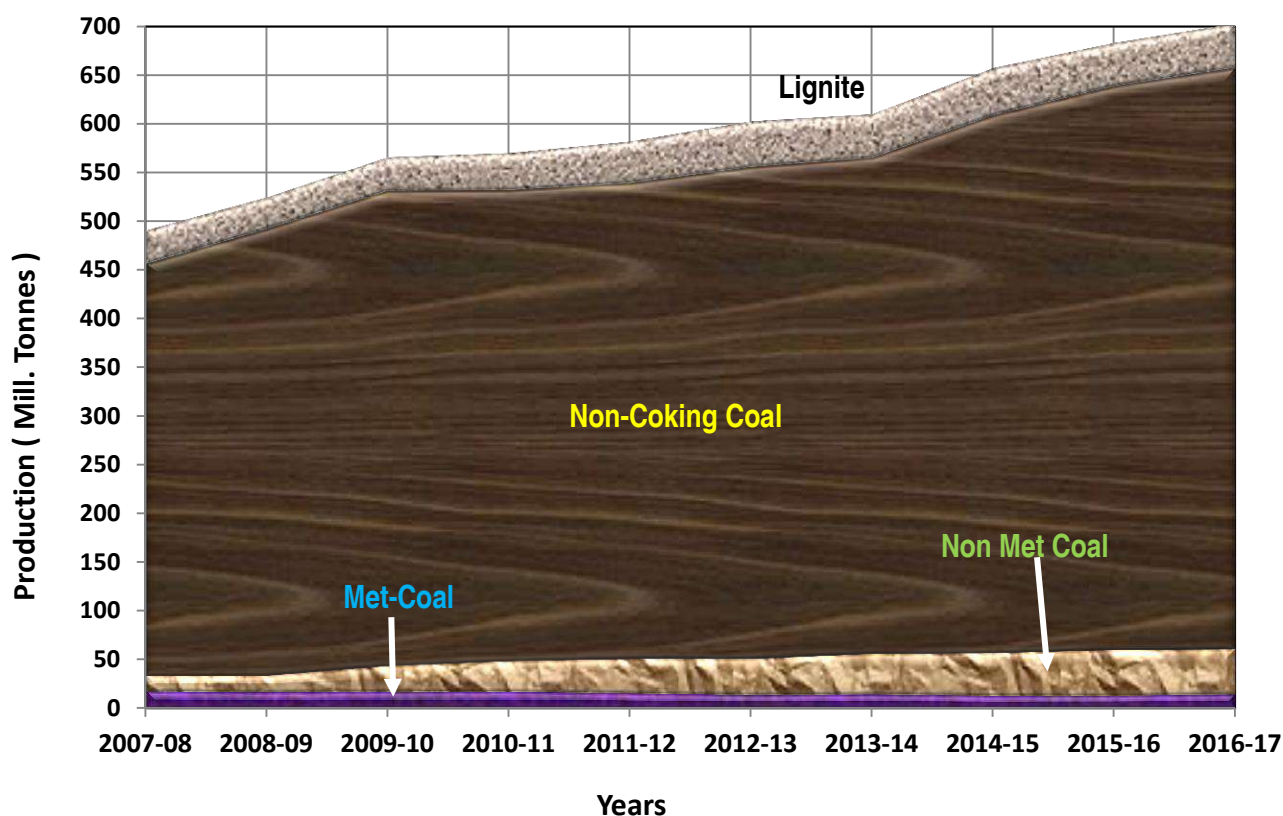
Year	Company	2015-16	2016-17
OMS (OC)	CIL	15.35	15.0
	SCCL	13.78	13.85
OMS (UG)	CIL	0.80	0.80
	SCCL	1.25	1.18
OMS (Overall)	CIL	7.15	7.48
	SCCL	4.20	4.74

3.1.9 Lignite Production: Statement 3.4

shows production of lignite by different companies in 2015-16 and 2016-17. 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	2015-16	2016-17
NLC	25.451	27.617
GMDCL	6.968	7.652
BLMCL	6.679	6.010
GIPCL	3.063	2.816
RSMML	0.972	0.549
VSLPL	0.617	0.508
GHCL	0.092	0.078
All India	43.842	45.230

Chart III.1 - Area Graph : Trend of Production of Different types of Solid Fossil Fuel during 2007-2008 to 2016-2017

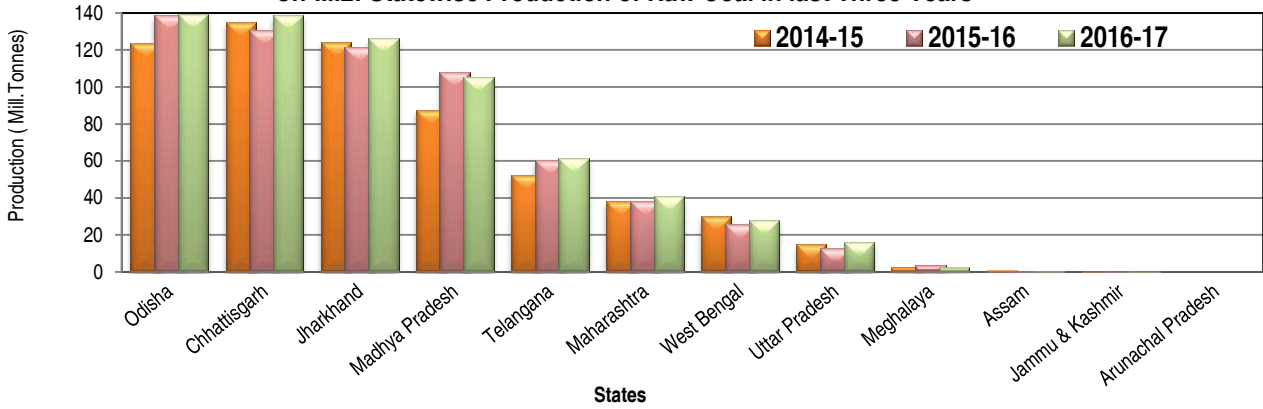


Production of different types of solid fossil fuels during 2007-08 TO 2016-17 (Quantity in Mill.Tonnes).

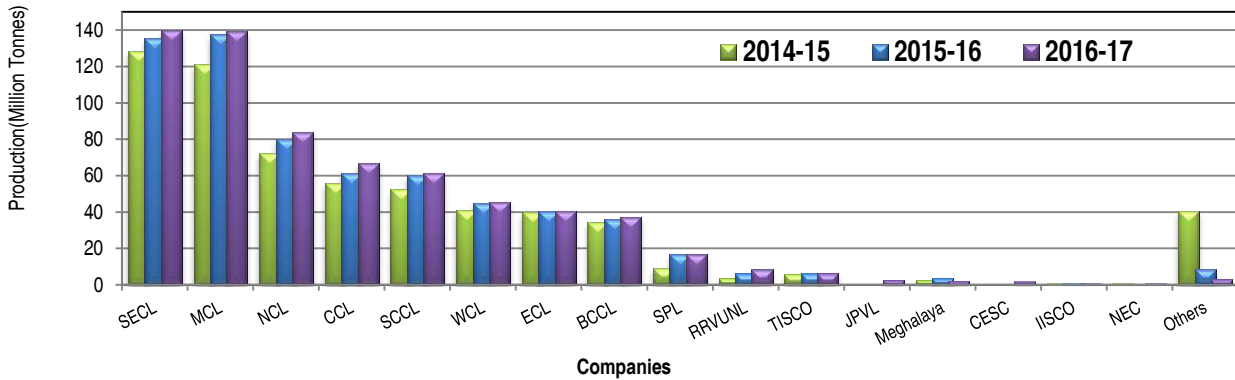
Year	Met Coal	Non Met Coal	Total Coking	Non-Coking	Total Raw Coal	Lignite
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2007-08	18.065	16.390	34.455	422.627	457.082	33.980
2008-09	17.301	17.508	34.809	457.948	492.757	32.421
2009-10	17.731	26.682	44.413	487.629	532.042	34.071
2010-11	17.695	31.852	49.547	483.147	532.694	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
2016-17	15.254	46.407	61.661	596.207	657.868	45.230

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.

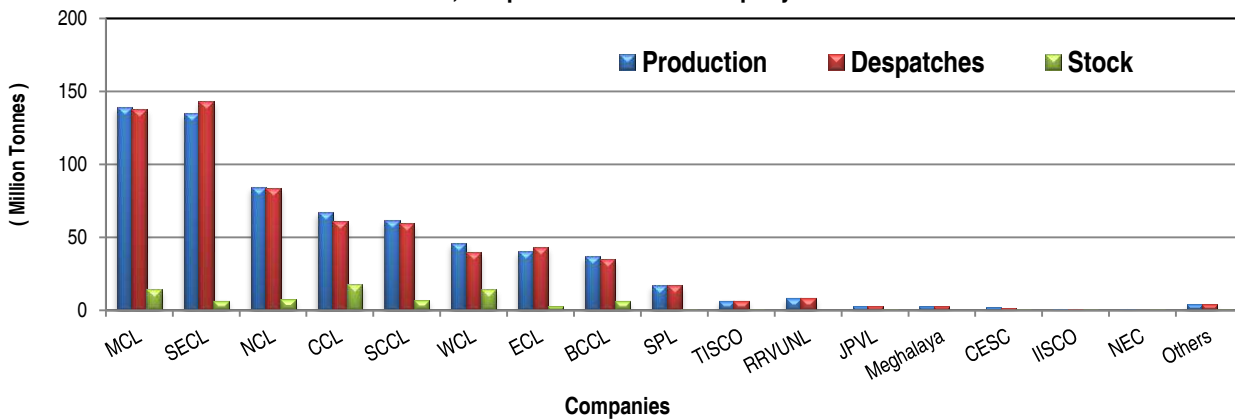
Ch-III.2: Statewise Production of Raw Coal in last Three Years



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



Ch-III.4: Production, Despatches & Stock Companywise in 2016-17



Ch-III.5: Company Share of Production of Raw Coal in 2016-17

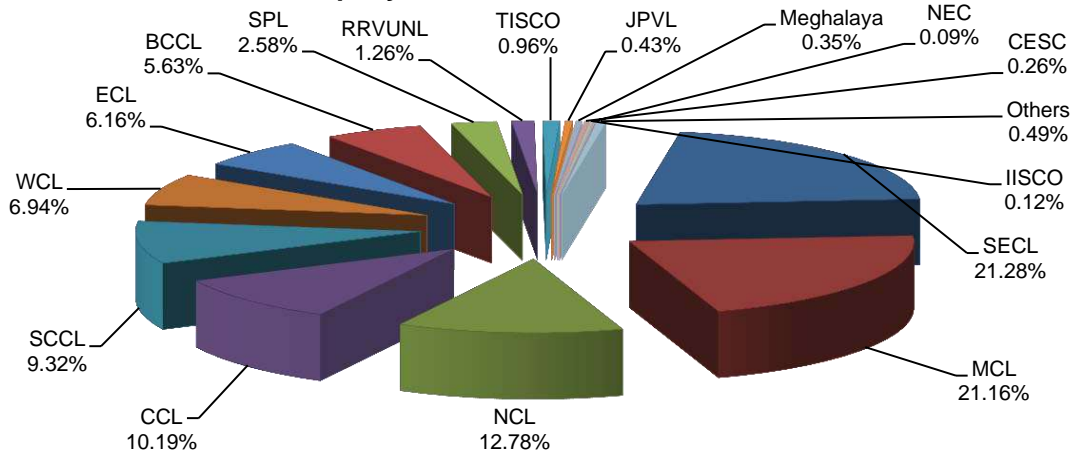


TABLE 3.1: TRENDS OF PRODUCTION OF DIFFERENT SOLID FOSSIL FUELS DURING LAST TEN YEARS

[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)
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
2016-17	657.868	93.6	2.9	45.230	6.4	3.2	703.098	2.9

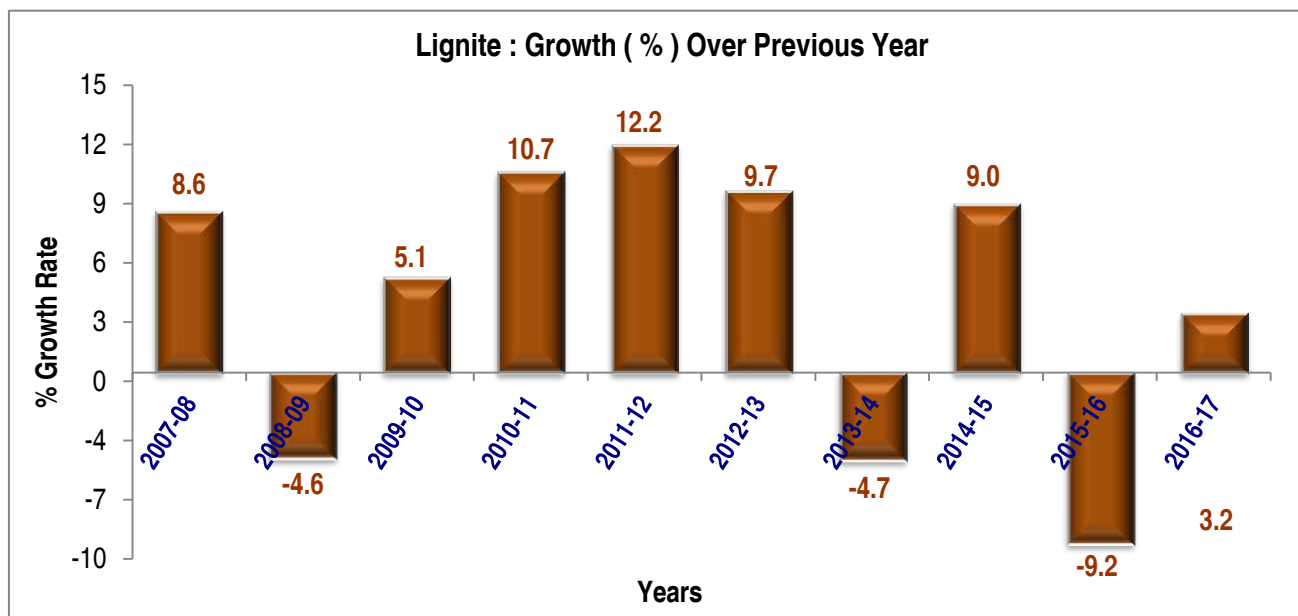
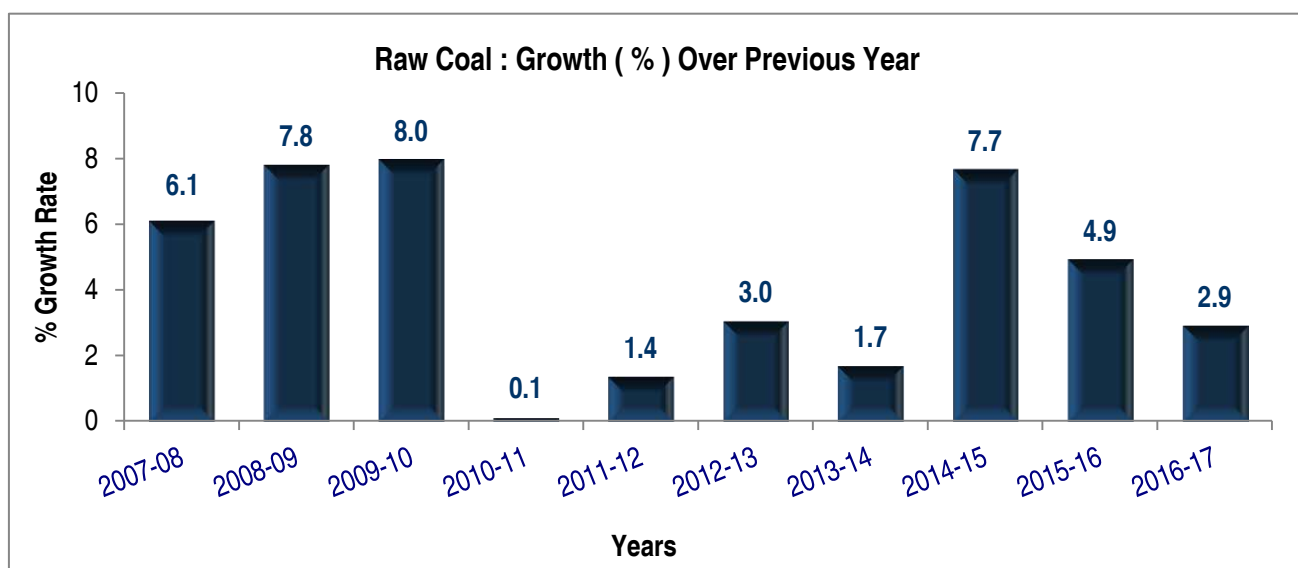


TABLE 3.2: TRENDS OF PRODUCTION OF DIFFERENT TYPES OF RAW COAL DURING LAST TEN YEARS

(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)
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
2016-17	15.254	24.7	6.4	46.407	75.3	-0.3	61.661	9.4	1.3	596.207	90.6	3.1	657.868	2.9

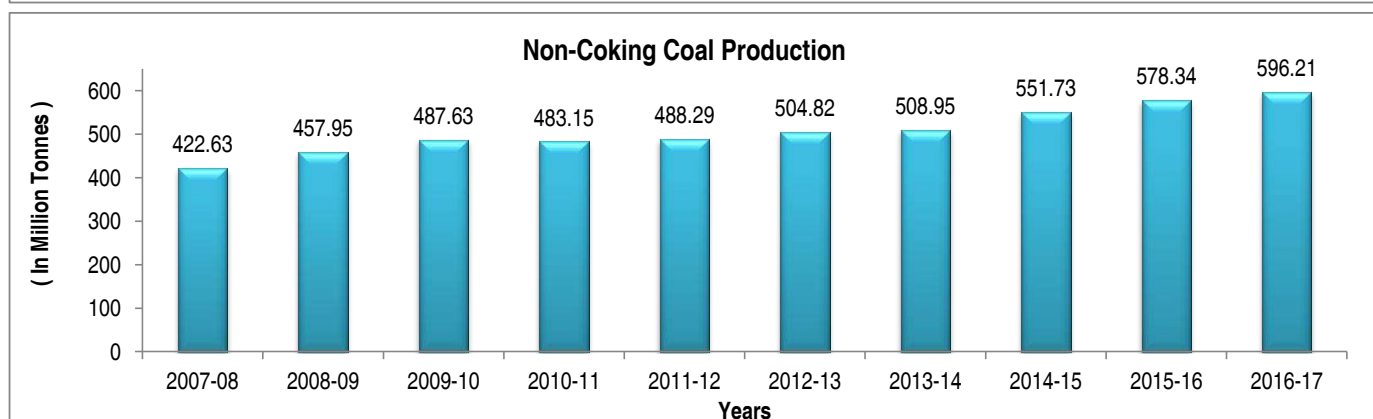
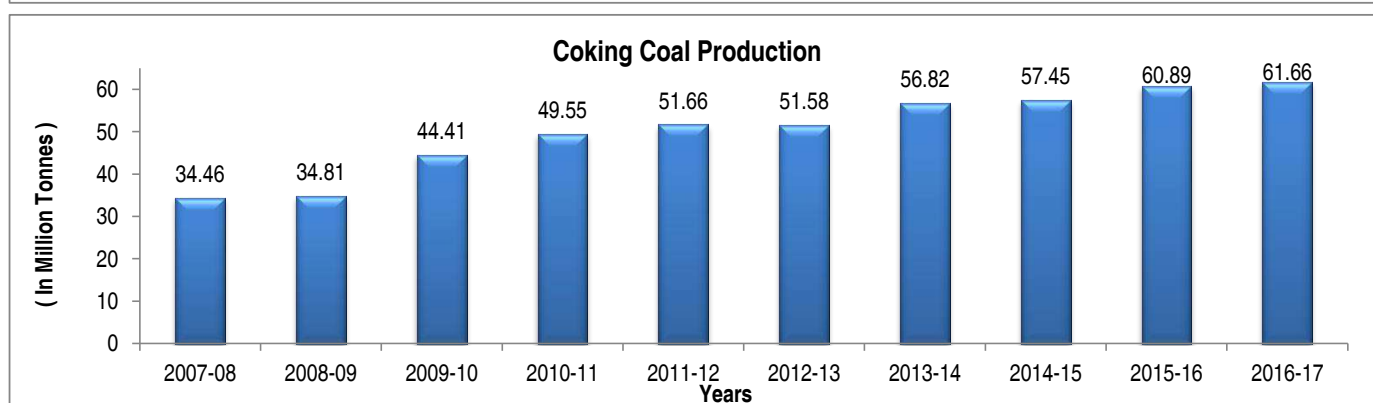
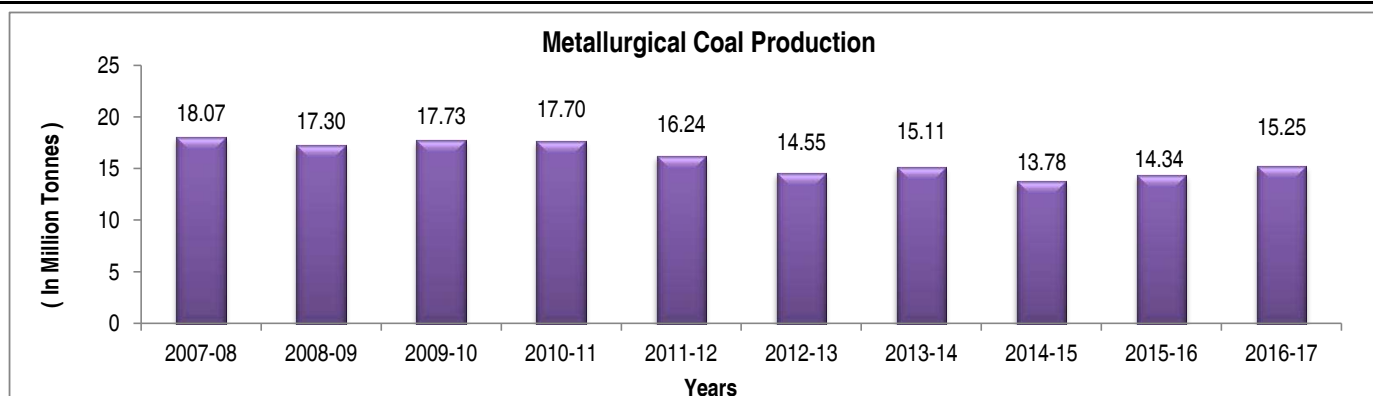
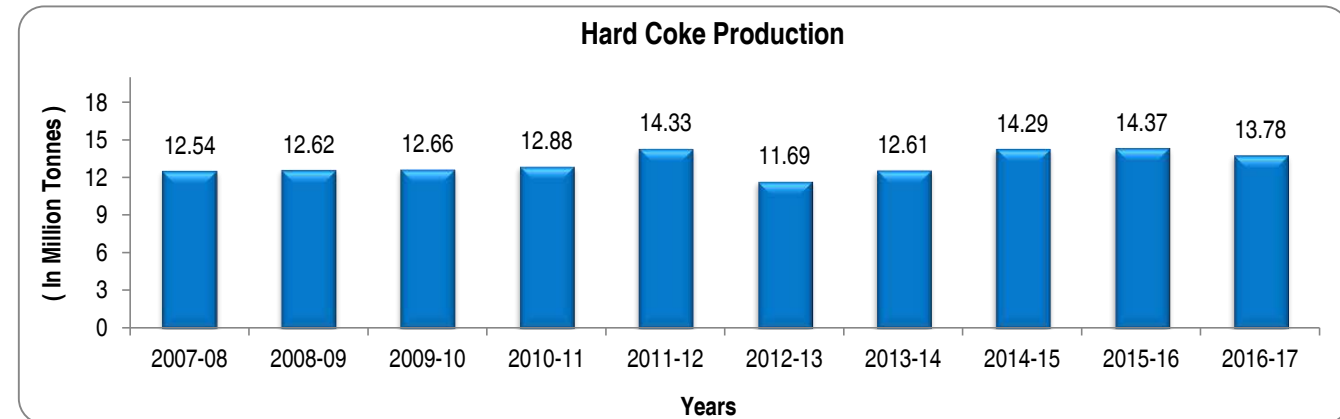
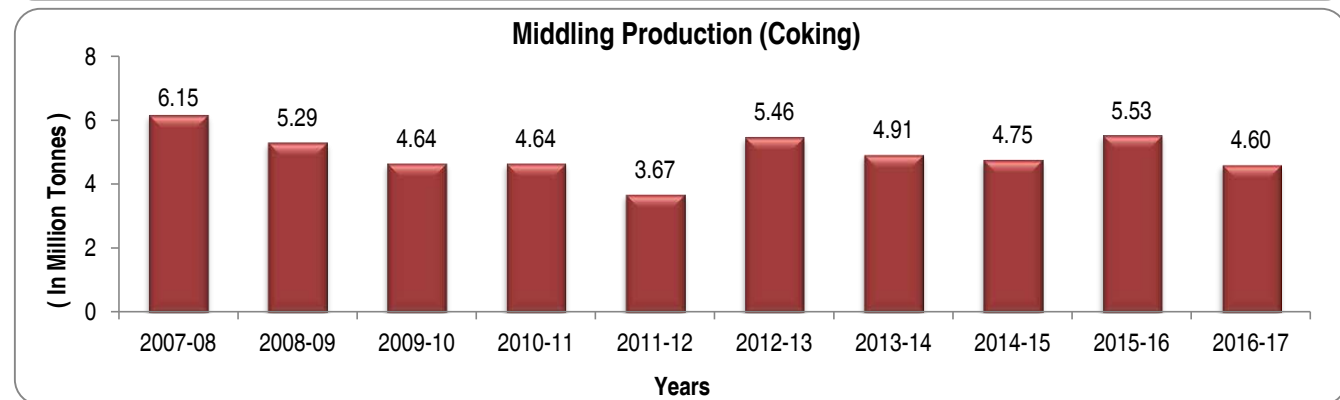
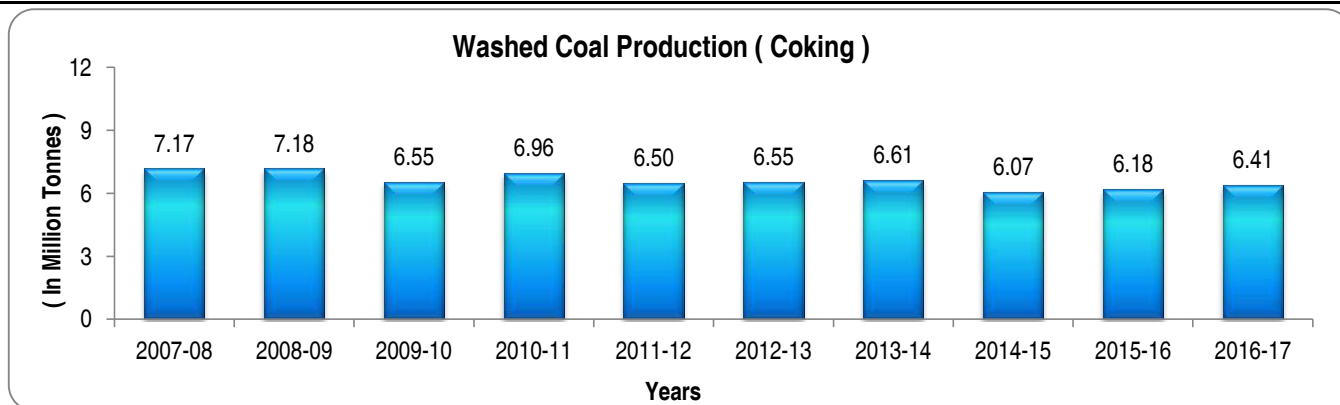


TABLE 3.3: TRENDS OF PRODUCTION OF DIFFERENT TYPES OF COAL PRODUCTS IN LAST TEN YEARS

(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)
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	0.000	0.0	14.368	0.5
2016-17	6.414	3.8	20.274	18.4	4.598	-16.8	0	0.0	13.779	-4.1



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)
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
2016-17												
April-June	13.518	-0.2	21.9	137.145	4.4	23.0	150.663	4.0	22.9	8.910	-10.6	19.7
July-Sept.	12.226	-4.4	19.8	112.775	-4.6	18.9	125.001	-4.5	19.0	9.754	1.8	21.6
Oct-Dec.	15.678	-1.1	25.4	160.170	3.6	26.9	175.848	3.2	26.7	11.428	26.2	25.3
Jan-Mar.	20.239	8.2	32.8	186.117	6.8	31.2	206.356	6.9	31.4	15.138	-0.6	33.5
TOTAL	61.661	1.3	100.0	596.207	3.1	100.0	657.868	2.9	100.0	45.230	3.2	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)
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	0.000	-	-	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	0.000	-	-	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	0.000	-	-	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	0.000	-	-	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	0.000	-	-	14.368	0.5	100.0
2016-17															
April-June	1.408	-5.3	22.0	5.258	52.3	25.9	1.216	19.6	26.4	0	-	-	3.403	-8.7	24.7
July-Sept.	1.440	-5.4	22.5	3.790	-0.1	18.7	1.130	-1.1	24.6	0	-	-	3.479	-5.7	25.2
Oct-Dec.	1.726	7.3	26.9	5.175	11.9	25.5	1.121	-9.7	24.4	0	-	-	3.475	-2.3	25.2
Jan-Mar.	1.840	17.6	28.7	6.051	15.3	29.8	1.131	-16.2	24.6	0	-	-	3.422	0.8	24.8
TOTAL	6.414	3.8	100.0	20.274	18.4	100.0	4.598	-3.2	100.0	0	-	-	13.779	-4.1	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 2016-17

(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)
2016-17												
Apr-16	4.488	-2.8	7.3	43.664	-0.8	7.3	48.152	-1.0	7.3	1.990	-32.0	4.4
May-16	4.593	1.0	7.4	46.633	3.6	7.8	51.226	3.4	7.8	3.212	-9.6	7.1
Jun-16	4.437	1.1	7.2	46.848	10.8	7.9	51.285	9.9	7.8	3.708	6.4	8.2
1st Quarter	13.518	-0.2	21.9	137.145	4.4	23.0	150.663	4.0	22.9	8.910	-10.6	19.7
Jul-16	4.116	-0.9	6.7	39.697	4.4	6.7	43.813	3.8	6.7	3.027	-1.6	6.7
Aug-16	3.999	-6.2	6.5	35.222	-10.7	5.9	39.221	-10.2	6.0	2.831	-16.6	6.3
Sep-16	4.111	-5.8	6.7	37.856	-7.0	6.3	41.967	-6.9	6.4	3.896	25.1	8.6
2nd Quarter	12.226	-4.4	19.8	112.775	-4.6	18.9	125.001	-4.5	19.0	9.754	1.8	21.6
Oct-16	4.699	-1.3	7.6	46.967	-0.8	7.9	51.666	-0.8	7.9	3.234	-12.1	7.2
Nov-16	5.189	-1.5	8.4	54.417	5.5	9.1	59.606	4.8	9.1	3.649	56.8	8.1
Dec-16	5.790	-0.7	9.4	58.786	5.6	9.9	64.576	5.0	9.8	4.545	48.9	10.0
3rd Quarter	15.678	-1.1	25.4	160.170	3.6	26.9	175.848	3.2	26.7	11.428	26.2	25.3
Jan-17	6.568	11.5	10.7	58.821	3.4	9.9	65.389	4.2	9.9	5.046	13.8	11.2
Feb-17	6.025	-0.7	9.8	57.967	7.0	9.7	63.992	6.2	9.7	4.614	-9.0	10.2
Mar-17	7.646	13.4	12.4	69.329	9.7	11.6	76.975	10.0	11.7	5.478	-4.4	12.1
4th Quarter	20.239	8.2	32.8	186.117	6.8	31.2	206.356	6.9	31.4	15.138	-0.6	33.5
2016-17	61.661	1.3	100.0	596.207	3.1	100.0	657.868	2.9	100.0	45.230	3.2	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 2016-17

(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)
2016-17															
Apr-16	0.446	-9.3	7.0	1.449	38.1	7.1	0.425	23.2	9.2	0	-	-	1.129	-9.1	8.2
May-16	0.479	-5.7	7.5	1.751	51.5	8.6	0.412	26.4	9.0	0	-	-	1.124	-11.4	8.2
Jun-16	0.483	-0.8	7.5	2.058	64.9	10.2	0.379	9.5	8.2	0	-	-	1.150	-5.3	8.3
1st Quarter	1.408	-5.3	22.0	5.258	52.3	25.9	1.216	19.6	26.4	0	-	-	3.403	-8.7	24.7
Jul-16	0.474	-6.5	7.4	1.579	38.3	7.8	0.400	3.9	8.7	0	-	-	1.172	-6.4	8.5
Aug-16	0.483	-1.0	7.5	1.126	-1.3	5.6	0.370	-0.5	8.0	0	-	-	1.180	-6.2	8.6
Sep-16	0.483	-8.3	7.5	1.085	-28.1	5.4	0.360	-6.7	7.8	0	-	-	1.127	-4.4	8.2
2nd Quarter	1.440	-5.4	22.5	3.790	-0.1	18.7	1.130	-1.1	24.6	0	-	-	3.479	-5.7	25.2
Oct-16	0.497	-1.8	7.7	1.539	6.9	7.6	0.361	-8.4	7.9	0	-	-	1.193	-2.7	8.7
Nov-16	0.577	9.9	9.0	1.816	17.5	9.0	0.401	-4.3	8.7	0	-	-	1.174	-2.1	8.5
Dec-16	0.652	13.0	10.2	1.820	11.0	9.0	0.359	-16.1	7.8	0	-	-	1.108	-2.2	8.0
3rd Quarter	1.726	7.3	26.9	5.175	11.9	25.5	1.121	-9.7	24.4	0	-	-	3.475	-2.3	25.2
Jan-17	0.631	14.5	9.8	1.999	5.2	9.9	0.360	-16.7	7.8	0	-	-	1.208	1.7	8.8
Feb-17	0.575	12.1	9.0	1.870	23.5	9.2	0.362	-7.4	7.9	0	-	-	1.015	-1.1	7.4
Mar-17	0.634	26.5	9.9	2.182	19.0	10.8	0.409	-22.2	8.9	0	-	-	1.199	1.5	8.7
4th Quarter	1.840	17.6	28.7	6.051	15.3	29.8	1.131	-16.2	24.6	0	-	-	3.422	0.8	24.8
2016-17	6.414	3.8	100.0	20.274	18.4	100.0	4.598	-3.2	100.0	0	-	-	13.779	-4.1	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)
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
2016-17	0	0.0	-	0.6	0.1	23.2	138.525	21.1	6.1

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)
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
2016-17	0.010	0.0	-23.1	126.435	19.2	4.4	105.013	16.0	-2.5

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)
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
2016-17	40.559	6.2	5.8	2.308	0.4	-60.8	139.359	21.2	0.6

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)
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
2016-17	61.336	9.3	1.6	16.056	2.4	26.5	27.667	4.2	7.4

Year	ALL INDIA	
	Quantity	Growth (%)
(41)	(42)	(43)
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
2016-17	657.868	2.9

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)
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	52.2	0.5	12.317	25.5	6.3	10.763	22.3	41.1
2015-16	24.227	55.3	-3.8	10.123	23.1	-17.8	9.492	21.7	-11.8
2016-17	26.204	57.9	8.2	10.546	23.3	4.2	8.480	18.7	-10.7

Year	ALL INDIA	
	Quantity	Growth (%)
(11)	(12)	(13)
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	-1.0
2016-17	45.230	-6.3

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

[Quantity in Million Tonnes]

Company	2014-15			2015-16			2016-17		
	Coking	Non-coking	Total	Coking	Non-coking	Total	Coking	Non-coking	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ECL	0.034	39.972	40.006	0.012	40.196	40.208	0.031	40.486	40.517
BCCL	30.770	3.742	34.512	32.648	3.213	35.861	32.393	4.644	37.037
CCL	19.326	36.326	55.652	20.697	40.627	61.324	21.988	45.059	67.047
NCL		72.484	72.484		80.224	80.224		84.096	84.096
WCL	0.310	40.837	41.147	0.209	44.606	44.815	0.131	45.501	45.632
SECL	0.126	128.149	128.275	0.135	135.521	135.656	0.110	134.569	134.679
SECL(GP-IV/2&3)					2.278	2.278		4.480	4.480
SECL(GP-IV/1)								0.844	0.844
MCL		121.379	121.379		137.901	137.901		139.208	139.208
NEC		0.779	0.779		0.487	0.487		0.600	0.600
CIL	50.566	443.668	494.234	53.701	485.053	538.754	54.653	499.487	554.140
SCCL		52.536	52.536		60.380	60.380		61.336	61.336
JKML		0.013	0.013		0.013	0.013		0.010	0.010
DVC		0.066	0.066	0.403		0.403	0.152		0.152
IISCO	0.420	0.206	0.626	0.558	0.169	0.727	0.540	0.226	0.766
SAIL	0.024	0.001	0.025			0.000		0.000	0.000
JSMDCL		0.415	0.415		0.190	0.190		0.297	0.297
RRVUNL		3.443	3.443		6.210	6.210		8.267	8.267
NTPC								0.228	0.228
APMDTCL		0.000	0.000						
DVC EMTA		1.001	1.001						
WBPDCCL		6.221	6.221						
WBMDTCL		1.041	1.041						
PSEB/PANEM		3.433	3.433						
KECML		2.478	2.478						
MPSMCL		1.500	1.500						
Total Public	51.010	516.022	567.032	54.662	552.015	606.677	55.345	569.851	625.196
TISCO	6.027	0.016	6.043	6.225	0.003	6.228	6.316	0.000	6.316
Meghalaya		2.524	2.524		3.712	3.712		2.308	2.308
BALCO					0.120	0.120		0.180	0.180
CESC					1.877	1.877		1.742	1.742
GMR					0.560	0.560		0.151	0.151
HIL		2.248	2.248		0.069	0.069		2.000	2.000
JPVL					2.800	2.800		2.800	2.800
SIL		0.196	0.196		0.165	0.165		0.153	0.153
SPL		9.406	9.406		17.022	17.022		16.997	16.997
RCCPL								0.025	0.025
ICML		3.449	3.449						
JSPL		5.989	5.989						
MIEL		1.000	1.000						
BLA		0.300	0.300						
PIL		1.000	1.000						
JNL		0.703	0.703						
JPL		6.248	6.248						
ESCL	0.409	0.024	0.433						
UML		0.790	0.790						
SEML		1.189	1.189						
BSIL		0.031	0.031						
TUML/SVSL		0.198	0.198						
SOVA		0.400	0.400						
GVK		0.000	0.000						
Total Private	6.436	35.711	42.147	6.225	26.328	32.553	6.316	26.356	32.672
ALL INDIA	57.446	551.733	609.179	60.887	578.343	639.230	61.661	596.207	657.868
LIGNITE									
NLC			26.543			25.451			27.617
GMDCL			8.713			6.968			7.652
GIPCL			3.404			3.063			2.816
RSMML			1.405			0.972			0.549
GHCL			0.200			0.092			0.078
VSLPPL			1.005			0.617			0.508
BLMCL			7.000			6.679			6.010
ALL INDIA			48.270			43.842			45.230
COAL & LIGNITE			657.449			683.072			703.098

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

(Quantity in Million Tonnes)

State	2012-13	2013-14	2014-15	2015-16	2016-17
(1)	(2)	(3)	(4)	(5)	(6)
COKING					
Chhattisgarh	0.157	0.125	0.126	0.135	0.110
Jharkhand	51.065	55.088	56.430	58.548	59.604
Madhya Pradesh	0.330	0.249	0.310	0.209	0.131
West Bengal	0.030	1.356	0.580	1.995	1.816
Total Coking	51.582	56.818	57.446	60.887	61.661
NON-COKING					
Arunachal Pradesh	0.073	0.000	0.000	0.000	0.000
Assam	0.605	0.664	0.779	0.487	0.600
Chhattisgarh	117.673	126.970	134.638	130.470	138.415
Jammu & Kashmir	0.019	0.019	0.013	0.013	0.010
Jharkhand	60.209	58.003	67.713	62.519	66.831
Madhya Pradesh	75.618	75.341	87.299	107.505	104.882
Maharashtra	39.134	37.223	38.257	38.351	40.559
Meghalaya	5.640	5.732	2.524	3.712	2.308
Odisha	110.132	112.917	123.627	138.461	139.359
Telangana	53.190	50.469	52.536	60.380	61.336
Uttar Pradesh	16.090	14.721	14.957	12.689	16.056
West Bengal	26.437	26.888	29.390	23.756	25.851
Total Non-Coking	504.820	508.947	551.733	578.343	596.207
Total Coal	556.402	565.765	609.179	639.230	657.868

TABLE 3.10: STATEWISE PRODUCTION OF LIGNITE IN LAST FIVE YEARS

(Quantity in Million Tonnes)

State	2012-13	2013-14	2014-15	2015-16	2016-17
(1)	(2)	(3)	(4)	(5)	(6)
Gujarat	14.528	11.588	12.317	10.123	10.546
Rajasthan	7.081	7.627	10.763	9.492	8.480
Tamilnadu	24.844	25.056	25.190	24.227	26.204
TOTAL	46.453	44.271	48.270	43.842	45.230

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

[Quantity in Million Tonnes]

STATES (1)	COAL COMPANY (2)	2014-2015			2015-2016			2016-2017		
		Coking (3)	N-Coking (4)	Total (5)	Coking (6)	N-Coking (7)	Total (8)	Coking (9)	N-Coking (10)	Total (11)
Assam	NEC		0.779	0.779		0.487	0.487		0.600	0.600
Chhattisgarh	SECL	0.126	115.066	115.192	0.135	121.793	121.928	0.110	122.644	122.754
Chhattisgarh	SECL(GP-IV/2&3)					2.278	2.278		4.480	4.480
Chhattisgarh	SECL(GP-IV/1)								0.844	0.844
Chhattisgarh	HIL (GP-IV/4)					0.069	0.069		1.000	1.000
Chhattisgarh	HIL (GP-IV/5)								1.000	1.000
Chhattisgarh	BALCO					0.120	0.120		0.180	0.180
Chhattisgarh	RRVUNL		3.443	3.443		6.210	6.210		8.267	8.267
Chhattisgarh	JSPL		5.989	5.989						
Chhattisgarh	MIEL		1.000	1.000						
Chhattisgarh	PIL		1.000	1.000						
Chhattisgarh	JPL		6.248	6.248						
Chhattisgarh	JNL		0.703	0.703						
Chhattisgarh	SEML		1.189	1.189						
Chhattisgarh	TOTAL	0.126	134.638	134.764	0.135	130.470	130.605	0.110	138.415	138.525
Jammu & Kashmir	JKML		0.013	0.013		0.013	0.013		0.010	0.010
Jharkhand	ECL	0.030	19.372	19.402	0.012	19.035	19.047	0.031	16.903	16.934
Jharkhand	BCCL	30.194	3.270	33.464	30.653	2.650	33.303	30.577	4.318	34.895
Jharkhand	CCL	19.326	36.326	55.652	20.697	40.627	61.324	21.988	45.059	67.047
Jharkhand	JSMDC		0.415	0.415		0.190	0.190		0.297	0.297
Jharkhand	DVC		0.066	0.066	0.403		0.403	0.152		0.152
Jharkhand	IISCOJ	0.420		0.420	0.558	0.014	0.572	0.540	0.026	0.566
Jharkhand	NTPC								0.228	0.228
Jharkhand	TISCO	6.027	0.016	6.043	6.225	0.003	6.228	6.316		6.316
Jharkhand	PSEB/PANEM		3.433	3.433						
Jharkhand	UML		0.790	0.790						
Jharkhand	ESCL	0.409	0.024	0.433						
Jharkhand	SAIL	0.024	0.001	0.025						
Jharkhand	WBPDC		4.000	4.000						
Jharkhand	GVK		0	0						
Jharkhand	TOTAL	56.430	67.713	124.143	58.548	62.519	121.067	59.604	66.831	126.435
Madhya Pradesh	NCL		57.527	57.527		67.535	67.535		68.040	68.040
Madhya Pradesh	WCL	0.310	5.483	5.793	0.209	6.420	6.629	0.131	5.095	5.226
Madhya Pradesh	SECL		13.083	13.083		13.728	13.728		11.925	11.925
Madhya Pradesh	SPL		9.406	9.406		17.022	17.022		16.997	16.997
Madhya Pradesh	JPVL					2.800	2.800		2.800	2.800
Madhya Pradesh	RCCPL								0.025	0.025
Madhya Pradesh	BLA		0.300	0.300						
Madhya Pradesh	MPSMCL		1.500	1.500						
Madhya Pradesh	TOTAL	0.310	87.299	87.609	0.209	107.505	107.714	0.131	104.882	105.013
Maharashtra	WCL		35.354	35.354		38.186	38.186		40.406	40.406
Maharashtra	SIL		0.196	0.196		0.165	0.165		0.153	0.153
Maharashtra	BSIL		0.031	0.031						
Maharashtra	KECML		2.478	2.478						
Maharashtra	TUML/SVSL		0.198	0.198						
Maharashtra	TOTAL	0	38.257	38.257	0	38.351	38.351	0	40.559	40.559
Meghalaya	MEG		2.524	2.524		3.712	3.712		2.308	2.308
Odisha	MCL		121.379	121.379		137.901	137.901		139.208	139.208
Odisha	HIL		2.248	2.248						
Odisha	GMR					0.560	0.560		0.151	0.151
Odisha	TOTAL		123.627	123.627		138.461	138.461		139.359	139.359
Telangana	SCCL		52.536	52.536		60.380	60.380		61.336	61.336
Uttar Pradesh	NCL		14.957	14.957		12.689	12.689		16.056	16.056
West Bengal	ECL	0.004	20.600	20.604		21.161	21.161		23.583	23.583
West Bengal	BCCL	0.576	0.472	1.048	1.995	0.563	2.558	1.816	0.326	2.142
West Bengal	IISCOR		0.206	0.206		0.155	0.155		0.200	0.200
West Bengal	CESC					1.877	1.877		1.742	1.742
West Bengal	ICML		3.449	3.449						
West Bengal	WBPDC		2.221	2.221						
West Bengal	DVC EMTA		1.001	1.001						
West Bengal	WBMDTCL		1.041	1.041						
West Bengal	SOVA		0.400	0.400						
West Bengal	TOTAL	0.580	29.390	29.970	1.995	23.756	25.751	1.816	25.851	27.667
Total Public		51.010	516.022	567.032	54.662	552.015	606.677	55.345	569.851	625.196
Total Private	TOTAL	6.436	35.711	42.147	6.225	26.328	32.553	6.316	26.356	32.672
All India		57.446	551.733	609.179	60.887	578.343	639.230	61.661	596.207	657.868

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)
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				
		TOTAL	6182	5525	14368	16	18	22
2016-17	BCCL	1182	1128					
	CCL	1139	1461					
	WCL	41	32					
	DCC				9	12	11	47
	SAIL			7828				
	IISCO	712	481	834				
	RINL			2523				
	TISCO	3340	1496	2594				
		TOTAL	6414	4598	13779	9	12	11

Coke production of RINL is included in this table.

TABLE 3.13: GRADEWISE PRODUCTION OF COKING COAL BY COMPANIES IN 2016-17

(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						0.031				0.031	0.031
BCCL	0.023	1.004		0.149	1.704	7.942	21.571		3.311	29.082	32.393
CCL				0.166	1.470	1.692	18.660		4.956	17.032	21.988
NCL											0.000
WCL					0.131				0.131	0.000	0.131
SECL			0.110							0.110	0.110
SECL(GP-IV/2&3)											0.000
SECL(GP-IV/1)											0.000
MCL											0.000
NEC											0.000
CIL	0.023	1.004	0.110	0.315	3.305	9.665	40.231	0.000	8.398	46.255	54.653
SCCL											0.000
JKML											0.000
JSMDCL											0.000
DVC							0.152			0.152	0.152
IISCO						0.085	0.455		0.540	0.000	0.540
SAIL											0.000
RRVUNL											0.000
NTPC											0.000
Total Public	0.023	1.004	0.110	0.315	3.305	9.750	40.838	0.000	8.938	46.407	55.345
TISCO					0.115	1.046	5.155		6.316	0.000	6.316
Meghalaya											0.000
BALCO											0.000
CESC											0.000
GMR											0.000
HIL (GP-IV/4)											0.000
HIL (GP-IV/5)											0.000
JPVL											0.000
SIL											0.000
SPL											0.000
RCCPL											0.000
Total Private	0.000	0.000	0.000	0.000	0.115	1.046	5.155	0.000	6.316	0.000	6.316
ALL INDIA	0.023	1.004	0.110	0.315	3.420	10.796	45.993	0.000	15.254	46.407	61.661

Contd....

TABLE 3.13: GRADEWISE PRODUCTION OF NON COKING COAL BY COMPANIES IN 2016-17

(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			1.376	13.689	6.32	1.742	2.301	0.677					14.381							40.486	40.517
BCCL			1.139	0.089	0.028	1.494	0.738	0.055	1.084		0.017									4.644	37.037
CCL				0.301	1.295	0.425	0.893	1.262	9.278	16.168	9.509	5.928								45.059	67.047
NCL					0.559	0.099	17.920	9.904	1.237	52.331		2.046								84.096	84.096
WCL				0.016	0.226	1.055	2.268	11.585	18.032	9.727	2.592									45.501	45.632
SECL			2.764	2.939	4.260	9.229	5.084	1.315	0.845	1.723	96.277	3.647	3.505	2.587		0.394				134.569	134.679
SECL(GP-IV/2&3)												0.095	1.121		3.264				4.480	4.480	
SECL(GP-IV/1)												0.435		0.326		0.083			0.844	0.844	
MCL							0.174		0.383	0.468		77.080	61.103						139.208	139.208	
NEC	0.110	0.309		0.181															0.600	0.600	
CIL	0.110	0.309	5.279	17.215	12.688	14.044	29.378	24.798	30.859	80.417	108.395	89.231	78.989	3.708	0.326	3.658	0.083	0.000	499.487	554.140	
SCCL					0.912		6.196	4.042	7.657	10.732	11.458	1.814	11.460	2.648	2.937	0.847	0.366	0.267	61.336	61.336	
JKML																	0.010		0.010	0.010	
JSMDCL												0.297							0.297	0.297	
DVC																			0.000	0.152	
IISCO			0.104		0.096													0.026	0.226	0.766	
SAIL																			0.000	0.000	
RRVUNL											8.267								8.267	8.267	
NTPC								0.228											0.228	0.228	
Total Public	0.110	0.309	5.279	17.319	13.600	14.140	35.574	28.840	38.744	91.149	128.120	91.342	90.449	6.356	3.263	4.505	0.459	0.293	569.851	625.196	
TISCO																			0.000	6.316	
Meghalaya	2.308																		2.308	2.308	
BALCO								0.180											0.180	0.180	
CESC										1.742									1.742	1.742	
GMR													0.088	0.063					0.151	0.151	
HIL (GP-IV/4)										0.135	0.465		0.400						1.000	1.000	
HIL (GP-IV/5)								0.556				0.444							1.000	1.000	
JPVL										2.800									2.800	2.800	
SIL								0.153											0.153	0.153	
SPL										6.891	10.106								16.997	16.997	
RCCPL								0.025											0.025	0.025	
Total Private	2.308	0.000	0.000	0.000	0.000	0.000	0.000	0.734	0.180	7.026	15.113	0.444	0.488	0.063	0.000	0.000	0.000	0.000	26.356	32.672	
ALL INDIA	2.418	0.309	5.279	17.319	13.600	14.140	35.574	29.574	38.924	98.175	143.233	91.786	90.937	6.419	3.263	4.505	0.459	0.293	596.207	657.868	

TABLE 3.14: GRADEWISE PRODUCTION OF COKING COAL AND NON COKING COAL BY STATES IN 2016-17

(Quantity in Million Tonnes)

Grade	Assam	Chhattisgarh	Jammu & Kashmir	Jharkhand	Madhya Pradesh	Maharashtra	Meghalaya	Odisha	Telangana	Uttar Pradesh	West Bengal	India (2016-17)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Steel-I				0.023								0.023
Steel-II				1.004								1.004
SC		0.110										0.110
Wash-I				0.315								0.315
Wash-II				3.156	0.131						0.133	3.420
Wash-III				9.113							1.683	10.796
Wash-IV				45.993								45.993
SLV1												0.000
Met.Coal				15.123	0.131							15.254
Non Met	0.000	0.110	0.000	44.418	0.000	0.000	0.000	0.000	0.000	0.000	1.816	46.344
Total Coking	0.000	0.110	0.000	59.604	0.131	0.000	0.000	0.000	0.000	0.000	1.816	61.661
G1	0.110						2.308					2.418
G2	0.309											0.309
G3		2.118		1.451	0.646						1.064	5.279
G4	0.181	1.206		0.390	1.749						13.793	17.319
G5		3.900		2.097	0.977	0.097			0.912	0.071	5.546	13.600
G6		3.000		2.466	6.957	0.327				0.099	1.291	14.140
G7		2.127		2.017	22.489	0.656		0.174	6.196		1.915	35.574
G8		1.871		1.494	2.372	10.707			4.042	8.588	0.500	29.574
G9		1.025		10.590	2.816	16.453		0.383	7.657			38.924
G10		1.858		16.168	51.924	9.727		0.468	10.732	7.298		98.175
G11		105.009		9.526	12.906	2.592			11.458		1.742	143.233
G12		4.621		6.225	2.046			77.080	1.814			91.786
G13		3.905		14.381				61.191	11.460			90.937
G14		3.708						0.063	2.648			6.419
G15		0.326							2.937			3.263
G16		3.658							0.847			4.505
G17		0.083	0.010						0.366			0.459
UNG				0.026					0.267			0.293
Total Non-Coking	0.600	138.415	0.010	66.831	104.882	40.559	2.308	139.359	61.336	16.056	25.851	596.207
India (16-17)	0.600	138.525	0.010	126.435	105.013	40.559	2.308	139.359	61.336	16.056	27.667	657.868

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	2007-08	2008-09	2009-10	2010-11	2011-12	Grade	2012-13	2013-14	2014-15	2015-16	2016-17
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(New)	(8)	(9)	(10)	(11)	(12)
PRODUCTION OF COKING COAL	Steel-I	0.083	0.075	0.109	0.263	0.083	Steel-I	0.072	0.061	0.050	0.037	0.023
	Steel-II	0.282	0.960	1.380	1.558	1.135	Steel-II	1.37	0.604	0.456	1.051	1.004
	SC-1	0.181	0.169	0.167	0.17	0.199	SC-1	0.167	0.135	0.130	0.135	0.11
	Wash-I	0.471	0.318	0.297	0.235	0.246	Wash-I	0.26	0.145	0.115	0.415	0.315
	Wash-II	2.085	1.717	1.868	1.757	1.815	Wash-II	1.711	2.042	2.228	2.493	3.42
	Wash-III	7.759	8.090	10.068	10.165	13.147	Wash-III	12.346	12.616	12.335	12.968	10.796
	Wash-IV	23.568	23.472	30.524	35.399	35.035	Wash-IV	35.656	40.962	42.132	43.788	45.993
	SLV1	0.026	0.008	0	0	0	SLV1	0	0.253	0.000	0	0
	Met.Coal	18.065	17.301	17.731	17.695	13.784	Met.Coal	14.547	15.114	13.784	14.339	15.254
	Non Met	16.390	17.508	26.682	31.852	37.876	Non Met	37.035	41.704	43.662	46.548	46.344
Total Coking	34.455	34.809	44.413	49.547	51.660	Total Coking	51.582	56.818	57.446	60.887	61.661	
PRODUCTION OF NON - COKING COAL	A	4.901	10.179	10.692	12.182	14.942	G1	5.899	6.13	2.740	3.831	2.418
	B	21.959	24.854	25.827	24.023	59.312	G2	0.48	0.416	0.565	0.341	0.309
	C	55.526	51.058	56.147	55.581	28.918	G3	5.622	5.374	5.469	5.189	5.279
	D	45.721	48.006	50.518	45.710	77.109	G4	17.619	21.526	19.025	17.665	17.319
	E	102.277	112.993	117.855	121.227	78.257	G5	15.162	13.236	14.789	16.302	13.6
	F	178.877	201.286	219.097	212.693	205.194	G6	22.708	17.714	22.680	13.114	14.14
	G						G7	34.842	35.837	37.838	39.038	35.574
							G8	24.189	28.273	30.523	33.15	29.574
							G9	66.817	57.003	52.704	44.579	38.924
							G10	59.118	55.405	64.411	82.855	98.175
							G11	120.369	126.328	130.703	147.46	143.233
							G12	36.932	56.372	79.169	90.578	91.786
							G13	81.09	68.984	76.348	77.619	90.937
							G14	3.168	4.556	5.054	1.439	6.419
							G15	3.968	3.858	3.806	4.073	3.263
							G16	1.63	3.093	2.627	0.418	4.505
	G17	5.207	4.786	3.258	0.666	0.459						
Ungraded	6.776	0.240	0.394	1.119	10.846			0.056	0.024	0.026	0.293	
Total Non-Coking	422.627	457.948	487.629	483.147	488.290		504.820	508.947	551.733	578.343	596.207	
TOTAL COAL	457.082	492.757	532.042	532.694	539.950		556.402	565.765	609.179	639.230	657.868	

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

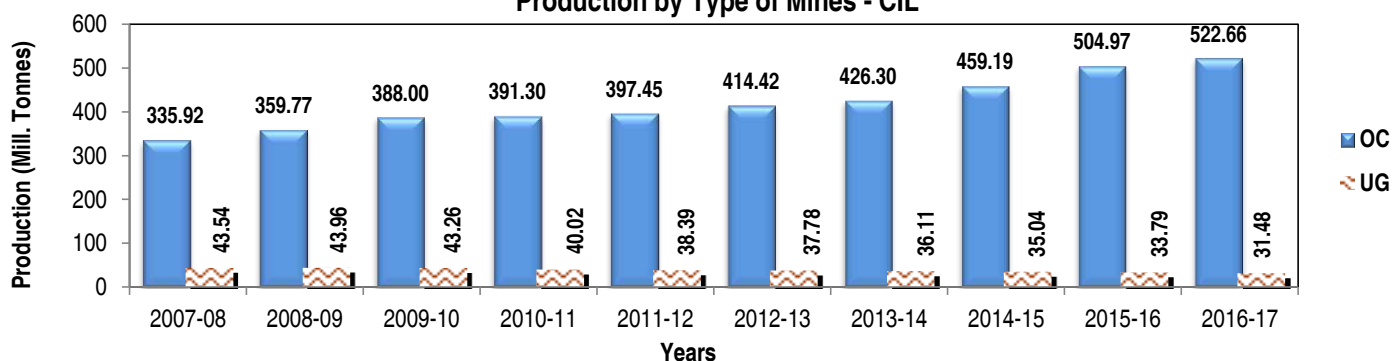
(2) For definition of grade please see page I.2

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

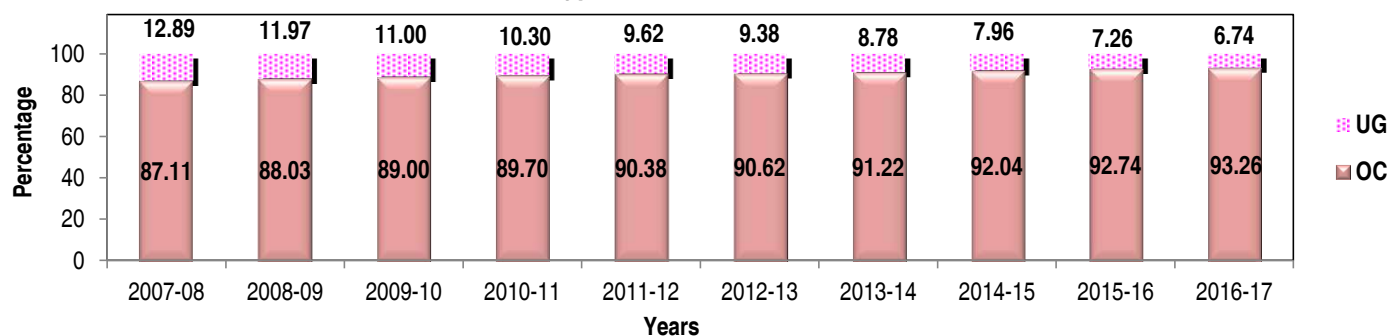
(Quantity in Million Tonnes)

YEAR	Open Cast					Under Ground					All India Raw Coal	
	Production			OC Share (%) in All India Total	OC Growth (%) (All India)	Production			UG Share (%) in All India Total	UG Growth (%) (All India)	Production	Growth (%)
	by CIL	by SCCL	All India			by CIL	by SCCL	All India				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
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
2016-17	522.663	51.821	613.518	93.26	3.49	31.477	9.515	44.350	6.74	-4.43	657.868	2.92

Production by Type of Mines - CIL



Percentage Distribution of Production by Type of Mines - INDIA



Production by Type of Mines - SCCL

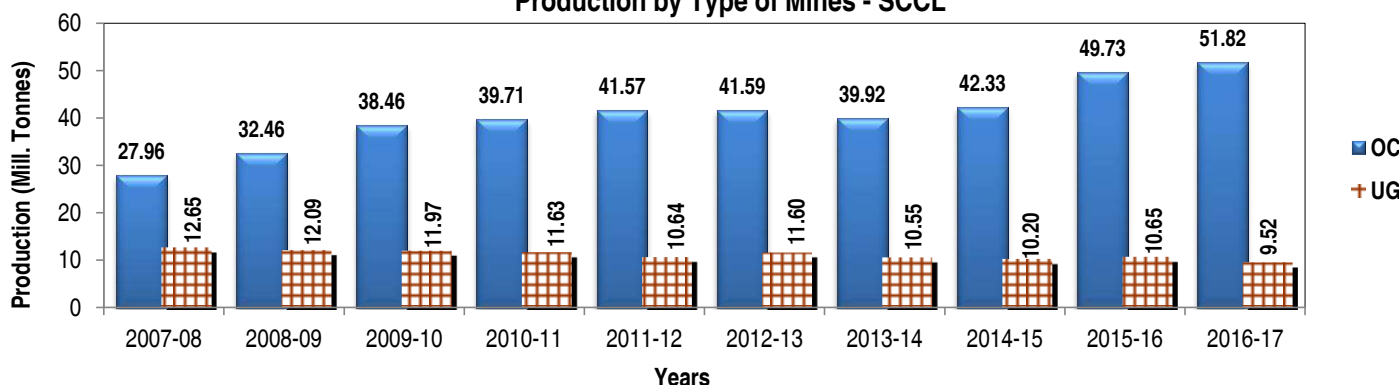


TABLE 3.17 : COMPANY WISE PRODUCTION OF RAW COAL FROM OPENCAST AND UNDER GROUND MINES IN TWO YEARS

(Quantity in Million Tonnes)

COMPANIES	Y E A R 2015 - 2016						Y E A R 2016 - 2017					
	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	32.879	5.55	0.50	7.329	15.79	0.51	32.390	5.28	-1.49	8.127	18.32	10.89
BCCL	34.055	5.74	4.84	1.806	3.89	-10.99	35.358	5.76	3.83	1.679	3.79	-7.03
CCL	60.476	10.20	10.34	0.848	1.83	0.83	66.310	10.81	9.65	0.737	1.66	-13.09
NCL	80.224	13.53	10.68				84.096	13.71	4.83			
WCL	37.635	6.35	12.07	7.180	15.47	-5.10	40.264	6.56	6.99	5.368	12.10	-25.24
SECL	120.149	20.27	7.05	15.507	33.41	-3.30	120.131	19.58	-0.01	14.548	32.80	-6.18
SECL(GP-IV/2&3)	2.278	0.38			0.00		4.480	0.73				
SECL(GP-IV/1)							0.844	0.14				
MCL	136.789	23.07	13.89	1.112	2.40	-12.85	138.193	22.52	1.03	1.015	2.29	-8.72
NEC	0.484	0.08	-37.63	0.003	0.01	0.00	0.597	0.10	23.35	0.003	0.01	0.00
CIL	504.969	85.18	9.97	33.785	72.80	-3.59	522.663	85.19	3.50	31.477	70.97	-6.83
SCCL	49.727	8.39	17.47	10.653	22.96	4.41	51.821	8.45	4.21	9.515	21.45	-10.68
JKML				0.013	0.03					0.010	0.02	-23.08
DVC	0.403	0.07	510.61		0.00		0.152	0.02	-62.28			
IISCO	0.459	0.08	27.50	0.268	0.58	0.75	0.506	0.08	10.24	0.260	0.59	-2.99
JSMDC	0.190	0.03	-54.22		0.00		0.297	0.05	56.32			
RRVUNL	6.210	1.05	80.37		0.00		8.267	1.35	33.12			
NTPC							0.228	0.04				
SAIL					0.00							
PUBLIC	561.958	94.79	7.76	44.719	96.36	-1.77	583.934	95.18	3.91	41.262	93.04	-7.73
TISCO	4.772	0.80	1.21	1.456	3.14	9.64	5.006	0.82	4.90	1.310	2.95	-10.03
Meghalaya	3.712	0.63	47.07				2.308	0.38	-37.82			
BALCO	0.120	0.02					0.180	0.03	50.00			
CESC	1.877	0.32					1.742	0.28	-7.19			
GMR	0.560	0.09					0.151	0.02	-73.04			
HIL	0.001	0.00	-99.96	0.068	0.15		0.400	0.07	39900.00	1.600	3.61	2252.94
JPVL	2.800	0.47					2.800	0.46	0.00			
SIL				0.165	0.36					0.153	0.34	-7.27
SPL	17.022	2.87	80.97				16.997	2.77	-0.15			
RCCPL										0.025	0.06	
PRIVATE	30.864	5.21	-23.51	1.689	3.64	-43.45	29.584	4.82	-4.15	3.088	6.96	82.83
All India	592.822	100.00	5.51	46.408	100.00	-4.34	613.518	100.00	3.49	44.350	100.00	-4.43

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 2016-17

(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	32.390	5.3			32.390	79.9	0.305	3.8	5.420	66.7			0.952		1.450	17.8	8.127	20.1	40.517
BCCL	35.358	5.8			35.358	95.5	0.002	0.1	1.102	65.6	0.041	2.4	0.534	31.8			1.679	4.5	37.037
CCL	66.310	10.8			66.310	98.9	0.233	31.6	0.504	68.4							0.737	1.1	67.047
NCL	84.096	13.7			84.096	100.0													84.096
WCL	40.264	6.6			40.264	88.2	0.092	1.7	5.276	98.3							5.368	11.8	45.632
SECL	120.131	19.6			120.131	89.2			10.789	74.2					3.759	25.8	14.548	10.8	134.679
SECL(GP-IV/2&3)	4.480	0.7			4.480	100.0													4.480
SECL(GP-IV/1)	0.844	0.1			0.844	100.0													0.844
MCL	138.193	22.5			138.193	99.3			1.015	100.0							1.015	0.7	139.208
NEC	0.597	0.1			0.597	99.5									0.003	100.0	0.003	0.5	0.600
CIL	522.663	85.2	0.000	14.8	522.663	94.3	0.632	2.0	24.106	76.6	0.041	0.1	1.486	4.7	5.212	16.6	31.477	5.7	554.140
SCCL	51.821	8.4			51.821	84.5	0.228	2.4	7.297	76.7			1.130	11.9	0.860	9.0	9.515	15.5	61.336
JKML		0.0					0.010	100.0									0.010	100.0	0.010
JSMDC	0.297	0.0			0.297	100.0													0.297
DVC	0.152	0.0			0.152	100.0													0.152
IISCO	0.506	0.1			0.506	66.1	0.003	1.2			0.085				0.172		0.260	33.9	0.766
SAIL		0.0																	0.000
RRVUNL	8.267	1.3			8.267	100.0													8.267
NTPC	0.228	0.0			0.228														0.228
Total Public	583.934	95.2	0.000	4.8	583.934	93.4	0.873	2.1	31.403	76.1	0.126	0.3	2.616	6.3	6.244	25.6	41.262	6.6	625.196
TISCO	5.006	0.8			5.006	79.3	0.250	19.1	1.060	80.9							1.310	20.7	6.316
Meghalaya	2.308	0.4			2.308	100.0													2.308
BALCO	0.180	0.0			0.180	100.0													0.180
CESC	1.742	0.3			1.742	100.0													1.742
GMR	0.151	0.0			0.151	100.0													0.151
HIL	0.400	0.1			0.400	20.0			1.600	100.0							1.600	80.0	2.000
JPVL	2.800	0.5			2.800	100.0													2.800
SIL		0.0			0.000	0.0			0.153	100.0							0.153	100.0	0.153
SPL	16.997	2.8			16.997	100.0													16.997
RCCPL									0.025	100.0							0.025	100.0	0.025
PRIVATE	29.584	4.8	0.000	95.2	29.584	90.5	0.250	8.1	2.838	91.9	0.000	0.0	0.000	0.0	0.000	0.0	3.088	100.0	32.672
India(16-17)	613.518	100.0	0.000	0.0	613.518	93.3	1.123	2.5	34.241	77.2	0.126	0.3	2.616	5.9	6.244	14.1	44.350	6.7	657.868

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

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

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

COMPANIES	2014 - 2015			2015 - 2016			2016 - 2017		
	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	94.047	32.714	2.87	119.219	32.879	3.63	124.637	32.390	3.85
BCCL	103.901	32.483	3.20	148.591	34.055	4.36	131.215	35.358	3.71
CCL	96.351	54.811	1.76	103.571	60.476	1.71	102.630	66.310	1.55
NCL	210.614	72.484	2.91	338.090	80.224	4.21	324.136	84.096	3.85
WCL	122.914	33.581	3.66	155.145	37.635	4.12	166.142	40.264	4.13
SECL	158.268	112.239	1.41	174.824	120.149	1.46	174.588	120.131	1.45
SECL(GP-IV/2&3)				0.543	2.278	0.24	3.039	4.480	0.68
SECL(GP-IV/1)							1.164	0.844	1.38
MCL	89.221	120.103	0.74	98.410	136.789	0.72	123.342	138.193	0.89
NEC	10.180	0.776	13.12	0.007	0.484	0.01	5.676	0.597	9.51
CIL	885.496	459.191	1.93	1138.400	504.969	2.25	1156.569	522.663	2.21
SCCL	262.820	42.333	6.21	310.763	49.727	6.25	312.636	51.821	6.03
JKML									
DVC	0.131	0.066	1.98	0.328	0.403	0.81	0.202	0.152	1.33
IISCO	1.162	0.360	3.23	2.626	0.459	5.72	2.619	0.506	5.18
SAIL	0.029	0.025	1.16						
JSMDCL	1.161	0.415	2.80	0.420	0.190	2.21	0.517	0.297	1.74
RRVUNL	3.836	3.443	1.11	11.966	6.210	1.93	16.189	8.267	1.96
NTPC							4.252	0.228	18.65
DVC EMTA	6.342	1.001	6.34						
APMDTCL									
WBMDTCL	2.879	1.041	2.77						
WBPDC	14.312	6.221	2.30						
PSEB-PANEM	5.798	3.433	1.69						
KECML	6.631	2.478	2.68						
MPSMCL	9.050	1.500	6.03						
PUBLIC	1199.647	521.507	2.30	1464.503	561.958	2.61	1492.984	583.934	2.56
TISCO	20.142	4.715	4.27	18.161	4.772	3.81	20.043	5.006	4.00
Meghalaya		2.524			3.712			2.308	0.00
HIL	2.393	2.248	1.06		0.001	0.00	2.313	0.400	5.78
SPL	30.505	9.406	3.24	65.692	17.022	3.86	78.087	16.997	4.59
CESC				6.540	1.877		4.639	1.742	2.66
GMR				0.993	0.560		0.229	0.151	1.52
BALCO				1.813	0.120		0.975	0.180	5.42
JPVL				13.290	2.800		18.108	2.800	6.47
RCCPL									
ICML	8.854	3.449	2.57						
JSPL	9.241	5.989	1.54						
MIEL									
BLA	0.882	0.300	2.94						
PIL	5.200	1.000	5.20						
JNL	2.062	0.342	6.03						
JPL	9.275	6.248	1.48						
SIL									
ESCL	2.192	0.331	6.62						
UML	5.127	0.790	6.49						
SEML	3.004	1.189	2.53						
BSIL	0.145	0.031	4.68						
TUML-SVSL	0.613	0.198	3.10						
SOVA	0.946	0.400	2.37						
PRIVATE	100.581	39.160	2.75	106.489	30.864	3.92	124.394	29.584	4.56
INDIA	1300.228	560.667	2.33	1570.992	592.822	2.67	1617.378	613.518	2.65

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)
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
2016-17	15.00	13.85	0.80	1.18	7.48	4.74

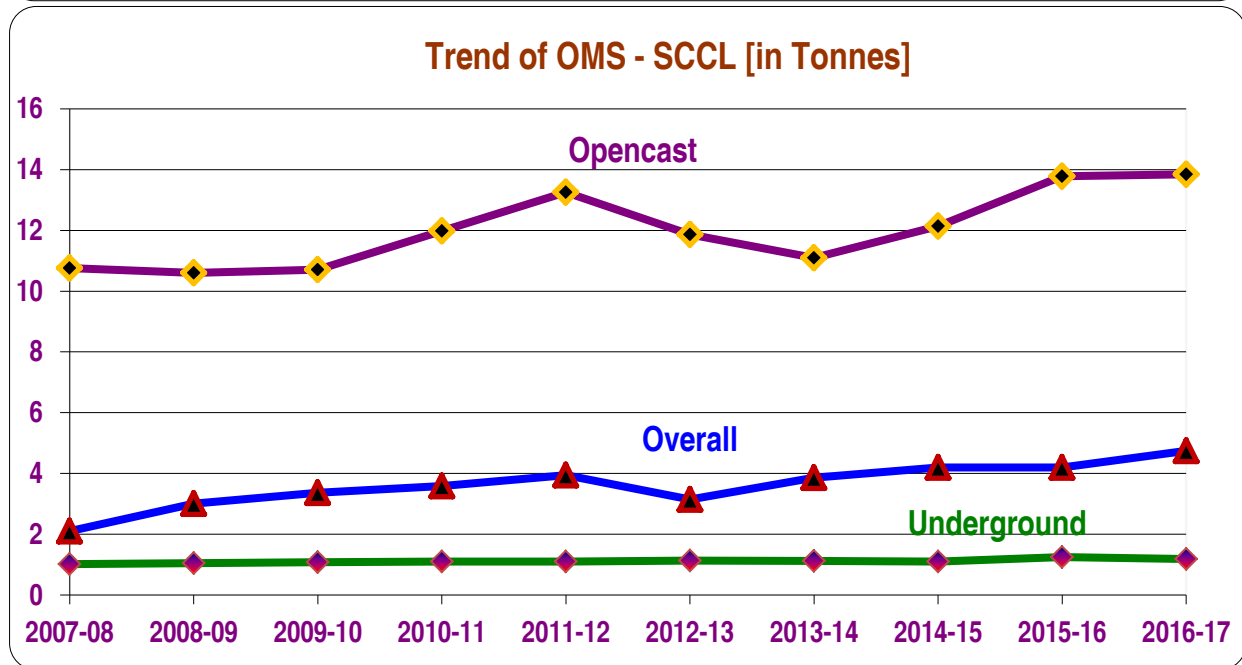
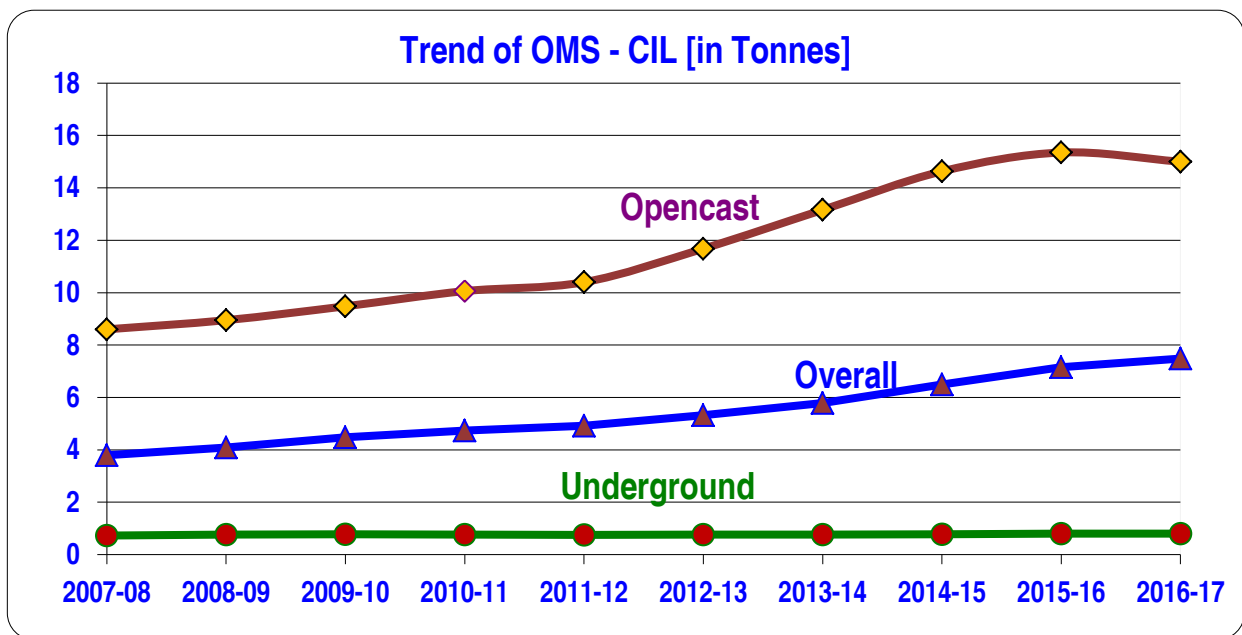


TABLE 3.21 : COMPANY WISE PRODUCTION, MANSHIFTS & OMS (CIL & SCCL) BY TYPE OF MINES DURING LAST THREE YEARS

Companies	Type of Mines	2014-2015			2015-2016			2016-2017		
		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	32.714	2.699	12.12	32.879	2.648	12.42	32.390	2.510	12.91
BCCL	OC	32.483	3.533	9.19	34.055	3.379	10.48	35.358	4.097	8.60
CCL	OC	54.811	6.807	7.56	60.476	6.786	8.91	66.310	6.761	9.81
NCL	OC	72.484	5.268	13.70	80.224	4.276	21.24	84.096	4.121	20.18
WCL	OC	33.581	4.677	5.72	37.635	4.790	5.41	40.264	7.102	0.56
SECL	OC	112.239	4.698	23.89	120.149	5.118	23.48	120.131	4.677	26.63
SECL(GP-IV/2&3)	OC				2.278	0.090	25.31	4.480	0.024	188.48
SECL(GP-IV/1)								0.844	0.010	80.86
MCL	OC	120.103	3.555	22.11	136.789	5.642	24.00	138.193	5.374	25.72
NEC	OC	0.776	0.152	5.10	0.484	0.173	2.80	0.597	0.163	3.67
CIL	OC	459.191	31.389	14.63	504.969	32.902	15.35	522.663	34.839	15.00
SCCL	OC	42.333	2.700	12.14	10.653	2.758	13.78	51.821	2.863	13.85
ECL	UG	7.292	13.657	0.53	7.329	13.056	0.56	8.127	12.656	0.64
BCCL	UG	2.029	7.894	0.26	1.806	7.408	0.24	1.679	6.289	0.30
CCL	UG	0.841	2.940	0.29	0.848	2.640	0.32	0.737	2.507	0.29
NCL	UG									
WCL	UG	7.566	6.723	1.13	7.180	6.455	1.11	5.368	5.772	0.93
SECL	UG	16.036	11.559	1.39	15.507	11.090	1.40	14.548	10.318	1.41
SECL(GP-IV/2&3)										
SECL(GP-IV/1)										
MCL	UG	1.276	1.694	0.77	1.112	1.662	1.00	1.015	1.560	0.65
NEC	UG	0.003	0.235	0.01	0.003	0.178	0.01	0.003	0.150	0.02
CIL	UG	35.043	44.702	0.78	33.785	42.489	0.80	31.477	39.252	0.80
SCCL	UG	10.203	8.371	1.10	51.821	8.477	1.25	9.515	8.104	1.17
ECL	ALL	40.006	16.356	2.45	40.208	15.704	2.56	40.517	15.166	2.67
BCCL	ALL	34.512	11.427	3.02	35.861	10.787	3.32	37.037	10.386	3.60
CCL	ALL	55.652	9.747	5.46	61.324	9.426	6.51	67.047	9.268	7.23
NCL	ALL	72.484	5.268	13.70	80.224	4.276	18.76	84.096	4.121	20.18
WCL	ALL	41.147	11.400	3.26	44.815	11.245	3.99	45.632	12.874	3.50
SECL	ALL	128.275	16.257	7.89	135.656	16.208	8.37	134.679	14.995	9.29
SECL(GP-IV/2&3)					2.278	0.090	25.31	4.480	0.024	188.48
SECL(GP-IV/1)								0.844	0.010	80.86
MCL	ALL	121.379	5.249	17.10	137.901	7.304	18.88	139.208	6.934	20.08
NEC	ALL	0.779	0.387	2.01	0.487	0.351	1.39	0.600	0.313	1.92
CIL	ALL	494.234	76.091	6.50	538.754	75.391	7.15	554.140	74.091	7.48
SCCL	ALL	52.536	11.071	4.20	62.474	11.235	4.20	61.336	10.967	4.74

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

(Quantity in Million Tonnes)

STATES	2014-2015			2015-2016			2016-2017		
	OC	UG	TOTAL	OC	UG	TOTAL	OC	UG	TOTAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ASSAM	0.776	0.003	0.779	0.484	0.003	0.487	0.597	0.003	0.600
CHHATTISGARH	124.899	9.865	134.764	122.372	8.233	130.605	129.411	9.114	138.525
JAMMU & KASHMIR		0.013	0.013		0.013	0.013		0.010	0.010
JHARKHAND	119.032	5.111	124.143	116.149	4.918	121.067	121.968	4.467	126.435
MADHYA PRADESH	75.369	12.240	87.609	95.976	11.738	107.714	94.844	10.169	105.013
MAHARASHTRA	35.203	3.054	38.257	35.402	2.949	38.351	38.148	2.411	40.559
MEGHALAYA	2.524	0.000	2.524	3.712	0.000	3.712	2.308		2.308
ODISHA	122.351	1.276	123.627	137.349	1.112	138.461	138.344	1.015	139.359
TELANGANA	42.333	10.203	52.536	49.727	10.653	60.380	51.821	9.515	61.336
UTTAR PRADESH	14.957		14.957	12.689	0.000	12.689	16.056		16.056
WEST BENGAL	23.223	6.747	29.970	18.962	6.789	25.751	20.021	7.646	27.667
ALL INDIA	560.667	48.512	609.179	592.822	46.408	639.230	613.518	44.350	657.868

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

(Quantity in Million Tonnes)

Block	Company	State	2014-15			2015-16			2016-17		
			Coking Coal	Non Coking Coal	Total Coal	Coking Coal	Non Coking Coal	Total Coal	Coking Coal	Non Coking Coal	Total Coal
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Gare Palma IV/2 & 3	SECL(GP-IV/2&3)	Chhattisgarh					2.278	2.278		4.480	4.480
Gare Palma IV/1	SECL(GP-IV/2&3)	Chhattisgarh								0.844	0.844
Parsa East & Kanta Basan	RRVUNL	Chhattisgarh		3.443	3.443		6.210	6.210		8.267	8.267
Pakri Barwadih	NTPC	Jharkhand								0.228	0.228
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	0.000	13.819	13.819
Gare Palma IV/4	HIL	Chhattisgarh					0.069	0.069		1.000	1.000
Gare Palma IV/5	HIL	Chhattisgarh								1.000	1.000
Amelia North	JPVL	Madhya Pradesh					2.800	2.800		2.800	2.800
Belgaon	SIL	Maharashtra		0.196	0.196		0.165	0.165		0.153	0.153
Chotia	BALCO	Chhattisgarh					0.120	0.120		0.180	0.180
Moher & Moher Amlori Extn	SPL	Madhya Pradesh		9.406	9.406		17.022	17.022		16.997	16.997
Sarshatali	CESC	West Bengal					1.877	1.877		1.742	1.742
Talabira I	GMR	Odisha					0.560	0.560		0.151	0.151
Sial Ghogri	RCCPL	Madhya Pradesh								0.025	0.025
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						
Kathautia	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	0.000	24.048	24.048
Grand Total			0.433	52.289	52.722	0.000	31.101	31.101	0.000	37.867	37.867

Section IV

4.1 Despatch & Off-take

4.1.1 In 2016-17, despatch of raw coal was 645.978 MT, against 632.442 Mt in 2015-16, thus increased by 2.14% over 2015-16.

4.1.2 Statement 4.1 shows despatch of raw coal (coking and non-coking) by public and private sector in 2016-17.

Statement 4.1: Despatch of Raw Coal			
Company	Coal Despatch (2016-17) [MT]		
	Coking	Non-coking	Total
ECL	0.029	42.779	42.808
BCCL	31.08	3.733	34.813
CCL	21.038	39.895	60.933
NCL		83.491	83.491
WCL	0.115	39.377	39.492
SECL*	0.015	137.645	137.660
MCL		143.007	143.007
NEC		0.777	0.777
CIL	52.277	490.704	542.981
SCCL		60.791	60.791
Other Public	0.720	8.906	9.626
Total Public	52.997	560.401	613.398
Total Private	6.311	26.269	32.580
ALL INDIA	59.308	586.670	645.978

*Including Production from SECL (GP-IV/1) and (GP-IV/2&3) coal blocks.

It can be seen that Coal India Limited accounted for 84.1% of coal despatch in the country. The share of SCCL in the coal despatch was 9.4% and the contribution of private sector was 5.0%. In the CIL group, the major share in despatch was MCL (22.1%), SECL (21.3%) and NCL (12.9%). These three companies collectively accounted for 56.3% of the raw coal despatch at all India level.

4.1.3 Concept of despatch and off-take has been explained in Section 1. In Statement 4.2, despatch and off-take of raw coal in 2016-17, has been shown.

Statement 4.2 : Despatch and Off-take of Raw Coal in India in 2016-17 by Company [MT]		
Company	Raw Coal	
	Despatch	Off-take
ECL	42.808	43.019
BCCL	34.813	34.854
CCL	60.933	60.934
NCL	83.491	83.491
WCL	39.492	39.497
SECL*	137.660	137.672
MCL	143.007	143.012
NEC	0.777	0.777
CIL	542.981	543.256
SCCL	60.791	60.805
Other Public	9.626	9.626
Total Public	613.398	613.687
Total Private	32.580	32.580
ALL INDIA	645.978	646.267

*Including Production from SECL (GP-IV/1) and (GP-IV/2&3) coal blocks.

4.1.4 Statement 4.3 shows despatch of washed coal and middlings in 2016-17 by different companies. It may be observed that share of public sector in washed was 84.4% and middling was 66.4%.

Statement 4.3 : Despatch of Washed Coal and Middlings in 2016-17 (MT)		
Company	Washed coal	Middlings
BCCL	1.181	1.089
CCL	9.562	1.359
NCL	3.155	
WCL	0.041	0.034
IISCO	0.730	0.523
RRVUNL	7.342	
Public	22.011	3.005
TISCO	3.339	1.520
CESC	0.744	
Private	4.083	1.520
Total	26.094	4.525

4.1.5 Statement 4.4 shows details on despatch and off-take of raw coal to different sectors of the industry in the country during 2016-17. It may be seen that out of total despatch to different sector, maximum share was of power utility 76.0% and power captive 6.8%. The share of steel, cement, sponge Iron etc. are shown in the statement.

Statement 4.4: Despatch of Raw Coal in India in 2016-17 to different sectors [MT]	
Sector	Despatch & Off-take [MT]
Power (Utility)	490.99
Power (Captive)	44.057
Steel	10.131
Cement	6.356
Sponge Iron	5.557
Fertilizers	2.135
Pulp & Paper	1.181
Other Basic Metal	5.038
Chemical	0.312
Textiles & Rayons	0.243
Steel Boiler	0.205
Bricks	0.099
Others	79.677
Total Despatch	645.978
Colliery Consumption	0.289
Total Off-take	646.267

4.1.6 Statement 4.5 shows that out of total despatch of lignite in 2016-17, share of despatch to power utility was 56.3% and power captive 33.7%.

Statement 4.5: Despatch of Lignite in India in 2016-17 to different sectors [MT]	
Sector	Despatch & Off-take [MT]
Power (Utility)	24.284
Power (Captive)	14.540
Steel Boiler	0.035
Cement	0.291
Sponge Iron	0.038
Pulp & Paper	0.526
Chemical	0.196
Textiles & Rayons	1.292
Bricks	0.415
Others	1.538
Total Despatch	43.155
Colliery Consumption	0
Total Off-take	43.155

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

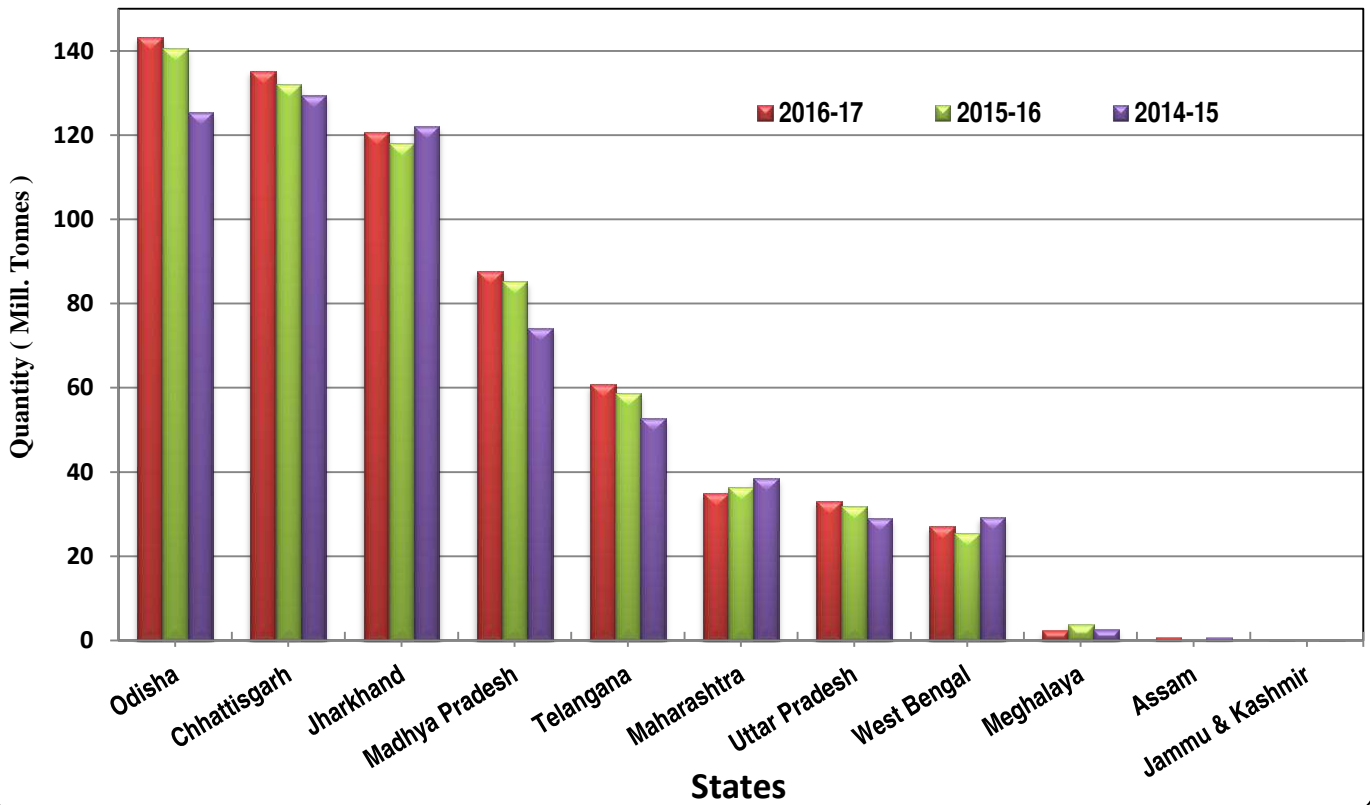


Chart IV.2 : Despatches of Raw Coal from different companies during last three years

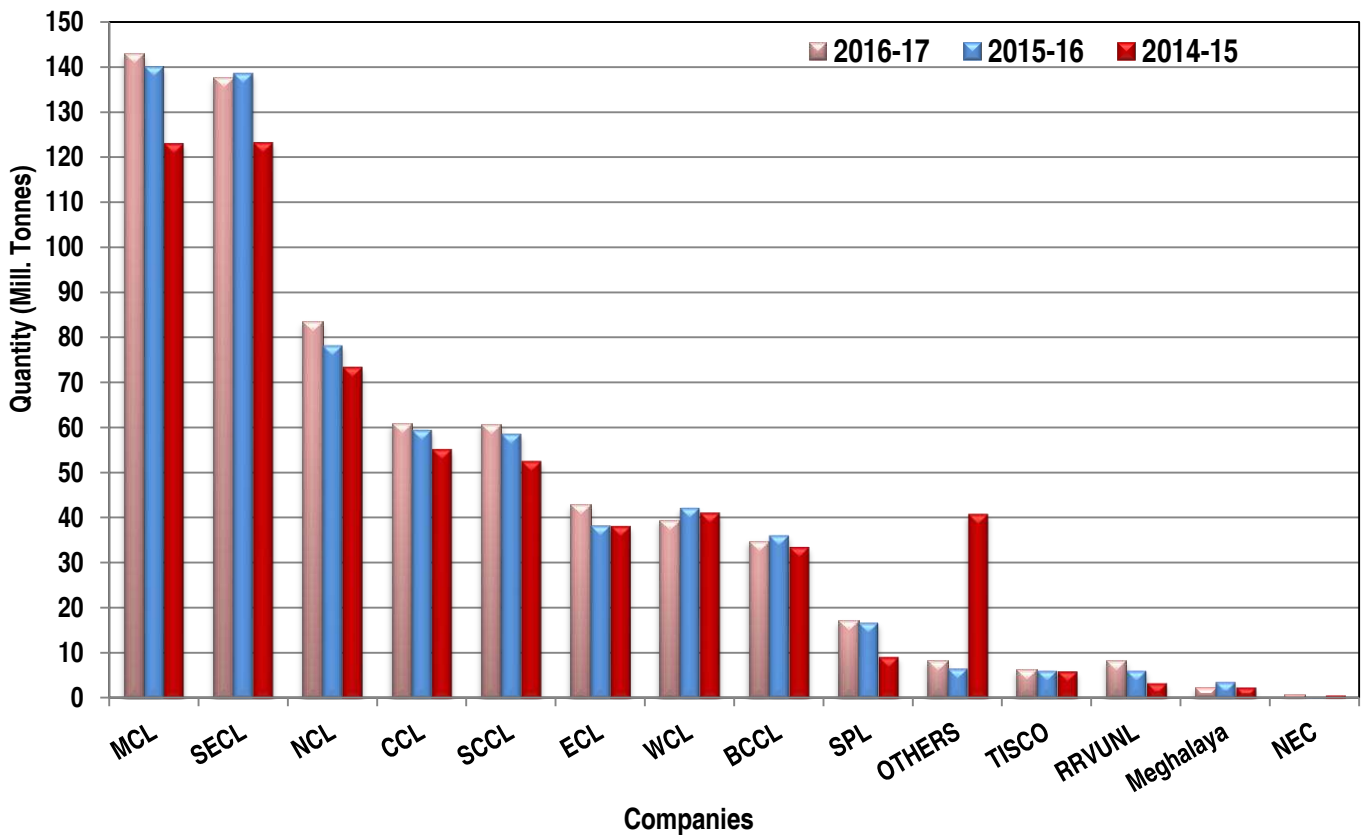


Chart IV.3: Sectorwise Despatches of Raw Coal from different companies in 2016-17

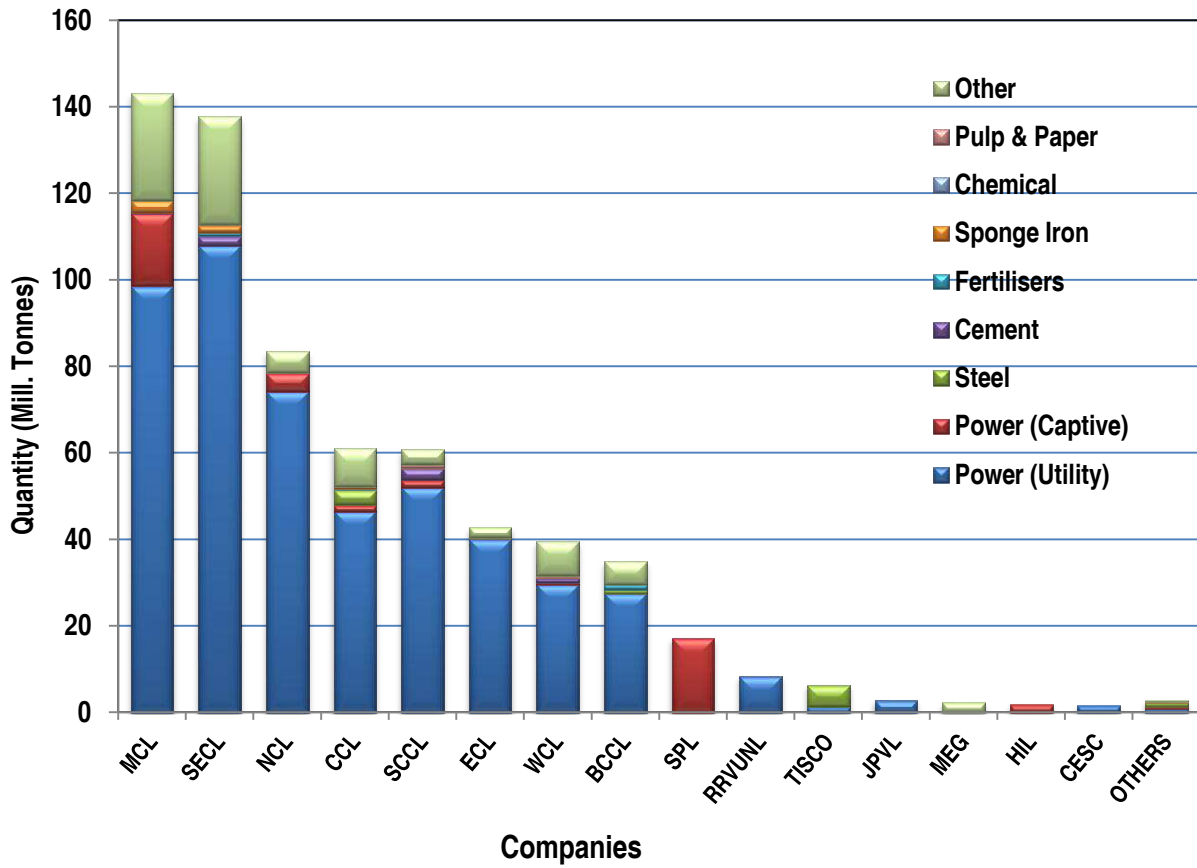


Chart IV.4: Grade Wise Raw Coal Despatched during 2016-17

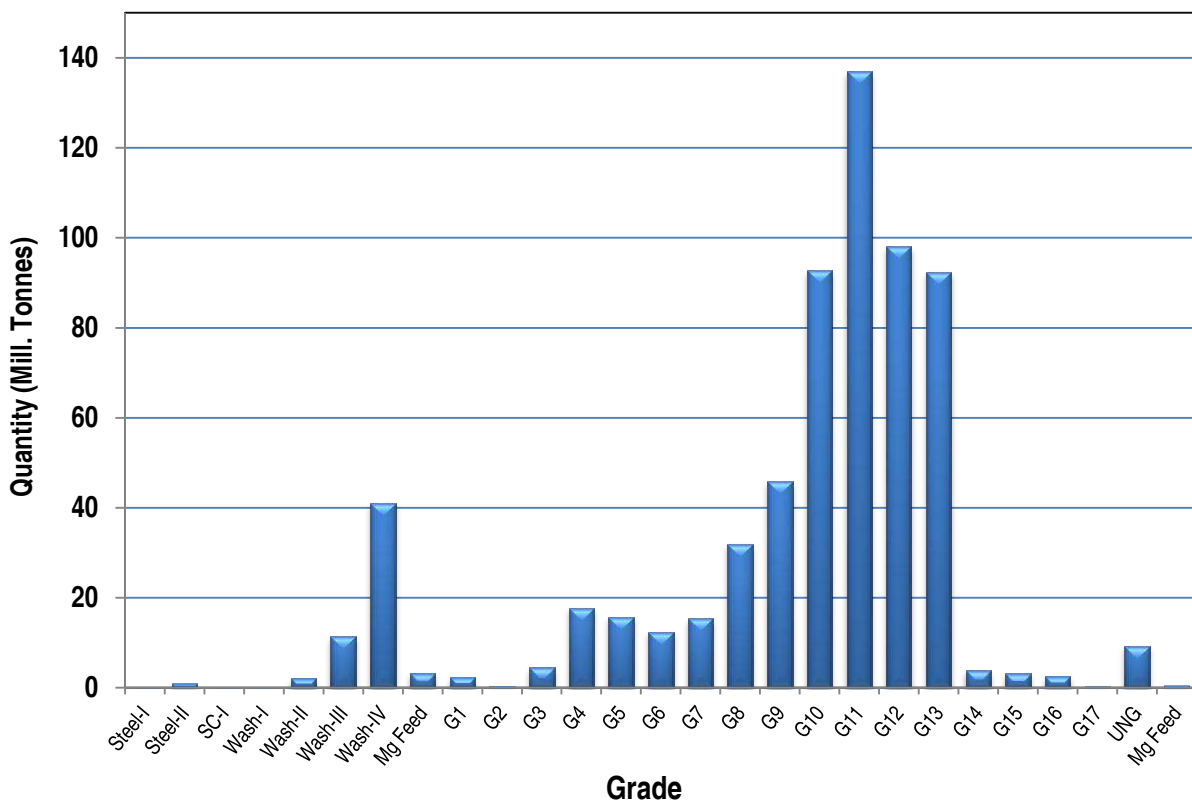


TABLE 4.1: TREND OF DESPATCHES OF DIFFERENT SOLID FOSSIL FUELS DURING LAST TEN YEARS

(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)
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
2016-17	645.978	93.74	2.14	43.155	6.26	2.24	689.133	2.15

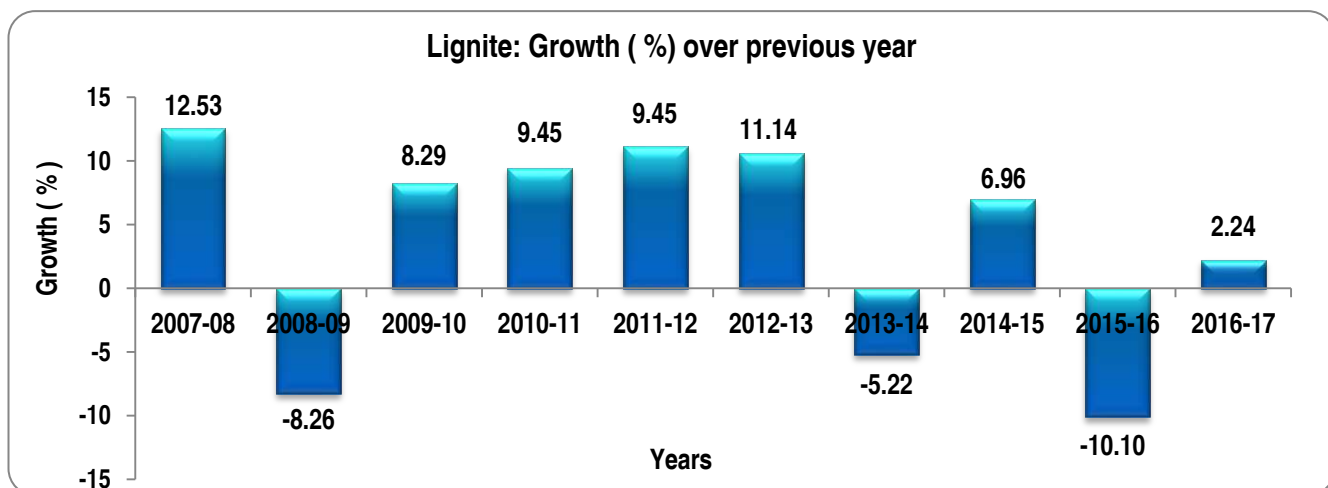
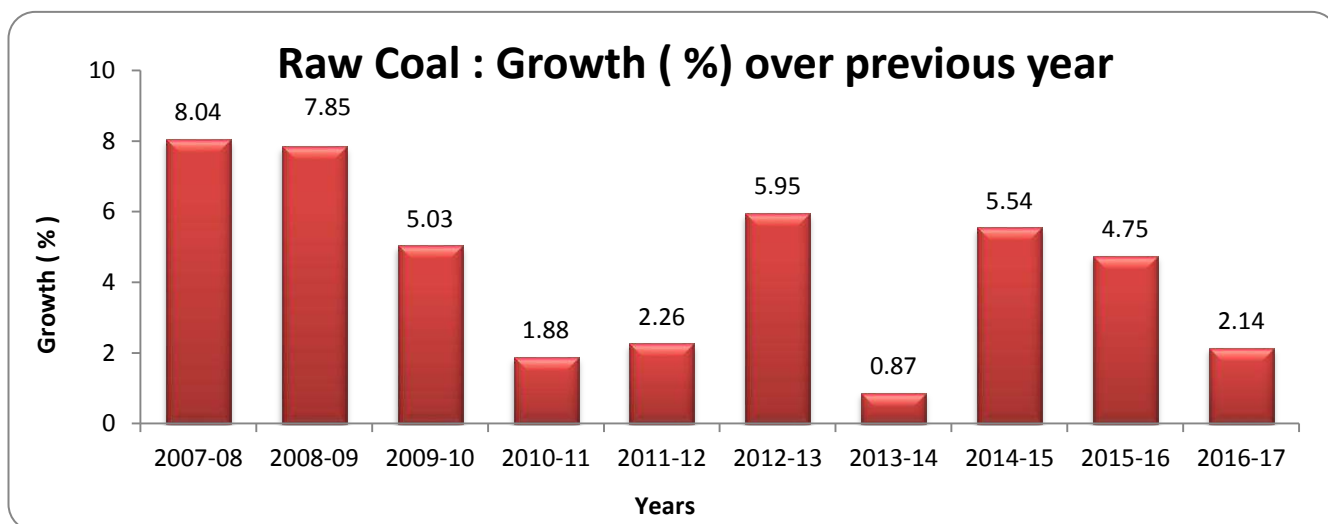


TABLE 4.2: TREND OF DESPATCHES OF DIFFERENT TYPES OF RAW COAL DURING LAST TEN YEARS
(Quantity in Million Tonnes)

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)
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
2016-17	14.039	23.67	1.25	45.269	76.33	-0.17	59.308	9.18	0.16	586.670	90.82	2.34	645.978	2.14

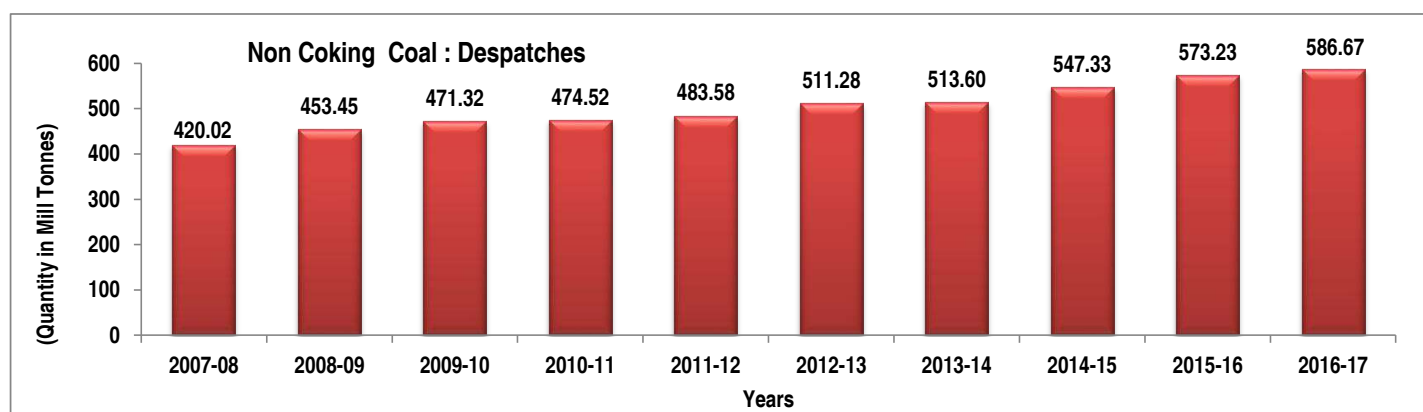
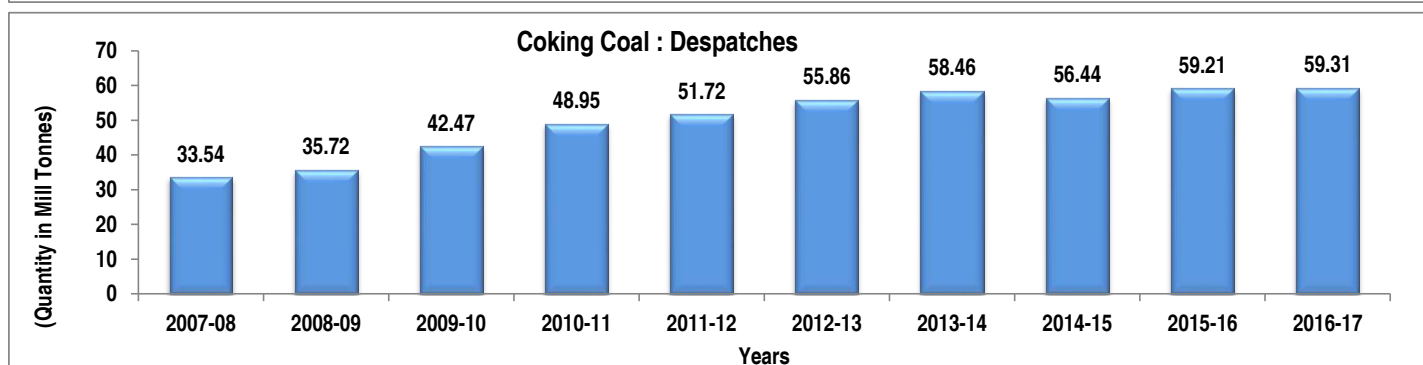
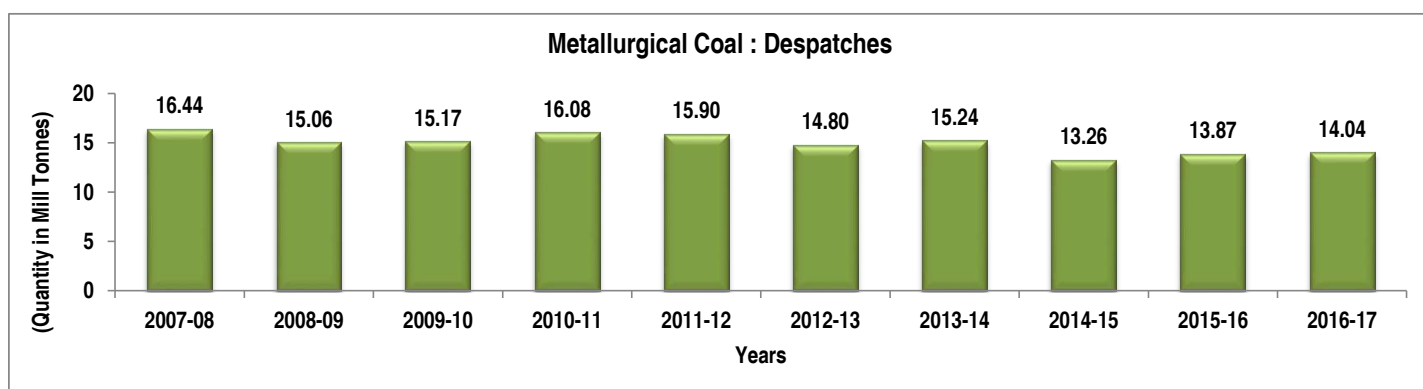
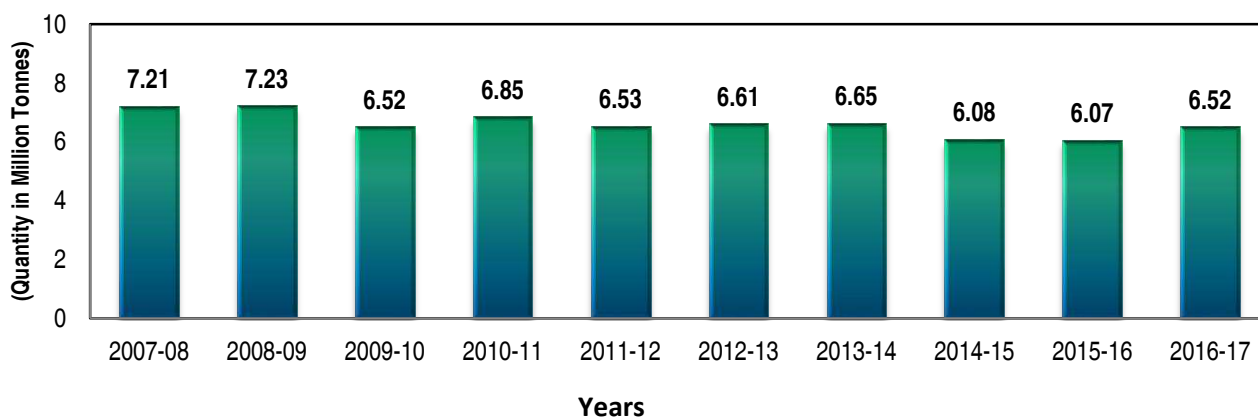


TABLE 4.3: TREND OF DESPATCHES OF DIFFERENT TYPES OF COAL PRODUCTS IN LAST TEN YEARS

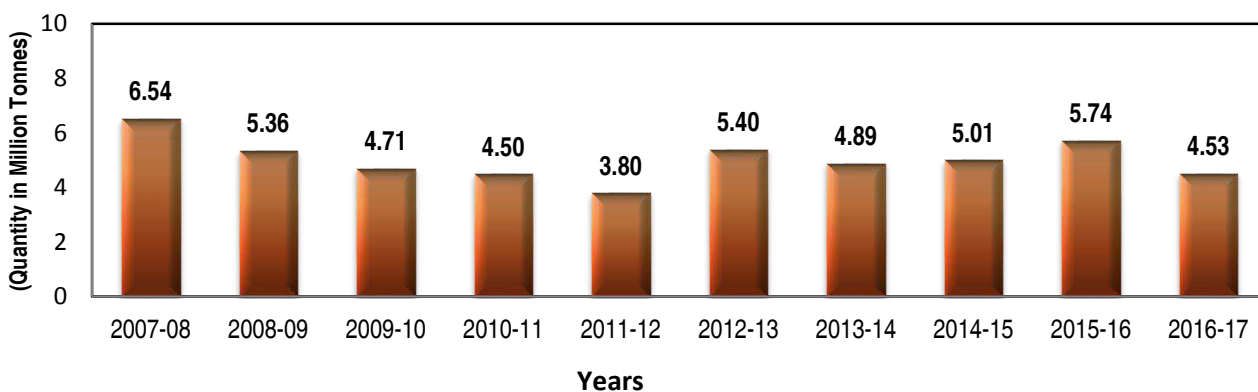
(Quantity in Million Tonnes)

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)
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	0.000	-	13.673	-2.01
2016-17	6.515	7.37	19.579	11.60	4.525	-21.10	0	-	12.554	-8.18

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)
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	1.3	100.0	573.229	11.6	100.0	632.442	10.6	100.0	42.211	-3.8	100.0
2016-17												
April - June	13.721	-3.9	23.1	144.650	4.8	24.7	158.371	4.0	24.5	11.192	-4.1	25.9
July - Sept.	13.228	-5.0	22.3	123.675	-5.9	21.1	136.903	-5.8	21.2	9.016	-6.9	20.9
Oct. - Dec.	15.498	4.2	26.1	154.630	3.6	26.4	170.128	3.6	26.3	10.590	17.3	24.5
Jan. - Mar.	16.861	4.5	28.4	163.715	6.0	27.9	180.576	5.8	28.0	12.357	4.5	28.6
TOTAL	59.308	0.2	100.0	586.670	2.3	100.0	645.978	2.1	100.0	43.155	2.2	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)
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	-8.7	100.0	17.544	13.5	100.0	5.735	17.2	100.0	0	-	-	13.673	7.6	100.0
2016-17															
April - June	1.406	-2.0	21.6	5.467	39.1	27.9	1.158	13.1	25.6	0	-	-	3.108	-11.2	24.8
July - Sept.	1.499	-0.1	23.0	3.710	-3.5	18.9	1.240	-21.1	27.4	0	-	-	3.106	-9.4	24.7
Oct. - Dec.	1.756	10.6	27.0	4.952	6.3	25.3	1.088	-29.8	24.0	0	-	-	3.185	-7.9	25.4
Jan. - Mar.	1.854	19.9	28.5	5.450	6.6	27.8	1.039	-34.7	23.0	0	-	-	3.155	-4.0	25.1
TOTAL	6.515	7.4	100.0	19.579	11.6	100.0	4.525	-21.1	100.0	0	-	-	12.554	-8.2	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 2016-17
(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-16	4.473	-7.6	7.54	46.479	1.9	7.92	50.952	0.9	7.89	3.855	-6.1	8.93
May-16	4.604	-6.2	7.76	49.533	4.7	8.44	54.137	3.7	8.38	3.926	-3.1	9.10
Jun-16	4.644	2.5	7.83	48.638	7.9	8.29	53.282	7.4	8.25	3.411	-3.0	7.90
1st Quarter	13.721	-3.9	23.14	144.650	4.8	24.66	158.371	4.0	24.52	11.192	-4.1	25.93
Jul-16	4.745	5.0	8.00	43.684	-1.4	7.45	48.429	-0.8	7.50	3.107	-4.4	7.20
Aug-16	4.375	-6.5	7.38	39.633	-9.2	6.76	44.008	-9.0	6.81	2.857	-12.5	6.62
Sep-16	4.108	-13.1	6.93	40.358	-7.1	6.88	44.466	-7.7	6.88	3.052	-3.6	7.07
2nd Quarter	13.228	-5.0	22.30	123.675	-5.9	21.08	136.903	-5.8	21.19	9.016	-6.9	20.89
Oct-16	4.695	-3.1	7.92	46.490	-3.1	7.92	51.185	-3.1	7.92	3.356	3.8	7.78
Nov-16	5.223	7.1	8.81	52.179	5.3	8.89	57.402	5.5	8.89	3.484	35.0	8.07
Dec-16	5.580	8.3	9.41	55.961	8.1	9.54	61.541	8.1	9.53	3.750	16.6	8.69
3rd Quarter	15.498	4.2	26.13	154.630	3.6	26.36	170.128	3.6	26.34	10.590	17.3	24.54
Jan-17	5.927	13.7	9.99	54.853	4.4	9.35	60.780	5.2	9.41	4.251	6.8	9.85
Feb-17	5.154	-1.1	8.69	51.897	6.6	8.85	57.051	5.9	8.83	3.870	5.3	8.97
Mar-17	5.780	1.3	9.75	56.965	6.9	9.71	62.745	6.3	9.71	4.236	1.7	9.82
4th Quarter	16.861	4.5	28.43	163.715	6.0	27.91	180.576	5.8	27.95	12.357	4.5	28.63
Yr. 2016-17	59.308	0.2	100.00	586.670	14.2	100.00	645.978	7.0	100.00	43.155	-8.1	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 2016-17
(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-16	0.477	0.4	7.32	1.742	30.9	8.90	0.403	24.0	8.91	0	-	-	1.014	-13.6	8.08
May-16	0.461	-10.5	7.08	1.771	32.9	9.05	0.331	-12.0	7.31	0	-	-	1.060	-8.4	8.44
Jun-16	0.468	5.4	7.18	1.954	54.3	9.98	0.424	31.3	9.37	0	-	-	1.034	-11.5	8.24
1st Quarter	1.406	-2.0	21.58	5.467	39.1	27.92	1.158	13.1	25.59	0	-	-	3.108	-11.2	24.76
Jul-16	0.466	-11.9	7.15	1.518	29.0	7.75	0.453	-11.7	10.01	0	-	-	1.049	-11.9	8.36
Aug-16	0.525	6.7	8.06	1.089	-12.1	5.56	0.370	-23.6	8.18	0	-	-	1.049	-7.5	8.36
Sep-16	0.508	6.1	7.80	1.103	-22.8	5.63	0.417	-27.4	9.22	0	-	-	1.008	-8.7	8.03
2nd Quarter	1.499	-0.1	23.01	3.710	-3.5	18.95	1.240	-21.1	27.40	0	-	-	3.106	-9.4	24.74
Oct-16	0.531	6.6	8.15	1.501	7.7	7.67	0.349	-36.7	7.71	0	-	-	1.087	-7.0	8.66
Nov-16	0.573	2.7	8.80	1.803	11.5	9.21	0.393	-14.0	8.69	0	-	-	1.028	-10.8	8.19
Dec-16	0.652	22.6	10.01	1.648	0.1	8.42	0.346	-36.2	7.65	0	-	-	1.070	-5.9	8.52
3rd Quarter	1.756	10.6	26.95	4.952	6.3	25.29	1.088	-29.8	24.04	0	-	-	3.185	-7.9	25.37
Jan-17	0.602	7.7	9.24	1.751	-2.7	8.94	0.316	-48.5	6.98	0	-	-	1.107	2.5	8.82
Feb-17	0.594	23.0	9.12	1.712	8.4	8.74	0.319	-29.0	7.05	0	-	-	0.966	-8.3	7.69
Mar-17	0.658	30.6	10.10	1.987	14.8	10.15	0.404	-23.3	8.93	0	-	-	1.082	-6.2	8.62
4th Quarter	1.854	19.9	28.46	5.450	6.6	27.84	1.039	-34.7	22.96	0	-	-	3.155	-4.0	25.13
Yr. 2016-17	6.515	7.2	100.00	19.579	15.2	100.00	4.525	-9.7	100.00	0	-	-	12.554	-10.0	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)
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
2016-17	0	-	-	0.777	0.12	127.19	135.268	20.94	2.44

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)
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
2016-17	0.011	0.00	-8.33	120.739	18.69	2.26	87.743	13.58	2.98

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)
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
2016-17	34.954	5.41	-4.09	2.308	0.36	-60.83	143.287	22.18	1.88

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)
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
2016-17	60.791	9.41	3.59	33.006	5.11	13.73	27.094	4.19	-7.23

Year	All India	
	Quantity	Growth(%)
(41)	(42)	(43)
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
2016-17	645.978	2.14

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)
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	24.165	56.00	0.32	10.545	24.44	-14.70
2016-17	22.493	53.29	-6.92	10.135	24.01	-3.89

Year	State: Rajasthan			ALL INDIA	
	Quantity	Share (%)	Growth (%)	Quantity	Growth (%)
(8)	(9)	(10)	(11)	(12)	(13)
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	8.445	19.57	-19.60	43.155	-8.09
2016-17	9.583	22.70	13.48	42.211	-2.19

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)
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	24.165	56.00	0.32	10.545	24.44	-14.70
2016-17	22.493	53.29	-6.92	10.135	24.01	-3.89

Year	State: Rajasthan			ALL INDIA	
	Quantity	Share (%)	Growth (%)	Quantity	Growth (%)
(8)	(9)	(10)	(11)	(12)	(13)
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	8.445	19.57	-19.60	43.155	-8.09
2016-17	9.583	22.70	13.48	42.211	-2.19

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

(Quantity in Million Tonnes)

Company	2014-15			2015-16			2016-17		
	Coking	N-Coking	Total	Coking	N-Coking	Total	Coking	N-Coking	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
ECL	0.036	38.184	38.220	0.017	38.362	38.379	0.029	42.779	42.808
BCCL	30.093	3.514	33.607	32.914	3.250	36.164	31.080	3.733	34.813
CCL	19.359	35.978	55.337	18.799	40.783	59.582	21.038	39.895	60.933
NCL	0.000	73.518	73.518	0.000	78.362	78.362	0.000	83.491	83.491
WCL	0.232	41.008	41.240	0.200	42.106	42.306	0.115	39.377	39.492
SECL	0.125	123.084	123.209	0.108	136.474	136.582	0.015	133.527	133.542
SECL(GP-IV/2&3)					2.152	2.152		3.464	3.464
SECL(GP-1)						0.000		0.654	0.654
MCL		122.996	122.996		140.214	140.214		143.007	143.007
NEC		0.733	0.733		0.342	0.342		0.777	0.777
CIL	49.845	439.015	488.860	52.038	482.045	534.083	52.277	490.704	542.981
SCCL		52.662	52.662		58.687	58.687		60.791	60.791
JKML		0.013	0.013		0.012	0.012		0.011	0.011
JSMDCL		0.408	0.408		0.197	0.197		0.297	0.297
DVC		0.055	0.055	0.392		0.392	0.180		0.180
IISCO	0.420	0.199	0.619	0.558	0.167	0.725	0.540	0.231	0.771
SAIL	0.024	0.001	0.025			0.000			0.000
RRVUNL		3.443	3.443		6.210	6.210		8.267	8.267
NTPC								0.100	0.100
APMDTCL		0.000	0.000						
DVCEMTA		1.006	1.006						
WBPDCL		6.248	6.248						
PSEB-PANEM		3.454	3.454						
KECML		2.413	2.413						
WBMDTCL		1.111	1.111						
MPSMCL		1.505	1.505						
Total Public	50.289	511.533	561.822	52.988	547.318	600.306	52.997	560.401	613.398
TISCO	6.037	0.024	6.061	6.225	0.008	6.233	6.311	0.000	6.311
MEGHALAYA		2.524	2.524		3.712	3.712		2.308	2.308
HIL		2.386	2.386		0.012	0.012		0.000	0.000
HIL_GP_IV/4								0.859	0.859
HIL_GP_IV/5								0.906	0.906
SPL		9.261	9.261		16.842	16.842		17.101	17.101
SIL		0.196	0.196		0.163	0.163		0.156	0.156
CESC					1.874	1.874		1.620	1.620
GMR					0.425	0.425		0.280	0.280
BALCO					0.079	0.079		0.221	0.221
JPVL					2.796	2.796		2.803	2.803
RCCPL								0.015	0.015
ICML		3.771	3.771						
JSPL		5.989	5.989						
MIEL		1.022	1.022						
BLA		0.300	0.300						
PIL		1.000	1.000						
JNL		0.777	0.777						
JPL		5.726	5.726						
ESCL	0.112	0.021	0.133						
UML		0.794	0.794						
SEML		1.266	1.266						
BSIL		0.136	0.136						
TUML-SVSL		0.208	0.208						
SOVA		0.400	0.400						
Total Private	6.149	35.801	41.950	6.225	25.911	32.136	6.311	26.269	32.580
ALL INDIA	56.438	547.334	603.772	59.213	573.229	632.442	59.308	586.670	645.978
LIGNITE :									
NLC			25.441			23.717			25.578
GMDCL			8.713			6.968			7.652
GIPCL			3.456			3.063			2.816
RSMML			1.405			0.972			0.549
GHCL			0.193			0.104			0.077
VSLPPL			0.823			0.824			0.476
BLMCL			6.923			6.563			6.007
ALL INDIA			46.954			42.211			43.155
COAL & LIGNITE			650.726			674.653			689.133

**TABLE 4.9 : DESPATCHES OF RAW COAL AND COAL PRODUCTS (Washed Coal and Middlings)
BY COMPANIES IN 2016-17**

(Quantity in Million Tonnes)

Company	Raw Coal		Washed Coal		Middlings	
	Despatches	Offtake	Despatches	Offtake	Despatches	Offtake
(1)	(2)	(3)	(4)	(5)	(6)	(7)
ECL	42.808	43.019				
BCCL	34.813	34.854	1.181	1.181	1.089	1.089
CCL	60.933	60.934	9.562	9.562	1.359	1.359
NCL	83.491	83.491	3.155	3.155		
WCL	39.492	39.497	0.041	0.041	0.034	0.034
SECL	133.542	133.554				
SECL(GP-IV/2&3)	3.464	3.464				
SECL(GP-1)	0.654	0.654				
MCL	143.007	143.012				
NEC	0.777	0.777				
CIL	542.981	543.256	13.939	13.939	2.482	2.482
SCCL	60.791	60.805				
JKML	0.011	0.011				
DVC	0.180	0.180				
IISCO	0.771	0.771	0.730	0.730	0.523	0.523
SAIL	0.000	0.000				
JSMDCL	0.297	0.297				
RRVUNL	8.267	8.267	7.342	7.342		
NTPC	0.100	0.100				
PUBLIC	613.398	613.687	22.011	22.011	3.005	3.005
TISCO	6.311	6.311	3.339	3.339	1.520	1.520
MEGHALAYA	2.308	2.308				
HIL	0.000	0.000				
HIL_GP_IV/4	0.859	0.859				
HIL_GP_IV/5	0.906	0.906				
SPL	17.101	17.101				
SIL	0.156	0.156				
CESC	1.620	1.620	0.744	0.744		
GMR	0.280	0.280				
BALCO	0.221	0.221				
JPVL	2.803	2.803				
RCCPL	0.015	0.015				
PRIVATE	32.580	32.580	4.083	4.083	1.520	1.520
ALL INDIA	645.978	646.267	26.094	26.094	4.525	4.525

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
2014-15	BCCL					
	CCL					
	WCL					
	DCC		9	7	30	55
	SAIL	8720				
	RINL	2355				
	TISCO	2879				
	TOTAL		13954	9	7	30
2015-16	BCCL					
	CCL					
	WCL					
	DCC		3	2	20	8
	SAIL	8494				
	RINL	2480				
	TISCO	2699				
	TOTAL		13673	3	2	20
2016-17	BCCL					
	CCL					
	WCL					
	DCC		1	1	11	21
	SAIL	7401				
	RINL	2559				
	TISCO	2594				
	TOTAL		12554	1	1	11

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

(Quantity in Million Tonnes)

States	Company	2014-15			2015-16			2016-17		
		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		0.733	0.733		0.342	0.342		0.777	0.777
Chhattisgarh	SECL	0.125	110.044	110.169	0.108	123.479	123.587	0.015	120.882	120.897
Chhattisgarh	SECL(GP-IV/2&3)					2.152	2.152		3.464	3.464
Chhattisgarh	SECL(GP-1)						0.000		0.654	0.654
Chhattisgarh	RRVUNL		3.443	3.443		6.210	6.210		8.267	8.267
Chhattisgarh	HIL_GP_IV/4					0.012	0.012		0.859	0.859
Chhattisgarh	HIL_GP_IV/5								0.906	0.906
Chhattisgarh	BALCO					0.079	0.079		0.221	0.221
Chhattisgarh	JSPL		5.989	5.989						
Chhattisgarh	MIEL		1.022	1.022						
Chhattisgarh	PIL		1.000	1.000						
Chhattisgarh	JNL		0.777	0.777						
Chhattisgarh	JPL		5.726	5.726						
Chhattisgarh	SEML		1.266	1.266						
Chhattisgarh	TOTAL	0.125	129.267	129.392	0.108	131.932	132.040	0.015	135.253	135.268
Jammu & Kashmir	JKML		0.013	0.013		0.012	0.012		0.011	0.011
Jharkhand	ECL	0.029	18.646	18.675	0.017	17.450	17.467	0.026	19.504	19.530
Jharkhand	BCCL	29.551	3.124	32.675	30.908	2.721	33.629	29.383	3.439	32.822
Jharkhand	CCL	19.359	35.978	55.337	18.799	40.783	59.582	21.038	39.895	60.933
Jharkhand	JSMDCCL		0.408	0.408		0.197	0.197		0.297	0.297
Jharkhand	DVC		0.055	0.055	0.392		0.392	0.180		0.180
Jharkhand	IISCO	0.420		0.420	0.558	0.014	0.572	0.540	0.026	0.566
Jharkhand	SAIL	0.024	0.001	0.025			0.000			0.000
Jharkhand	NTPC								0.100	0.100
Jharkhand	TISCO	6.037	0.024	6.061	6.225	0.008	6.233	6.311		6.311
Jharkhand	PSEB-PANEM		3.454	3.454						
Jharkhand	UML		0.794	0.794						
Jharkhand	WBPDCCL		4.007	4.007						
Jharkhand	ESCL	0.112	0.021	0.133						
Jharkhand	GVK			0.000						
Jharkhand	TOTAL	55.532	66.512	122.044	56.899	61.173	118.072	57.478	63.261	120.739
Madhya Pradesh	NCL		44.497	44.497		46.547	46.547		50.485	50.485
Madhya Pradesh	WCL	0.232	5.408	5.640	0.200	5.825	6.025	0.115	4.579	4.694
Madhya Pradesh	SECL		13.040	13.040		12.995	12.995		12.645	12.645
Madhya Pradesh	SPL		9.261	9.261		16.842	16.842		17.101	17.101
Madhya Pradesh	JPVL					2.796	2.796		2.803	2.803
Madhya Pradesh	MPSMCL		1.505	1.505						
Madhya Pradesh	RCCPL								0.015	0.015
Madhya Pradesh	BLA		0.300	0.300						
Madhya Pradesh	TOTAL	0.232	74.011	74.243	0.200	85.005	85.205	0.115	87.628	87.743
Maharashtra	WCL		35.600	35.600		36.281	36.281		34.798	34.798
Maharashtra	SIL		0.196	0.196		0.163	0.163		0.156	0.156
Maharashtra	KECML		2.413	2.413						
Maharashtra	BSIL		0.136	0.136						
Maharashtra	TUML-SVSL		0.208	0.208						
Maharashtra	TOTAL	0.000	38.553	38.553	0.000	36.444	36.444	0.000	34.954	34.954
Meghalaya	MEGHALAYA		2.524	2.524		3.712	3.712		2.308	2.308
Odisha	MCL		122.996	122.996		140.214	140.214		143.007	143.007
Odisha	GMR					0.425	0.425		0.280	0.280
Odisha	HIL		2.386	2.386						
Odisha	TOTAL		125.382	125.382		140.639	140.639		143.287	143.287
Telangana	SCCL		52.662	52.662		58.687	58.687		60.791	60.791
Uttar Pradesh	NCL		29.021	29.021		31.815	31.815		33.006	33.006
West Bengal	ECL	0.007	19.538	19.545		20.912	20.912	0.003	23.275	23.278
West Bengal	BCCL	0.542	0.390	0.932	2.006	0.529	2.535	1.697	0.294	1.991
West Bengal	IISCO		0.199	0.199		0.153	0.153		0.205	0.205
West Bengal	CESC					1.874	1.874		1.620	1.620
West Bengal	WBPDCCL		2.241	2.241						
West Bengal	ICML		3.771	3.771						
West Bengal	DVCEMTA		1.006	1.006						
West Bengal	WBMDTCL		1.111	1.111						
West Bengal	SOVA		0.400	0.400						
West Bengal	TOTAL	0.549	28.656	29.205	2.006	23.468	25.474	1.700	25.394	27.094
Total Public		50.289	511.533	561.822	52.988	547.318	600.306	52.997	560.401	613.398
Total Private		6.149	35.801	41.950	6.225	25.911	32.136	6.311	26.269	32.580
All India		56.438	547.334	603.772	59.213	573.229	632.442	59.308	586.670	645.978

TABLE 4.12: GRADEWISE DESPATCHES OF COKING COAL BY COMPANIES DURING 2016-17
(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			0.003			0.026				0.003	0.026	0.029
BCCL	0.014	0.952		0.166	1.911	8.334	19.703			3.409	27.671	31.080
CCL		0.017			0.079	1.724	15.908	3.310		3.735	17.303	21.038
NCL												0.000
WCL					0.115					0.041	0.074	0.115
SECL			0.015								0.015	0.015
SECL (GP-IV/2&3)												0.000
SECL(GP-1)												0.000
MCL												0.000
NEC												0.000
CIL	0.014	0.969	0.018	0.166	2.105	10.084	35.611	3.310	0.000	7.188	45.089	52.277
SCCL												0.000
JKML												0.000
JSMDCCL												0.000
DVC							0.180				0.180	0.180
IISCO						0.085	0.455			0.540		0.540
SAIL												0.000
RRVUNL												0.000
NTPC												0.000
Total Public	0.014	0.969	0.018	0.166	2.105	10.169	36.246	3.310	0.000	7.728	45.269	52.997
TISCO					0.116	1.335	4.860			6.311	0.000	6.311
Meghalaya												0.000
SIL												0.000
HIL												0.000
SPL												0.000
GMR												0.000
BALCO												0.000
JPVL												0.000
RCCPL												0.000
CESC												0.000
Total Private	0.000	0.000	0.000	0.000	0.116	1.335	4.860	0.000	0.000	6.311	0.000	6.311
ALL INDIA	0.014	0.969	0.018	0.166	2.221	11.504	41.106	3.310	0.000	14.039	45.269	59.308

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 2016-17
(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	mgfeed	UNG	-20		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	-19	-20	-21	-22	
ECL			1.365	14.341	6.133	1.485	2.049	0.621													42.779	42.808
BCCL			0.880	0.089	0.028	1.087	0.570	0.008	1.054		0.017										3.733	34.813
CCL			0.002	0.154	1.161	0.421	0.567	1.565	5.484	13.694	3.228	4.315						9.304			39.895	60.933
NCL				0.002	0.588	0.231	0.189	12.881	12.904	38.760	9.147	5.983	2.406	0.287	0.073	0.038	0.002				83.491	83.491
WCL				0.016	0.207	1.026	2.210	9.346	15.844	7.428	3.300										39.377	39.492
SECL			2.272	2.817	7.045	8.113	4.295	1.062	0.567	2.043	95.778	4.016	2.868	2.331		0.320					133.527	133.542
SECL (GP-IV/2&3)												0.095		1.085		2.284					3.464	3.464
SECL(GP-1)												0.424			0.230						0.654	0.654
MCL					0.003		0.094		0.433	0.525	3.076	82.430	56.446								143.007	143.007
NEC	0.117	0.396		0.264																	0.777	0.777
CIL	0.117	0.396	4.519	17.683	15.165	12.363	9.974	25.483	36.286	62.450	114.546	97.263	78.505	3.703	0.303	2.642	0.002	9.304	0.000	490.704	542.981	
SCCL					0.566		5.486	5.766	9.283	13.939	8.495	0.107	13.504		2.825		0.307		0.513		60.791	60.791
JKML																	0.011				0.011	0.011
JSMDC												0.297									0.297	0.297
DVC																					0.000	0.180
IISCO				0.105		0.100													0.026		0.231	0.771
SAIL																					0.000	0.000
RRVUNL											8.267										8.267	8.267
NTPC									0.100												0.100	0.100
Total Public	0.117	0.396	4.519	17.788	15.731	12.463	15.460	31.249	45.669	76.389	131.308	97.667	92.009	3.703	3.128	2.642	0.320	9.304	0.539	560.401	613.398	
TISCO																					0.000	6.311
Meghalaya	2.308																				2.308	2.308
SIL								0.156													0.156	0.156
HIL								0.532		0.161	0.384	0.374	0.314								1.765	1.765
SPL										16.180	0.921										17.101	17.101
GMR														0.082	0.198						0.280	0.280
BALCO									0.221												0.221	0.221
JPVL											2.803										2.803	2.803
RCCPL								0.015													0.015	0.015
CESC											1.620										1.620	1.620
Total Private	2.308	0.000	0.000	0.000	0.000	0.000	0.000	0.703	0.221	16.341	5.728	0.374	0.396	0.198	0.000	0.000	0.000	0.000	0.000	26.269	32.580	
ALL INDIA	2.425	0.396	4.519	17.788	15.731	12.463	15.460	31.952	45.890	92.730	137.036	98.041	92.405	3.901	3.128	2.642	0.320	9.304	0.539	586.670	645.978	

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 2016-17

(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				0.014								0.014
Steel-II				0.969								0.969
SC-I		0.015									0.003	0.018
Wash-I				0.166								0.166
Wash-II				1.964	0.115						0.142	2.221
Wash-III				9.949							1.555	11.504
Wash-IV				41.106								41.106
Mg Feed				3.310								3.310
SLV1												0.000
Met.Coal				13.995	0.041						0.003	14.039
Non Met	0.000	0.000	0.000	43.483	0.074	0.000	0.000	0.000	0.000	0.000	1.697	45.269
Tot Ckg.	0.000	0.015	0.000	57.478	0.115	0.000	0.000	0.000	0.000	0.000	1.700	59.308
G1	0.117						2.308					2.425
G2	0.396											0.396
G3		1.482		1.194	0.790						1.053	4.519
G4	0.264	1.921		0.243	0.912					0.002	14.446	17.788
G5		5.233		2.072	2.299	0.092		0.003	0.566	0.216	5.250	15.731
G6		1.961		2.118	7.008	0.316				0.085	0.975	12.463
G7		1.300		1.495	4.669	0.656		0.094	5.486	0.069	1.691	15.460
G8		1.594		1.835	9.018	8.657		0.000	5.766	4.723	0.359	31.952
G9		0.788		6.638	9.511	14.505		0.433	9.283	4.732		45.890
G10		2.204		13.694	38.338	7.428		0.525	13.939	16.602		92.730
G11		104.429		3.245	9.517	3.300		3.076	8.495	3.354	1.620	137.036
G12		4.909		4.612	3.789			82.430	0.107	2.194		98.041
G13		3.182		16.785	1.524			56.528	13.504	0.882		92.405
G14		3.416			0.182			0.198		0.105		3.901
G15		0.230			0.046				2.825	0.027		3.128
G16		2.604			0.024					0.014		2.642
G17			0.011		0.001				0.307	0.001		0.320
UNG				0.026					0.513			0.539
Mg Feed				9.304								9.304
Tot. Nckg	0.777	135.253	0.011	63.261	87.628	34.954	2.308	143.287	60.791	33.006	25.394	586.670
Total Coal	0.777	135.268	0.011	120.739	87.743	34.954	2.308	143.287	60.791	33.006	27.094	645.978

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	2007-08	2008-09	2009-10	2010-11	2011-12	New Grade	2012-13	2013-14	2014-15	2015-16	2016-17	
(1)	(2)	(3)	(4)	(5)	(6)	(7)		(8)	(9)	(10)	(11)	(12)	
COKING COAL	Steel-I	0.089	0.064	0.091	0.224	0.092	Steel-I	0.075	0.071	0.052	0.029	0.014	
	Steel-II	0.280	0.871	1.057	1.226	1.271	Steel-II	1.671	0.898	0.327	1.035	0.969	
	SC-1	0.178	0.171	0.158	0.170	0.204	SC-1	0.166	0.130	0.132	0.108	0.018	
	Wash-I	0.462	0.309	0.291	0.193	0.185	Wash-I	0.297	0.190	0.102	0.198	0.166	
	Wash-II	2.106	2.551	1.756	1.601	1.816	Wash-II	1.812	1.921	1.693	2.016	2.221	
	Wash-III	7.212	7.841	9.114	10.432	13.730	Wash-III	13.335	13.582	12.177	13.155	11.504	
	Wash-IV	23.014	23.865	30.000	35.081	34.425	Wash-IV	38.500	41.563	41.955	38.860	41.106	
	Mg Feed						Mg Feed					3.812	3.310
	SLV1	0.202	0.052	0.002	0.023	0.000	SLV1	0.003	0.109				0.000
	Met.Coal	16.438	15.061	15.144	16.075	15.903	Met.Coal	14.730	15.236	13.494	13.866	14.039	
	Non Met	17.105	20.663	27.325	32.875	35.820	Non Met	41.129	43.228	42.944	45.347	45.269	
	Total Coking		33.543	35.724	42.469	48.950	51.723		55.859	58.464	56.438	59.213	59.308
NON - COKING COAL	A	4.650	4.023	10.266	11.772	14.678	G1	5.864	6.130	2.772	3.766	2.425	
	B	24.717	26.024	27.689	25.648	60.175	G2	0.522	0.264	0.621	0.323	0.396	
	C	53.177	46.101	53.242	54.760	28.050	G3	4.985	4.747	4.698	4.252	4.519	
	D	47.928	53.338	52.679	49.524	51.887	G4	19.14	21.944	19.647	18.299	17.788	
	E	101.850	117.612	118.933	117.677	106.834	G5	17.431	16.537	16.296	15.457	15.731	
	F	174.411	191.143	205.325	207.576	197.845	G6	20.787	16.314	20.186	11.348	12.463	
	SLV	6.375	8.833	2.712			G7	35.934	36.620	38.705	39.978	15.460	
	G		0.437		6.075	13.386	G8	27.198	31.275	29.283	27.671	31.952	
							G9	71.963	54.287	50.547	49.721	45.890	
							G10	64.307	64.193	76.369	90.982	92.730	
							G11	110.285	119.125	137.861	139.256	137.036	
							G12	57.847	76.740	82.302	95.594	98.041	
							G13	62.881	50.900	55.655	69.746	92.405	
							G14	3.079	4.112	4.205	2.818	3.901	
							G15	3.177	3.359	3.446	2.837	3.128	
							G16	1.476	2.480	1.579	0.000	2.642	
							G17	4.401	4.523	3.141	0.643	0.320	
	Ungr	6.916	5.937	0.477	1.483	10.721	Ungr		0.046	0.021	0.538	0.539	
							Mg Feed						9.304
Total Non Coking		420.024	453.448	471.323	474.515	483.576		511.277	513.596	547.334	573.229	586.670	
TOTAL COAL		453.567	489.172	513.792	523.465	535.299		567.136	572.060	603.772	632.442	645.978	

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 2016-17
(Quantity in Million Tonnes)

Company	Raw Coal/ Coal Product	YEAR 2016-17 (External)							YEAR 2016-17 (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	29.155	1.465			12.188		42.808							0.000	42.808
BCCL	RC	25.407	7.000					32.407	0.848	1.558					2.406	34.813
BCCL	CP	2.270						2.270							0.000	2.270
CCL	RC	30.935	17.384					48.319		12.615					12.615	60.934
CCL	CP	10.916	0.005					10.921							0.000	10.921
NCL	RC	27.365	10.682	2.987		38.995		80.029		3.462					3.462	83.491
NCL	CP							0.000					3.155		3.155	3.155
WCL	RC	26.965	9.810	0.278	2.006	0.354		39.413		0.079					0.079	39.492
WCL	CP	0.075						0.075							0.000	0.075
SECL	RC	52.929	48.412	7.345		22.727	2.129	133.542							0.000	133.542
SECL(GP-IV/2&3)	RC		3.464					3.464							0.000	3.464
SECL(GP-IV/1)	RC		0.654					0.654							0.000	0.654
MCL	RC	90.776	38.210	1.411		12.610		143.007							0.000	143.007
NEC	RC	0.568	0.209					0.777							0.000	0.777
CIL	RC	284.100	137.290	12.021	2.006	86.874	2.129	524.420	0.848	17.714	0.000	0.000	0.000	0.000	18.562	542.982
CIL	CP	13.261	0.005	0.000	0.000	0.000	0.000	13.266	0.000	0.000	0.000	0.000	0.000	3.155	3.155	16.421
SCCL	RC	39.548	11.947		0.377	8.507	0.412	60.791							0.000	60.791
JKML	RC		0.011					0.011							0.000	0.011
DVC	RC		0.180					0.180							0.000	0.180
IISCO	RC		0.231					0.231		0.283	0.172	0.085			0.540	0.771
IISCO	CP	1.252					0.001	1.253							0.000	1.253
SAIL	RC							0.000							0.000	0.000
JSMDCL	RC		0.297					0.297							0.000	0.297
RRVUNL	RC							0.000		8.267					8.267	8.267
RRVUNL	CP		7.342					7.342							0.000	7.342
NTPC	RC		0.100					0.100							0.000	0.100
Public	RC	323.648	150.056	12.021	2.383	95.381	2.541	586.030	0.848	26.264	0.172	0.085	0.000	0.000	27.369	613.399
Public	CP	14.513	7.347	0.000	0.000	0.000	0.001	21.861	0.000	0.000	0.000	0.000	0.000	3.155	3.155	25.016
TISCO	RC							0.000		0.269	6.041				6.310	6.310
TISCO	CP	4.854	0.005					4.859							0.000	4.859
MEG	RC		2.308					2.308							0.000	2.308
CESC	RC							0.000		1.620					1.620	1.620
CESC	CP		0.744					0.744							0.000	0.744
HIL	RC		1.765					1.765							0.000	1.765
SPL	RC		17.101					17.101							0.000	17.101
GMR	RC		0.280					0.280							0.000	0.280
BALCO	RC		0.221					0.221							0.000	0.221
SIL	RC	0.156						0.156							0.000	0.156
JPVL	RC	2.803						2.803							0.000	2.803
RCCPL	RC		0.015					0.015							0.000	0.015
Private	RC	2.959	21.690	0.000	0.000	0.000	0.000	24.649	0.000	1.889	6.041	0.000	0.000	0.000	7.930	32.579
Private	CP	4.854	0.749	0.000	0.000	0.000	0.000	5.603	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.603
Grand Total	RC	326.607	171.746	12.021	2.383	95.381	2.541	610.679	0.848	28.153	6.213	0.085	0.000	0.000	35.299	645.978
Grand Total	CP	19.367	8.096	0.000	0.000	0.000	0.001	27.464	0.000	0.000	0.000	0.000	0.000	3.155	3.155	30.619

TABLE 4.16: COMPANYWISE OFF-TAKE OF RAW COAL TO DIFFERENT PRIORITY SECTORS (INCLUDING WASHERIES) DURING 2016-17

(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	40.121	0.045	0.148					0.050		0.048		0.004	0.014	0.004	0.015	2.359	42.808	0.211		43.019
BCCL	27.492			0.879					1.104							5.338	34.813	0.041		34.854
CCL	37.132	1.514	0.008	3.310	0.118	9.305			0.221	0.581		0.023	0.001			8.720	60.933	0.001		60.934
NCL	70.674	4.243				3.462		0.037		0.102	0.320					4.653	83.491			83.491
WCL	29.517	0.370	0.079		0.036			1.060		0.206		0.091	0.205	0.063		7.865	39.492	0.005		39.497
SECL	107.952		0.015					2.168	0.810	1.610	4.122		0.134	0.031		16.700	133.542	0.012		133.554
SECL(GP-IV/2&3)																3.464	3.464			3.464
SECL(GP-IV/1)																0.654	0.654			0.654
MCL	98.551	16.688						0.258		2.821	0.114		0.080			24.495	143.007	0.005		143.012
NEC	0.436	0.007						0.038			0.214		0.080		0.002		0.777			0.777
CIL	411.875	22.867	0.250	4.189	0.154	12.767	0.000	3.611	2.135	5.368	4.770	0.118	0.514	0.098	0.017	74.248	542.981	0.275	0.000	543.256
SCCL	50.496	1.772				1.416		2.703		0.102	0.218	0.194	0.667	0.145	0.002	3.076	60.791	0.014		60.805
JKML								0.002							0.008	0.001	0.011			0.011
DVC		0.180															0.180			0.180
IISCO				0.540			0.205									0.026	0.771			0.771
SAIL																	0.000			0.000
JSMDCL	0.150							0.025			0.050				0.072		0.297			0.297
RRVUNL						8.267											8.267			8.267
NTPC		0.100															0.100			0.100
PUBLIC	462.521	24.919	0.250	4.729	0.154	22.450	0.205	6.341	2.135	5.470	5.038	0.312	1.181	0.243	0.099	77.351	613.398	0.289	0.000	613.687
TISCO				4.998		1.313											6.311			6.311
MEG																2.308	2.308			2.308
CESC	1.620																1.620			1.620
HIL		1.765															1.765			1.765
SPL		17.101															17.101			17.101
GMR	0.280																0.280			0.280
BALCO		0.221															0.221			0.221
SIL		0.051								0.087						0.018	0.156			0.156
JPVL	2.803																2.803			2.803
RCCPL								0.015									0.015			0.015
Private	4.703	19.138	0.000	4.998	0.000	1.313	0.000	0.015	0.000	0.087	0.000	0.000	0.000	0.000	0.000	2.326	32.580	0.000	0.000	32.580
Grand Total	467.224	44.057	0.250	9.727	0.154	23.763	0.205	6.356	2.135	5.557	5.038	0.312	1.181	0.243	0.099	79.677	645.978	0.289	0.000	646.267

TABLE 4.17 : COMPANYWISE OFF-TAKE OF LIGNITE TO DIFFERENT PRIORITY SECTORS DURING 2016-17

(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		2.816															2.816			2.816
GMDCL		3.997						0.190		0.038		0.194	0.484	1.292	0.406	1.051	7.652			7.652
GHCL		0.077															0.077			0.077
NLCL	24.284	1.167					0.035	0.002					0.042		0.009	0.039	25.578			25.578
RSMMML								0.099				0.002				0.448	0.549			0.549
VSLPPL		0.476															0.476			0.476
BLMCL		6.007															6.007			6.007
TOTAL	24.284	14.540	0.000	0.000	0.000	0.000	0.035	0.291	0.000	0.038	0.000	0.196	0.526	1.292	0.415	1.538	43.155	0.000	0.000	43.155

TABLE 4.18 : COMPANYWISE OFF-TAKE OF RAW COAL TO DIFFERENT PRIORITY SECTORS DURING 2016-17

(Quantity in Million Tonnes)

Company	Power (Utility)	Power (Captive)	Steel(Direct Feed)	Steel (coke oven plants & cokeres)	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	40.121	0.045	0.148			0.050		0.048		0.004	0.014	0.004	0.015	2.359	42.808	0.211		43.019
BCCL	27.492			0.879			1.104							5.338	34.813	0.041		34.854
CCL	46.437	1.514	0.008	3.428			0.221	0.581		0.023	0.001			8.720	60.933	0.001		60.934
NCL	74.136	4.243				0.037		0.102	0.320					4.653	83.491			83.491
WCL	29.517	0.370	0.079	0.036		1.060		0.206		0.091	0.205	0.063		7.865	39.492	0.005		39.497
SECL	107.952		0.015			2.168	0.810	1.610	4.122		0.134	0.031		16.700	133.542	0.012		133.554
SECL(GP-IV/2&3)														3.464	3.464			3.464
SECL(GP-IV/1)														0.654	0.654			0.654
MCL	98.551	16.688				0.258		2.821	0.114		0.080			24.495	143.007	0.005		143.012
NEC	0.436	0.007				0.038			0.214		0.080		0.002		0.777			0.777
CIL	424.642	22.867	0.250	4.343	0.000	3.611	2.135	5.368	4.770	0.118	0.514	0.098	0.017	74.248	542.981	0.275	0.000	543.256
SCCL	51.912	1.772				2.703		0.102	0.218	0.194	0.667	0.145	0.002	3.076	60.791	0.014		60.805
JKML						0.002							0.008	0.001	0.011			0.011
DVC		0.180													0.180			0.180
IISCO				0.540	0.205									0.026	0.771			0.771
SAIL															0.000			0.000
JSMDCL	0.150					0.025			0.050				0.072		0.297			0.297
RRVUNL	8.267														8.267			8.267
NTPC		0.100													0.100			0.100
Public	484.971	24.919	0.250	4.883	0.205	6.341	2.135	5.470	5.038	0.312	1.181	0.243	0.099	77.351	613.398	0.289	0.000	613.687
TISCO	1.313			4.998											6.311			6.311
MEG														2.308	2.308			2.308
CESC	1.620														1.620			1.620
HIL		1.765													1.765			1.765
SPL		17.101													17.101			17.101
GMR	0.280														0.280			0.280
BALCO		0.221													0.221			0.221
SIL		0.051						0.087						0.018	0.156			0.156
JPVL	2.803														2.803			2.803
RCCPL						0.015									0.015			0.015
Private	6.016	19.138	0.000	4.998	0.000	0.015	0.000	0.087	0.000	0.000	0.000	0.000	0.000	2.326	32.580	0.000	0.000	32.580
Grand Total	490.987	44.057	0.250	9.881	0.205	6.356	2.135	5.557	5.038	0.312	1.181	0.243	0.099	79.677	645.978	0.289	0.000	646.267

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 2016-17

(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	Cokeeries														
(1)	(2)	(3)	(4)	(5)	(7)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
ECL	RCE			0.003											0.026	0.029			0.029
ECL	TOT	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.029	0.000	0.000	0.029
BCCL	RCE	24.090			0.879			0.823							2.882	28.674			28.674
BCCL	WC			1.181												1.181			1.181
BCCL	MID	0.372	0.717													1.089			1.089
BCCL	TOT	24.462	0.717	1.181	0.879	0.000	0.000	0.823	0.000	0.000	0.000	0.000	0.000	0.000	2.882	30.944	0.000	0.000	30.944
CCL	RCE	14.726		0.008	0.118										2.876	17.728			17.728
CCL	WC				1.224											1.224			1.224
CCL	MID	0.347	1.012													1.359			1.359
CCL	TOT	15.073	1.012	0.008	1.342	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.876	20.311	0.000	0.000	20.311
WCL	RCE				0.036											0.036			0.036
WCL	WC				0.041											0.041			0.041
WCL	MID	0.034														0.034			0.034
WCL	TOT	0.034	0.000	0.000	0.077	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.111	0.000	0.000	0.111
SECL	RCE			0.015												0.015			0.015
SECL	TOT	0.000	0.000	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.000	0.000	0.015
CIL	RCE	38.816		0.026	1.033			0.823							5.784	46.482			46.482
CIL	WC			1.181	1.265											2.446			2.446
CIL	MID	0.753	1.729													2.482			2.482
CIL	TOT	39.569	1.729	1.207	2.298	0.000	0.000	0.823	0.000	0.000	0.000	0.000	0.000	0.000	5.784	51.410	0.000	0.000	51.410
DVC	RCE		0.180													0.180			0.180
DVC	TOT	0.000	0.180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.180	0.000	0.000	0.180
IISCO	WC			0.730												0.730			0.730
IISCO	MID		0.521												0.002	0.523			0.523
IISCO	TOT	0.000	0.521	0.000	0.730	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	1.253	0.000	0.000	1.253
PUBLIC	RCE	38.816	0.180	0.026	1.033			0.823							5.784	46.662			46.662
PUBLIC	WC			1.181	1.995											3.176			3.176
PUBLIC	MID	0.753	2.250												0.002	3.005			3.005
PUBLIC	TOT	39.569	2.430	1.207	3.028	0.000	0.000	0.823	0.000	0.000	0.000	0.000	0.000	0.000	5.786	52.843	0.000	0.000	52.843
TISCO	WC			3.339												3.339			3.339
TISCO	MID	1.444	0.012		0.060		0.004									1.520			1.520
TISCO	TOT	1.444	0.012	0.000	3.399	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.859	0.000	0.000	4.859
PRIVATE	WC			3.339												3.339			3.339
PRIVATE	MID	1.444	0.012		0.060		0.004									1.520			1.520
PRIVATE	TOT	1.444	0.012	0.000	3.399	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.859	0.000	0.000	4.859
GRAND TOTAL	RCE	38.816	0.180	0.026	1.033			0.823							5.784	46.662			46.662
GRAND TOTAL	WC			1.181	5.334											6.515			6.515
GRAND TOTAL	MID	2.197	2.262		0.060		0.004								0.002	4.525			4.525
GRAND TOTAL	TOT	41.013	2.442	1.207	6.427	0.000	0.004	0.823	0.000	0.000	0.000	0.000	0.000	0.000	5.786	57.702	0.000	0.000	57.702

TABLE-4.20: SECTORWISE OFFTAKE OF NON-COKING COAL (RAW COAL, WASHED COAL & MIDDLING) FOR FINAL CONSUMPTION-COMPANYWISE IN 2016-17

(Quantity in Million Tonnes)

Company	Type of coal/coal products /Lignite	Power (Utility)	Power (Captive)	Direct Feed	Cokeeries	Steel (Boilers)	Cement	Fertilisers	Sponge Iron	Other basic-Metal (Aluminium, etc)	Chemical	Pulp & Paper	Textiles & Rayons	Bricks	Other	Total 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	40.121	0.045	0.145			0.050		0.048		0.004	0.014	0.004	0.015	2.333	42.779	0.211		42.990
ECL	TOT	40.121	0.045	0.145	0.000	0.000	0.050	0.000	0.048	0.000	0.004	0.014	0.004	0.015	2.333	42.779	0.211	0.000	42.990
BCCL	RCE	3.402						0.281							0.050	3.733			3.733
BCCL	TOT	3.402	0.000	0.000	0.000	0.000	0.000	0.281	0.000	0.000	0.000	0.000	0.000	0.000	0.050	3.733	0.000	0.000	3.733
CCL	RCE	22.406	1.514					0.221	0.581		0.023	0.001			5.844	30.590			30.590
CCL	WC	7.958	0.380													8.338			8.338
CCL	TOT	30.364	1.894	0.000	0.000	0.000	0.000	0.221	0.581	0.000	0.023	0.001	0.000	0.000	5.844	38.928	0.000	0.000	38.928
NCL	RCE	70.674	4.243				0.037		0.102	0.320					4.653	80.029			80.029
NCL	WC	3.155														3.155			3.155
NCL	TOT	73.829	4.243	0.000	0.000	0.000	0.037	0.000	0.102	0.320	0.000	0.000	0.000	0.000	4.653	83.184	0.000	0.000	83.184
WCL	RCE	29.517	0.370				1.060		0.206		0.091	0.205	0.063		7.865	39.377			39.377
WCL	TOT	29.517	0.370	0.000	0.000	0.000	1.060	0.000	0.206	0.000	0.091	0.205	0.063	0.000	7.865	39.377	0.000	0.000	39.377
SECL	RCE	107.952					2.168	0.810	1.610	4.122		0.134	0.031		16.700	133.527	0.012		133.539
SECL	TOT	107.952	0.000	0.000	0.000	0.000	2.168	0.810	1.610	4.122	0.000	0.134	0.031	0.000	16.700	133.527	0.012	0.000	133.539
SECL(GP-IV/2&3)	RCE														3.464	3.464			3.464
SECL(GP-IV/2&3)	TOT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.464	3.464	0.000	0.000	3.464
SECL(GP-IV/1)	RCE														0.654	0.654			0.654
SECL(GP-IV/1)	TOT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.654	0.654	0.000	0.000	0.654
MCL	RCE	98.551	16.688				0.258		2.821	0.114		0.080			24.495	143.007	0.005		143.012
MCL	TOT	98.551	16.688	0.000	0.000	0.000	0.258	0.000	2.821	0.114	0.000	0.080	0.000	0.000	24.495	143.007	0.005	0.000	143.012
NEC	RCE	0.436	0.007				0.038			0.214		0.080		0.002		0.777			0.777
NEC	TOT	0.436	0.007	0.000	0.000	0.000	0.038	0.000	0.000	0.214	0.000	0.080	0.000	0.002	0.000	0.777	0.000	0.000	0.777
CIL	RCE	373.059	22.867	0.145			3.611	1.312	5.368	4.770	0.118	0.514	0.098	0.017	66.058	477.937	0.228		478.165
CIL	WC	11.113	0.380													11.493			11.493
CIL	TOT	384.172	23.247	0.145	0.000	0.000	3.611	1.312	5.368	4.770	0.118	0.514	0.098	0.017	66.058	489.430	0.228	0.000	489.658
SCCL	RCE	51.912	1.772				2.703		0.102	0.218	0.194	0.667	0.145	0.002	3.076	60.791	0.014		60.805
SCCL	TOT	51.912	1.772	0.000	0.000	0.000	2.703	0.000	0.102	0.218	0.194	0.667	0.145	0.002	3.076	60.791	0.014	0.000	60.805
JKML	RCE						0.002							0.008	0.001	0.011			0.011
JKML	TOT	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.001	0.011	0.000	0.000	0.011
IISCO	RCE						0.205								0.026	0.231			0.231
IISCO	TOT	0.000	0.000	0.000	0.000	0.205	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.231	0.000	0.000	0.231
JSMDCL	RCE	0.150					0.025			0.050				0.072		0.297			0.297
JSMDCL	TOT	0.150	0.000	0.000	0.000	0.000	0.025	0.000	0.000	0.050	0.000	0.000	0.000	0.072	0.000	0.297	0.000	0.000	0.297
RRVUNL	WC		7.342													7.342			7.342
RRVUNL	TOT	0.000	7.342	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.342	0.000	0.000	7.342
NTPC	RCE		0.100													0.100			0.100
NTPC	TOT	0.000	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.100	0.000	0.000	0.100
Public	RCE	423.705	24.739	0.145		0.205	6.341	1.312	5.470	5.037	0.312	1.181	0.243	0.099	69.161	537.950	0.242		538.192
Public	WC	11.113	7.722													18.835			18.835
Public	TOT	434.818	32.461	0.145	0.000	0.205	6.341	1.312	5.470	5.037	0.312	1.181	0.243	0.099	69.161	556.785	0.242	0.000	557.027
Meghalaya	RCE														2.308	2.308			2.308
Meghalaya	TOT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.308	2.308	0.000	0.000	2.308
CESC	WC	0.744														0.744			0.744
CESC	TOT	0.744	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	0.744	0.000	0.000	0.744
HIL	RCE		1.765													1.765			1.765
HIL	TOT	0.000	1.765	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.765	0.000	0.000	1.765
SPL	RCE		17.101													17.101			17.101
SPL	TOT	0.000	17.101	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.101	0.000	0.000	17.101
GMR	RCE		0.280													0.280			0.280
GMR	TOT	0.280	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	0.280	0.000	0.000	0.280
BALCO	RCE		0.221													0.221			0.221
BALCO	TOT	0.000	0.221	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.221	0.000	0.000	0.221
SIL	RCE		0.051						0.087						0.018	0.156			0.156
SIL	TOT	0.000	0.051	0.000	0.000	0.000	0.000	0.000	0.087	0.000	0.000	0.000	0.000	0.000	0.018	0.156	0.000	0.000	0.156
JPVL	RCE		2.803													2.803			2.803
JPVL	TOT	2.803	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	2.803	0.000	0.000	2.803
RCCPL	RCE						0.015									0.015			0.015
RCCPL	TOT	0.000	0.000	0.000	0.000	0.000	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.000	0.000	0.015
Private	RCE	3.083	19.138				0.015		0.087						2.326	24.649			24.649
Private	WC	0.744														0.744			0.744
Private	TOT	3.827	19.138	0.000	0.000	0.000	0.015	0.000	0.087	0.000	0.000	0.000	0.000	0.000	2.326	25.393	0.000	0.000	25.393
Grand Total	RCE	426.788	43.877	0.145		0.205	6.356	1.312	5.557	5.037	0.312	1.181	0.243	0.099	71.487	562.599	0.242		562.841
Grand Total	WC	11.857	7.722													19.579			19.579
Grand Total	TOT	438.645	51.599	0.145	0.000	0.205	6.356	1.312	5.557	5.037	0.312	1.181	0.243	0.099	71.487	582.178	0.242	0.000	582.420

TABLE-4.21: SECTORWISE OFFTAKE OF RAW COAL, WASHED COAL, MIDDINGS FOR FINAL CONSUMPTION TO DIFFERENT STATES: 2016-17
(Quantity in Million Tonnes)

COMPANY	Raw 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)	32.195	1.696				0.204		0.265	0.094	0.045	0.078		0.002	0.829	35.408			35.408
An Pradesh	Washed Coal	0.102		0.372												0.474			0.474
An Pradesh	Tot Coal (FC)	32.297	1.696	0.372			0.204		0.265	0.094	0.045	0.078		0.002	0.829	35.882			35.882
Ar. Pradesh	Raw Coal (FC)														0.001	0.001			0.001
Ar. Pradesh	Tot Coal (FC)														0.001	0.001			0.001
Assam	Raw Coal (FC)	0.676	0.007				0.019					0.072			0.150	0.924			0.924
Assam	Tot Coal (FC)	0.676	0.007				0.019					0.072			0.150	0.924			0.924
Bihar	Raw Coal (FC)	17.156			0.041						0.007				0.524	17.728			17.728
Bihar	Washed Coal	0.114														0.114			0.114
Bihar	Tot Coal (FC)	17.270			0.041						0.007				0.524	17.842			17.842
Chhattisgarh	Raw Coal (FC)	58.115	2.627				1.339		1.659	0.424		0.017			6.408	70.589	0.006		70.595
Chhattisgarh	Washed Coal	0.044		0.351	0.246											0.641			0.641
Chhattisgarh	Middlings		0.001													0.001			0.001
Chhattisgarh	Tot Coal (FC)	58.159	2.628	0.351	0.246		1.339		1.659	0.424		0.017			6.408	71.231	0.006		71.237
Delhi	Raw Coal (FC)	0.008	0.004													0.012			0.012
Delhi	Washed Coal	1.139														1.139			1.139
Delhi	Middlings	0.045														0.045			0.045
Delhi	Tot Coal (FC)	1.192	0.004													1.196			1.196
Gujarat	Raw Coal (FC)	12.763	0.065					0.502			0.030	0.002	0.025		1.017	14.404			14.404
Gujarat	Tot Coal (FC)	12.763	0.065					0.502			0.030	0.002	0.025		1.017	14.404			14.404
Haryana	Raw Coal (FC)	11.279						0.410							0.251	11.940			11.940
Haryana	Washed Coal	0.528														0.528			0.528
Haryana	Tot Coal (FC)	11.807						0.410							0.251	12.468			12.468
J & K	Raw Coal (FC)						0.009							0.008	0.001	0.018			0.018
J & K	Tot Coal (FC)						0.009							0.008	0.001	0.018			0.018
Jharkhand	Raw Coal (FC)	15.250	1.653	0.051	0.729		0.036		0.420		0.003			0.075	9.670	27.887	0.049		27.936
Jharkhand	Washed Coal	1.149	0.380	0.275	1.940											3.744			3.744
Jharkhand	Middlings	1.629	1.355				0.004								0.001	2.989			2.989
Jharkhand	Tot Coal (FC)	18.028	3.388	0.326	2.669		0.040		0.420		0.003			0.075	9.671	34.620	0.049		34.669
Kerala	Raw Coal (FC)		0.018				0.031					0.027				0.076			0.076
Kerala	Washed Coal															0.000			0.000
Kerala	Tot Coal (FC)		0.018				0.031					0.027				0.076			0.076
Karnataka	Raw Coal (FC)	11.988	0.604				1.109		0.016		0.008	0.070	0.130		0.034	13.959			13.959
Karnataka	Tot Coal (FC)	11.988	0.604	0.000	0.000	0.000	1.109	0.000	0.016	0.000	0.008	0.070	0.130	0.000	0.034	13.959			13.959
Maharashtra	Raw Coal (FC)	48.209	0.206				1.181		0.295		0.031	0.145	0.025		3.011	53.103	0.004		53.107
Maharashtra	Tot Coal (FC)	48.209	0.206	0.000	0.000	0.000	1.181	0.000	0.295	0.000	0.031	0.145	0.025	0.000	3.011	53.103	0.004		53.107
Meghalaya	Raw Coal (FC)						0.011								2.310	2.321			2.321
Meghalaya	Tot Coal (FC)						0.011								2.310	2.321			2.321
M. Pradesh	Raw Coal (FC)	37.128	18.332	0.079	0.029		0.694		0.175		0.030	0.118	0.017		3.964	60.566	0.007		60.573
M. Pradesh	Washed Coal	0.083														0.083			0.083
M. Pradesh	Middlings	0.034														0.034			0.034
M. Pradesh	Tot Coal (FC)	37.245	18.332	0.079	0.029		0.694		0.175		0.030	0.118	0.017		3.964	60.683	0.007		60.690

Contd.....

TABLE-4.21: SECTORWISE OFFTAKE OF RAW COAL, WASHED COAL, MIDDINGS FOR FINAL CONSUMPTION TO DIFFERENT STATES: 2016-17

(Quantity in Million Tonnes)

COMPANY	Raw 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)	35.989	16.065	0.080			0.258		2.216	0.154		0.080			22.096	76.938	0.005		76.943
Odisha	Washed Coal	0.086		0.108	0.255											0.449			0.449
Odisha	Middlings		0.233													0.233			0.233
Odisha	Tot Coal (FC)	36.075	16.298	0.188	0.255		0.258		2.216	0.154		0.080			22.096	77.620	0.005		77.625
Panjab	Raw Coal (FC)	12.457	0.210					0.694							0.028	13.389			13.389
Panjab	Washed Coal	0.012														0.012			0.012
Panjab	Tot Coal (FC)	12.469	0.210					0.694							0.028	13.401			13.401
Rajasthan	Raw Coal (FC)	9.593	0.471				0.148	0.307		0.134			0.028		0.014	10.695			10.695
Rajasthan	Washed Coal	0.135	7.342													7.477			7.477
Rajasthan	Tot Coal (FC)	9.728	7.813				0.148	0.307		0.134			0.028		0.014	18.172			18.172
Telangana	Raw Coal (FC)	27.993	1.062				1.174		0.079	0.084	0.141	0.533	0.016		2.131	33.213	0.014		33.227
Telangana	Tot Coal (FC)	27.993	1.062	0.000	0.000	0.000	1.174	0.000	0.079	0.084	0.141	0.533	0.016	0.000	2.131	33.213	0.014		33.227
Tamilnadu	Raw Coal (FC)	19.171	0.039				0.079					0.016			0.284	19.589			19.589
Tamilnadu	Tot Coal (FC)	19.171	0.039				0.079					0.016			0.284	19.589			19.589
U. Pradesh	Raw Coal (FC)	69.345	4.238		0.226		0.037	0.221	0.053	0.320	0.013	0.001			11.092	85.546			85.546
U. Pradesh	Washed Coal	7.721														7.721			7.721
U. Pradesh	Middlings	0.070														0.070			0.070
U. Pradesh	Tot Coal (FC)	77.136	4.238		0.226		0.037	0.221	0.053	0.320	0.013	0.001			11.092	93.337			93.337
Uttaranchal	Raw Coal (FC)		0.357												0.103	0.460			0.460
Uttaranchal	Tot Coal (FC)		0.357												0.103	0.460			0.460
West Bengal	Raw Coal (FC)	47.445	0.117	0.091	0.020	0.056	0.002		0.469		0.004	0.014	0.004	0.012	2.176	50.410	0.204		50.614
West Bengal	Washed Coal	0.744		0.118	0.741											1.603			1.603
West Bengal	Middlings	0.382	0.672													1.054			1.054
West Bengal	Tot Coal (FC)	48.571	0.789	0.209	0.761	0.056	0.002		0.469		0.004	0.014	0.004	0.012	2.176	53.067	0.204		53.271
Others	Raw Coal (FC)	0.066					0.030		0.002						16.490	16.588			16.588
Others	Middlings														0.060	0.060			0.060
Others	Tot Coal (FC)	0.066					0.030		0.002						16.550	16.648			16.648
ALL India	Raw Coal (FC)	466.826	47.771	0.301	1.045	0.056	6.361	2.134	5.649	1.210	0.312	1.173	0.245	0.097	82.584	615.764	0.289	0.000	616.053
ALL India	Washed Coal	11.857	7.722	1.224	3.182	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23.985	0.000	0.000	23.985
ALL India	Middlings	2.160	2.261	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.061	4.486	0.000	0.000	4.486
ALL India	Tot Coal (FC)	480.843	57.754	1.525	4.227	0.056	6.365	2.134	5.649	1.210	0.312	1.173	0.245	0.097	82.645	644.235	0.289	0.000	644.524

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)
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
2016-17	64.776	625.196	689.972	913.398	0.289	913.687	75.278	0.585	32.672	33.257	32.580	0.000	32.580	0.674	65.361	657.868	723.229	945.978	0.289	946.267	75.952

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)
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	579.359	513.792	0.762	514.554	64.863
2010-11	1.732	34.224	35.956	33.664	0.000	33.664	0.719	63.131	498.470	561.601	489.801	0.621	490.422	71.473	64.863	532.694	597.557	523.465	0.621	524.086	72.192
2011-12	0.719	43.706	44.425	43.099	0.002	43.101	1.436	71.473	496.244	567.717	492.200	0.580	492.780	72.604	72.192	539.950	612.142	535.299	0.582	535.881	74.040
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
2016-17	0.704	37.867	38.571	36.446	0.000	36.446	2.122	64.657	620.001	684.658	609.532	0.289	609.821	73.830	65.361	657.868	723.229	645.978	0.289	646.267	75.952

TABLE 4.24: AVAILABILITY AND OFF-TAKE OF INDIAN RAW COAL BY COMPANIES DURING 2015-16 & 2016-17

(Quantity in Million Tonnes)

Company	2015-16							2016-17								
	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	53.491	538.754	592.245	534.083	0.300	534.383	57.683	57.683	554.140	611.823	542.981	0.275	543.256	68.575		
SCCL	5.348	60.380	65.728	58.687	0.035	58.722	7.025	7.025	61.336	68.361	60.791	0.014	60.805	6.544		
JKML	0.013	0.013	0.026	0.012		0.012	0.013	0.013	0.010	0.023	0.011		0.011	0.012		
JSMDCL	0.007	0.190	0	0.197		0	0.000	0.000	0.297	0	0.297		0.297	0.000		
DVC	0.030	0.403	0.433	0.392		0.392	0.041	0.041	0.152	0.193	0.180		0.180	0.013		
IISCO	0.013	0.727	0.740	0.725		0.725	0.014	0.014	0.766	0.780	0.771		0.771	0.007		
SAIL	0.000	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.000		
RRVUNL	0.000	6.210	6.210	6.210		6.210	0.000	0.000	8.267	8.267	8.267		8.267	0.000		
NTPC								0.000	0.228	0.228	0.100		0.100	0.127		
PUBLIC	59.101	606.677	665.579	600.306	0.335	600.641	64.776	64.776	625.196	689.972	613.398	0.289	613.687	75.278		
TISCO	0.012	6.228	6.240	6.233	0.001	6.234	0.007	0.007	6.316	6.323	6.311		6.311	0.011		
Meghalaya	0.000	3.712	3.712	3.712		3.712	0.000	0.000	2.308	2.308	2.308		2.308	0.000		
SPL	0.145	17.022	17.167	16.842		16.842	0.326	0.326	16.997	17.323	17.101		17.101	0.222		
CESC	0.000	1.877	1.877	1.874		1.874	0.003	0.003	1.742	1.745	1.620		1.620	0.125		
HIL	0.008	0.069	0.077	0.012		0.012	0.057	0.057	2.000	2.057	1.765		1.765	0.291		
GMR	0.000	0.560	0.560	0.425		0.425	0.136	0.136	0.151	0.287	0.280		0.280	0.006		
BALCO	0.000	0.120	0.120	0.079		0.079	0.041	0.041	0.180	0.221	0.221		0.221	0.000		
SIL	0.009	0.165	0.174	0.163		0.163	0.011	0.011	0.153	0.164	0.156		0.156	0.008		
JPVL	0.000	2.800	2.800	2.796		2.796	0.004	0.004	2.800	2.804	2.803		2.803	0.001		
RCCPL								0.000	0.025	0.025	0.015		0.015	0.010		
PRIVATE	0.288	32.553	32.841	32.136	0.001	32.137	0.585	0.585	32.672	33.257	32.580	0.000	32.580	0.674		
INDIA	59.389	639.230	698.420	632.442	0.336	632.778	65.361	65.361	657.868	723.229	645.978	0.289	646.267	75.952		

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	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
GIPCL	2016-17	2.816										2.816
GMDCL	2016-17	3.997		0.190		1.292	0.038	0.484	0.406	0.194	1.051	7.652
GHCL	2016-17	0.077										0.077
NLCL	2016-17	25.451	0.035	0.002				0.042	0.009		0.039	25.578
RSMML	2016-17			0.099						0.002	0.448	0.549
VSLPPL	2016-17	0.476										0.476
BLMCL	2016-17	6.007										6.007
TOTAL	2016-17	38.824	0.035	0.291	0.000	1.292	0.038	0.526	0.415	0.196	1.538	43.155

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

(Quantity in Million Tonnes)

Block	Company	State	2014-15			2015-16			2016-17		
			Coking Coal	Non Coking Coal	Total Coal	Coking Coal	Non Coking Coal	Total Coal	Coking Coal	Non Coking Coal	Total Coal
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(7)	(8)	(9)
SECL(GP-IV/2&3)	SECL	Chhattisgarh					2.152	2.152		3.464	3.464
SECL(GP-IV/1)	SECL	Chhattisgarh								0.654	0.654
Parsa East & Kanta Basan	RRVUNL	Chhattisgarh		3.443	3.443		6.210	6.210		8.267	8.267
Pakri Barwadih	NTPC	Jharkhand								0.100	0.100
Tasra	SAIL/IISCO	Jharkhand	0.024	0.001	0.025			0.000			0.000
Namchik Namphuk	APMDTCL	Arunachal Pradesh			0.000						
Panchwara North	WBPDCCL	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	WBPDCCL	West Bengal		1.818	1.818						
Barjore	WBPDCCL	West Bengal		0.214	0.214						
Gangaramchak & Bhadulia	WBPDCCL	West Bengal		0.209	0.209						
Total Public			0.024	19.181	19.205	0.000	8.362	8.362	0.000	12.485	12.485
Amelia North	JPVL	Madhya Pradesh					2.796	2.796		2.803	2.803
Belgaon	SIL	Maharashtra		0.196	0.196		0.163	0.163		0.156	0.156
Chotia	BALCO	Chhattisgarh					0.079	0.079		0.221	0.221
Gare Palma IV/4	HIL	Chhattisgarh					0.012	0.012		0.859	0.859
Gare Palma IV/5	HIL	Chhattisgarh								0.906	0.906
Moher & Moher Amlori Extn	SPL	Madhya Pradesh		9.261	9.261		16.842	16.842		17.101	17.101
Sarshatali	CESC	West Bengal					1.874	1.874		1.620	1.620
Talabira-I	GMR	Odisha					0.425	0.425		0.280	0.280
Sial Ghogri	RCCPL	Madhya Pradesh								0.015	0.015
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	0.000	23.961	23.961
Grand Total			0.136	52.434	52.570	0.000	30.553	30.553	0.000	36.446	36.446

TABLE 4.27 : BALANCE SHEET OF AVAILABILITY AND SUPPLY OF RAW COAL & LIGNITE DURING 2015-16 & 2016-17
(Quantity in Million Tonnes)

Availability (within India)	2015-16	2016-17	Supply (within India)	2015-16				2016-17			
				Raw Coal	Lignite	Imported Coal	Total	Raw Coal	Lignite	Imported Coal	Total
(A) Production			Sectors								
Coking Coal	60.887	61.661									
Non-coking Coal	578.343	596.207									
Lignite	43.842	45.230	Steel & Washery	12.273	0.012	44.561	56.846	10.336	0.035	41.644	52.015
Total	683.072	703.098	Power (Utility+Captive)	517.769	37.555	N.A.	555.324	535.044	38.824	N.A.	573.868
(B) Change of Vendible Stock (Closing - Opening)			Cement	8.985	0.225	N.A.	9.210	6.356	0.291	N.A.	6.647
Coking Coal	1.760	2.441	Textile	0.267	1.728		1.995	0.243	1.292		1.535
Non-coking Coal	4.212	8.150	Sponge Iron	7.763			7.763	5.557	0.038		5.595
Lignite	1.633	2.074	Fertilizer & Chem.	2.736	0.003		2.739	2.447	0.196		2.643
Total Change (Cl - Op)	7.605	12.665	Paper	1.211	0.427		1.638	1.181	0.526		1.707
(C) Import			Brick	0.074	0.392		0.466	0.099	0.415		0.514
Coking Coal	44.561	41.644	Others	81.364	1.869	159.388	242.621	84.426	1.538	149.309	235.273
Non-coking Coal	159.388	149.309	Colliery Consmn.	0.336			0.336	0.289			0.289
Total Raw Coal	203.949	190.953	Total Off-take	632.778	42.211	203.949	878.938	645.978	43.155	190.953	880.086
(D) Export	1.575	1.773	Statistical Difference				-1.097				-0.473
(E) Total Availability	877.841	879.613	Total Supply				877.841				879.613

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- 1. It is to be noted that the concept of pit head closing stock of coal refers to raw coal. As on 31-03-2017, Pit head closing stock of coal was 75.952 MT and lignite 6.883 MT. Statement 5.1 shows details of pit head closing stock of raw coal and lignite for 2015-16 and 2016-17. It may be seen that in 2016-17, closing stock of coal and lignite increased over 2015-16. While raw coal increased by 16.2%, lignite increased by 43.1%.

Statement 5.1 Pit Head Closing Stock (MT) of Coal and Lignite in India at the end of 2015-16 and 206-17		
Types of Fossil Fuel	Year	
	2015-16	2016-17
Coal		
Metallurgical	1.562	1.563
Non-metallurgical	7.162	9.602
Total Coking Coal	8.724	11.165
Non-coking	56.637	64.787
Total Raw Coal	65.361	75.952
Lignite	4.809	6.883

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

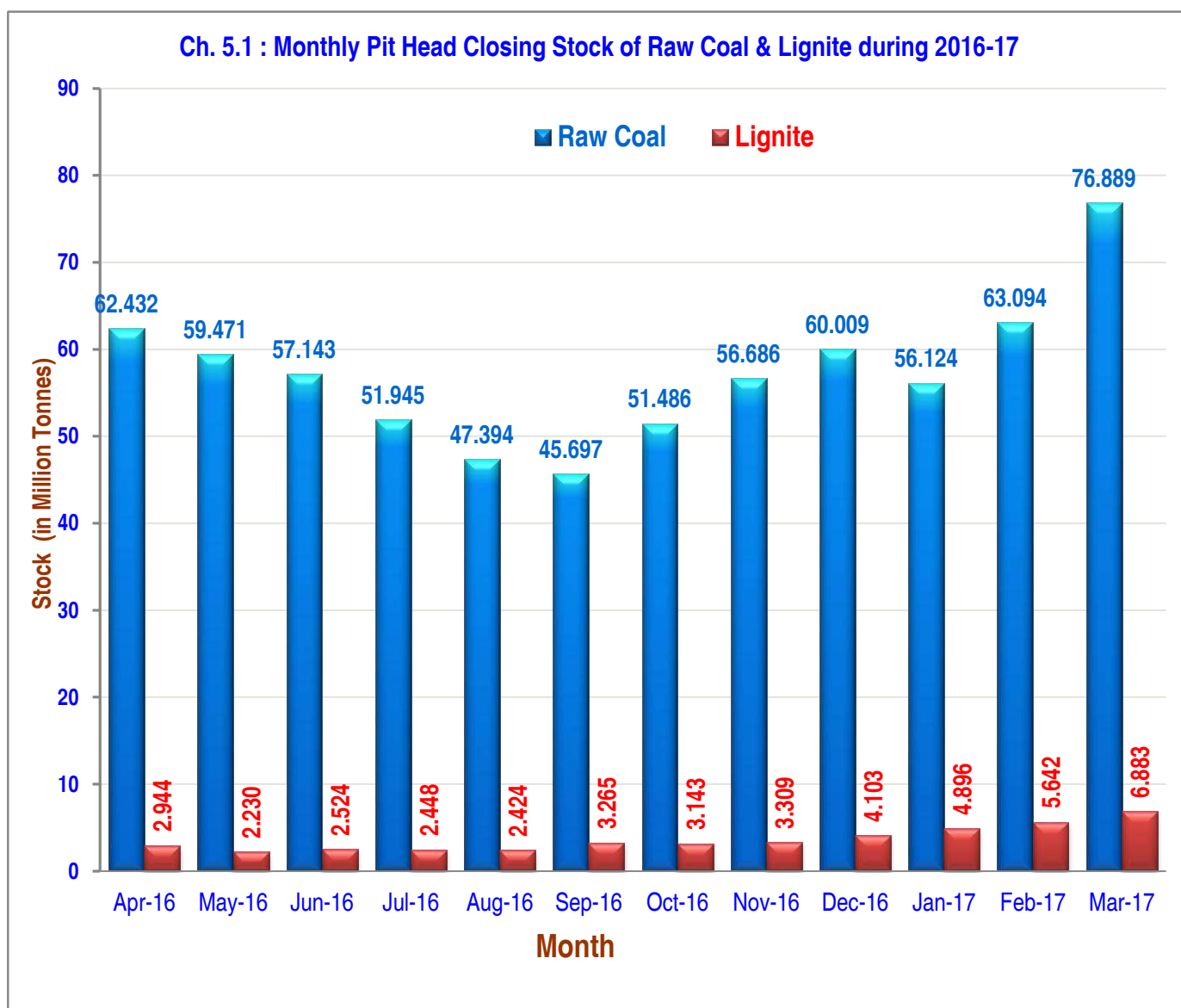
Statement 5.2 Pit Head Closing Stock (MT) of Coal and Lignite in India in last ten years.		
Year	Pit Head Closing Stock (MT)	
	Raw Coal	Lignite
2007-08	46.779	0.328
2008-09	47.317	0.903
2009-10	64.863	0.565
2010-11	72.192	0.610
2011-12	74.040	1.051
2012-13	63.049	1.493
2013-14	55.514	1.860
2014-15	59.389	3.176
2015-16	65.361	4.809
2016-17	75.952	6.883

It may be seen that in case of coal, the pit head closing stock had been increasing from 2007-08 till 2011-12 whereas in 2012-13 and 2013-14 it decreased. Again from 2014-15 it had increasing trend till 2016-17. In case of lignite, it also had increasing trend since 2010-11 till 2016-17.

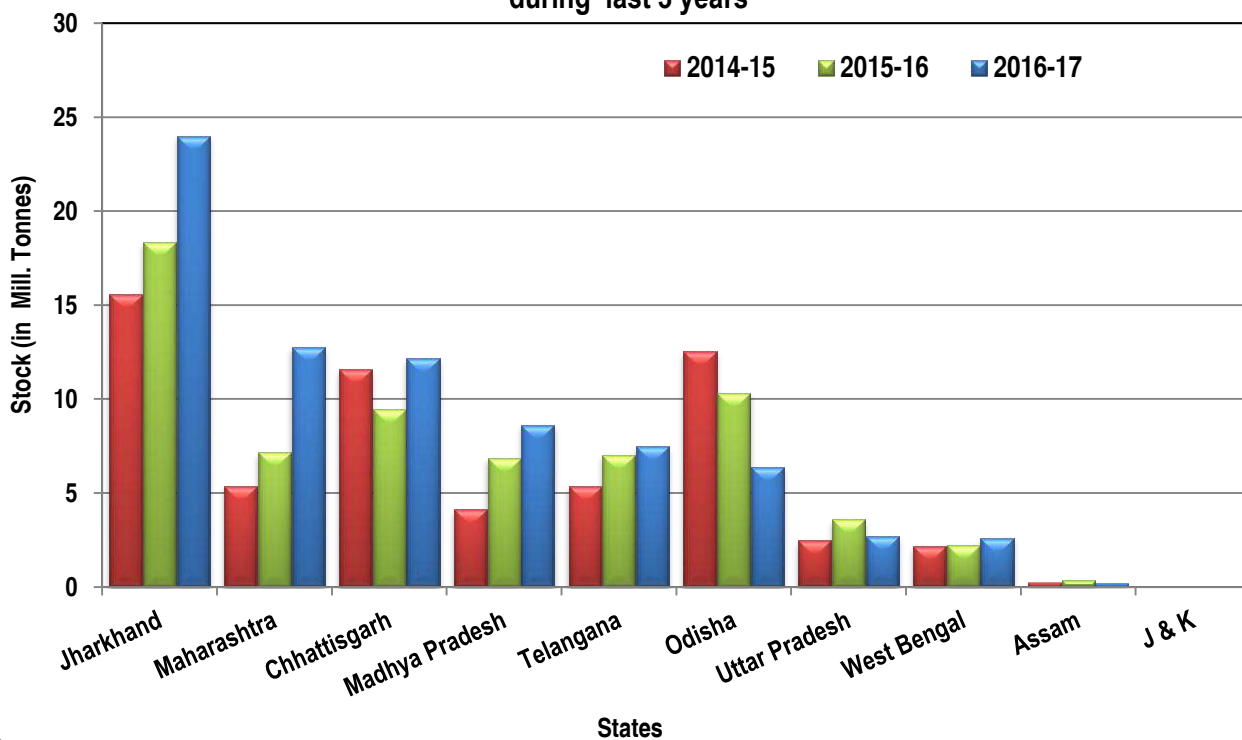
Statement 5.3 shows pit head closing stock of coal by companies for 2015-16 and 2016-17.

Statement 5.3: Company wise Pit Head Closing Stock (MT) of Coal and Lignite in India at the end of 2015-16 and 2016-17		
Company	Year	
	2015-16	2016-17
Coal		
ECL	5.055	2.553
BCCL	4.016	6.199
CCL	11.460	17.574
NCL	6.590	7.195
WCL	8.007	14.142
SECL	12.002	14.342
MCL	10.194	6.387
NEC	0.359	0.183
CIL	57.683	68.575
SCCL	7.025	6.544
Other Public	0.068	0.159
Total Public	64.776	75.278
Private	0.585	0.674
Total	65.361	75.952
Lignite		
NLC	4.573	6.612
GMDCL	0	0
GIPCL	0	0
GHCL	0.011	0.012
RSMML	0	0
VSLPL	0.031	0.062
BLMCL	0.194	0.197
Total	4.809	6.883

Ch. 5.1 : Monthly Pit Head Closing Stock of Raw Coal & Lignite during 2016-17



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

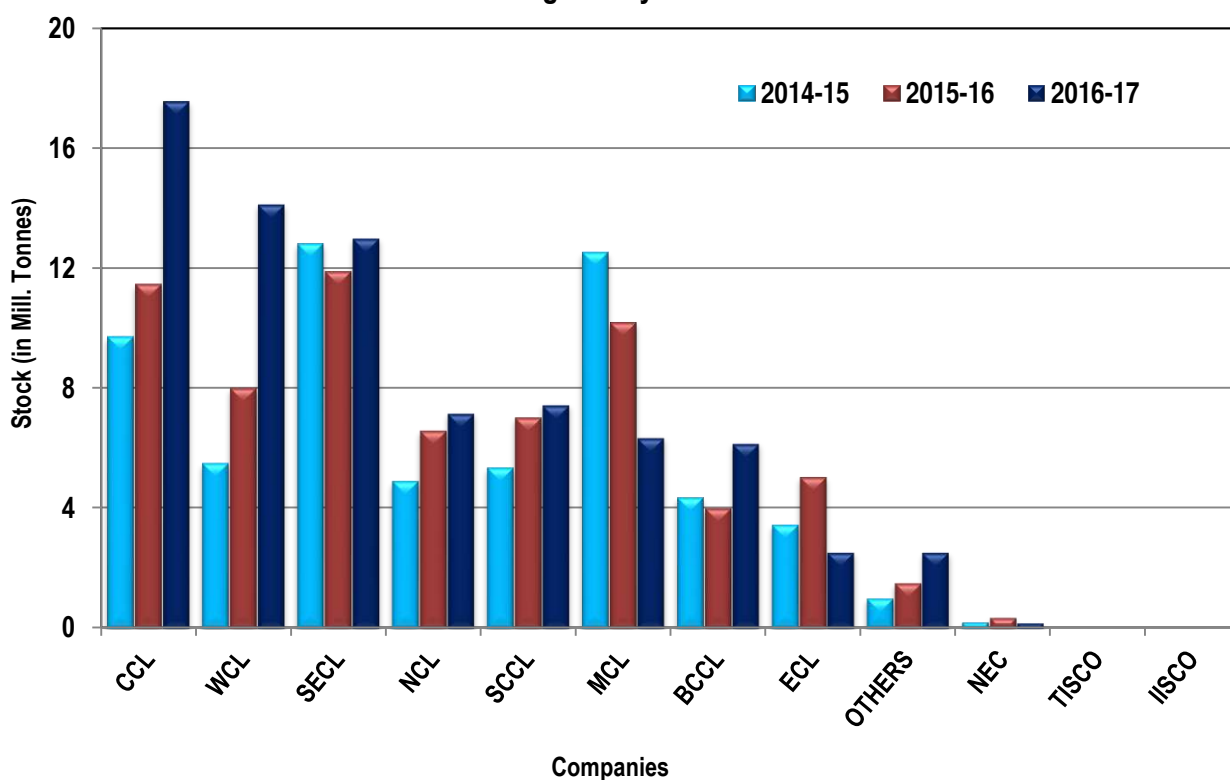


TABLE-5.1. TRENDS OF PIT-HEAD CLOSING STOCK OF DIFFERENT SOLID FOSSIL FUELS IN LAST TEN YEARS
(Quantity in Million Tonnes)

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)
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
2016-17	75.952	91.69	16.20	6.883	8.31	43.13	82.835	18.05

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

Year	Coking Coal									Non Coking Coal			Raw Coal	
	Metallurgical Coal			Non Metallurgical Coal			Total Coking Coal			Pit-head Closing Stock	Share in 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	14.0	-3.7	40.687	86.0	2.0	47.317	1.2
2009-10	1.927	17.1	-52.6	9.337	82.9	264.0	11.264	17.4	69.9	53.599	82.6	31.7	64.863	37.1
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
2016-17	1.563	14.0	0.1	9.602	86.0	34.1	11.165	14.5	28.0	65.724	85.5	16.0	76.889	17.6

TABLE-5.3 : MONTHLY PIT-HEAD CLOSING STOCK OF COAL, LIGNITE AND VARIOUS COAL PRODUCTS IN 2016-17

(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-16	62.432	2.944	0.258	0.111	0.615	0	0.125
May-16	59.471	2.230	0.276	0.090	0.715	0	0.100
Jun-16	57.143	2.524	0.288	0.196	0.685	0	0.063
1st Quarter	57.143	2.524	0.288	0.196	0.685	0.000	0.063
Jul-16	51.945	2.448	0.329	0.256	0.646	0	0.086
Aug-16	47.394	2.424	0.286	0.294	0.658	0	0.073
Sep-16	45.697	3.265	0.264	0.275	0.604	0	0.084
2nd Quarter	45.697	3.265	0.264	0.275	0.604	0.000	0.084
Oct-16	51.486	3.143	0.231	0.314	0.617	0	0.069
Nov-16	56.686	3.309	0.234	0.326	0.637	0	0.073
Dec-16	60.009	4.103	0.164	0.497	0.653	0	0.097
3rd Quarter	60.009	4.103	0.164	0.497	0.653	0.000	0.097
Jan-17	56.124	4.896	0.192	0.743	0.699	0	0.084
Feb-17	63.094	5.642	0.159	0.902	0.752	0	0.066
Mar-17	76.889	6.883	0.152	1.098	0.775	0	0.075
4th Quarter	76.889	6.883	0.152	1.098	0.775	0.000	0.075

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)
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
2016-17	0.000	0.00	1.00	0.183	0.24	-49.03	12.147	15.99	28.62

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)
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
2016-17	0.012	0.02	-7.69	24.002	31.60	30.77	8.609	11.33	25.61

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)
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
2016-17	12.771	16.81	78.12	6.393	8.42	-38.11	6.544	8.62	-6.85

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

Contd.....

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

(Quantity in Million Tonnes)

Year	State: Uttar Pradesh			State: West Bengal			ALL INDIA	
	Quantity	Share(%)	Growth(%)	Quantity	Share(%)	Growth(%)	Quantity	Growth (%)
(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)
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
2016-17	2.684	3.53	-24.82	2.607	3.43	16.33	75.952	16.20

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)
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
2016-17	6.612	96.06	44.59	0.012	0.17	9.09	0.259	3.76	15.11

Year	ALL INDIA	
	Quantity	Growth (%)
(11)	(12)	(13)
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
2016-17	6.883	43.13

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	2014-15		2015-16		2016-17	
	Quantity	% of All India	Quantity	% of All India	Quantity	% of All India
(1)	(2)	(3)	(4)	(5)	(6)	(7)
COAL :						
ECL	3.451	5.81	5.055	7.73	2.553	3.32
BCCL	4.362	7.34	4.016	6.14	6.199	8.06
CCL	9.718	16.36	11.460	17.53	17.574	22.86
NCL	4.898	8.25	6.590	10.08	7.195	9.36
WCL	5.501	9.26	8.007	12.25	14.142	18.39
SECL	12.816	21.58	11.876	18.17	13.010	16.92
SECL(GP-IV/2&3)			0.126	0.19	1.142	1.49
SECL(GP-IV/1)					0.190	0.25
MCL	12.530	21.10	10.194	15.60	6.387	8.31
NEC	0.215	0.36	0.359	0.55	0.183	0.24
CIL	53.491	90.07	57.683	88.25	68.575	89.19
SCCL	5.348	9.01	7.025	10.75	7.481	9.73
JKML	0.013	0.02	0.013	0.02	0.012	0.02
JSMDCCL	0.007	0.01	0.000	0.00	0.000	0.00
DVC	0.030	0.05	0.041	0.06	0.013	0.02
IISCO	0.013	0.02	0.014	0.02	0.007	0.01
SAIL	0.000	0.00	0.000	0.00	0.000	0.00
RRVUNL			0.000	0.00	0.000	0.00
NTPC					0.127	0.17
DVC EMTA	0.000	0.00				
APMDTCL	0.000	0.00				
WBPDCCL	0.008	0.01				
PSEB-PANEM	0.089	0.15				
KECML	0.095	0.16				
WBMDTCL	0.007	0.01				
MPSMCL	0.000	0.00				
PUBLIC	59.101	99.52	64.776	99.10	76.215	99.12
TISCO	0.012	0.02	0.007	0.01	0.011	0.01
Meghalaya	0.000	0.00	0.000	0.00	0.000	0.00
HIL	0.008	0.01	0.057	0.09	0.291	0.38
SIL	0.009	0.02	0.011	0.02	0.008	0.01
SPL	0.145	0.24	0.326	0.50	0.222	0.29
GMR			0.136	0.21	0.006	0.01
BALCO			0.041	0.06	0.000	0.00
CESC			0.003	0.00	0.125	0.16
JPVL			0.004	0.01	0.001	0.00
RCCPL					0.010	0.01
ICML	0.000	0.00				
JSPL	0.010	0.02				
MIEL	0.000	0.00				
BLA	0.000	0.00				
PIL	0.000	0.00				
JNL	0.002	0.00				
JPL	0.000	0.00				
ESCL	0.037	0.06				
UML	0.000	0.00				
SEML	0.054	0.09				
BSIL	0.004	0.01				
TUML/SVSL	0.007	0.01				
SOVA	0.000	0.00				
PRIVATE	0.288	0.48	0.585	0.90	0.674	0.88
ALL INDIA	59.389	100.00	65.361	100.00	76.889	100.00
LIGNITE :						
NLC	2.842	89.48	4.573	95.09	6.612	96.06
GMDCL			0.000		0.000	0.00
GIPCL			0.000		0.000	0.00
GHCL	0.023	0.72	0.011	0.23	0.012	0.17
RSMML			0.000		0.000	0.00
VSLPPL	0.233		0.031		0.062	0.90
BLMCL	0.078	2.46	0.194	4.03	0.197	2.86
ALL INDIA	3.176	92.66	4.809	99.36	6.883	100.00
COAL & LIGNITE	62.565		70.170		83.772	

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	2014-2015			2015-2016			2016-2017		
		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						
Assam	NEC		0.215	0.215		0.359	0.359		0.183	0.183
Chhattisgarh	SECL	0.009	11.501	11.510	0.036	9.184	9.220	0.130	10.394	10.524
Chhattisgarh	SECL(GP-IV/2&3)					0.126	0.126		1.142	1.142
Chhattisgarh	SECL(GP-IV/1)								0.190	0.190
Chhattisgarh	MIEL			0.000						
Chhattisgarh	JSPL		0.010	0.010						
Chhattisgarh	PIL			0.000						
Chhattisgarh	BALCO					0.041	0.041		0.000	0.000
Chhattisgarh	JNL		0.002	0.002						
Chhattisgarh	JPL			0.000						
Chhattisgarh	HIL					0.057	0.057		0.291	0.291
Chhattisgarh	SEML		0.054	0.054						
Chhattisgarh	RRVUNL			0.000			0.000			0.000
Chhattisgarh	TOTAL	0.009	11.567	11.576	0.036	9.408	9.444	0.130	12.017	12.147
Jammu & Kashmir	JKML		0.013	0.013		0.013	0.013		0.012	0.012
Jharkhand	ECL	0.006	1.812	1.818	0.002	3.388	3.390	0.006	0.782	0.788
Jharkhand	BCCL	3.102	0.724	3.826	2.869	0.588	3.457	4.132	1.357	5.489
Jharkhand	CCL	3.452	6.266	9.718	5.604	5.856	11.460	6.576	10.998	17.574
Jharkhand	JSMDC		0.007	0.007			0.000			0.000
Jharkhand	DVC		0.030	0.030	0.041		0.041	0.013		0.013
Jharkhand	IISCO			0.000			0.000			0.000
Jharkhand	TISCO	0.007	0.005	0.012	0.007		0.007	0.011		0.011
Jharkhand	PSWB/PANEM		0.089	0.089						
Jharkhand	WBPDC		0.007	0.007						
Jharkhand	UML			0.000						
Jharkhand	ESCL	0.011	0.026	0.037						
Jharkhand	SAIL			0.000			0.000			0.000
Jharkhand	NTPC								0.127	0.127
Jharkhand	TOTAL	6.578	8.966	15.544	8.523	9.832	18.355	10.738	13.264	24.002
Madhya Pradesh	NCL		2.414	2.414		3.020	3.020		4.511	4.511
Madhya Pradesh	WCL	0.085	0.161	0.246	0.094	0.754	0.848	0.110	1.269	1.379
Madhya Pradesh	SECL		1.306	1.306		2.656	2.656		2.486	2.486
Madhya Pradesh	BLA			0.000			0.000			0.000
Madhya Pradesh	SPL		0.145	0.145		0.326	0.326		0.222	0.222
Madhya Pradesh	JPVL			0.000		0.004	0.004		0.001	0.001
Madhya Pradesh	RCCPL								0.010	0.010
Madhya Pradesh	TOTAL	0.085	4.026	4.111	0.094	6.760	6.854	0.110	8.499	8.609
Maharashtra	WCL		5.255	5.255		7.159	7.159		12.763	12.763
Maharashtra	SIL		0.009	0.009		0.011	0.011		0.008	0.008
Maharashtra	KECML		0.095	0.095						
Maharashtra	BSIL		0.004	0.004						
Maharashtra	TUML/SVSL		0.007	0.007						
Maharashtra	TOTAL	0.000	5.370	5.370	0.000	7.170	7.170	0.000	12.771	12.771
Meghalaya	PRIVATE			0.000			0.000			0.000
Odisha	MCL		12.530	12.530		10.194	10.194		6.387	6.387
Odisha	GMR					0.136	0.136		0.006	0.006
Odisha	HIL		0.008	0.008						
Odisha	TOTAL		12.538	12.538		10.330	10.330		6.393	6.393
Telangana	SCCL		5.348	5.348		7.025	7.025		7.481	7.481
Uttar Pradesh	NCL		2.484	2.484		3.570	3.570		2.684	2.684
West Bengal	ECL	0.010	1.623	1.633	0.010	1.655	1.665	0.007	1.758	1.765
West Bengal	BCCL	0.282	0.254	0.536	0.061	0.498	0.559	0.180	0.530	0.710
West Bengal	IISCO		0.013	0.013		0.014	0.014		0.007	0.007
West Bengal	WBPDC		0.001	0.001						
West Bengal	ICML			0.000						
West Bengal	CESC					0.003	0.003		0.125	0.125
West Bengal	DVC EMTA			0.000						
West Bengal	WBDTCL		0.007	0.007						
West Bengal	SOVA			0.000						
West Bengal	TOTAL	0.292	1.898	2.190	0.071	2.170	2.241	0.187	2.420	2.607
Total Public		6.946	52.155	59.101	8.717	56.059	64.776	11.154	65.061	76.215
Total Private		0.018	0.270	0.288	0.007	0.578	0.585	0.011	0.663	0.674
All India		6.964	52.425	59.389	8.724	56.637	65.361	11.165	65.724	76.889

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

(Quantity in Million Tonnes)

Block	Company	State	2014-15			2015-16			2016-17		
			Coking Coal	Non Coking Coal	Total Coal	Coking Coal	Non Coking Coal	Total Coal	Coking Coal	Non Coking Coal	Total Coal
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Gare Palma IV/2&3	SECL	Chhattisgarh					0.126	0.126		1.142	1.142
Gare Palma IV/1	SECL	Chhattisgarh								0.190	0.190
Parsa East & Kanta Basan	RRUVNL	Chhattisgarh					0.000	0.000		0.000	0.000
Pakri Barwadih	NTPC	Jharkhand								0.127	0.127
Tasra	SAIL/IISCO	Jharkhand					0.000	0.000		0.000	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	0.000	1.459	1.459
Belgaon	SIL	Maharashtra		0.009	0.009		0.011	0.011		0.008	0.008
Chotia	BALCO	Chhattisgarh					0.041	0.041		0.000	0.000
Gare Palma IV/4	HIL	Chhattisgarh					0.057	0.057		0.197	0.197
Gare Palma IV/5	HIL	Chhattisgarh								0.094	0.094
Moher & Moher	SPL	Madhya Pradesh		0.145	0.145		0.326	0.326		0.222	0.222
Amlori Extn											
Sarshatali	CESC	West Bengal					0.003	0.003		0.125	0.125
Talabira I	GMR	Odisha					0.136	0.136		0.006	0.006
Amelia North	JPVL	Madhya Pradesh			0.000					0.001	0.001
Sial Ghogri	RCCPL	Madhya Pradesh								0.010	0.010
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	0.574	0.574	0.000	0.663	0.663
Grand Total			0.041	0.498	0.539	0.000	0.700	0.700	0.000	2.122	2.122

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 2016-17 has already been discussed in Section III. In this section an attempt has been made to discuss pit-head value of coal produced, pit-head (ROM) price, etc. Statement 6.1 provides state wise production and value for coal and lignite for the year 2016-17.

Statement 6.1: State-wise Production (MT) and Value (Million Rs.) of Coal and Lignite for the year 2016-17		
Coal	Production	Value
Assam	0.600	2231.9
Chhattisgarh	138.525	104427.5
Jammu & Kashmir	0.010	59.9
Jharkhand	126.435	135188.0
Maharashtra	40.559	64267.7
Meghalaya	2.308	8585.4
Madhya Pradesh	105.013	148372.8
Odisha	139.359	103882.9
Telangana	61.336	110294.2
Uttar Pradesh	16.056	19731.1
West Bengal	27.667	68470.1
ALL INDIA	657.868	765511.5
Lignite		
Gujarat	10.546	13628.1
Tamilnadu	26.204	51991.8
Rajasthan	8.480	9815.1
ALL INDIA	45.230	75435.0

6.1.2 The total production of coal is the sum up of the production categorized under 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 the last five years.

6.1.3 Table 6.2 provides data on state wise production of coal and its value by sector for captive and non-captive separately. The pit head (run of mine) price of coking coal of Coal India Limited for last a few years and 2016-17 is given in Table 6.5 and 6.6.

The pit head (run of mine) price of non-coking coal of CIL (after adoption of GCV band price since 2012) price has been given in Table 6.8, 6.9, 6.10 and 6.11. Price of Singareni Collieries Company Limited is given in Table 6.12, 6.13 and 6.14.

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	2012-13		2013-14		2014-15		2015-16		2016-17	
	Production	Value	Production	Value	Production	Value	Production	Value	Production	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
COAL :										
Arunachal Pradesh	0.073	483.6								
Assam	0.605	3591.2	0.664	3392.9	0.779	3819.9	0.487	1711.3	0.600	2231.9
Chhattisgarh	117.830	90750.7	127.095	89275.0	134.764	139855.4	130.605	147436.8	138.525	104427.5
Jammu & Kashmir	0.019	40.4	0.019	40.4	0.013	27.6	0.013	27.6	0.010	59.9
Jharkhand	111.274	175665.4	113.091	240509.8	124.143	193135.1	121.067	187369.9	126.435	200571.5
Maharashtra	39.134	62356.8	37.223	57363.5	38.257	67045.4	38.351	65340.3	40.559	64267.7
Meghalaya	5.640	37365.0	5.732	37974.5	2.524	12670.5	3.712	18634.2	2.308	8585.4
Madhya Pradesh	75.948	93737.9	75.590	111792.7	87.609	111478.2	107.714	132254.9	105.013	148372.8
Odisha	110.132	47256.8	112.917	150160.6	123.627	158984.3	138.461	121010.1	139.359	103882.9
Telangana	53.190	91695.8	50.469	73998.0	52.536	109642.6	60.380	122753.5	61.336	110294.2
Uttar Pradesh	16.090	35844.2	14.721	20046.1	14.957	16186.9	12.689	14028.1	16.056	19731.1
West Bengal	26.467	108398.7	28.244	40794.0	29.970	80025.8	25.751	73255.4	27.667	72246.3
ALL INDIA	556.402	747186.6	565.765	825347.5	609.179	892871.7	639.230	883822.1	657.868	834671.2
LIGNITE :										
Gujarat	14.528	14990.9	11.588	12547.1	12.317	17914.6	10.123	14723.5	10.546	13628.1
Tamilnadu	24.844	37346.6	25.056	41992.1	25.190	51122.4	24.227	49168.0	26.204	51991.8
Rajasthan	7.081	2776.6	7.627	5136.1	10.763	12590.0	9.492	11103.3	8.480	9815.1
ALL INDIA	46.453	55114.1	44.271	59675.3	48.270	81627.0	43.842	74994.8	45.230	75435.0

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 2016-17

(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.	0.600	122.754	0.010	119.891	40.406		85.191	139.208	61.336	16.056	25.925	611.377	
		Value	2231.9	94208.0	59.9	185869.5	63615.2		130555.6	103733.8	110294.2	19731.1	71063.2	781362.4	
	Private	Prdn.				6.316			2.308						8.624
		Value				14451.60			8585.41						23037.02
	TOTAL	Prdn.	0.600	122.754	0.010	126.207	40.406		2.308	85.191	139.208	61.336	16.056	25.925	620.001
		Value	2231.9	94208.0	59.9	200321.1	63615.2		8585.4	130555.6	103733.8	110294.2	19731.1	71063.2	804399.4
CAPTIVE	Public	Prdn.		13.591		0.228								13.819	
		Value		7730.1		250.4									7980.5
	Private	Prdn.		2.180			0.153		19.822	0.151			1.742	24.048	
		Value		2489.4			652.5		17817.2	149.1			1183.1	22291.3	
	TOTAL	Prdn.	0.000	15.771	0.000	0.228	0.153	0.000	19.822	0.151	0.000	0.000	1.742	37.867	
		Value	0.0	10219.5	0.0	250.4	652.5	0.0	17817.2	149.1	0.0	0.0	1183.1	30271.8	
TOTAL	Public	Prdn.	0.600	136.345	0.010	120.119	40.406	0.000	85.191	139.208	61.336	16.056	25.925	625.196	
		Value	2231.9	101938.1	59.9	186119.9	63615.2	0.0	130555.6	103733.8	110294.2	19731.1	71063.2	789342.9	
	Private	Prdn.	0.000	2.180	0.000	6.316	0.153	2.308	19.822	0.151	0.000	0.000	1.742	32.672	
		Value	0.0	2489.4	0.0	14451.6	652.5	8585.4	17817.2	149.1	0.0	0.0	1183.1	45328.3	
	Total	Prdn.	0.600	138.525	0.010	126.435	40.559	2.308	105.013	139.359	61.336	16.056	27.667	657.868	
		Value	2231.9	104427.5	59.9	200571.5	64267.7	8585.4	148372.8	103882.9	110294.2	19731.1	72246.3	834671.2	

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. [Price- Rs./ Tonne]

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. [Price- Rs./ Tonne]

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: Information 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. [Price-Rs./ Tonne]

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	

Contd....

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. [Price-Rs./ Tonne]

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	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: Information 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. [Price- Rs./ Tonne]

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 (Unspecified)	01-04-2016 to 31-03-2017			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
ECL (Raniganj)	01-04-2016 to 31-03-2017							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		
BCCL	01-04-2016 to 12-01-2017			2020	1680	1240	1150		
BCCL	13-01-2017 to 31-03-2017			4190	3200	2550	2410		
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		
CCL	01-04-2017 to 13-01-2017			1960	1620	1200	1120		
CCL	14-01-2017 to 31-03-2017			3450	3210	2750	1120		
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			
WCL	01-04-2016 to 31-03-2017			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	01-04-2015 to 31-03-2016							1740	1450
SECL	01-04-2016 to 31-03-2017							1740	1450

Source: Information provided by CIL

As per policy adopted by CIL, during **2016-17**, price of coking coal was notified by the respective subsidiary company and available in website.

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. [Price- Rs./ Tonne]**

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 (Unspecified)	01-04-2016 to 31-03-2017			3110	2590	1910	1780		
ECL (Ranigunj)	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
ECL (Raniganj)	01-04-2016 to 31-03-2017							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		
BCCL	01-04-2016 to 12-01-2017			2630	2180	1610	1500		
BCCL	13-01-2017 to 31-03-2017			5028	3840	3060	2892		
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		
CCL	01-04-2016 to 13-01-2017			2550	2110	1560	1460		
CCL	14-01-2017 to 31-03-2017	4880	4080	3450	3210	2750	2300		
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		
WCL	01-04-2016 to 31-03-2017				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
SECL	01-04-2016 to 31-03-2017							2260	1890

Source : Information provided by CIL. Further details are available in the website of CIL.As per policy adopted by CIL, during **2016-17**, price of coking coal was notified by the respective subsidiary company and available in website.**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), Fertiliser and Defence Sector [Price- Rs./ Tonne]							
		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	01-04-16 to 29-05-16	30-05-16 to 31-03-17
		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G 1	Exceeding 7000	*	*	*	*	*	*	*	*
G 2	Exceeding 6700 and not exceeding 7000	4870	4870	4870	4870	4870	4870	4870	3450
G 3	Exceeding 6400 and not exceeding 6700	4420	4420	4420	3890	3890	3890	3890	3210
G 4	Exceeding 6100 and not exceeding 6400	3970	3970	3970	3490	3490	3490	3490	3000
G 5	Exceeding 5800 and not exceeding 6100	2800	2800	2800	2800	2800	2800	2800	2750
G 6	Exceeding 5500 and not exceeding 5800	1450	1740	1740	1600	1600	1600	1600	1900
G 7	Exceeding 5200 and not exceeding 5500	1270	1520	1520	1400	1400	1400	1400	1600
G 8	Exceeding 4900 and not exceeding 5200	1140	1370	1370	1250	1250	1250	1250	1420
G 9	Exceeding 4600 and not exceeding 4900	880	1060	1060	970	970	970	970	1100
G 10	Exceeding 4300 and not exceeding 4600	780	940	940	860	860	860	860	980
G 11	Exceeding 4000 and not exceeding 4300	640	770	770	700	700	700	700	810
G 12	Exceeding 3700 and not exceeding 4000	600	720	720	660	660	660	660	760
G 13	Exceeding 3400 and not exceeding 3700	550	660	660	610	610	610	610	720
G 14	Exceeding 3100 and not exceeding 3400	500	600	600	550	550	550	550	650
G 15	Exceeding 2800 and not exceeding 3100	460	550	550	510	510	510	510	600
G 16	Exceeding 2500 and not exceeding 2800	410	490	490	450	450	450	450	530
G 17	Exceeding 2200 and not exceeding 2500	360	430	430	400	400	400	400	470

* 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. Further details are available in website.

**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), Fertiliser and Defence [Price- Rs./ Tonne]							
		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	01-04-16 to 29-05-16	30-05-16 to 31-03-17
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G 1	Exceeding 7000	*	*	*	*	*	*	*	*
G 2	Exceeding 6700 and not exceeding 7000	4870	4870	4870	4870	4870	4870	4870	3450
G 3	Exceeding 6400 and not exceeding 6700	4420	4420	4420	3890	3890	3890	3890	3210
G 4	Exceeding 6100 and not exceeding 6400	3970	3970	3970	3490	3490	3490	3490	3000
G 5	Exceeding 5800 and not exceeding 6100	2800	2800	2800	2800	2800	2800	2800	2750
G 6	Exceeding 5500 and not exceeding 5800	1960	2350	2350	2150	2150	2150	2150	2280
G 7	Exceeding 5200 and not exceeding 5500	1720	2050	2050	1890	1890	1890	1890	1920
G 8	Exceeding 4900 and not exceeding 5200	1540	1850	1850	1690	1690	1690	1690	1700
G 9	Exceeding 4600 and not exceeding 4900	1180	1430	1430	1310	1310	1310	1310	1320
G 10	Exceeding 4300 and not exceeding 4600	1050	1270	1270	1160	1160	1160	1160	1180
G 11	Exceeding 4000 and not exceeding 4300	870	1040	1040	950	950	950	950	970
G 12	Exceeding 3700 and not exceeding 4000	810	970	970	890	890	890	890	910
G 13	Exceeding 3400 and not exceeding 3700	740	890	890	820	820	820	820	860
G 14	Exceeding 3100 and not exceeding 3400	680	810	810	740	740	740	740	780
G 15	Exceeding 2800 and not exceeding 3100	620	740	740	680	680	680	680	720
G 16	Exceeding 2500 and not exceeding 2800	550	660	660	610	610	610	610	640
G 17	Exceeding 2200 and not exceeding 2500	490	580	580	540	540	540	540	570

* 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), Fertiliser and Defence Sector). [Price- Rs. / Tonne]**

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	01-04-16 to 29-05-16	30-05-16 to 31-03-17
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
G 1	Exceeding 7000	*	*	*	*	*	*	*
G 2	Exceeding 6700 and not exceeding 7000	4870	4870	4870	4870	4870	4870	3450
G 3	Exceeding 6400 and not exceeding 6700	4420	3890	3890	3890	3890	3890	3210
G 4	Exceeding 6100 and not exceeding 6400	3970	3490	3490	3490	3490	3490	3000
G 5	Exceeding 5800 and not exceeding 6100	2800	2800	2800	2800	2800	2800	2750
G 6	Exceeding 5500 and not exceeding 5800	1740	1760	1920	1920	1920	1920	2280
G 7	Exceeding 5200 and not exceeding 5500	1520	1540	1680	1680	1680	1680	1920
G 8	Exceeding 4900 and not exceeding 5200	1370	1380	1510	1510	1510	1510	1700
G 9	Exceeding 4600 and not exceeding 4900	1060	1070	1170	1170	1170	1170	1320
G 10	Exceeding 4300 and not exceeding 4600	940	940	1030	1030	1030	1030	1180
G 11	Exceeding 4000 and not exceeding 4300	770	770	840	840	840	840	970
G 12	Exceeding 3700 and not exceeding 4000	720	730	800	800	800	800	910
G 13	Exceeding 3400 and not exceeding 3700	660	670	730	730	730	730	860
G 14	Exceeding 3100 and not exceeding 3400	600	610	670	670	670	670	780
G 15	Exceeding 2800 and not exceeding 3100	550	560	610	610	610	610	720
G 16	Exceeding 2500 and not exceeding 2800	490	500	550	550	550	550	640
G 17	Exceeding 2200 and not exceeding 2500	430	440	480	480	480	480	560

* 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 Mines) PRICE (Rupees per Tonne) of Non-Coking Coal of Western Coalfields Ltd. (WCL)

‡ Applicable to Sectors Other than Power Utilities (including IPPs) and Defence Sector). [Price- Rs. /Tonne]

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	01-04-16 to 29-05-16	30-05-16 to 31-03-17
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
G 1	Exceeding 7000	*	*	*	*	*	*	*
G 2	Exceeding 6700 and not exceeding 7000	4870	4870	4870	4870	4870	4870	3450
G 3	Exceeding 6400 and not exceeding 6700	4420	3890	3890	3890	3890	3890	3210
G 4	Exceeding 6100 and not exceeding 6400	3970	3490	3490	3490	3490	3490	3000
G 5	Exceeding 5800 and not exceeding 6100	2800	2800	2800	2800	2800	2800	2750
G 6	Exceeding 5500 and not exceeding 5800	2350	2370	2590	2590	2590	2590	2280
G 7	Exceeding 5200 and not exceeding 5500	2050	2080	2270	2270	2270	2270	1920
G 8	Exceeding 4900 and not exceeding 5200	1850	1860	2030	2030	2030	2030	1700
G 9	Exceeding 4600 and not exceeding 4900	1430	1440	1570	1570	1570	1570	1320
G 10	Exceeding 4300 and not exceeding 4600	1270	1270	1390	1390	1390	1390	1180
G 11	Exceeding 4000 and not exceeding 4300	1040	1050	1150	1150	1150	1150	970
G 12	Exceeding 3700 and not exceeding 4000	970	980	1070	1070	1070	1070	910
G 13	Exceeding 3400 and not exceeding 3700	890	900	980	980	980	980	860
G 14	Exceeding 3100 and not exceeding 3400	810	820	890	890	890	890	780
G 15	Exceeding 2800 and not exceeding 3100	740	750	820	820	820	820	720
G 16	Exceeding 2500 and not exceeding 2800	660	670	730	730	730	730	640
G 17	Exceeding 2200 and not exceeding 2500	580	590	640	640	640	640	570

* 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 : BASIC (RUN OF MINE) PRICE (Rupees per Tonne) OF THE SINGARENI COLLIERIES COMPANY LTD.

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

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 : BASIC (RUN OF MINE) PRICE (Rupees per Tonne) OF THE SINGARENI COLLIERIES COMPANY LTD

Grade of Coal	GCV RANGE	Power Utility Sector				Non-power Sector			
		01-04-16 to 21-05-16	22-05-16 to 27-10-16	28-10-16 to 23-01-17	24-01-17 to 31-03-17	01-04-16 to 21-05-16	22-05-16 to 27-10-16	28-10-16 to 23-01-17	24-01-17 to 31-03-17
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G 1	Above 7000	4680	4680	4680	4680	4680	4680	4680	4680
G 2	6701-7000	4480	4480	4480	4480	4480	4300	4300	4300
G 3	6401-6700	4390	4390	4390	4390	4390	3900	3900	3900
G 4	6101-6400	4340	4340	4340	4340	4340	3600	3600	3600
G 5	5801-6100	4320	4320	3320	3320	4320	3320	3320	3320
G 6	5501-5800	3328	3328	3000	3000	3328	3000	3000	3000
G 7	5201-5500	2600	2600	2600	2600	2600	2600	2600	2600
G 8	4901-5200	2580	2580	2580	2580	2580	2580	2580	2580
G 9	4601-4900	1730	1730	1730	1730	2280	2280	2280	2280
G 10	4301-4600	1610	1610	1610	1610	2130	2130	2130	2130
G 11	4001-4300	1300	1300	1300	1300	1725	1725	1725	1725
G 12	3701-4000	1050	1050	1050	1050	1395	1395	1395	1395
G 13	3401-3700	800	800	800	960	1065	1065	1065	1065
G 14	3101-3400	710	710	710	710	945	945	945	945
G 15	2801-3100	590	590	590	590	795	795	795	795
G 16	2501-2800	550	550	550	550	635	635	635	635
G 17	2201-2500	490	490	490	490	486	486	486	486

Source : Information provided by SCCL, further details available in website.

Section VII

7.1 : 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 2016-17, import of coal by India was 190.953 MT against import of 203.949 MT in 2015-16, thus import decreased by 6.4% over 2015-16. Import of coal, both in quantity and value is shown in Statement 7.1 below.

Statement 7.1: Import of Coal to India in 2016-17		
Type of Coal	Quantity [MT]	Value [Rs. Million]
Coking	41.644	412301
Non-Coking	149.309	590013
Total	190.953	1002314

It may be seen that the share of coking coal in the total quantity was 21.8% but it accounted for 41.1% of the total value of import.

7.4 Statement 7.2 shows country wise import of coal in India in 2016-17. It can be seen that Indonesia with 47.8% share remained the leading supplier followed by Australia 24.4% and South Africa 17.8%. These three countries together accounted for 90.0% **share in the country's import** in 2016-17.

Statement 7.2: Source Country-Wise Import of Coal by India during 2016-17		
Country	Quantity [MT]	Share
Indonesia	91.261	47.79%
Australia	46.654	24.43%
South Africa	33.980	17.79%
U S A	5.097	2.67%
Russia	4.200	2.20%
Mozambique	3.707	1.94%
Canada	2.377	1.24%
Columbia	2.001	1.05%
Chile	0.737	0.39%
Others	0.939	0.49%
Total	190.953	100%

7.5 The break-up of source country wise import for coking and non-coking coal during 2016-17 is given in statement 7.3 and statement 7.4 respectively.

Statement 7.3 Source Country-Wise Import of Coking Coal by India during 2016-17		
Country	Quantity [MT]	Share
Australia	36.503	87.65%
Canada	2.3	5.52%
U S A	1.148	2.76%
Mozambique	0.857	2.06%
New Zealand	0.475	1.14%
Russia	0.287	0.69%
Others	0.074	0.18%
Total	41.644	100%

Statement 7.4 Source Country-Wise Import of Non-Coking Coal to India during 2016-17		
Country	Quantity [MT]	Share
Indonesia	91.261	61.12%
South Africa	33.936	22.73%
Australia	10.151	6.80%
U S A	3.949	2.64%
Russia	3.913	2.62%
Mozambique	2.85	1.91%
Columbia	2.001	1.34%
Others	1.248	0.84%
Total	149.309	100%

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
2012-13	772.84	556.402	145.785
2013-14	769.69	565.765	166.857
2014-15	787.03	609.179	217.783
2015-16	910.00	639.230	203.949
2016-17	884.87	657.868	190.953

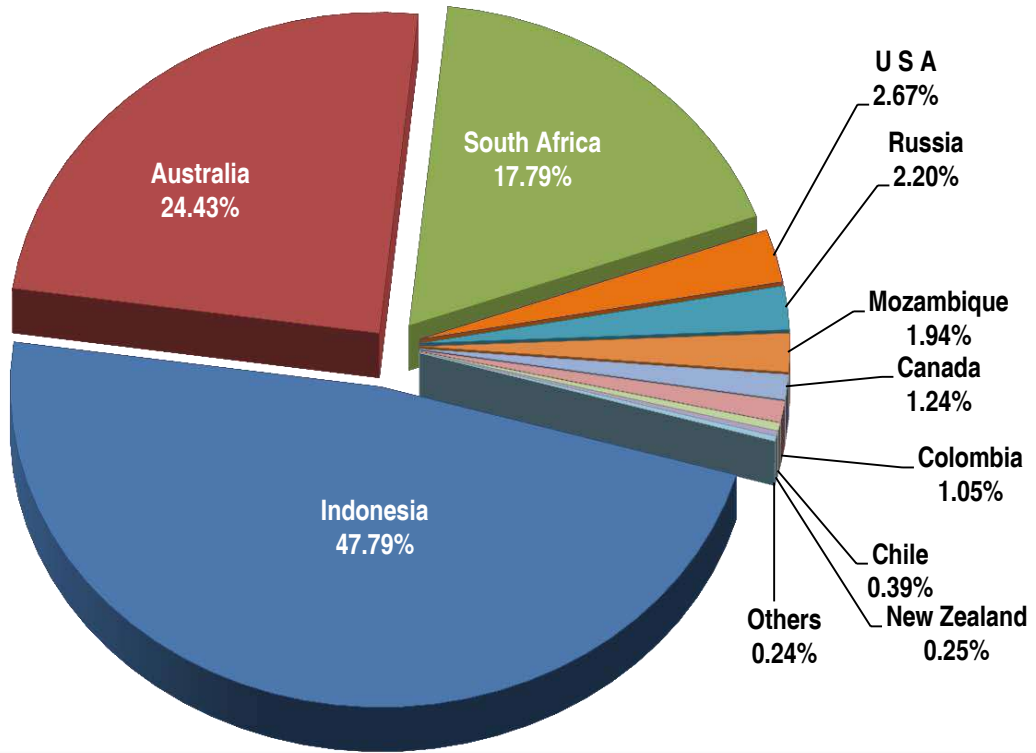
* Source: Annual Plan, MOC

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 2016-17, the export of coal was 1.773 MT and mainly exported to Bangladesh and Nepal, respective share was 59.3% and 36.0%.

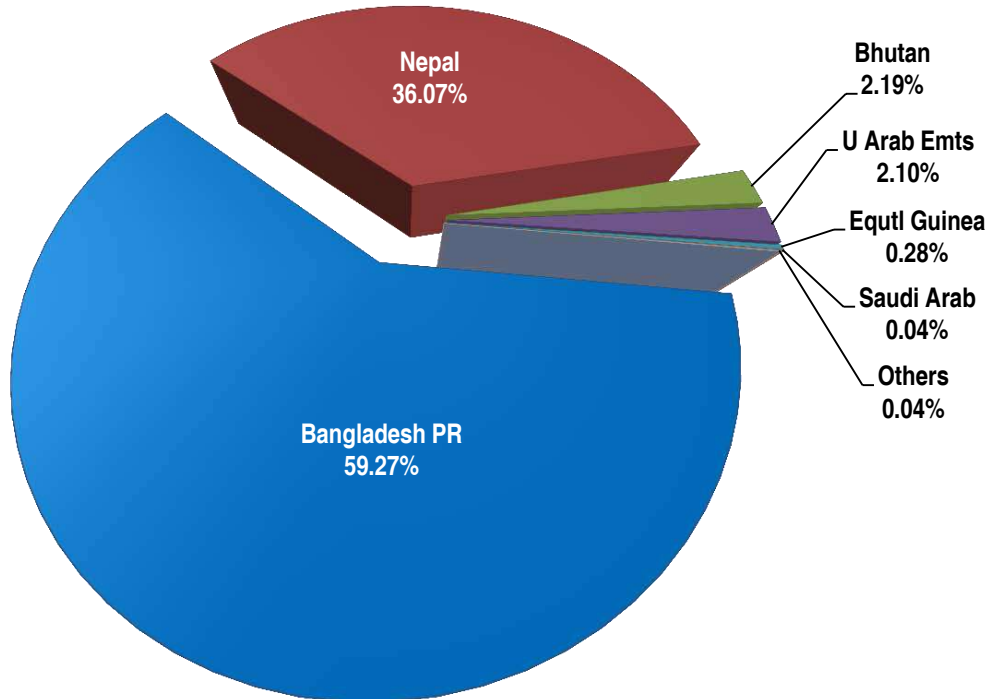
Out of the export, share of coking coal was 0.027 MT and that was exported to Bangladesh Pr. Export to other countries was totally negligible

Statement 7.6: Export of Coal from India by destination countries during 2016-17		
Country	Quantity [MT]	Share
Bangladesh PR	1.051	59.28
Nepal	0.639	36.04
Bhutan	0.039	2.20
United Arab Emts	0.037	2.09
Others	0.007	0.39
Total	1.773	100%

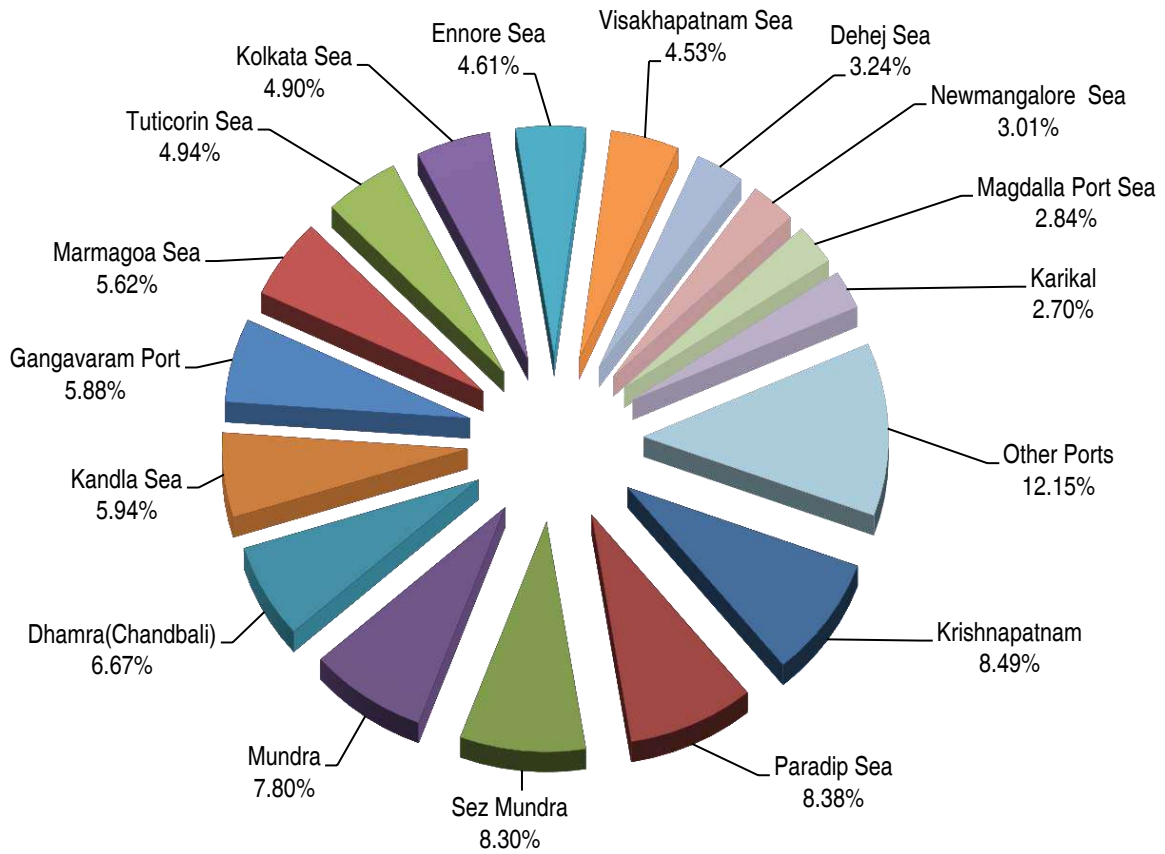
Ch.7.1: SHARE OF COUNTRY WISE IMPORT OF COAL IN 2016-17



Ch.7.2: SHARE OF COUNTRY WISE EXPORT OF COAL IN 2016-17



Ch.7.3 : SHARE OF PORT WISE IMPORT OF COAL IN 2016-17



Ch.7.4 : SHARE OF PORT WISE EXPORT OF COAL IN 2016-17

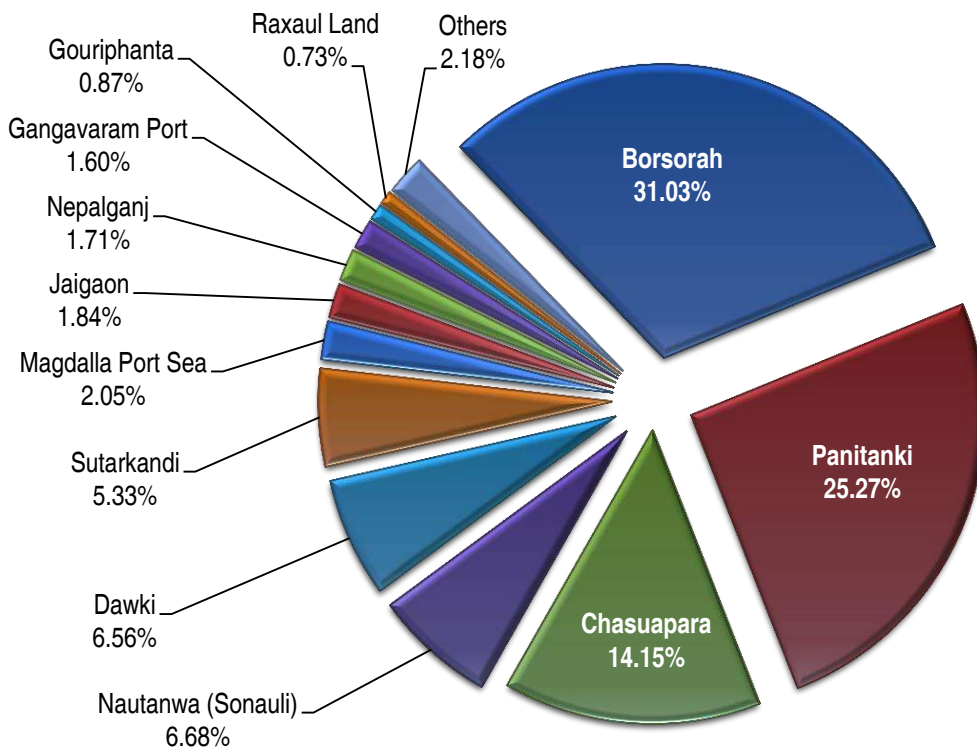


TABLE 7.1 : YEAR WISE IMPORT OF COAL AND COKE TO INDIA DURING LAST TEN YEARS

(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)
2007-08	22.029	121025.25	27.765	86358.39	49.794	207383.63	4.248	51231.15		
2008-09	21.080	226140.12	37.923	187268.24	59.003	413408.35	1.881	46050.69		
2009-10	24.690	201311.00	48.565	190489.00	73.255	391800.00	2.355	33311.00		
2010-11	19.484	208620.70	49.434	206875.09	68.918	415495.80	1.490	31203.55		
2011-12	31.801	424692.34	71.052	363683.49	102.853	788375.83	2.365	47584.54		
2012-13	35.557	378398.09	110.228	490056.94	145.785	868455.02	3.081	56918.82	0.0006	10.22
2013-14	36.872	348318.65	129.985	574973.16	166.857	923291.81	4.171	67994.89	0.0013	23.73
2014-15	43.715	337655.59	174.068	707410.50	217.783	1045066.09	3.294	43806.15	0.0006	17.03
2015-16	44.561	282519.09	159.388	577818.53	203.949	860337.62	3.072	32683.54	0.0010	14.83
2016-17	41.644	412300.61	149.309	590013.33	190.953	1002313.94	4.346	54019.35	0.0191	433.29

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)
2007-08	0.036	84.32	1.591	2683.91	1.627	2768.23	0.097	986.59		
2008-09	0.109	244.96	1.546	3239.60	1.655	3484.56	1.338	7246.43		
2009-10	0.270	695.53	2.180	4346.64	2.450	5042.17	0.129	2080.04		
2010-11	0.111	265.00	1.764	4544.27	1.875	4809.27	0.729	11646.64		
2011-12	0.097	286.72	1.917	5525.35	2.014	5899.72	0.613	11524.78		
2012-13	0.056	302.18	2.387	8349.02	2.443	8651.19	1.201	6017.15	0.0691	360.27
2013-14	0.008	34.94	2.180	10805.12	2.188	10840.07	0.154	1521.38	0.0019	61.13
2014-15	0.042	413.03	1.196	6784.24	1.238	7197.27	0.102	1140.32	0.0028	39.81
2015-16	0.064	650.37	1.511	8348.06	1.575	8998.43	0.149	1493.51	0.0005	8.73
2016-17	0.027	114.53	1.746	9554.72	1.773	9669.25	0.089	1063.43	0.0054	305.12

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 2016-17

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

Country	Coking Coal		Non Coking Coal		Total Coal		Coke & Others Coal Products		Lignite	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Australia	36.503	359402.39	10.151	66737.30	46.654	426139.70	0.623	8579.25		
Belarus					0.000	0.00	0.000	0.30		
Canada	2.300	23780.24	0.077	486.80	2.377	24267.03	0.000	2.61		
Chile			0.737	2179.17	0.737	2179.17				
China P Rp			0.023	399.25	0.023	399.25	2.215	26169.43	0.0191	432.68
Colombia	0.000	0.44	2.001	7428.48	2.001	7428.92	0.226	3421.91		
Estonia					0.000	0.00	0.000	1.54		
Germany			0.000	1.44	0.000	1.44	0.000	0.87		
Indonesia			91.261	319131.58	91.261	319131.58				
Iran	0.001	12.37	0.026	117.80	0.027	130.17				
Ireland					0.000	0.00	0.000	2.07		
Italy					0.000	0.00	0.000	7.86		
Japan			0.000	0.84	0.000	0.84	0.375	4460.92		
Latvia					0.000	0.00	0.006	72.23		
Lithuania					0.000	0.00	0.001	9.40		
Macao			0.004	13.41	0.004	13.41				
Malaysia			0.035	165.73	0.035	165.73				
Mozambique	0.857	9500.86	2.850	11248.29	3.707	20749.16				
Netherland			0.000	1.74	0.000	1.74	0.000	0.29		
New Zealand	0.475	4429.42			0.475	4429.42				
Philippines			0.190	828.99	0.190	828.99				
Poland					0.000	0.00	0.740	8803.77		
Russia	0.287	2302.37	3.913	19999.62	4.200	22301.99	0.114	1580.17		
Saudi Arab			0.048	127.40	0.048	127.40				
South Africa	0.044	494.04	33.936	140688.49	33.980	141182.53				
U Arab Emts			0.000	0.52	0.000	0.52				
U K	0.002	44.92	0.001	21.83	0.003	66.74	0.000	3.58		
U S A	1.148	12006.43	3.949	19459.35	5.097	31465.78			0.0000	0.61
Ukraine			0.054	337.74	0.054	337.74	0.047	903.15		
Vietnam Soc Rep			0.054	637.55	0.054	637.55				
Virgin Is Us	0.020	286.88			0.020	286.88				
Unspecified	0.006	40.25			0.006	40.25				
TOTAL	41.644	412300.61	149.309	590013.33	190.953	1002313.94	4.346	54019.35	0.0191	433.29

Source: DGCI & S, KOLKATA

TABLE 7.4 : DESTINATION COUNTRY-WISE EXPORT OF COAL, COKE AND LIGNITE TO INDIA DURING 2016-17

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

Country	Coking Coal		Non Coking Coal		Total Coal		Coke & Others Coal Products		Lignite	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Australia				0.00	0.000	0.00				
Azerbaijan					0.000	0.00			0.0000	2.37
Bangladesh Pr	0.027	114.05	1.024	4812.07	1.051	4926.13	0.0021	26.51		
Bhutan	0.000	0.39	0.039	349.41	0.039	349.80	0.0324	549.20	0.0030	52.19
Cote D' Ivoire			0.000	0.03	0.000	0.03				
Egypt A Rp					0.000	0.00	0.0001	1.09		
Equitl Guinea			0.005	16.87	0.005	16.87				
Ethiopia					0.000	0.00	0.0000	0.43		
Gabon					0.000	0.00		0.00		
Greece					0.000	0.00	0.0000	0.44		
Italy					0.000	0.00	0.0000	0.29		
Japan					0.000	0.00		0.00		
Jordan			0.000	0.41	0.000	0.41	0.0004	8.05		
Kuwait					0.000	0.00	0.0001	0.96		
Madagascar			0.000	2.71	0.000	2.71				
Malaysia			0.000	2.92	0.000	2.92				
Maldives				0.02	0.000	0.02				
Nepal	0.000	0.08	0.639	4223.07	0.639	4223.15	0.0453	327.84		
Nigeria					0.000	0.00	0.0001	2.37		
Oman			0.000	1.11	0.000	1.11	0.0020	38.10	0.0002	31.02
Pakistan Ir					0.000	0.00	0.0043	68.62	0.0002	7.74
Qatar			0.000	0.17	0.000	0.17	0.0000	0.06		
Russia					0.000	0.00			0.0001	11.98
Saudi Arab			0.001	16.47	0.001	16.47	0.0006	11.98	0.0016	167.10
Singapore			0.000	1.31	0.000	1.31			0.0001	11.78
South Africa					0.000	0.00	0.0001	4.79		
Sri Lanka Dsr					0.000	0.00	0.0003	7.28	0.0001	1.33
Sudan			0.000	0.35	0.000	0.35	0.0002	3.13		
Tanzania Rep			0.000	1.06	0.000	1.06	0.0001	1.06		
Thailand					0.000	0.00			0.0001	18.98
U Arab Emts			0.037	126.72	0.037	126.72	0.0006	11.16	0.0000	0.19
U S A				0.00	0.000	0.00			0.0000	0.44
Uganda					0.000	0.00	0.0000	0.06		
Unspecified					0.000	0.00				
TOTAL	0.027	114.53	1.746	9554.72	1.773	9669.25	0.0887	1063.43	0.0054	305.12

Source: DGCI & S , KOLKATA

TABLE 7.5 : PORT WISE IMPORT OF COAL, COKE & LIGNITE TO INDIA DURING 2016-17

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

Port	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)
Appiic Multi Prod Sez Vizag Dc			0.085	279.76	0.085	279.76	0.0343	378.23		
Bangalore Airport	0.000	0.02		0.00	0.000	0.02				
Bedi Sea			4.055	12825.57	4.055	12825.57				
Bhavnagar			0.599	2308.14	0.599	2308.14				
Chennai Air				0.10	0.000	0.10				
Chennai Sea	0.001	31.40	0.021	354.16	0.022	385.56	0.0009	15.75		
Cochin Sea			0.044	165.59	0.044	165.59	0.0005	6.71		
Dehej Sea			6.184	24558.04	6.184	24558.04				
Delhi Air	0.000	0.01		0.05	0.000	0.07				
Dhamra(Chandbali)	7.119	69650.39	5.615	27417.71	12.734	97068.10				
Dharmatar Sea	0.643	7820.72	1.386	5889.53	2.029	13710.25	0.1263	1693.14		
Ennore Sea	0.222	1356.01	8.581	30252.71	8.803	31608.72				
Gangavaram Port	4.920	48841.34	6.317	23258.69	11.237	72100.03	0.0230	359.67		
Hazira Port, Surat	0.000	2.24	3.943	12883.39	3.943	12885.63				
Hetero Infra Sez Nakkapalli Ap			0.015	26.07	0.015	26.07				
Hyderabad Airport	0.000	0.01			0.000	0.01				
ICD Bangalore					0.000	0.00	0.0000	0.51		
ICD Bhusawal					0.000	0.00	0.0052	66.78		
ICD Garhiharsaru					0.000	0.00		0.02		
ICD Nagpur			0.002	38.87	0.002	38.87				
ICD Patli					0.000	0.00		0.05		
ICD Sabarmati					0.000	0.00	0.0000	0.61		
Jabilant Infra Ltd Kandla			0.035	94.22	0.035	94.22				
Jaigad	0.540	5718.87	2.517	11920.74	3.057	17639.61	0.0390	456.67		
Jakhav			0.054	228.35	0.054	228.35				
Kakinada Sea			1.041	3194.22	1.041	3194.22	0.0107	80.99		
Kandla Sea	0.427	3647.08	10.909	42266.23	11.336	45913.31	0.1302	1600.87		
Karikal	0.631	7194.30	4.523	17797.64	5.154	24991.94				
Kolkata Air		0.07			0.000	0.07				
Kolkata Sea	5.329	51523.55	4.027	18444.61	9.356	69968.16	0.4451	4635.33	0.0001	1.56
Krishnapatnam	2.093	17404.63	14.117	53404.63	16.210	70809.27	0.1475	2511.73		
Magdalla Port Sea	1.046	7363.41	4.375	18307.96	5.421	25671.37	1.1422	13170.38		
Marmagoa Sea	5.421	58675.26	5.316	29656.14	10.737	88331.41	0.9671	13500.12		
Muldwarka			0.102	297.24	0.102	297.24				
Mumbai Air	0.000	0.65	0.000	0.35	0.000	1.00		0.02		
Mumbai Sea			2.458	10656.81	2.458	10656.81				
Mundra	0.921	8073.03	13.972	55032.30	14.893	63105.33				
Naliya, Bhuj			0.224	714.19	0.224	714.19				
Navlakhi			2.840	8187.98	2.840	8187.98				
Newmangalore Sea	0.017	200.35	5.735	25744.56	5.752	25944.90	0.3992	5000.06		
Nhava Sheva Sea	0.000	11.27	0.003	75.49	0.004	86.76	0.0016	23.77	0.0000	0.65
Okha	0.149	1132.54	0.547	2635.98	0.696	3768.52				
Opgs Gandhidham			0.355	804.87	0.355	804.87				
Paradip Sea	8.080	80857.49	7.918	35013.17	15.998	115870.65	0.5485	6226.49		
Pipavab(Vicyor)	0.030	197.61	1.075	4281.12	1.105	4478.72	0.0804	1414.08	0.0190	431.08
Porbandar			0.085	299.69	0.085	299.69				
Ramki Pharma City (India) Pvt			0.010	20.56	0.010	20.56				
Revdanda			0.310	1000.77	0.310	1000.77				
Sez Dahej			0.025	77.30	0.025	77.30				
Sez Mundra			15.855	60599.70	15.855	60599.70				
Tuticorin Sea			9.439	33456.02	9.439	33456.02	0.0046	87.56		
Visakhapatnam Sea	4.054	42598.34	4.597	15542.10	8.651	58140.45	0.2402	2789.81		
Unspecified					0.000	0.00				
TOTAL	41.644	412300.61	149.309	590013.33	190.953	1002313.94	4.346	54019.35	0.0191	433.29

Source: DGC&S, KOLKATA

TABLE 7.6 : PORT WISE EXPORT OF COAL, COKE & LIGNITE TO INDIA DURING 2016-17

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

Port	Coking Coal		Non-Coking Coal		Total Coal		Coke & Coal Products		Lignite	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Bairgania			0.000	2.82	0.000	2.82				
Barhni			0.006	43.32	0.006	43.32	0.0141	111.88		
Borsorah	0.027	114.05	0.524	2481.68	0.550	2595.74				
Chasuapara			0.251	1248.64	0.251	1248.64				
Chengrabandha										
Rly.Station			0.000	1.81	0.000	1.81				
Chennai Sea			0.000	2.97	0.000	2.97			0.0000	0.19
Cochin Sea			0.000	0.17	0.000	0.17				
Dalu			0.008	38.76	0.008	38.76				
Dawki			0.116	501.04	0.116	501.04				
Delhi (Icd)				0.01	0.000	0.01				
Delhi Air					0.000	0.00		0.00		
Gangavaram Port			0.028	109.44	0.028	109.44				
Ghajadanga					0.000	0.00	0.0008	9.73		
Golokgans Rly.Stn			0.002	12.00	0.002	12.00				
Gouriphanta			0.015	112.67	0.015	112.67				
Hatisar (Deosiri)			0.006	56.95	0.006	56.95				
Hili (West)			0.000	0.67	0.000	0.67				
Icd Irgur			0.000	0.03	0.000	0.03				
Icd Nagpur			0.000	1.58	0.000	1.58	0.0000	0.03		
Icd Sabarmati			0.000	0.15	0.000	0.15				
Jaigad			0.005	16.87	0.005	16.87				
Jaigaon	0.000	0.39	0.033	292.47	0.033	292.86	0.0324	549.20	0.0030	52.19
Jogbani			0.003	17.21	0.003	17.21	0.0009	7.10		
Joynagar			0.001	4.02	0.001	4.02				
Kattupalli Port/ Tiruvallur			0.000	1.10	0.000	1.10				
Kolkata Air				0.00	0.000	0.00				
Kolkata Sea			0.000	0.74	0.000	0.74	0.0001	4.79		
L C S Khunwa			0.004	35.23	0.004	35.23				
Magdalla Port Sea			0.036	109.97	0.036	109.97				
Mumbai Air				0.00	0.000	0.00		0.00		
Mundra			0.001	17.32	0.001	17.32	0.0064	110.03	0.0014	165.63
Nautanwa (Sonauli)			0.118	521.59	0.118	521.59	0.0065	50.95		
Nepalganj			0.030	230.15	0.030	230.15	0.0035	27.91		
Nhava Sheva Sea			0.001	19.01	0.001	19.01	0.0003	5.67	0.0010	87.11
Panitanki			0.448	3178.75	0.448	3178.75	0.0102	60.45		
Petrapole Land			0.000	0.55	0.000	0.55	0.0013	16.79		
Pipraun			0.000	0.14	0.000	0.14				
Raxaul Land	0.000	0.08	0.013	71.18	0.013	71.26	0.0101	69.55		
Sutarkandi			0.094	417.39	0.094	417.39				
Tikunia			0.000	2.79	0.000	2.79				
Toothibari, Maharajganj			0.000	3.19	0.000	3.19				
Tuticorin Sea			0.000	0.34	0.000	0.34	0.0000	0.29		
Visakhapatnam Sea					0.000	0.00	0.0020	39.06		
Unspecified					0.000	0.00				
Total	0.027	114.53	1.746	9554.72	1.773	9669.25	0.089	1063.43	0.0054	305.12

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 2016-17, the consumption of indigenous coking coal was 6.648 MT and that of imported coking coal was 21.534 MT. The corresponding figures for 2015-16 were 5.831 MT and 20.979 MT respectively. In 2016-17, in case of indigenous coking coal used by integrated steel plants, TISCO accounted for the consumption of 3.295 MT followed by SAIL 2.857 MT and 0.496 MT by VSP. In case of consumption of imported coking coal in 2016-17, consumption by SAIL 12.056 MT, TISCO 5.548 MT and VSP 3.930 MT.

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 2016-17. It may be seen that the total capacity of the coking coal washeries was 32.49 MTA. The share of public sector was 24.70 MTA and private sector 7.79 MTA.

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 of 2014-15, 2015-16 and 2015-16 having washed coking coal production of 6.072 MT 6.179 MT and

6.413 MT respectively. The corresponding yield percentages were 44%, 43% and 46% 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 2016-17. It can be seen that the total power generating capacity has increased from 105046 MW as on 31.03.2002 to 326832 MW as on 31.03.2017. In total power generating capacity as on 31-03-2017, mode wise share was thermal power 218330 MW, hydro power 44478 MW, renewable energy sources 57244 MW and nuclear power 6780 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 2016-17 was 1235358 MKwH.

8.4 Cement

8.4.1 : Table 8.9 provides further details on cement and clinker capacity, production and capacity utilization in the country from the year 2000-01 to 2011-12. However, due to non-availability of data as a whole from **Cement Manufacturer's Association of India** since 2012-13, like previous years, state wise details of production, capacity etc. could not be incorporated since 2012-13.

8.4.2 Table 8.10 provides details of consumption of coal and fuel in cement sector for the period 2001-02 to 2016-17. As per information available from the **Cement Manufacturer's Association of India**, it may be observed that in 2016-17, the total consumption of coal (including lignite) in cement sector was 21.26 MT in the form of coal for kilns 10.62 MT, lignite 0.07 MT and pet coke 10.57 MT. The consumption by captive power plant in cement industry was 7.28 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 17.24 MT.

8.5 Some Key indicators for 2016-17

Installed Capacity of Coal Based Power Plants (Utilities) as on 31.03.2017	192163 MW
Electricity generation from coal based power plants in 2016-17 (Utilities)	944022 MKwH
Installed capacity of Coking Coal Washeries in 2016-17	32.49 MTA
Production of Washed Coking Coal in 2016-17	6.072 MT
Installed capacity of Non-coking Coal Washeries in 206-17	105.24 MT
Production of Washed Non-coking Coal in 2016-17	45.122 MT

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

('000' Tonnes)

PLANT	ITEM	2016-17						2015-16					
		INDIGENOUS			IMPORTED	TOTAL COKING	Boiler Coal	INDIGENOUS			IMPORTED	TOTAL COKING	Boiler Coal
		Prime	Medium	Total				Prime	Medium	Total			
BHILAI (B.S.P.)	Opn. Stock	45	11	56	85	141	32	0	52	52	90	142	68
	Receipt	593	391	984	3790	4774	321	198	501	699	4251	4950	301
	Consumption	664	412	1076	3767	4843	306	149	581	730	4305	5035	324
	Cls. Stock	19	26	45	86	131	33	45	11	56	85	141	32
ROURKELA (R.S.P.)	Opn. Stock	15	4	19	73	92	110	3	19	22	74	96	83
	Receipt	237	105	342	2599	2941	1213	138	94	232	2807	3039	1300
	Consumption	261	99	360	2626	2986	1260	123	126	249	2795	3044	1330
	Cls. Stock	10	10	20	45	65	622	15	4	19	73	92	110
DURGAPUR (D.S.P.)	Opn. Stock	8	2	10	36	46	34	2	2	4	35	39	47
	Receipt	334	94	428	1556	1984	713	265	124	389	1643	2032	812
	Consumption	315	113	428	1610	2038	755	210	182	392	1664	2056	873
	Cls. Stock	5	7	12	23	35	32	8	2	10	36	46	34
BOKARO (B.S.L.)	Opn. Stock	46	5	51	61	112	103	9	10	19	105	124	73
	Receipt	478	253	731	2371	3102	1854	253	259	512	2907	3419	1933
	Consumption	459	265	724	2532	3256	1929	187	278	465	3148	3613	1869
	Cls. Stock	15	31	46	65	111	23	46	5	51	61	112	103
I.S.P.	Opn. Stock	19	0	19	40	59	2	3	0	3	36	39	9
	Receipt	250	7	257	1438	1695	45	266	0	266	1428	1694	112
	Consumption	262	7	269	1521	1790	62	241	0	241	1361	1602	128
	Cls. Stock	11	1	12	42	54	5	19	0	19	40	59	2
SAIL TOTAL	Opn. Stock	133	22	155	295	450	281	17	83	100	340	440	280
	Receipt	1892	850	2742	11754	14496	4146	1120	978	2098	13036	15134	4458
	Consumption	1961	896	2857	12056	14913	4312	910	1167	2077	13273	15350	4524
	Cls. Stock	60	75	135	261	396	715	133	22	155	295	450	281
T.I.S.CO.	Opn. Stock	-	-	0	986	986	-	-	-	137	1340	1477	-
	Receipt	-	-	3181	5751	8932	-	-	-	3413	3174	6587	-
	Consumption	-	-	3295	5548	8843	-	-	-	3367	3636	7003	-
	Cls. Stock	-	-	215	1126	1341	-	-	-	183	878	1061	-
V.S.P.	Opn. Stock	0	196	196	458	654	193	0	197	197	398	595	77
	Receipt	0	345	345	3811	4156	1755	0	386	386	4131	4517	1545
	Consumption	0	496	496	3930	4426	1850	0	387	387	4070	4457	1429
	Cls. Stock	0	45	45	340	385	98	0	196	196	458	654	193
GRAND TOTAL	Opn. Stock	133	218	351	1739	2090	474	17	280	434	2078	2512	357
	Receipt	1892	1195	6268	21316	27584	5901	1120	1364	5897	20341	26238	6003
	Consumption	1961	1392	6648	21534	28182	6162	910	1554	5831	20979	26810	5953
	Cls. Stock	60	120	395	1727	2122	813	133	218	534	1631	2165	474

Table-8.2: Trends of Consumption of Coking Coal by type, Hot Metal Production and Various Operative Ratio
(Figs. in Thousand Tonnes)

Steel Plants	Year	Prime coking		Medium coking		Blendable		Imported Coking		Total Coking Coal		Hotmetal Production
		Quantity	Blend ratio	Quantity	Blend ratio	Quantity	Blend ratio	Quantity	Blend ratio	Quantity	Blend ratio	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
BSP	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
	2016-17	664	13.7	412	8.5	0	0.0	3767	77.8	4843	100.0	5041
BSL	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
	2016-17	459	14.1	265	8.1	0	0.0	2532	77.8	3256	100.0	3411
DSP	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
	2016-17	315	15.5	113	5.5	0	0.0	1610	79.0	2038	100.0	2317
Rourkela	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
	2016-17	261	8.7	99	3.3	0	0.0	2626	87.9	2986	100.0	3094
ISP	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
	2016-17	262	14.6	7	0.4	0	0.0	1521	85.0	1790	100.0	1811
DPL	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
	2015-16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2016-17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VSP(RINL)	2012-13	0	0.0	503	11.2	0	0.0	3996	88.8	4499	100.0	3814
Visakhapatnam	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
	2016-17	0	0.0	496	11.2	0	0.0	3930	88.8	4426	100.0	4386
TISCO Jamshedpur	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
2016-17	0.0	0.0	0.0	0.0	3295	47.5	5548	80.0	6935	127.5	13051	

TABLE 8.3: COKING COAL WASHERIES IN INDIA DURING 2016-17

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
		Sudamdih	1981	Pr. Ckg.	Jharkhand	Jharia	1.60
		Moonidih	1983	Pr. Ckg.	Jharkhand	Jharia	1.60
		Mahuda	1990	Md. Ckg.	Jharkhand	Jharia	0.63
		Madhuband	1998	Pr. Ckg.	Jharkhand	Jharia	2.50
							10.03
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.						23.30
Public	Steel Authority of India Ltd.	Chasnala	1969	Coking	Jharkhand	Dhanbad	1.40
Total Public							24.70
Private	Tata Steel Ltd.	W.Bokaro-II	1984	Md. Ckg.	Jharkhand	Ramgarh	2.41
		W.Bokaro-III	1994	Md. Ckg.	Jharkhand	Ramgarh	3.08
		Jamadoba	1957	Pr. Ckg.	Jharkhand	Jamaboda	1.30
		Bhelatand	1995	Pr. Ckg.	Jharkhand	Bhelatand	1.00
							7.79
Total Private							7.79
Grand Total							32.49

TABLE 8.4: COKING COAL WASHERY PERFORMANCE IN LAST THREE YEARS

(Figs. in Thousand Tonnes)

Year	Owner Company	Raw Coal Feed	Washed Coal	Yield (%)
			Prod.	Washed Coal
(1)	(2)	(3)	(4)	(5)
2016-17	BCCL	2471	1182	48
	CCL	3310	1139	34
	WCL	84	41	49
	Total CIL	5865	2362	40
	SAIL	1258	712	57
	Total Public	7123	3074	43
	TSL (Private)	6845	3339	49
	Total Private	6845	3339	49
	Grand Total	13968	6413	46
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	

TABLE 8.5: NON COKING COAL WASHERY IN INDIA DURING 2016-17

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	Central Coalfields Ltd.	Gidi	1970	Non-Coking	Jharkhand	Hazaribagh	2.50
		Piparwar	1997	Non-Coking	Jharkhand	Chatra	6.50
							9.00
	Northern Coalfields Ltd.	Bina Deshelling	1999	Non-Coking	U.P.	Sonebhadra	4.50
All Coal India Ltd.						13.50	
Total Public			Non-Coking				13.50
	ADANI ENTERPRISES LTD.	AEL	2012-13	Non-Coking	Chhatisgarh	Parsa	10.00
	ARYAN COAL BENEFICATION (INDIA) LTD.	CHAKABUWA	2004	Non-Coking	Chhatisgarh	Korba	7.50
		DIPKA	1999-2000	Non-Coking	Chhatisgarh	Korba	14.50
		PANDER PAUNI	2003-04	Non-Coking	Maharashtra	Bollarpur	2.62
		GEVRA	2007-08	Non-Coking	Chhatisgarh	Korba	6.25
		BINJHRI	2010-11	Non-Coking	Chhatisgarh	Korba	4.80
	ARYAN ENERGY PVT. LTD.	HIMGIR	2011-12	Non-Coking	Orissa	Hemgir	5.00
		TALCHER	2003	Non-Coking	Orissa	Talcher	2.34
		RKP	2014	Non-Coking	Telangana	Mandamarri	1.00
	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
	JINDAL POWER LTD.	JPL	2013	Non-Coking	Chhatisgarh	Raigarh	4.75
	KARTIKAY COAL WASHERIES PVT LTD	WANI	2005-06	Non-Coking	Maharashtra	Wardha	2.50
	SPECTRUM COAL & POWER LTD	RATIJA	1999	Non-Coking	Chhatisgarh	Korba	11.00
	SPECTRUM COAL & POWER LTD	TALCHER	2015	Non-Coking	Orissa	Bharatpur	9.52
Total Private						91.74	
Grand Total						105.24	

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

(Figs. in Th. Tonnes)

Year	Company	Raw Coal Feed	Washed Coal Production	Yield (%)
(1)	(2)	(3)	(4)	(5)
2016-17	CCL	9304.00	8942.00	96.11
	NCL	3461.79	3155.29	91.15
	Total CIL	12765.79	12097.29	94.76
	Total Public	12765.79	12097.29	94.76
	ADANI ENTERPRISES LTD.	8267.00	7414.91	89.69
	ARYAN COAL BENEFICATION PVT.LTD.	14681.61	11862.73	80.80
	ARYAN ENERGY PVT. LTD.	1845.93	1284.58	69.59
	GLOBAL COAL & MINING PVT. LTD.	4481.89	3082.98	68.79
	JINDAL POWER LIMITED	505.81	379.26	74.98
	SPECTRUM COAL & POWER LTD.	11408.03	9000.17	78.89
	Total Private	41190.27	33024.63	80.18
	Grand Total	53956.06	45121.92	83.63
	2015-16	CCL	9273.20	8652.57
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
	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	

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 9TH 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 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)	42843	213861	30327	13340	257528	5780	47292	353442
Utilities	42784	185173	24509	993	210675	5780	45924	305163
Non-Utilities	59	28688	5818	12347	46853	0	1368	48279
31.03.2017 (Utilities+Non-Utilities)								
Utilities	44478	192163	25329	838	218330	6780	57244	326832
Non-Utilities								

Note:

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

(ii) Renewable Energy Sources includes Small Hydro Project, Biomass Gasifier, Biomass Power, Urban & 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)
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	110	136721	21083	8412	166216	0	2046	168372
	Total	121487	1032061	68205	8969	1109235	37414		1335963
2016-17	Utilities	122378	944022	49094	400	993516	37916	81548	1235358
	Non Utilities								
	Total	122378	944022	49094	400	993516	37916		1235358

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					
2016-17	All India					

Source : Cement Manufacturers' Association

TABLE 8.10: CONSUMPTION OF COAL AND FUEL IN CEMENT SECTOR FROM 2000-01 TO 2016-17

(Quantities are in Million Tonnes)

Year	Coal Receipt				Pet coke / Lignite Purchase	Annual Fuel Procurement	Consumption					Annual Fuel Consumption	Cement Production	Fuel cement Ratio** (%)	Fuel Clinker Ratio** (%)
	Against Linkage	From Market	Imported*	Total			Coal for Kilns	Lignite	Pet Coke	Total	CPP				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
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	22.1	6.14	29.95	13.21	1.7	6.14	21.05	8.52	29.57	270.24	N. A.	N. A.
2015-16	7.06	2.71	10.51	20.3	9.42	29.7	11.28	1.04	8.38	20.7	8.34	29.04	283.23	N. A.	N. A.
2016-17	5.31	3.46	8.47	17.2	11.05	28.29	10.62	0.07	10.57	21.26	7.28	28.54	-	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

9.1 Captive Coal Blocks

9.1.1 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.

9.1.2 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 Bidding. As on 31.03.2017 reallocation (either vested, allotted or Custodian) were done in respect of 84 coal blocks. Out these 84 coal blocks, 10 blocks started production. 03 more blocks given to CIL as Custodian had started production. Moher & Moher Amlori was already continuing production. Pakri-Barwardi of NTPC which was also not cancelled, started production. In 2016-17, production from those Captive Coal Blocks was 37.434 MT.

9.1.3 Further, out of non-cancelled 14 coal blocks, allocation of four coal blocks for UMPPs, namely, Chhatrasal coal block was cancelled on 07.05.2015 and Meenakshi, Meenakshi B and Dip side of Meenakshi blocks of UMPP were cancelled on 15.12.2015. As such as on 31.03.2017, 10 coal blocks allocated through earlier dispensations stand allocated.

9.1.4 **Under the "Auction by Competitive Bidding Rules, 2012", 13 regionally explored** coal blocks have been allotted to Central/State Government companies up to 31.03.2017.

Therefore, as on 31.03.2017, numbers of coal blocks stand exist as 107 (vested/allotted -77 + Custodian – 07 + Under Auction by Competitive Bidding Rules, 2012 – 13 and blocks allocated through earlier dispensations – 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 2016-17

Sector	End Use	No of blocks	Geological/Extractable Reserves (Qty. in MT)
(1)	(2)	(3)	(4)
A. COAL BLOCKS			
Public Sector Undertakings	Power	52	15232.31
	Commercial Mining	10	1138.70
	NRS	6	494.15
	TOTAL	68	16865.16
Private Companies	Power	8	805.317
	UMPP	8	3730.54
	NRS	23	586.59
	TOTAL	39	5122.447
ALL INDIA	Power	60	16037.627
	Commercial Mining	10	1138.70
	UMPP	8	3730.54
	NRS	29	1080.74
	TOTAL	107	21987.61
B. LIGNITE BLOCKS			
State PSU	Power	10	1027.60
	Commercial	9	462.40
	Subtotal	19	1490.00
Private	Power	1	44.70
	Commercial	1	7.80
	Subtotal	2	52.50
ALL INDIA	Power	11	1072.3
	Commercial	10	470.2
	Grand Total	21	1542.50

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 9.2: Yearwise and Sectorwise Allotment of Captive Coal Blocks stand allocated/vested Under Custodian excluding blocks allotted under auction by Competitive Bidding Rules, 2012 during 2016-17

(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	251.880
1998									0	0.000
2004	1	1436.00							1	1436.000
2006			2	575.00					2	575.000
2007			1	916.52					1	916.520
2008			1	100.00					1	100.000
2009			3	1339.02					3	1339.020
2010			1	800.00					1	800.000
2015	43	8008.83			24	606.51	7	364.860	74	8980.200
2016	2	199.330			4	222.35	1	602.000	7	1023.680
2017	1	393.60							1	393.600
Total	47	10037.76	8	3730.54	29	1080.74	8	966.86	92	15815.90

Note :

GR=Geological Reserves as estimated during allocation.

GR quantities are GR value as available with this office and subject to change for few blocks with approval of Mine Plan. 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 2016-17

(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
Telangana	1	45.36							1	45.36
Chhattisgarh	12	4116.550	2	1113.67	5	172.05	4	449.800	23	5852.07
Jharkhand	15	4885.330	2	1141.87	11	469.91			28	6497.11
Maharashtra	7	430.35	1	100.00	5	46.04	1	11.54	14	587.93
Madhya Pradesh	2	925.60	2	575.00	5	202.44	2	11.67	11	1714.71
Odisha	13	5305.160	1	800.00	2	171.370	2	660.90	18	6937.43
West Bengal	10	329.28			1	18.93			11	348.21
Total	60	16037.63	8	3730.54	29	1080.74	10	1138.7	107	21987.61

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 2016-17

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
TOTAL MAHARASHTRA		1		11.54			
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			
TOTAL		7		364.863			

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	No. of blocks	Allotted / Vested	Date of allotment	Estimated GR (in MT)	Specified EUP
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	Kente Extn	Chattisgarh	Rajasthan Rajya Vidyut Utpadan Nigam Ltd	1	Allotted	31.03.2015	200.00	Power
2	Tentuloi	Odisha	Odisha Thermal Power Corp Ltd	1	Allotted	31.03.2015	1234.00	Power
3	Gondbahera- Ujjeni	Madhya Pradesh	Madhya Pradesh Power Generating Company Ltd.	1	Allotted	31.03.2015	532.00	Power
4	Kudanali-Luburi	Odisha	NTPC Ltd. and Jammu & Kashmir State Power Development Corp Ltd	1	Allotted	31.03.2015	396.00	Power
5	Banai	Chattisgarh	NTPC Ltd	1	Allotted	31.03.2015	629.00	Power
6	Bhalumuda	Chattisgarh	NTPC Ltd	1	Allotted	31.03.2015	550.00	Power
7	Sarapal-Nuapara	Odisha	Andhra Pradesh Power Generation Corp Ltd	1	Allotted	24.02.2016	701.00	Power
8	Chandrabila	Odisha	Tamil Nadu Generation & Distribution Corp Ltd	1	Allotted	24.02.2016	550.00	Power
9	Mahajanwadi	Maharashtra	Madhya Pradesh Power Generation Corp Ltd	1	Allotted	24.02.2016	340.00	Power
10	Kalyanpur-Badalpara	Jharkhand	Haryana Power Generation Corp Ltd	1	Allotted	24.02.2016	102.00	Power
11	Kerwa	Chattisgarh	Kerwa Coal Limited (Joint Venture of Chhattisgarh Mineral Development Corpn. and M.P. State Mining Corporation Ltd.)	1	Allotted	21.07.2016	112.94	Commercial Mining
12	Brahmani	Odisha	Orissa Minerals Development Company	1	Allotted	21.07.2016	58.90	Commercial Mining
13	Pachwara South	Jharkhand	M/s. Neyveli Uttar Pradesh Power Limited (JV of NLC India Limited CPSU and Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited SPSU)	1	Allotted	03.10.2016	279.00	Power
ALL TOTAL				13			5684.84	

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 ODISHA UMPP		1		800.00				
TOTAL		10		5418.42				

Note.

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 - I, II and Schedule - III captive coal blocks stand vested/allocated during 2016-17

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/private)	End -Use Plant
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	Chatti Bariatu, Chatti 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

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TABLE 9.7 : Statewise List of Schedule - I, II and Schedule - III captive coal blocks stand vested/allocated during 2016-17

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@private)	End –Use Plant
1	Tadicherla-I	III	1	Telangana	45.36	31.08.15	Allotted	Telangana State Power Generation Corpn. Ltd.	PSU(S)	Power
32	Parbatpur Central	II	1	JH	50.98	23.03.16	Allotted	Steel Authority of India Ltd	PSU(C)	NRS
33	Lohari	III	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
37	Tubeid	III	1	JH	NA	08.06.16	Allotted	Damodar Valley Corporation Ltd.	PSU(C)	NRS
TOTAL JHARKHAND NRS			10		218.03					
38-43	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					
44	Marki Mangli III	II	1	MH	3.58	17.04.15	Vested	B.S. Ispat Ltd.	P	NRS
45	Nerad Malegaon	III	1	MH	10.62	22.04.15	Vested	Indrajit Power Pvt. Ltd.	P	NRS
46	Marki Mangli-I	II	1	MH	9.78	30.09.15	Vested	Topworth Urja and Metals Ltd.	P	NRS
47	Belgaon	II	1	MH	7.14	23.03.15	Vested	Sunflag Iron and Steel Co. Ltd	P	NRS
48	Majra	III	1	MH	14.92	30.09.15	Vested	Jaypee Cement Corporation Ltd.	P	NRS
TOTAL MAHARASHTRA NRS			5		46.04					
49	Amelia	I	1	MP	393.60	17.01.17	Allocated	THDC India Limited (JV of Govt. of India & Govt. of U.P.)	PSU(C)	Power
TOTAL MADHYAPRADESH POWER			1		393.60					
50	Sial Ghogri	II	1	MP	5.69	23.03.15	Vested	Reliance Cement Company Pvt. Ltd.	P	NRS
51	Mandla North	II	1	MP	84.00	23.03.15	Vested	Jaiprakash Associates Ltd	P	NRS
52	Amelia (North)	II	1	MP	70.28	23.03.15	Vested	Jaiprakash Power Ventures Ltd.	P	NRS
53	Bicharpur	II	1	MP	29.12	23.03.15	Vested	UltraTech Cement Ltd.	P	NRS
54	Mandla South	III	1	MP	13.35	22.04.15	Vested	Jaypee Cement Corporation Ltd.	P	NRS
TOTAL MADHYAPRADESH NRS			5		202.44					
55	Talabira-I	II	1	Odisha	10.79	23.03.15	Vested	GMR Chhattisgarh Energy Ltd.	P	Power
56	Dulanga	III	1	Odisha	152.05	08.09.15	Allotted	NTPC Ltd.	PSU(C)	Power
57-58	Manoharpur & Dipside of Manoharpur	III	2	Odisha	152.12	31.08.15	Allotted	Odisha Coal & Power Ltd.	PSU(S)	Power
59	Naini	III	1	Odisha	270.00	13.08.15	Allotted	The Singareni Collieries Co. Ltd.	PSU(C)	Power
60	Talabira II & III	I	1	Odisha	152.33	02.05.16	Allotted	Neyveli Lignite Corporation Ltd.	PSU(C)	Power
61	Mandakini B	I	1	Odisha	1200.00	15.09.15	Allotted	NTPC Ltd.	PSU(C)	Power
62	Utkal C	III	1	Odisha	196.35	13.03.15	Vested	Monnet Power Company Ltd.	P	Power
63	Mandakini	III	1	Odisha	290.52	13.03.15	Vested	Mandakini Exploration and Mining Ltd.	P	Power
TOTAL ODISHA POWER			9		2424.16					

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TABLE 9.7 : Statewise List of Schedule - I, II and Schedule - III captive coal blocks stand vested/allocated during 2016-17

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	Tadicherla-I	III	1	Telangana	45.36	31.08.15	Allotted	Telangana State Power Generation Corpn. Ltd.	PSU(S)	Power
64-65	Utkal E & D	III	2	Odisha	171.37	02.05.16	Allotted	NALCO	PSU(C)	NRS
TOTAL ODISHA NRS			2		171.37					
66	Baitarni West	I	1	Odisha	602.00	29.09.16	Allotted	Odisha Mining Corporation Ltd.	PSU(S)	Commercial
TOTAL ODISHA COMMERCIAL			1		602.00					
67	Trans Damodar	II	1	WB	47.32	23.03.15	Vested	The Durgapur Projects Ltd.	P	Power
68	Sarshatolli	II	1	WB	51.03	23.03.15	Vested	CESC Ltd.	P	Power
69	Barjora (North)	II	1	WB	56.57	31.03.15	Allotted	WBPDCL	PSU(C)	Power
70	Khagra Joydev	II	1	WB	103.80	31.03.15	Allotted	Damodar Valley Corporation	PSU(C)	Power
71-72	Tara (East) and Tara (West)	II	2	WB	11.06	31.03.15	Allotted	WBPDCL	PSU(S)	Power
73-74	Gangaramchak & Gangaramchak Bhadulia	II	2	WB	11.05	31.03.15	Allotted	WBPDCL	PSU(S)	Power
75	Barjora	II	1	WB	1.45	31.03.15	Allotted	WBPDCL	PSU(S)	Power
76	Kasta East	III	1	WB	47.00	16.05.16	Allotted	WBPDCL	PSU(S)	Power
TOTAL WEST BENGAL POWER			10		329.28					
77	Ardhagram	II	1	WB	18.93	14.07.16	Vested	OCL IRON AND STEEL LTD.	P	NRS
TOTAL WEST BENGAL NRS			1		18.93					
TOTAL			77		10519.49					

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: Sector Wise list of Chhatisgarh EDULE - II and Chhatisgarh EDULE - III Captive Ccoal Blocks Stand Vested/Allocated During 2016-17

Sl.No.	Block allocated	Sche dule	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	Chhatisgarh	12.30	23.03.15	Vested	Hindalco Industries Ltd.	P	NRS
2	Gare Palma IV/7	II	1	Chhatisgarh	52.98	23.03.15	Vested	Monnet Ispat & Energy Limited	P	NRS
3	Gare Palma IV/5	II	1	Chhatisgarh	42.43	23.03.15	Vested	Hindalco Industries Ltd.	P	NRS
4	Chotia	II	1	Chhatisgarh	18.49	23.03.15	Vested	Bharat Aluminium Company Ltd.	P	NRS
5	Gare Palma IV/8	III	1	Chhatisgarh	45.85	22.04.15	Vested	Ambuja Cements Ltd.	P	NRS
6	Moitra	III	1	Jharkhand	29.91	22.04.15	Vested	JSW Steel Ltd.	P	NRS
7-8	Brinda & Sasai	III	2	Jharkhand	25.40	22.04.15	Vested	Usha Martin Ltd	P	NRS
9	Meral	III	1	Jharkhand	12.67	22.04.15	Vested	Trimula Industries Ltd.	P	NRS
10	Lohari	III	1	Jharkhand	9.05	22.04.15	Vested	Araanya Mines Private Ltd.	P	NRS
11	Kathautia	II	1	Jharkhand	23.96	23.03.15	Vested	Hindalco Industries Ltd.	P	NRS
12	Dumri	III	1	Jharkhand	46.14	22.04.15	Vested	Hindalco Industries Ltd.	P	NRS
13	Marki Mangli III	II	1	Maharashtra	3.58	17.04.15	Vested	B.S. Ispat Ltd.	P	NRS
14	Nerad Malegaon	III	1	Maharashtra	10.62	22.04.15	Vested	Indrajit Power Pvt. Ltd.	P	NRS
15	Marki Mangli-I	II	1	Maharashtra	9.78	30.09.15	Vested	Topworth Urja and Metals Ltd.	P	NRS
16	Belgaon	II	1	Maharashtra	7.14	23.03.15	Vested	Sunflag Iron and Steel Co. Ltd	P	NRS
17	Majra	III	1	Maharashtra	14.92	30.09.15	Vested	Jaypee Cement Corporation Ltd.	P	NRS
18	Sial Ghogri	II	1	Madhya Pradesh	5.69	23.03.15	Vested	Reliance Cement Company Pvt. Ltd.	P	NRS
19	Mandla North	II	1	Madhya Pradesh	84.00	23.03.15	Vested	Jaiprakash Associates Ltd	P	NRS
20	Amelia (North)	II	1	Madhya Pradesh	70.28	23.03.15	Vested	Jaiprakash Power Ventures Ltd.	P	NRS
21	Bicharpur	II	1	Madhya Pradesh	29.12	23.03.15	Vested	UltraTech Cement Ltd.	P	NRS
22	Mandla South	III	1	Madhya Pradesh	13.35	22.04.15	Vested	Jaypee Cement Corporation Ltd.	P	NRS
23	Ardhagram	II	1	West Bengal	18.93	14.07.17	Vested	OCL Iron And Steel Ltd.	P	NRS
TOTAL PRIVATE NRS			23		586.59					
24	Tokisud North	II	1	Jharkhand	51.97	23.03.15	Vested	Essar Power Madhya Pradesh Ltd.	P	Power
25	Jitpur	III	1	Jharkhand	65.54	22.04.15	Vested	Adani Power Ltd.	P	Power
26	Ganeshpur	III	1	Jharkhand	91.80	22.04.15	Vested	GMR Chhattisgarh Energy Ltd.	P	Power

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TABLE 9.8: Sector Wise list of Chhatisgarh EDULE - II and Chhatisgarh EDULE - III Captive Ccoal Blocks Stand Vested/Allocated During 2016-17

Sl.No.	Block allocated	Sche dule	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)
27	Talabira-I	II	1	Odisha	10.79	23.03.15	Vested	GMR Chhattisgarh Energy Ltd.	P	Power
28	Trans Damodar	II	1	West Bengal	47.32	23.03.15	Vested	The Durgapur Projects Ltd.	P	Power
29	Sarshatolli	II	1	West Bengal	51.03	23.03.15	Vested	CESC Ltd.	P	Power
30	Utkal C		1	Odisha	196.35	13.03.15	Vested	Monnet Power Company Ltd.	P	Power
31	Mandakini		1	Odisha	290.52	13.03.15	Vested	Mandakini Exploration and Mining Ltd.	P	Power
TOTAL PRIVATE POWER			8		805.32					
32	Parbatpur Central	II	1	Jharkhand	50.98	23.03.16	Allotted	Steel Authority of India Ltd	PSU(C)	NRS
33	Sitanala	III	1	Jharkhand	19.92	31.08.15	Allotted	Steel Authority of India Ltd.	PSU(C)	NRS
34	Tubed	III	1	Jharkhand	NA	08.06.16	Allotted	Damodar Valley Corporation	PSU(C)	NRS
35-36	Utkal E & D	III	2	Odisha	171.37	02.05.16	Allotted	NALCO	PSU(C)	NRS
TOTAL PSU NRS			5		242.27					
37	Talaipalli	III	1	Chhatisgarh	861.25	08.09.15	Allotted	NTPC Ltd.	PSU(C)	Power
38-39	Chatti Bariatu, Chatti Bariatu South	III	2	Jharkhand	390.96	08.09.15	Allotted	NTPC Ltd.	PSU(C)	Power
40	Saharpur Jamarpani	III	1	Jharkhand	524.00	13.08.15	Allotted	UP Rajya Vidyut Utpadan Nigam Ltd.	PSU(C)	Power
41	Dulanga	III	1	Odisha	152.05	08.09.15	Allotted	NTPC Ltd.	PSU(C)	Power
42	Naini	III	1	Odisha	270.00	13.08.15	Allotted	The Singareni Collieries Co. Ltd.	PSU(C)	Power
43	Barjora (North)	II	1	West Bengal	56.57	31.03.15	Allotted	WBPDCL	PSU(C)	Power
44	Khagra Joydev	II	1	West Bengal	103.80	31.03.15	Allotted	Damodar Valley Corporation	PSU(C)	Power
45	Tadicherla-I	III	1	Telangana	45.36	31.08.15	Allotted	Telangana State Power Generation Corpn. Ltd.	PSU(S)	Power
46	Gare Palma Sector-I	III	1	Chhatisgarh	194.00	14.09.15	Allotted	Gujarat State Electricity Corporation Limited	PSU(S)	Power
47-48	Gidhmuri & Paturia	III	2	Chhatisgarh	257.83	13.10.15	Allotted	Chhattisgarh State Power Generation Co Ltd	PSU(S)	Power
49	Parsa	III	1	Chhatisgarh	184.26	08.09.15	Allotted	Rajasthan Rajya Vidyut Utpadan Nigam Ltd	PSU(S)	Power
50	Gare Pelma Sector II	III	1	Chhatisgarh	655.15	31.08.15	Allotted	Maharashtra State Power Generation Co Ltd	PSU(S)	Power
51-52	Parsa East & Kanta Basan	II	2	Chhatisgarh	450.97	31.03.15	Allotted	Rajasthan Rajya Vidyut Utpadan Nigam Ltd	PSU(S)	Power
53	Gare Palma Sector-III	III	1	Chhatisgarh	134.09	14.09.15	Allotted	Chhattisgarh State Power Generation Co Ltd	PSU(S)	Power
54	Pachwara Central	II	1	Jharkhand	239.75	31.03.15	Allotted	Punjab State Power Corp. Ltd.	PSU(S)	Power

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TABLE 9.8: Sector Wise list of Chhatisgarh EDULE - II and Chhatisgarh EDULE - III Captive Ccoal Blocks Stand Vested/Allocated During 2016-17

Sl.No.	Block allocated	Sche dule	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)
55	Badam	III	1	Jharkhand	90.50	31.08.15	Allotted	Bihar State Power Generation Co. Ltd.	PSU(S)	Power
56	Pachwara North	II	1	Jharkhand	392.75	31.03.15	Allotted	WBPDCCL	PSU(S)	Power
57	Rajbar E&D	III	1	Jharkhand	526.05	30.06.15	Allotted	Tenughat Vidyut Nigam Limited (TVNL)	PSU(S)	Power
58	Banhardih	III	1	Jharkhand	553.00	30.06.15	Allotted	Jharkhand Urja Utpadan Nigam Ltd.	PSU(S)	Power
59-64	Baranj – I, II, III, IV, Kiloni & Manora Deep	II	6	Maharashtra	90.35	31.03.15	Allotted	Karnataka Power Corporation Ltd	PSU(S)	Power
65-66	Manoharpur & Dipside of Manoharpur	III	2	Odisha	152.12	31.08.15	Allotted	Odisha Coal & Power Ltd.	PSU(S)	Power
67-68	Tara (East) and Tara (West)	II	2	West Bengal	11.06	31.03.15	Allotted	WBPDCCL	PSU(S)	Power
69-70	Gangaramchak & Gangaramchak Bhadulia	II	2	West Bengal	11.05	31.03.15	Allotted	WBPDCCL	PSU(S)	Power
71	Barjore	II	1	West Bengal	1.45	31.03.15	Allotted	WBPDCCL	PSU(S)	Power
72	Kerandari	III	1	Jharkhand	142.01	08.09.15	Allotted	NTPC Ltd.	PSU(C)	Power
73	Amelia	I	1	Madhya Pradesh	393.60	17.01.17	Allotted	THDC India Limited (JV of Govt. of India & Govt. of U.P.)	PSU(C)	Power
74	Talabira-II & III	I	1	Odisha	152.33	02.05.16	Allotted	Neyveli Lignite Corporation Ltd.	PSU(C)	Power
75	Mandakini B	I	1	Odisha	1200.00	15.09.16	Allotted	NTPC Ltd.	PSU(C)	Power
76	Kasta East	III	1	West Bengal	47.00	16.05.16	Allotted	WBPDCCL	PSU(S)	Power
TOTAL PSU POWER			40		8283.31					
77	Baitarni West	I	1	Odisha	602.00	29.09.16	Allotted	Odisha Mining Corporation Ltd.	PSU(S)	Comme rcial
TOTAL PSU COMMERCIAL			1		602.00					
ALL TOTAL			77		10519.49					

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	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	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	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.

**TABLE 9.9A: COAL PRODUCTION FROM CAPTIVE BLOCKS DURING 2015-16 & 2016-17 PROJECTED
ON CCO ESTIMATES**

Year	Target / Achievement	Power		NRS		Govt. Comm		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
2016-17	Target	13	36.30	10	4.80	2		25	41.100
2016-17	Achvmt	8	27.381	5	5.157	3	4.896	16	37.434

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/N A	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	Non-producing
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 2016. It can be seen that the top five places, as per coal reserve, are occupied by USA (22.1%), Russian Federation (14.1%), China (21.4%), Australia (12.7%) and India (8.3%). These five countries together account for 78.6% of total world coal reserves.

Country / Group	Reserve	% Share
USA	251582	22.08
China	244010	21.42
Russian Federation	160364	14.08
Australia	144818	12.71
India	94769	8.32
Germany	36212	3.18
Ukraine	34375	3.02
Kazakhstan	25605	2.25
Indonesia	25573	2.24
Poland	24161	2.12
Other Countries	97862	8.59
World	1139331	100

Source: International Energy Agency (IEA).

10.2 Production

10.2.1 In the World, in 2016, production of coal and lignite was 6312.50 MT and 787.31 MT respectively. In 2015, production of coal and lignite was 6747.57 MT and 811.11 MT respectively. Statement 10.2 shows main coal and lignite producing countries during 2016. 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	3083.79	43.43
USA	671.09	9.45
India	698.78	9.84
Australia	503.27	7.09
Indonesia	460.48	6.49
Russian Federation	365.46	5.15
South Africa	256.92	3.62
Germany	175.63	2.47
Poland	130.54	1.84
Kazakhstan	97.94	1.38
Others	655.91	9.24
World	7099.81	100%

10.2.2 World Coking Coal production during 2016 is given in Statement 10.3.

Country	Production	% Share
China	592.00	55.11
Australia	189.30	17.62
Russian Federation	83.45	7.77
India	54.65	5.09
USA	50.65	4.71
Canada	25.96	2.42
Mangolia	22.84	2.13
Poland	13.08	1.22
Kazakhstan	10.50	0.98
Others	31.85	2.96
World	1074.28	100.00

Source: International Energy Agency (IEA).

10.2.5 Statement 10.4 provides world lignite production during 2016 by major lignite producing countries.

Statement 10.4: World Lignite Production (MT) in 2016		
Country	Production	% Share
Germany	171.55	21.79
Russian Federation	73.73	9.36
USA	66.51	8.45
Australia	63.57	8.07
Poland	60.25	7.65
Turkey	56.85	7.22
India	44.98	5.71
Czech Republic	38.53	4.89
Serbia	38.44	4.88
Bulgaria	31.23	3.97
Others	141.68	18.00
World	787.31	100.00

Source: International Energy Agency (IEA)

10.3 Import and Export

10.3.1 In 2016, world coal import was 1327.06 MT against 1306.27 MT in 2015. In 2016, import of coking coal and steam coal was 282.05 MT and 1045.01 MT respectively. Import of lignite was 4.25 MT. Statement 10.5 shows major country wise import of coking coal and steam coal during 2016.

Statement 10.5: World Coal Import (MT) in 2016			
Country	Import		
	Coking Coal	Non Coking Coal	Total Coal
China	59.31	207.46	266.77
Others	29.97	183.80	213.77
Japan	51.14	138.28	189.42
Korea	34.80	100.90	135.70
Chinese Taipei	6.58	59.05	65.63
Netherlands	3.77	51.69	55.46
Germany	10.47	43.10	53.57
Germany	10.47	43.10	53.57
Turkey	5.79	30.42	36.21
Russian Fedrn	0.63	21.10	21.73
Brazil	10.70	8.80	19.50
Ukraine	10.51	5.14	15.65
Others	29.97	183.80	213.77
Total	282.05	1045.01	1327.06

10.3.2. In 2016, total coal export was 1324.53 MT against 1299.19 MT in 2015. During 2016, export of coking coal was 314.13 MT, steam coal 1010.39 MT and lignite 8.97 MT. Statement 10.6 shows major country wise export of coal during 2016.

Statement 10.6: World Coal Export (MT) in 2016			
Country	Export		
	Coking Coal	Non Coking Coal	Total Coal
Australia	188	201.3	389.30
Indonesia	1.01	368.89	369.90
Russian Fedrn	21.74	144.11	165.85
Columbia	1.21	82.12	83.33
South Africa	1.04	75.43	76.47
USA	37.13	17.53	54.66
Canada	28.04	2.19	30.23
Mongolia	23.57	2.14	25.71
Netherlands	0	40.57	40.57
Others	12.39	76.11	88.50
World	314.13	1010.39	1324.52

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 2016

(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	221400	30182	251582	22.1%	381	* More than 500 years.
Canada	4346	2236	6582	0.6%	109	♦ Less than 0.05%.
Mexico	1160	51	1211	0.1%	151	
Total North America	226906	32469	259375	22.8%	356	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 coal reserves 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.
Brazil	1547	5049	6596	0.6%	*	
Colombia	4881	-	4881	0.4%	54	
Venezuela	731	-	731	0.1%	*	
Other S. & Cent. America	1784	24	1808	0.2%	*	
Total S. & Cent. America	8943	5073	14016	1.2%	138	
Bulgaria	192	2174	2366	0.2%	75	
Czech Republic	1103	2573	3676	0.3%	80	
Germany	12	36200	36212	3.2%	206	
Greece	-	2876	2876	0.3%	87	
Hungary	276	2633	2909	0.3%	311	
Kazakhstan	25605	-	25605	2.2%	250	
Poland	18700	5461	24161	2.1%	184	
Romania	11	280	291	♦	13	
Russian Federation	69634	90730	160364	14.1%	417	
Serbia	402	7112	7514	0.7%	196	
Spain	868	319	1187	0.1%	*	
Turkey	378	10975	11353	1.0%	163	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.
Ukraine	32039	2336	34375	3.0%	*	
United Kingdom	70	-	70	♦	17	
Uzbekistan	1375	-	1375	0.1%	355	
Other Europe & Eurasia	2618	5172	7790	0.7%	201	
Total Europe & Eurasia	153283	168841	322124	28.3%	284	
South Africa	9893	-	9893	0.9%	39	
Zimbabwe	502	-	502	♦	186	
Other Africa	2756	66	2822	0.2%	276	Reserves-to-production (R/P) ratios are calculated excluding other solid fuels in reserves and production.
Middle East	1203	-	1203	0.1%	*	
Total Middle East & Africa	14354	66	14420	1.3%	54	
Australia	68310	76508	144818	12.7%	294	
China	230004	14006	244010	21.4%	72	Shares of total and R/P ratios are calculated using million tonnes figures.
India	89782	4987	94769	8.3%	137	
Indonesia	17326	8247	25573	2.2%	59	
Japan	340	10	350	♦	261	
Mongolia	1170	1350	2520	0.2%	66	
New Zealand	825	6750	7575	0.7%	*	
Pakistan	207	2857	3064	0.3%	*	
South Korea	326	-	326	♦	189	
Thailand	-	1063	1063	0.1%	63	
Vietnam	3116	244	3360	0.3%	85	
Other Asia Pacific	1322	646	1968	0.2%	29	
Total Asia Pacific	412728	116668	529396	46.5%	102	
Total World	816214	323117	1139331	100.0%	153	
of which: OECD	319878	177264	497142	43.6%	291	
Non-OECD	496336	145853	642189	56.4%	112	
European Union	21813	53006	74819	6.6%	162	
CIS	130162	93066	223228	19.6%	417	

Source: BP Statistical Review of World Energy 2017

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

(Quantity In Million Tonnes Oil Equivalent)

Countries	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Change 2016 over 2015	2016 Share of Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
US	587.7	596.7	540.8	551.2	556.1	517.8	500.9	507.7	449.3	364.8	-19.0%	10.0%
Canada	35.7	35.6	33.1	35.4	35.5	35.6	36.4	35.6	31.9	31.4	-1.8%	0.9%
Mexico	7.3	6.9	6.1	7.3	9.4	7.4	7.2	7.3	6.9	4.5	-34.8%	0.1%
Total North America	630.7	639.2	580.0	594.0	600.9	560.9	544.5	550.5	488.1	400.7	-18.1%	11.0%
Brazil	2.7	2.9	2.3	2.3	2.4	2.9	3.7	3.4	3.5	3.5	-	0.1%
Colombia	48.2	50.7	50.2	51.3	59.2	61.5	59.0	61.1	59.0	62.5	5.5%	1.7%
Venezuela	5.0	3.7	2.4	1.9	1.9	1.4	0.9	0.6	0.6	0.2	-66.4%	♦
Other S. & Cent. America	0.3	0.4	0.4	0.4	0.4	0.5	1.7	2.4	1.9	1.5	-18.3%	♦
Total S. & Cent. America	56.2	57.7	55.3	55.9	63.9	66.3	65.3	67.5	64.9	67.6	3.9%	1.8%
Bulgaria	4.7	4.8	4.6	4.9	6.2	5.6	4.8	5.1	5.8	5.1	-12.5%	0.1%
Czech Republic	23.8	22.8	20.9	20.7	20.9	20.1	17.7	16.8	16.8	16.3	-3.4%	0.4%
Germany	54.4	50.1	46.4	45.9	46.7	47.8	45.1	44.1	42.9	39.9	-7.2%	1.1%
Greece	8.4	8.1	8.2	7.3	7.5	8.0	6.7	6.4	5.7	4.1	-28.7%	0.1%
Hungary	1.8	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	0.6%	♦
Kazakhstan	42.2	47.9	43.4	47.5	49.8	51.6	51.4	48.9	46.2	44.1	-4.9%	1.2%
Poland	62.5	60.9	56.4	55.4	55.7	57.8	57.2	54.0	53.0	52.3	-1.5%	1.4%
Romania	6.9	7.0	6.6	5.9	6.7	6.3	4.7	4.4	4.7	4.3	-9.2%	0.1%
Russian Federation	143.5	149.0	141.7	151.0	157.6	168.3	173.1	176.6	186.4	192.8	3.1%	5.3%
Serbia	7.2	7.5	7.4	7.2	7.8	7.3	7.7	5.7	7.2	7.4	1.4%	0.2%
Spain	5.9	4.4	3.8	3.3	2.6	2.5	1.8	1.6	1.2	0.7	-43.3%	♦
Turkey	14.8	16.7	17.4	17.5	17.9	17.0	15.5	16.4	12.8	15.2	18.7%	0.4%
Ukraine	34.0	34.4	31.8	31.8	36.3	38.0	36.6	25.9	16.4	17.1	4.3%	0.5%
United Kingdom	10.7	11.3	11.0	11.4	11.5	10.6	8.0	7.3	5.4	2.6	-51.5%	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	1.0	0.9	1.0	1.0	1.1	1.2	1.1	1.2	1.1	1.1	-1.8%	♦
Other Europe & Eurasia	16.3	16.5	16.6	16.9	17.1	15.6	18.0	17.0	15.3	14.9	-3.1%	0.4%
Total Europe & Eurasia	438.0	443.9	418.8	429.3	446.9	459.4	450.9	433.2	422.5	419.4	-1.0%	11.5%
Total Middle East	1.1	1.0	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	-	♦
South Africa	138.4	141.0	139.7	144.1	143.2	146.6	145.3	148.2	142.9	142.4	-0.6%	3.9%
Zimbabwe	1.3	1.0	1.1	1.7	1.7	1.0	2.0	3.7	2.8	1.7	-37.9%	♦
Other Africa	0.8	0.8	0.7	0.9	1.1	4.4	5.1	5.5	6.0	6.3	5.5%	0.2%
Total Africa	140.5	142.7	141.5	146.8	146.0	152.0	152.3	157.5	151.7	150.5	-1.0%	4.1%
Australia	227.0	234.2	242.5	250.6	245.1	265.9	285.8	305.7	305.8	299.3	-2.4%	8.2%
China	1439.3	1491.8	1537.9	1665.3	1851.7	1873.5	1894.6	1864.2	1825.6	1685.7	-7.9%	46.1%
India	210.3	227.5	246.0	252.4	250.8	255.0	255.7	269.5	280.9	288.5	2.4%	7.9%
Indonesia	127.8	141.6	151.0	162.1	208.2	227.4	279.7	269.9	272.0	255.7	-6.2%	7.0%
Japan	0.8	0.7	0.7	0.5	0.7	0.7	0.7	0.7	0.6	0.7	14.2%	♦
Mongolia	4.8	5.2	8.2	15.2	19.9	18.1	18.0	14.8	14.5	22.8	57.0%	0.6%
New Zealand	3.0	3.0	2.8	3.3	3.1	3.0	2.8	2.5	2.0	1.7	-15.4%	♦
Pakistan	1.7	1.8	1.6	1.5	1.4	1.4	1.3	1.5	1.5	1.8	19.5%	♦
South Korea	1.3	1.3	1.2	1.0	1.0	1.0	0.8	0.8	0.8	0.8	-2.4%	♦
Thailand	5.0	5.0	4.8	5.0	6.0	4.8	4.9	4.8	3.9	4.3	10.6%	0.1%
Vietnam	23.8	22.3	24.7	25.1	26.1	23.6	23.0	23.0	23.2	22.0	-5.4%	0.6%
Other Asia Pacific	20.6	22.0	23.5	24.7	24.9	25.3	25.1	25.7	28.6	33.9	18.3%	0.9%
Total Asia Pacific	2065.5	2156.2	2244.8	2406.7	2638.8	2699.7	2792.5	2783.1	2759.4	2617.4	-5.4%	71.6%
Total World	3331.9	3440.8	3441.1	3633.3	3897.3	3938.9	4006.1	3992.4	3887.3	3656.4	-6.2%	100.0%
of which: OECD	1055.8	1064.6	1003.4	1023.4	1025.5	1005.7	1000.7	1020.9	946.6	844.8	-11.0%	23.1%
Non-OECD	2276.0	2376.3	2437.7	2609.9	2871.8	2933.1	3005.5	2971.4	2940.7	2811.6	-4.7%	76.9%
European Union #	187.0	178.9	167.9	165.7	168.5	168.1	157.3	150.6	144.6	133.6	-7.9%	3.7%
CIS	221.5	233.0	218.8	232.0	245.7	260.3	263.5	254.0	251.5	256.8	1.8%	7.0%

Source: BP Statistical Review of World Energy 2017

* 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.

Growth rates are adjusted for leap years.

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

(Figs. In Million Tonnes Oil Equivalent)

Countries	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Change in 2016 over 2015	2016 Share of Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
US	573.3	564.2	496.2	525.0	495.4	437.9	454.6	453.5	391.8	358.4	-8.8%	9.6%
Canada	30.3	29.4	23.5	24.8	21.8	21.0	20.8	19.7	19.6	18.7	-5.2%	0.5%
Mexico	11.3	10.1	10.3	12.7	14.7	12.8	12.7	12.7	12.7	9.8	-22.9%	0.3%
Total North America	614.9	603.7	530.0	562.5	531.9	471.8	488.1	486.0	424.2	386.9	-9.0%	10.4%
Argentina	1.2	1.4	1.0	1.3	1.5	1.3	1.3	1.5	1.4	1.1	-22.5%	◆
Brazil	13.6	13.8	11.1	14.5	15.4	15.3	16.5	17.5	17.7	16.5	-6.8%	0.4%
Chile	4.1	4.4	4.0	4.5	5.8	6.7	7.5	7.6	7.3	8.2	12.3%	0.2%
Colombia	3.2	4.9	4.0	4.7	3.7	4.6	5.0	5.2	5.3	4.6	-14.0%	0.1%
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Peru	1.0	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.8	-	◆
Trinidad & Tobago	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	-66.4%	◆
Other S. & Cent. America	2.4	2.4	2.1	2.2	2.7	2.7	2.9	3.2	3.2	3.4	5.4%	0.1%
Total S. & Cent. America	25.7	28.0	23.2	28.1	30.2	31.7	34.2	36.1	35.9	34.7	-3.7%	0.9%
Austria	3.9	3.8	2.9	3.4	3.5	3.2	3.3	3.0	3.2	3.2	-2.3%	0.1%
Azerbaijan	^	^	^	^	^	^	^	^	^	^	-	◆
Belarus	0.7	0.6	0.6	0.6	0.8	0.8	0.9	0.8	0.7	0.8	16.5%	◆
Belgium	4.4	4.5	3.1	3.8	3.5	3.2	3.3	3.3	3.2	3.0	-6.7%	0.1%
Bulgaria	7.9	7.6	6.4	6.9	8.1	6.9	5.9	6.4	6.6	5.7	-13.5%	0.2%
Czech Republic	21.4	19.7	17.7	18.8	18.4	17.4	17.2	16.0	16.6	16.9	1.7%	0.5%
Denmark	4.7	4.1	4.0	3.8	3.2	2.5	3.2	2.6	1.7	2.1	20.8%	0.1%
Finland	7.0	5.3	5.4	6.8	5.5	4.5	5.0	4.5	3.8	4.1	8.0%	0.1%
France	12.8	12.1	10.8	11.5	9.8	11.1	11.6	8.6	8.4	8.3	-1.1%	0.2%
Germany	86.7	80.1	71.7	77.1	78.3	80.5	82.8	79.6	78.5	75.3	-4.3%	2.0%
Greece	8.8	8.3	8.4	7.9	7.9	8.1	7.0	6.7	5.6	4.7	-16.7%	0.1%
Hungary	3.1	3.1	2.6	2.7	2.7	2.6	2.3	2.2	2.4	2.3	-3.6%	0.1%
Ireland	2.3	2.3	2.0	2.0	1.9	2.3	2.0	2.0	2.2	2.2	-0.7%	0.1%
Italy	16.3	15.8	12.4	13.7	15.4	15.7	13.5	13.1	12.3	10.9	-11.9%	0.3%
Kazakhstan	31.1	33.8	30.9	33.4	36.3	36.5	36.3	41.0	35.8	35.6	-0.8%	1.0%
Lithuania	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	4.8%	◆
Netherlands	8.4	8.0	7.5	7.5	7.5	8.2	8.2	9.1	11.0	10.3	-7.0%	0.3%
Norway	0.7	0.7	0.6	0.8	0.8	0.8	0.8	0.9	0.8	0.8	-0.1%	◆
Poland	55.9	55.2	51.8	55.1	55.0	51.2	53.4	49.4	48.7	48.8	◆	1.3%
Portugal	2.9	2.5	2.9	1.6	2.2	2.9	2.7	2.7	3.3	2.9	-11.9%	0.1%
Romania	10.1	9.6	7.6	7.0	8.2	7.6	5.8	5.7	5.9	5.4	-8.9%	0.1%
Russian Federation	93.9	100.7	92.2	90.5	94.0	98.4	90.5	87.6	92.2	87.3	-5.5%	2.3%
Slovakia	4.0	4.0	3.9	3.9	3.7	3.5	3.5	3.4	3.3	3.1	-5.0%	0.1%
Spain	20.0	13.5	9.4	6.9	12.8	15.5	11.4	11.6	13.7	10.4	-23.9%	0.3%
Sweden	2.7	2.4	1.9	2.5	2.5	2.2	2.2	2.1	2.1	2.2	6.0%	0.1%
Switzerland	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-	◆
Turkey	29.5	29.6	30.9	31.4	33.9	36.5	31.6	36.1	34.7	38.4	10.3%	1.0%
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-	-
Ukraine	39.8	41.8	35.9	38.3	41.5	42.5	41.6	35.6	27.3	31.5	14.9%	0.8%
United Kingdom	38.4	35.6	29.8	30.9	31.4	39.0	36.8	29.7	23.0	11.0	-52.5%	0.3%
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	1.0	1.0	1.0	0.9	1.1	1.2	1.1	1.2	1.1	1.0	-10.1%	◆
Other Europe & Eurasia	21.2	22.2	21.3	22.5	24.6	22.9	23.8	21.9	23.0	23.0	-0.1%	0.6%
Total Europe & Eurasia	540.2	528.3	475.8	492.5	514.9	528.1	508.1	487.3	471.3	451.6	-4.5%	12.1%

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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	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Change in 2016 over 2015	2016 Share of Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Iran	1.6	1.2	1.4	1.3	1.4	1.1	1.4	1.6	1.6	1.7	4.3%	♦
Israel	8.0	7.9	7.7	7.7	7.9	8.8	7.4	6.9	6.7	5.7	-15.5%	0.2%
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	0.1	0.1	^	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-	♦
United Arab Emirates	0.1	0.3	0.6	0.7	1.3	1.7	1.4	1.5	1.3	1.3	-	♦
Other Middle East	0.1	0.2	0.2	0.3	0.4	0.6	0.5	0.7	0.5	0.5	♦	♦
Total Middle East	9.9	9.7	9.9	10.1	11.2	12.3	10.9	10.8	10.2	9.3	-9.5%	0.2%
Algeria	0.8	0.8	0.5	0.3	0.3	0.3	0.2	0.2	0.1	0.1	-	♦
Egypt	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	4.3%	♦
South Africa	83.7	93.3	93.8	92.8	90.5	88.3	88.6	89.8	83.4	85.1	1.8%	2.3%
Other Africa	6.9	6.7	6.1	6.5	7.2	7.0	8.3	11.9	11.4	10.3	-10.3%	0.3%
Total Africa	92.1	101.5	101.0	100.1	98.5	96.1	97.5	102.3	95.3	95.9	0.4%	2.6%
Australia	52.7	54.9	53.1	49.4	48.1	45.1	43.0	42.6	44.1	43.8	-0.9%	1.2%
Bangladesh	0.6	0.6	0.8	0.8	0.7	0.9	1.0	0.8	0.7	0.8	17.0%	♦
China	1584.2	1609.3	1685.8	1748.9	1903.9	1927.8	1969.1	1954.5	1913.6	1887.6	-1.6%	50.6%
China Hong Kong SAR	7.5	6.9	7.2	6.2	7.4	7.3	7.8	8.1	6.7	6.7	-0.3%	0.2%
India	240.1	259.3	280.8	290.4	304.8	330.0	352.8	387.5	396.6	411.9	3.6%	11.0%
Indonesia	36.2	31.5	33.2	39.5	46.9	53.0	57.0	45.1	51.2	62.7	22.2%	1.7%
Japan	117.7	120.3	101.6	115.7	109.6	115.8	121.2	119.1	119.9	119.9	-0.2%	3.2%
Malaysia	8.8	9.8	10.6	14.8	14.8	15.9	15.1	15.4	16.9	19.9	17.6%	0.5%
New Zealand	1.7	2.1	1.6	1.4	1.4	1.7	1.5	1.5	1.4	1.2	-15.4%	♦
Pakistan	5.4	6.0	4.9	4.6	4.0	4.0	3.2	4.7	4.7	5.4	15.1%	0.1%
Philippines	5.4	6.4	6.1	7.0	7.7	8.1	10.0	10.6	11.6	13.5	16.0%	0.4%
Singapore	^	^	^	^	^	^	0.3	0.4	0.4	0.4	-6.5%	♦
South Korea	59.7	66.1	68.6	75.9	83.6	81.0	81.9	84.6	85.5	81.6	-4.8%	2.2%
Taiwan	38.8	37.0	35.2	37.6	38.9	38.0	38.6	39.0	37.8	38.6	1.7%	1.0%
Thailand	14.0	15.1	15.1	15.5	15.8	16.5	16.3	17.9	17.6	17.7	0.7%	0.5%
Vietnam	5.8	11.4	10.7	14.0	16.5	15.0	15.8	18.9	22.3	21.3	-4.4%	0.6%
Other Asia Pacific	18.8	20.6	20.9	20.4	16.5	17.2	13.8	16.0	16.9	20.6	21.3%	0.6%
Total Asia Pacific	2197.4	2257.3	2336.3	2442.3	2620.6	2677.4	2748.3	2767.0	2747.7	2753.6	-0.1%	73.8%
Total World	3480.2	3528.4	3476.1	3635.6	3807.2	3817.3	3887.0	3889.4	3784.7	3732.0	-1.7%	100.0%
of which: OECD	1198.4	1175.2	1051.0	1114.8	1094.1	1047.3	1058.4	1040.9	972.7	913.3	-6.4%	24.5%
Non-OECD	2281.7	2353.2	2425.1	2520.8	2713.1	2770.0	2828.5	2848.5	2812.0	2818.7	♦	75.5%
European Union #	328.4	303.6	267.4	280.2	288.1	294.3	288.0	268.4	261.1	238.4	-8.9%	6.4%
CIS	167.3	179.0	161.5	164.7	174.7	180.7	171.8	167.8	158.9	157.9	-0.9%	4.2%

Source: BP Statistical Review of World Energy 2017

* 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.

Notes: 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.

Annual changes and share of total are calculated using million tonnes oil equivalent figures.

Growth rates are adjusted for leap years.

Table 10.4: Trends of World Coal Prices

(in USD/ Tonne)

Year	Northwest Europe marker price †	US Central Appalachian coal spot price index ‡	Japan steam spot cif price †	China Qinhuangdao spot price*	Japan coking coal import cif price	Japan steam coal import cif price	Asian marker price †
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
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	-	27.52	39.69	34.58	31.76
2001	39.03	50.15	37.69	31.78	41.33	37.96	36.89
2002	31.65	33.20	31.47	33.19	42.01	36.90	30.41
2003	43.60	38.52	39.61	31.74	41.57	34.74	36.53
2004	72.08	64.90	74.22	42.76	60.96	51.34	72.42
2005	60.54	70.12	64.62	51.34	89.33	62.91	61.84
2006	64.11	62.96	65.22	53.53	93.46	63.04	56.47
2007	88.79	51.16	95.59	61.23	88.24	69.86	84.57
2008	147.67	118.79	157.88	104.97	179.03	122.81	148.06
2009	70.66	68.08	83.59	87.86	167.82	110.11	78.81
2010	92.50	71.63	108.47	110.08	158.95	105.19	105.43
2011	121.52	87.38	126.13	127.27	229.12	136.21	125.74
2012	92.50	72.06	100.30	111.89	191.46	133.61	105.50
2013	81.69	71.39	90.07	95.42	140.45	111.16	90.90
2014	75.38	69.00	76.13	84.12	114.41	97.65	77.89
2015	56.79	53.59	60.10	67.53	93.85	79.47	63.52
2016	59.87	53.56	71.66	71.35	89.40	72.97	69.91

Source: BP Statistical Review of World Energy 2017

† Source: IHS Northwest Europe prices for 1990-2000 are the average of the monthly marker, 2001-2016 the average of weekly prices. IHS Japan prices basis = 6,000 kilocalories per kilogram NAR CIF.

The Asian prices are the average of the monthly marker.

Chinese prices are the average monthly price for 2000-2005, weekly prices 2006 -2016, 5,500 kilocalories per kilogram NAR, including cost and freight (CFR).

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

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 2015 & 2016e

(Quantity in Thousand Tonnes)

Country	2015					2016 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)
Canada	26547	2453	24506	8425	2151	25960	2599	23440	8979	1858
Mexico	3113	73	11543	540	1796	2957	127	8533	308	1368
United States of America	57521	309408	380577	64929	12478	50645	254125	299811	66506	10755
Total North America	87181	311934	416626	73894	16425	79562	256851	331784	75793	13981
Argentina	0	34	0	0	769	0	83	0	0	
Bolivarian Rep. of Venezuela	0	830	0	0	0	0	947	0	0	
Brazil	0	102	4367	3560	9079	0	101	3424	3480	
Chile	0	3143	0	0	405	0	2525	0	0	406
Colombia	4486	81062	0	0	2431	4130	86382	0	0	
Peru	0	243	0	0	0	0	266	0	0	
Total South America	4486	85414	4367	3560	12684	4130	90304	3424	3480	406
Albania	0	99	0	0	0	0	0	0	0	
Austria	0	0	0	0	1341	0	0	0	0	1352
Belgium	0	0	0	0	1230	0	0	0	0	1205
Bosnia and Herzegovina	0	0	6174	5999	911	0	0	6293	7293	
Bulgaria	0	0	0	35859	0	0	0	0	31231	
Czech Republic	4088	4226	0	38105	2332	3384	3516	0	38528	2209
Estonia	0	0	0	0	8	0	0	0	0	0
Finland	0	0	0	0	876	0	0	0	0	882
F.Y. Rep. of Macedonia	0	0	0	5936	0	0	0	0	5139	
France	0	0	0	0	3214	0	0	0	0	3127
Georgia	0	0	0	306	0	0	0	0	287	
Germany	3843	2806	0	178065	8800	2164	1915	0	171547	8150
Greece	0	0	0	46246	0	0	0	0	32255	0
Hungary	0	0	0	9261	960	0	0	0	9215	892
Italy	0	81	0	0	1977	0	54	0	0	1994
Kazakhstan	17020	84773	0	5526	2628	10498	82142	0	5302	
Kosovo	0	0	0	8241	0	0	0	0	8801	
Montenegro	0	0	0	1773	0	0	0	0	1397	
Netherlands	0	0	0	0	2035	0	0	0	0	2034
Norway	0	1106	0	0	0	0	818	0	0	0
Poland	12985	59191	0	63128	9792	13082	57213	0	60246	9708
Romania	0	0	10	25483	0	0	0	47	22975	
Russian Federation	82869	195164	0	73629	40342	83447	208290	0	73727	39958
Serbia	0	0	0	37826	0	0	0	0	38440	
Slovak Republic	0	0	0	1939	1636	0	0	0	1847	1635
Slovenia	0	0	0	3168	0	0	0	0	3349	0
Spain	0	1747	1317	0	1566	0	1070	730	0	1978
Sweden	0	0	0	0	1187	0	0	0	0	1171
Turkey	767	668	857	56122	4523	732	598	1219	56850	4239
Ukraine	6064	23853	0	0	11617	6088	23435	0	0	
United Kingdom	72	8526	0	0	2734	53	4125	0	0	1348
Total Europe	127708	382240	8358	596612	99709	119448	383176	8289	568429	81882

Contd....

Table-10.5: Production of Coal and Coke by Major Coal Producing Countries during 2015 & 2016e

(Quantity in Thousand Tonnes)

Country	2015					2016 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)
Australia	191056	233257	22757	65361	2924	189302	228129	22272	63571	2605
New Zealand	1333	66	1666	324	504	1213	34	1325	313	502
Total Australia and Oceania	192389	233323	24423	65685	3428	190515	228163	23597	63884	3107
Botswana	0	2085	0	0	0	0	1873	0	0	
Egypt	0	0	0	0	289	0	0	0	0	
Mozambique	4787	1814	0	0	0	5204	1559	0	0	
Niger	0	0	0	226	0	0	0	0	264	
Nigeria	0	47	0	0	0	0	44	0	0	
Other Africa	0	285	0	0	0	0	312	0	0	
South Africa	2978	255572	0	0	2009	3467	253452	0	0	
United Republic of Tanzania	0	257	0	0	0	0	276	0	0	
Zambia	0	159	0	0	0	0	200	0	0	
Zimbabwe	426	3910	0	0	313	429	2273	0	0	
Total Africa	8191	264129	0	226	2611	9100	259989	0	264	0
Bangladesh	0	676	0	0	0	0	1022	0	0	
China (Region)	593047	2812582	0	0	446339	591998	2491793	0	0	
Chinese Taipei	0	0	0	0	6021	0	0	0	0	
Democratic People's Republic of DPR of Korea	0	24960	2530	0	0	0	31970	3238	0	
India	0	1764	0	0	19025	0	1726	0	0	19615
Indonesia	53014	578343	0	43842	30071	54650	599153	0	44976	
Indonesia	985	136869	315668	0	0	1013	129383	330086	0	
Islamic Republic of Iran	909	186	0	0	1136	1018	208	0	0	
Japan	0	0	0	0	38205	0	0	0	0	37921
Kyrgyzstan	0	345	0	1584	0	0	244	0	2281	
Malaysia	0	2559	0	0	0	0	2413	0	0	
Mongolia	13144	3926	0	5755	72	22842	4306	0	6332	
Myanmar	0	697	0	54	0	0	535	0	42	
Nepal	0	19	0	0	0	0	5	0	0	
Other Asia	0	1652	0	25	56	0	1777	0	27	
Pakistan	0	2711	0	1082	282	0	2780	0	1209	
Philippines	0	0	7378	0	0	0	0	10975	0	
Tajikistan	0	985	0	57	0	0	1308	0	76	
Thailand	0	0	0	15151	0	0	0	0	16978	
Uzbekistan	0	367	0	3590	0	0	366	0	3534	
Vietnam	0	41484	0	0	0	0	39361	0	0	
Total Asia	661099	3610125	325576	71140	541207	671521	3308350	344299	75455	57536
World	1081054	4887165	779350	811117	676064	1074276	4526833	711393	787305	156912

Source: International Energy Agency (IEA)

Table-10.6: Import of Coal and Coke by Major Coal Importing Countries during 2015 & 2016 e

(Quantity in Thousand Tonnes)

Country	2015					2016 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)
Cuba	0	3	0	0	1	0	3	0	0	
Costa Rica	0	1	0	0	114	0	0	0	0	
Jamaica	0	108	0	0	0	0	66	0	0	
Honduras	0	113	0	0	0	0	117	0	0	
Panama	0	339	0	0	0	0	313	0	0	
Dominican Republic	0	1089	0	0	550	0	1085	0	0	
Guatemala	0	2232	0	0	0	0	2045	0	0	
Mexico	1874	5371	458	4	701	456	6200	1621	3	1108
Canada	3872	2178	1506	12	636	3451	1595	1262	10	978
United States of America	1558	6497	2114	100	127	870	5975	2003	87	207
Total North America	7304	17931	4078	116	2129	4777	17399	4886	100	2293
Argentina	1137	768	0	0	0	1163	443	0	0	
Brazil	10304	9615	354	0	2295	10698	8592	212	0	
Chile	566	9328	0	0	3	568	10866	0	0	3
Peru	0	404	0	0	36	0	604	0	0	
Uruguay	0	4	0	0	0	0	5	0	0	
Other Americas	0	203	0	0	0	0	243	0	0	
Total South America	12007	20322	354	0	2334	12429	20753	212	0	3
Albania	0	102	0	0	0	0	81	0	0	
Armenia	0	1	0	0	0	0	1	0	0	
Austria	1730	1297	82	11	959	1797	1533	70	11	830
Belarus	0	675	0	0	52	0	725	0	0	
Belgium	1849	2209	0	0	107	1679	1833	0	0	205
Bosnia and Herzegovina	1359	0	41	14	0	1301	0	0	0	
Bulgaria	0	1061	0	0	76	0	787	0	0	
Croatia	0	974	0	57	25	0	1079	0	45	
Cyprus	0	6	0	0	0	0	6	0	0	
Czech Republic	1579	1566	0	1031	396	1661	1669	0	88	493
Denmark	0	2758	0	0	15	0	2886	0	0	11
Estonia	0	7	0	0	0	0	9	0	0	0
Finland	1316	2226	0	0	446	1486	2423	0	0	323
F.Y. Rep. of Macedonia	0	15	125	48	1	0	26	148	34	
France	3874	8781	0	118	470	4283	7441	0	98	370
Georgia	0	110	0	0	123	0	105	0	0	
Germany	7845	46683	0	20	2893	10471	43098	0	26	2388
Greece	0	257	0	0	0	0	327	0	0	0
Hungary	1310	63	161	63	34	1225	137	103	45	25
Iceland	0	116	0	0	24	0	125	0	0	14
Ireland	0	2394	0	0	0	0	1869	0	0	0

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Table-10.6: Import of Coal and Coke by Major Coal Importing Countries during 2015 & 2016 e

(Quantity in Thousand Tonnes)

Country	2015					2016 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)
Italy	2292	16894	445	3	682	2430	14020	369	2	986
Kazakhstan	0	14	0	0	973	0	23	0	1	
Kosovo	0	12	0	2	0	0	4	0	0	
Latvia	0	71	0	0	0	0	68	0	0	0
Lithuania	0	227	0	0	13	0	225	0	0	
Luxembourg	0	73	0	0	1	0	80	0	0	1
Montenegro	0	0	0	5	0	0	0	0	5	
Netherlands	3876	53211	0	26	322	3765	51691	0	31	550
Norway	0	693	0	0	427	0	660	0	0	426
Poland	2692	5597	0	281	94	2210	6073	0	284	125
Portugal	0	5419	0	0	8	0	4915	0	0	9
Republic of Moldova	0	166	0	0	0	0	99	0	0	
Romania	14	110	665	354	798	11	147	649	212	
Russian Federation	771	21838	0	1531	91	633	21104	0	2296	73
Serbia	0	219	0	781	490	0	169	0	300	
Slovak Republic	2740	923	0	436	191	2686	797	0	494	139
Slovenia	0	15	358	30	31	0	13	361	11	28
Spain	1721	17014	0	0	337	1767	12062	0	0	186
Sweden	1573	1218	0	0	87	2047	1049	0	0	103
Switzerland	0	76	0	132	15	0	48	0	133	16
Turkey	5931	28048	0	0	568	5793	30422	0	0	557
Ukraine	5748	8850	0	0	2037	10512	5136	0	0	
United Kingdom	4750	19448	0	0	1112	2781	5513	0	0	1222
Total Europe	52970	251437	1877	4943	13898	58538	220478	1700	4116	9080
Australia	101	24	0	0	130	20	10	0	0	189
New Zealand	0	31	405	0	0	0	74	368	0	0
Total Australia & Oceania	101	55	405	0	130	20	84	368	0	189
Algeria	0	0	0	0	211	20	0	0	0	
Benin	0	41	0	0	0	0	120	0	0	
Egypt	341	0	0	0	324	256	0	0	0	
Ethiopia	0	411	0	0	0	0	442	0	0	
Kenya	0	566	0	0	0	0	557	0	0	
Mauritius	0	804	0	0	0	0	926	0	0	
Morocco	0	6460	0	0	0	0	6724	0	0	
Namibia	0	0	0	0	0	0	4	0	0	
Senegal	0	389	0	0	0	0	416	0	0	
South Africa	789	0	0	0	0	805	0	0	0	
Zimbabwe	0	24	0	0	0	0	24	0	0	
Other Africa	0	1042	0	0	0	0	1042	0	0	
Total Africa	1130	9737	0	0	535	1081	10255	0	0	0

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Table-10.6: Import of Coal and Coke by Major Coal Importing Countries during 2015 & 2016 e

(Quantity in Thousand Tonnes)

Country	2015					2016 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)
Bangladesh	0	3651	0	32	0	0	3333	0	29	
Cambodia	0	0	1235	0	0	0	0	1475	0	
China (Region)	47999	167317	0	0	4	59307	207458	0	0	
Chinese Taipei	6405	46925	11429	0	187	6581	46514	12532	0	
DPR of Korea	33933	94100	6824	0	566	34803	94328	6570	0	340
India	49438	86681	79441	0	3072	47905	79400	72768	0	
Indonesia	3008	0	0	0	0	2814	0	0	0	
Islamic Republic of Iran	379	18	0	0	315	249	0	0	0	
Israel	0	11042	0	0	0	0	8795	0	0	0
Japan	50663	138930	0	0	2655	51140	138275	0	0	1987
Jordan	0	253	0	0	20	0	316	0	0	
Kyrgyzstan	0	1371	0	9	0	0	1248	0	0	
Lebanon	0	253	0	0	0	0	257	0	0	
Malaysia	0	25461	0	0	0	0	28854	0	0	
Mongolia	0	1	0	0	0	0	0	0	0	
Myanmar	0	0	0	0	0	0	253	0	0	
Nepal	0	910	0	0	0	0	920	0	0	
Pakistan	403	4837	0	0	0	448	6168	0	0	
Philippines	0	13593	3436	12	250	0	14861	4564	0	
Singapore	0	649	0	0	11	0	701	0	0	
Sri Lanka	0	1881	0	0	0	0	2340	0	0	
Syrian Arab Republic	0	0	0	0	1	0	0	0	0	
Tajikistan	0	13	0	0	0	0	0	0	0	
Thailand	0	23964	0	0	15	0	22650	0	0	
United Arab Emirates	2171	405	0	0	2	1962	360	0	0	
Vietnam	0	5767	1160	0	190	0	10879	2421	0	
Yemen	0	133	0	0	0	0	140	0	0	
Other Asia	0	578	0	0	0	0	495	0	0	
Total Asia	194399	628733	103525	53	7288	205209	668545	100330	29	2327
World	267911	928215	110239	5112	26314	282054	937514	107496	4245	13892

Source: International Energy Agency (IEA)

Table 10.7 : Export of Coal and Coke by Major Exporting Countries during 2015 & 2016 e

(Quantity in Thousand Tonnes)

Country	2015					2016 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)
Canada	28049	2321	17	99	77	28039	2192	15	86	44
Mexico	0	3	0	0	0	0	2	0	0	0
United States of America	41737	20012	5322	22	777	37131	14652	2874	19	907
Total North America	69786	22336	5339	121	854	65170	16846	2889	105	951
Argentina	0	14	0	0	53	0	1	0	0	
Bolivarian Rep. of Venezuela	0	643	0	0	0	0	545	0	0	
Chile	0	844	0	0	39	0	870	0	0	39
Colombia	1286	76524	0	0	1917	1205	82120	0	0	
Peru	0	253	0	0	0	0	73	0	0	
Total South America	1286	78278	0	0	2009	1205	83609	0	0	39
Austria	0	10	0	0	0	0	0	0	0	0
Belarus	0	41	0	0	0	0	37	0	0	
Belgium	0	79	0	0	5	0	66	0	0	7
Bosnia and Herzegovina	36	0	284	73	286	0	0	203	12	
Bulgaria	0	0	0	36	0	0	0	0	17	
Czech Republic	1895	1670	0	885	516	2080	1428	0	854	543
Denmark	0	92	0	0	0	0	21	0	0	0
Estonia	0	0	0	0	8	0	0	0	0	0
Finland	0	0	0	0	83	0	0	0	0	53
France	0	0	0	0	27	0	0	0	0	82
FYR of Macedonia	0	0	3	0	0	0	0	1	0	
Georgia	0	0	0	2	0	0	0	0	2	
Germany	0	179	0	914	348	0	278	0	0	715
Greece	0	0	0	0	0	0	15	0	0	0
Hungary	0	0	0	355	298	0	0	0	214	424
Ireland	0	13	0	0	0	0	9	0	0	0
Italy	0	82	0	0	307	15	99	0	0	374
Kazakhstan	1467	27398	0	2357	1	1126	22521	0	2010	
Kosovo	0	0	0	45	0	0	0	0	8	
Latvia	0	2	0	0	0	0	6	0	0	0
Montenegro	0	0	0	58	0	0	0	0	42	
Netherlands	0	36589	0	5	470	0	40569	0	52	517
Norway	0	1124	0	0	0	0	912	0	0	0
Poland	2303	6888	0	198	6459	2438	6628	0	212	6963
Romania	0	0	0	378	0	0	0	0	3	
Russian Federation	18480	133390	0	3371	2449	21743	144105	0	5272	2261

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Table 10.7 : Export of Coal and Coke by Major Exporting Countries during 2015 & 2016 e

(Quantity in Thousand Tonnes)

Country	2015					2016 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)
Serbia	0	1	0	30	0	0	0	0	65	
Slovak Republic	0	0	0	0	1	0	0	0	0	3
Spain	0	1088	0	0	144	0	453	0	0	137
Sweden	0	0	0	0	81	0	0	0	0	28
Turkey	0	151	0	0	2	0	60	0	0	5
Ukraine	494	0	0	0	240	521	0	0	0	
United Kingdom	1	384	0	0	90	1	443	0	0	0
Total Europe	24676	209181	287	8707	11815	27924	217650	204	8763	12112
Australia	187664	204684	0	0	944	187998	201303	0	0	644
New Zealand	1326	0	43	0	0	1187	0	0	0	0
Total Australia & Oceania	188990	204684	43	0	944	189185	201303	0	0	644
Botswana	0	249	0	0	0	0	204	0	0	
Egypt	0	0	0	0	101	0	0	0	0	
Mozambique	4060	749	0	0	0	3697	978	0	0	
South Africa	419	75080	0	0	0	1039	75434	0	0	
Zimbabwe	0	0	0	0	209	0	0	0	0	
Other Africa	0	417	0	0	0	0	550	0	0	
Total Africa	4479	76495	0	0	310	4736	77166	0	0	0
China (Region)	969	4228	0	0	9648	1203	7351	0	0	
DPR Korea	0	19863	0	0	0	0	22519	0	0	
India	64	1511	0	1	149	0	724	0	0	
Indonesia	985	136470	229253	0	0	1013	128993	239896	0	
Islamic Republic of Iran	182	0	0	0	15	124	0	0	0	
Japan	0	2	0	0	787	0	2	0	0	1014
Kyrgyzstan	0	227	0	10	0	0	5	0	0	
Malaysia	0	248	0	0	0	0	236	0	0	
Mongolia	12509	1917	0	46	0	23573	2139	0	97	
Philippines	0	0	3105	0	0	0	0	7550	0	
Thailand	0	21	0	0	0	0	34	0	0	
Uzbekistan	0	0	0	37	0	0	0	0	0	
Vietnam	0	1748	0	0	172	0	1277	0	0	
Other Asia	0	25	0	1	56	0	0	0	1	
Total Asia	14709	166260	232358	95	10827	25913	163280	247446	98	1014
World	303926	757234	238027	8923	26759	314133	759854	250539	8966	14760

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 (Table11.1), Number of Mines, State-wise (Table11.2), Number of Mines, Sector-wise (Table11.3), Number of Mines, Captive/ Non Captive (Table11.4), Number of Mines, Public / Private, Captive/Non Captive (Table11.5), Number of Working Coal Mines (Table11.6), Number of working Lignite Mines (Table11.7), Number of Mines - State-wise, Public/ private, Captive/ Non captive (Table11.8), and Number of Lignite Mines, State-wise, Public/ private, Captive/ Non captive (Table11.9) as on 31.03.2017.

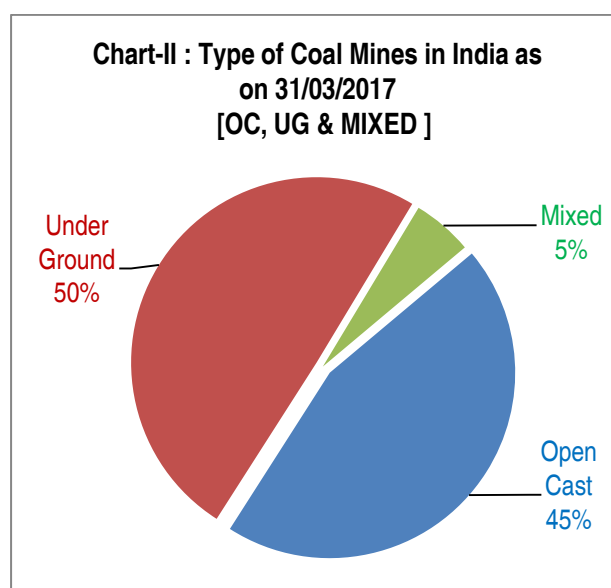
11.1.2 As on 31.03.2017, the total number of operating coal mines was 476. The state-wise distribution of these coal mines is given in statement 11.1.

State	No. of coal mines		
	Captive	Non-Captive	Total
Assam	0	4	4
Chhattisgarh	8	47	55
Jammu & Kashmir	0	4	4
Jharkhand	1	131	132
Madhya Pradesh	4	60	64
Maharashtra	1	56	57
Meghalaya	0	3	3
Odisha	1	28	29
Uttar Pradesh	0	5	5
Telangana	0	47	47
West Bengal	1	75	76
All India	16	460	476

11.1.3 As on 31.03.2017, 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.



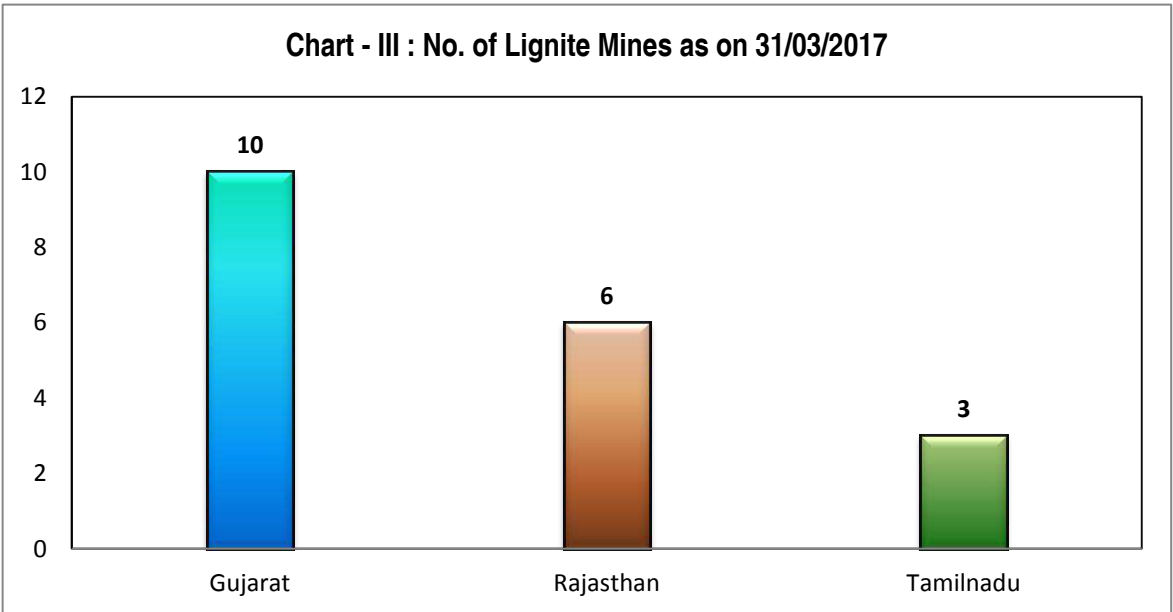
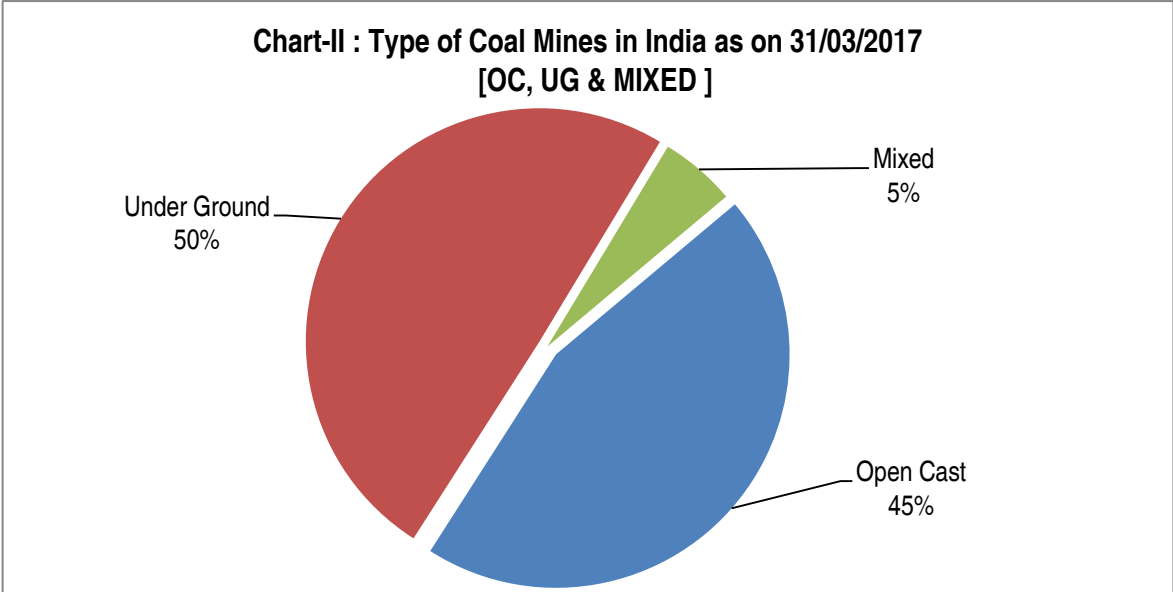
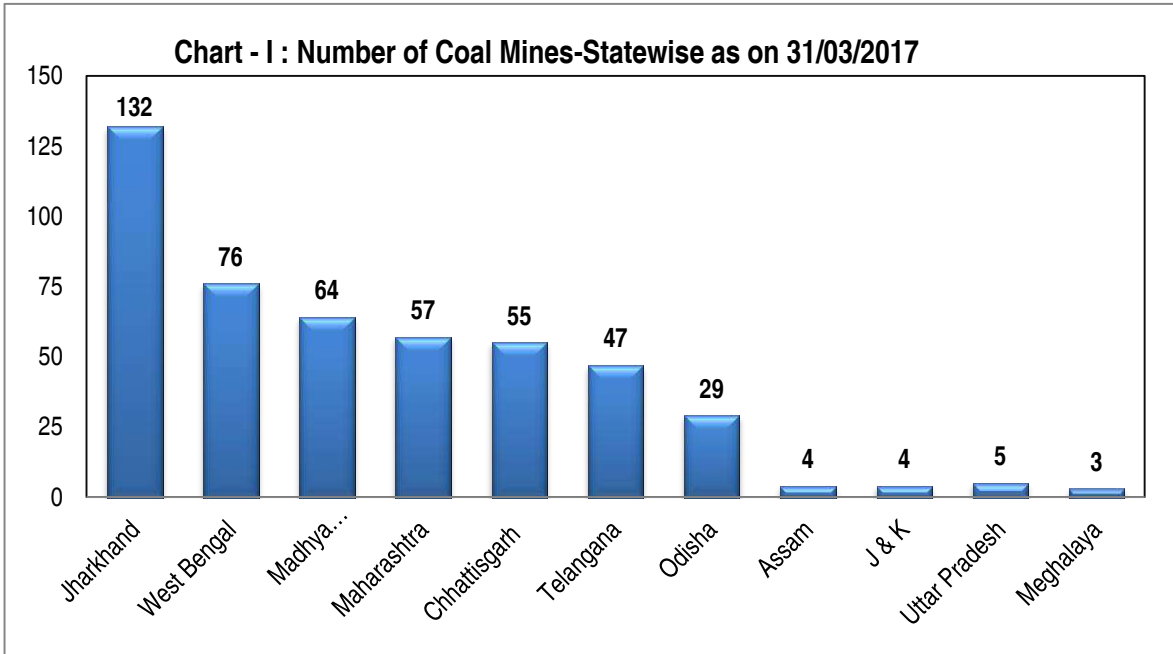


Table 11.1: Number of Coal & Lignite Mines -Companywise as on 31/03/2017

Coal / Lignite	Company	Number of Mines				
		OC	UG	Mixed	Total	
(1)	(2)	(3)	(4)	(5)	(6)	
Coal	ECL	19	60	8	87	
	BCCL	19	11	12	42	
	CCL	42	19	2	63	
	NCL	10	0	0	10	
	WCL	43	36	2	81	
	SECL	21	56	0	77	
	SECL(GP-IV/2&3)	1	0	0	1	
	SECL(GP-IV/1)	1	0	0	1	
	MCL	18	10	0	28	
	NEC	3	1	0	4	
	CIL		177	193	24	394
	SCCL	18	29	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	
	NTPC	1	0	0	1	
	PUBLIC		202	228	25	455
	TISCO	3	5	0	8	
	MEG	3	0	0	3	
	CESC	1	0	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	
	RCCPL	0	1	0	1	
	PRIVATE		13	8	0	21
	Total		215	236	25	476
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 31/03/2017

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	23	32	0	55
	J & K	0	4	0	4
	Jharkhand	73	43	16	132
	Madhya Pradesh	20	42	2	64
	Maharashtra	36	21	0	57
	Meghalaya	3	0	0	3
	Odisha	19	10	0	29
	Telangana	18	29	0	47
	Uttar Pradesh	5	0	0	5
	West Bengal	15	54	7	76
	All India		215	236	25
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 31/03/2017

Type	Sector	Number of Mines			
		OC	UG	Mixed	Total
(1)	(2)	(3)	(4)	(5)	(6)
COAL :	Public	202	228	25	455
	Private	13	8	0	21
	Total	215	236	25	476
LIGNITE :	Public	17			17
	Private	2			2
	Total	19			19

Table 11.4: Number of Mines -Captive/Non Captive as on 31/03/2017

Type	Sector	Number of Mines			
		OC	UG	Mixed	Total
(1)	(2)	(3)	(4)	(5)	(6)
COAL :	Captive	13	3	0	16
	Non Captive	202	233	25	460
	Total	215	236	25	476
LIGNITE :	Captive	15			15
	Non Captive	4			4
	Total	19			19

Table 11.5: Number of Mines -Public/Private, Captive/Non Captive as on 31/03/2017

Type	Sector	No. of Collieries			
		OC	UG	Mixed	Total
(1)	(2)	(3)	(4)	(5)	(6)
COAL :	Public Non-Captive	196	228	25	449
	Private Non-Captive	6	5	0	11
	Public Captive	6	0	0	6
	Private Captive	7	3	0	10
	Total	215	236	25	476
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 31/03/2017
(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	18	11	12	41				0
CCL						0				0			0	42	19	2	63				0
NCL						0				0			0				0	5			5
WCL						0				0			0				0	7	16	2	25
SECL						0	16	31	0	47			0				0	5	25		30
SECL(GP-IV/2&3)						0	1			1			0				0				0
SECL(GP-IV/1)						0	1			1			0				0				0
MCL						0				0			0				0				0
NEC				3	1	4				0			0				0				0
CIL	0	0	0	3	1	4	18	31	0	49	0	0	0	67	37	15	119	17	41	2	60
SCCL			0			0				0			0				0				0
JKML			0			0				0	4	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
NTPC			0			0	1			1		0					0				0
PUBLIC	0	0	0	3	1	4	21	31	0	52	0	4	4	70	38	16	124	17	41	2	60
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
RCCPL			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	1	0	4
Total	0	0	0	3	1	4	23	32	0	55	0	4	4	73	43	16	132	20	42	2	64

Contd...

Table 11.6: Number of Working Coal Mines as on 31/03/2017
(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	12	53	7	72	19	60	8	87
BCCL				0	0				0	0				0	1			1	19	11	12	42
CCL				0	0				0	0				0				0	42	19	2	63
NCL				0	0				0	5	5			0				0	10	0	0	10
WCL	36	20		56	0				0	0				0				0	43	36	2	81
SECL				0	0				0	0				0				0	21	56	0	77
SECL(GP-IV/2&3)				0	0				0	0				0				0	1	0	0	1
SECL(GP-IV/1)				0	0				0	0				0				0	1	0	0	1
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	36	20	0	56	0	0	18	10	28	5	5	0	0	0	13	53	7	73	177	193	24	394
SCCL				0	0				0	0	18	29	47					0	18	29	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
NTPC				0	0				0	0				0				0	1	0	0	1
PUBLIC	36	20	0	56	0	0	18	10	28	5	5	18	29	47	14	54	7	75	202	228	25	455
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	1	0	0	1
HIL					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
RCCPL				0	0				0	0				0				0	0	1	0	1
PRIVATE	0	1	0	1	3	3	1	0	1	0	0	0	0	0	1	0	0	1	13	8	0	21
Total	36	21	0	57	3	3	19	10	29	5	5	18	29	47	15	54	7	76	215	236	25	476

Table 11.7: Number of Working Lignite Mines as on 31/03/2017

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 31/03/2017**

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	8	47	55	52	3	55
Jammu & Kashmir	0	4	4	4	0	4
Jharkhand	1	131	132	124	8	132
Madhya Pradesh	4	60	64	60	4	64
Maharashtra	1	56	57	56	1	57
Meghalaya	0	3	3	0	3	3
Odisha	1	28	29	28	1	29
Uttar Pradesh	0	5	5	5	0	5
Telangana	0	47	47	47	0	47
West Bengal	1	75	76	75	1	76
All India	16	460	476	455	21	476

**TABLE 11.9: NO. OF LIGNITE MINES CAPTIVE, NON-CAPTIVE, PUBLIC AND PRIVATE
AS WELL AS STATE-WISE BREAK UP as on 31/03/2017**

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 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 01-04-2017 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 22 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
22	2016-2017	2.308

According to the Mining & Geology Deptt. of the Govt. of Meghalaya, ungraded type of coal is mined from the large number of small 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
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
2016-17	0.597	0.279	1.432	2.308

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 2016-17

(Quantity in Million Tonnes)

Month	Production
April'16	0.444
May'16	0.227
June'16	0
July'16	0
August'16	0
September'16	0
October'16	0.015
November'16	0.211
December'16	0.306
January'17	0.347
February'17	0.354
March'17	0.404
Total 2016-17	2.308

ABBREVIATIONS**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/1)	Gare Palma IV/1 (This to Coal Blocks are now under the Custody of SECL(Coal India Ltd. Subsidiary) - Public - 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
NTPC	National Thermal Power Corporation - Public - Captive
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
RCCPL	Reliance Cement Company Private 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