

SECTION 1 :

**PRIMARY SOURCES OF
CONVENTIONAL ENERGY IN INDIA**

PRODUCTION OF COAL & LIGNITE AND CRUDE PETROLEUM IN INDIA

'000 TONNES

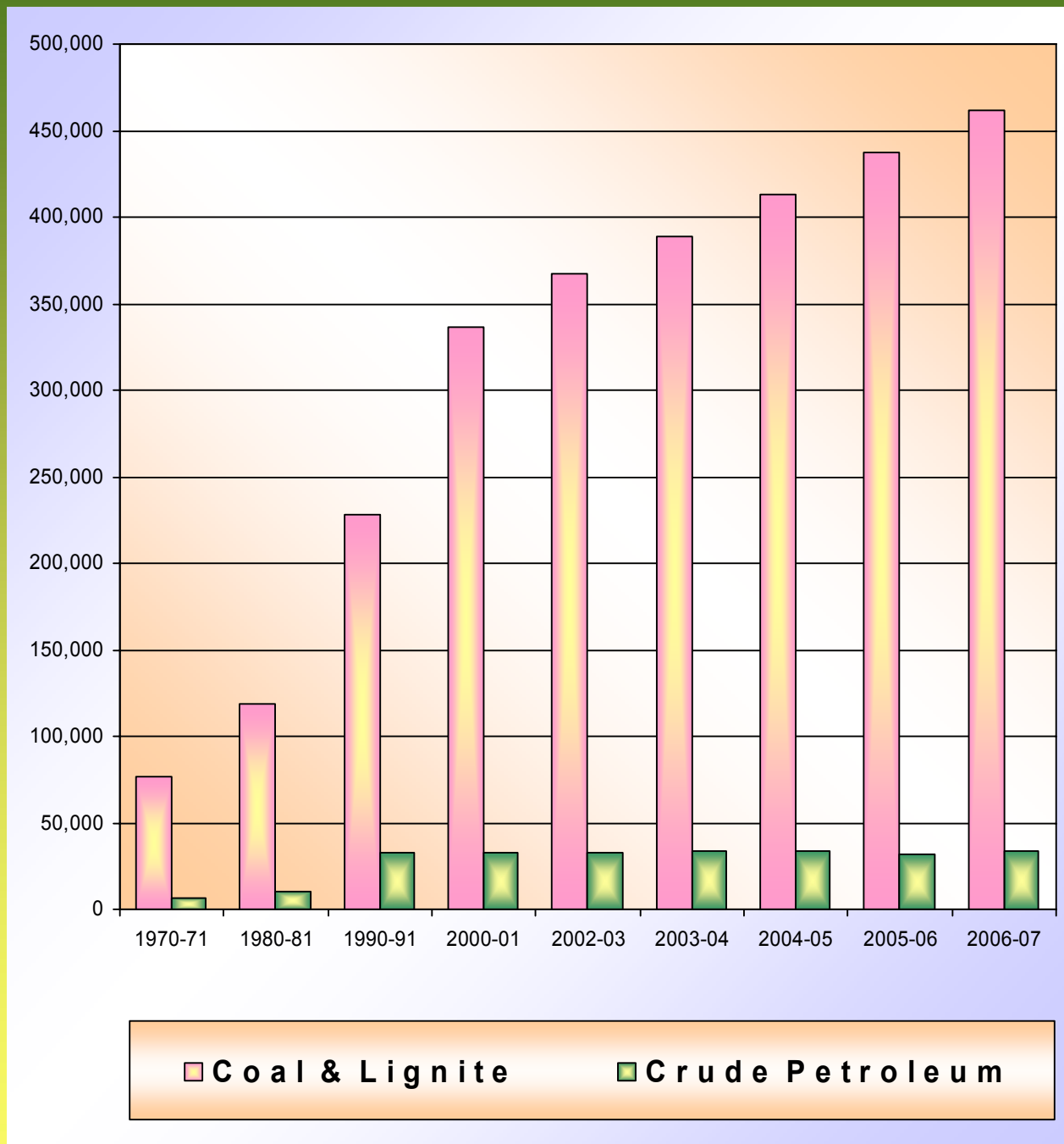


Exhibit (Table 1.1)

Table 1.1 : Production of Primary Sources of Conventional Energy in India

Year	Coal & Lignite (’000 Tonnes)	Crude Petroleum (’000 Tonnes)	Natural Gas (Million Cubic Metres)	Electricity* Hydro & Nuclear (GWh)
1	2	3	4	5
1970-71	76,340	6,822	1,445	27,666
1971-72	76,140	7,299	1,535	29,214
1972-73	80,110	7,321	1,565	28,329
1973-74	81,490	7,189	1,713	31,368
1974-75	91,350	7,684	2,041	30,081
1975-76	102,660	8,448	2,368	35,928
1976-77	105,010	8,898	2,428	38,088
1977-78	104,560	10,763	2,839	40,279
1978-79	105,250	11,633	2,812	49,929
1979-80	106,840	11,766	2,767	48,354
1980-81	119,020	10,507	2,358	49,543
1981-82	131,240	16,194	3,851	52,586
1982-83	137,530	21,063	4,936	50,396
1983-84	147,539	26,020	5,961	53,500
1984-85	155,277	28,990	7,241	58,023
1985-86	162,336	30,168	8,134	56,003
1986-87	175,290	30,480	9,853	58,862
1987-88	192,551	30,357	11,467	52,479
1988-89	208,820	32,040	13,217	63,690
1989-90	215,724	34,087	16,988	66,741
1990-91	228,131	33,021	17,998	77,782
1991-92	248,805	30,346	18,645	78,282
1992-93	258,616	26,950	18,060	76,595
1993-94	266,785	27,026	18,335	75,861
1994-95	277,080	32,239	19,468	88,360
1995-96	295,561	35,167	22,642	80,561
1996-97	308,720	32,900	23,256	77,972
1997-98	320,221	33,858	26,401	84,665
1998-99	315,689	32,722	27,428	94,846
1999-00	322,168	31,949	28,446	94,005
2000-01	336,643	32,426	29,477	91,264
2001-02	352,601	32,032	29,714	93,054
2002-03	367,290	33,044	31,389	83,404
2003-04	389,204	33,373	31,962	93,022
2004-05	412,952	33,981	31,763	101,621
2005-06	437,105	32,190	32,202	118,818
2006-07(P)	461,980	33,988	31,747	131,966

GWh = Giga Watt hour = 10^6 x Kilo Watt hour

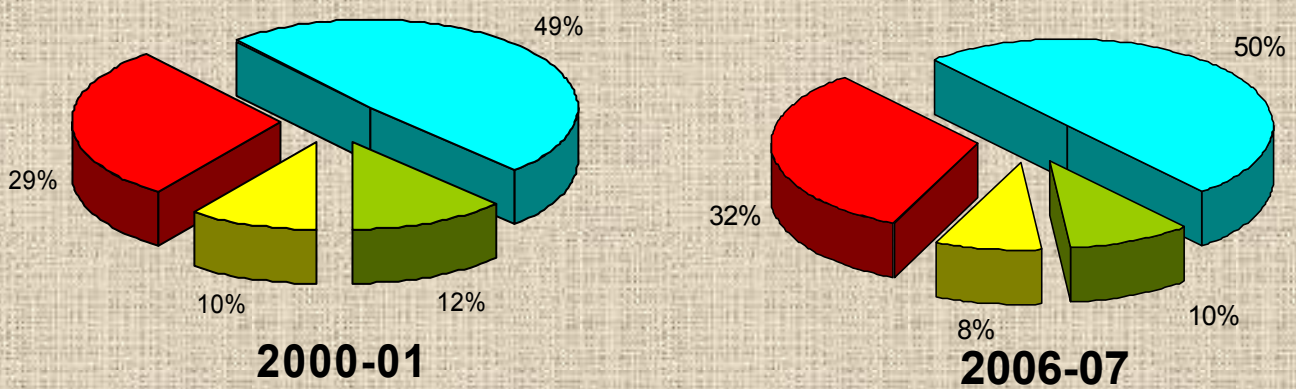
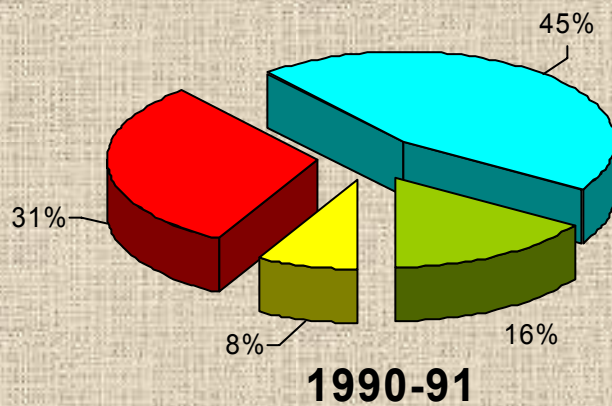
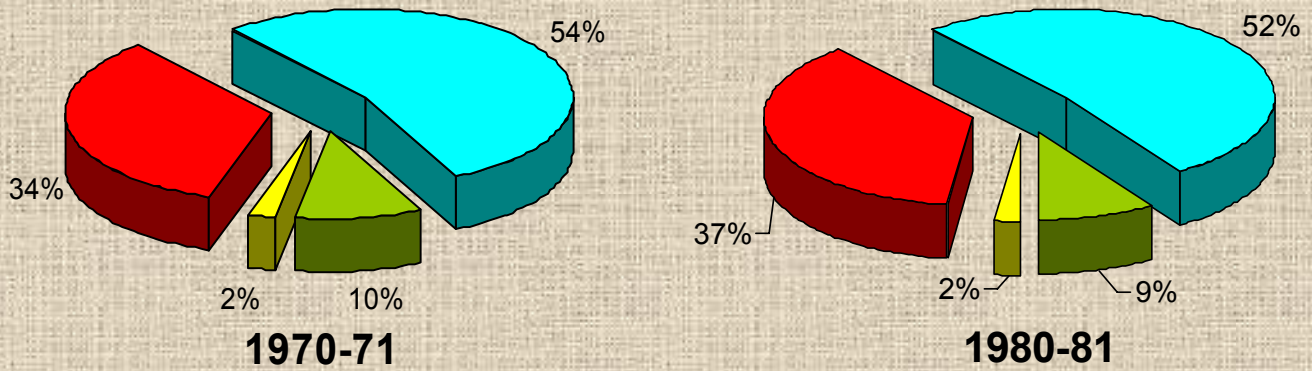
* Thermal electricity is not a primary source of energy

Sources: 1. Office of Coal Controller, Ministry of Coal and Mines.

2. Ministry of Petroleum & Natural Gas.

3. Central Electricity Authority.

PERCENTAGE PRODUCTION SHARE OF PRIMARY SOURCES OF CONVENTIONAL ENERGY IN INDIA



- Coal & Lignite
- Crude Petroleum
- Natural Gas
- Electricity (Hydro & Nuclear)

Exhibit (Table 1.2)

**Table 1.2 : Production of Conventional Energy (in Peta Joules) @
in India by Primary Sources**

Year	Coal & Lignite	Crude Petroleum	Natural Gas	Electricity(Hydro & Nuclear) *	Total
1	2	3	4	5	6= 2 to 5
1970-71	1,598	286	56	996	2,936
1971-72	1,594	306	59	1,052	3,011
1972-73	1,677	307	60	1,020	3,064
1973-74	1,706	301	66	1,129	3,202
1974-75	1,912	322	79	1,083	3,396
1975-76	2,149	354	91	1,293	3,887
1976-77	2,198	373	94	1,371	4,036
1977-78	2,188	451	109	1,450	4,198
1978-79	2,203	487	108	1,797	4,595
1979-80	2,236	493	107	1,741	4,577
1980-81	2,491	440	91	1,784	4,806
1981-82	2,747	678	148	1,893	5,466
1982-83	2,748	882	190	1,814	5,634
1983-84	2,948	1,089	230	1,926	6,193
1984-85	3,047	1,214	279	2,089	6,629
1985-86	3,185	1,263	313	2,016	6,777
1986-87	3,439	1,276	380	2,119	7,214
1987-88	3,778	1,271	442	1,889	7,380
1988-89	4,097	1,342	509	2,293	8,241
1989-90	4,233	1,427	654	2,403	8,717
1990-91	4,063	1,383	693	2,800	8,939
1991-92	4,431	1,271	718	2,818	9,238
1992-93	4,606	1,128	696	2,757	9,187
1993-94	4,751	1,132	706	2,731	9,320
1994-95	4,935	1,350	750	3,181	10,216
1995-96	5,264	1,472	872	2,900	10,508
1996-97	5,498	1,378	896	2,807	10,579
1997-98	5,469	1,418	1,017	3,048	10,952
1998-99	5,392	1,370	1,057	3,414	11,233
1999-00	5,454	1,338	1,096	3,384	11,272
2000-01	5,683	1,358	1,135	3,286	11,462
2001-02	5,948	1,341	1,145	3,350	11,784
2002-03	6,126	1,383	1,209	3,003	11,721
2003-04	6,496	1,397	1,231	3,349	12,473
2004-05	6,855	1,423	1,224	3,658	13,160
2005-06	7,008	1,348	1,240	4,277	13,873
2006-07(P)	7,335	1,423	1,223	4,751	14,732

* Thermal electricity is not a primary source of energy

@ Conversion factors have been applied to convert production of primary sources of conventional energy into peta joules

- Sources: 1. Office of Coal Controller, Ministry of Coal and Mines.
2. Ministry of Petroleum & Natural Gas.
3. Central Electricity Authority.

Table 1.3 : Availability of Primary Sources of Conventional Energy in India

Year	Coal # (‘000 Tonnes)	Crude Petroleum (‘000 Tonnes)	Natural Gas (Million Cubic Metres)	Electricity Hydro & Nuclear (GWh)
1	2	3	4	5
1970-71	71,240	18,505	647	27,666
1971-72	74,070	20,250	718	29,214
1972-73	78,210	19,405	771	28,329
1973-74	77,680	21,044	762	31,368
1974-75	85,600	21,700	951	30,081
1975-76	92,170	22,072	1,124	35,928
1976-77	100,100	22,946	1,381	38,088
1977-78	103,840	25,270	1,464	40,279
1978-79	100,160	26,290	1,711	49,929
1979-80	105,540	27,887	1,676	48,354
1980-81	109,320	26,755	1,522	49,543
1981-82	121,020	30,654	2,222	52,586
1982-83	130,138	33,460	2,957	50,396
1983-84	139,302	36,465	3,401	53,500
1984-85	141,458	36,154	4,141	58,023
1985-86	155,536	44,784	4,950	56,003
1986-87	166,846	45,956	7,075	58,862
1987-88	180,645	48,091	7,968	52,479
1988-89	193,970	49,855	9,250	63,690
1989-90	209,481	53,577	11,172	66,741
1990-91	214,987	53,720	12,765	77,782
1991-92	232,338	54,340	14,441	78,282
1992-93	245,255	56,197	16,116	76,595
1993-94	256,327	57,848	16,340	75,861
1994-95	269,180	59,588	17,337	88,360
1995-96	284,043	62,509	20,932	80,561
1996-97	298,621	66,806	21,324	77,972
1997-98	306,824	68,351	24,545	84,665
1998-99	310,738	72,530	25,706	94,846
1999-00	315,047	89,754	26,885	94,005
2000-01	325,448	106,523	27,860	91,264
2001-02	343,124	110,738	28,037	93,054
2002-03	361,745	115,033	29,964	83,404
2003-04	379,405	123,807	30,906	93,022
2004-05	404,691	129,842	30,775	101,621
2005-06	433,292	131,599	31,325	118,818
2006-07(P)	462,799	144,846	30,791	131,966

GWh = Giga Watt hour = 10^6 x Kilo Watt hour

Does not include Lignite.

* Thermal electricity is not a primary source of energy

Sources: 1. Office of Coal Controller, Ministry of Coal and Mines.

2. Ministry of Petroleum & Natural Gas.

3. Central Electricity Authority.

Table 1.4: Sourcewise Consumption of Conventional Energy in India

Year	Coal # (‘000 Tonnes)	Crude Petroleum** (‘000 Tonnes)	Natural Gas (Million Cubic Metres)	Electricity* (GWh)
1	2	3	4	5
1970-71	71,230	18,379	647	43,724
1971-72	74,060	20,042	718	47,073
1972-73	78,180	19,328	771	49,088
1973-74	77,660	20,958	762	50,246
1974-75	85,580	21,094	951	52,632
1975-76	92,160	22,283	1,126	60,246
1976-77	100,100	22,995	1,381	66,639
1977-78	103,780	24,898	1,464	69,255
1978-79	100,150	25,974	1,711	77,293
1979-80	105,530	27,474	1,681	78,084
1980-81	109,310	25,836	1,522	82,367
1981-82	121,010	30,146	2,222	90,245
1982-83	130,130	33,156	2,957	95,589
1983-84	137,290	35,263	3,401	102,344
1984-85	141,450	35,556	4,141	114,068
1985-86	155,530	42,910	4,950	123,099
1986-87	166,840	45,699	7,075	135,952
1987-88	179,209	47,754	7,968	145,613
1988-89	192,115	48,803	9,250	160,196
1989-90	203,424	51,942	11,172	175,419
1990-91	213,360	51,772	12,766	190,357
1991-92	232,330	51,423	14,442	207,645
1992-93	241,750	53,482	16,116	220,674
1993-94	256,320	54,296	16,340	238,569
1994-95	269,174	56,534	17,337	259,629
1995-96	284,037	58,741	18,091	277,029
1996-97	298,620	62,870	18,632	280,146
1997-98	306,824	65,166	21,513	296,749
1998-99	313,476	68,538	22,489	309,734
1999-00	315,047	85,964	26,885	312,841
2000-01	341,220	103,444	27,860	316,600
2001-02	349,740	107,274	28,037	322,459
2002-03	361,745	112,559	29,964	339,598
2003-04	379,405	121,841	30,906	360,937
2004-05	404,691	127,117	30,775	386,134
2005-06	433,292	130,109	31,025	411,887
2006-07(P)	462,799	146,551	31,368	443,163

GWh = Giga Watt hour = 10^6 x Kilo Watt hour

* Includes thermal, hydro & nuclear electricity from utilities.

** Crude oil in terms of refinery crude throughput.

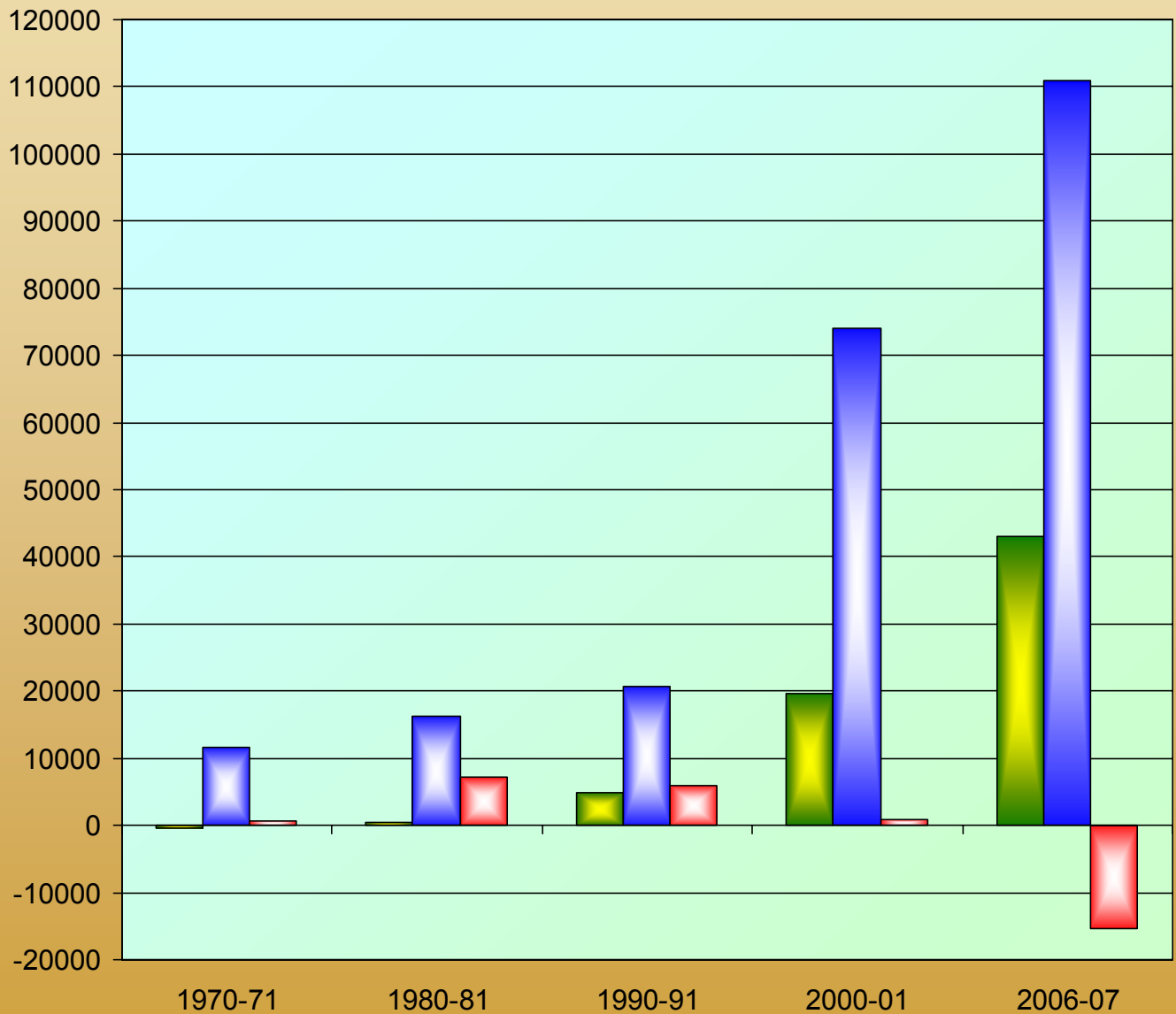
Does not include Lignite.

Sources: 1. Office of Coal Controller, Ministry of Coal and Mines.
2. Ministry of Petroleum & Natural Gas.
3. Central Electricity Authority.

FOREIGN TRADE IN COAL, CRUDE OIL AND PETROLEUM PRODUCTS IN INDIA

NET IMPORTS

(000` TONNES)



■ COAL

■ CRUDE OIL

■ PETROLEUM PRODUCTS

Exhibit (Table 1.5)

Table 1.5: Foreign Trade in Coal, Crude Oil and Petroleum Products in India

('000 Tonnes)

Year	Coal			Crude Oil			Petroleum Products		
	Gross	Exports	Net	Gross	Exports	Net	Gross	Exports	Net
	Imports		Imports	Imports		Imports	Imports		Imports
1	2	3	4=(2)-(3)	5	6	7=(5)-(6)	8	9	10=(8)-(9)
1970-71	-	470	(470)	11,683	-	11,683	1,084	332	752
1971-72	-	230	(230)	12,951	-	12,951	2,147	136	2,011
1972-73	-	460	(460)	12,084	-	12,084	3,525	126	3,399
1973-74	-	620	(620)	13,873	18	13,855	3,548	161	3,387
1974-75	-	540	(540)	14,016	-	14,016	2,648	175	2,473
1975-76	-	440	(440)	13,624	-	13,624	2,218	170	2,048
1976-77	-	640	(640)	14,048	-	14,048	2,624	74	2,550
1977-78	-	660	(660)	14,507	-	14,507	2,879	47	2,832
1978-79	220	270	(50)	14,657	-	14,657	3,878	44	3,834
1979-80	940	90	850	16,121	-	16,121	4,724	88	4,636
1980-81	550	110	440	16,248	-	16,248	7,289	36	7,253
1981-82	650	160	490	15,298	838	14,460	4,884	55	4,829
1982-83	1,380	150	1,230	16,949	4,552	12,397	5,028	795	4,233
1983-84	460	80	380	15,967	5,522	10,445	4,328	1,472	2,856
1984-85	580	130	450	13,642	6,478	7,164	6,092	933	5,159
1985-86	2,030	210	1,820	15,144	528	14,616	3,865	1,963	1,902
1986-87	2,100	160	1,940	15,476	-	15,476	3,047	2,491	556
1987-88	2,970	170	2,800	17,734	-	17,734	4,151	3,412	739
1988-89	3,700	200	3,500	17,815	-	17,815	6,495	2,295	4,200
1989-90	4,410	160	4,250	19,490	-	19,490	6,564	2,593	3,971
1990-91	4,900	100	4,800	20,699	-	20,699	8,660	2,648	6,012
1991-92	5,920	110	5,810	23,994	-	23,994	9,445	2,936	6,509
1992-93	6,250	130	6,120	29,247	-	29,247	11,283	3,719	7,564
1993-94	7,100	100	7,000	30,822	-	30,822	12,076	4,034	8,042
1994-95	8,270	120	8,150	27,349	-	27,349	13,951	3,254	10,697
1995-96	8,870	89	8,781	27,342	-	27,342	20,335	3,435	16,900
1996-97	13,177	480	12,697	33,906	-	33,906	20,265	3,162	17,103
1997-98	16,469	541	15,928	34,493	-	34,493	22,970	2,381	20,589
1998-99	16,536	787	15,749	39,808	-	39,808	23,772	720	23,052
1999-00	19,700	1,156	18,544	57,805	-	57,805	16,608	746	15,862
2000-01	20,930	1,292	19,638	74,097	-	74,097	9,267	8,365	902
2001-02	20,548	1,903	18,645	78,706	-	78,706	7,009	10,065	(3,056)
2002-03	23,260	1,517	21,743	81,989	-	81,989	7,228	10,289	(3,061)
2003-04	21,683	1,627	20,056	90,434	-	90,434	8,001	14,620	(6,619)
2004-05	28,950	1,374	27,576	95,861	-	95,861	8,828	18,211	(9,383)
2005-06	38,586	1,989	36,597	99,409	-	99,409	11,677	21,507	(9,830)
2006-07(P)	45,000	2010	42,990	110,858	-	110,858	16,966	32,394	(15,428)

Note: Figures in brackets are in negative.

Sources: 1. Office of Coal Controller, Ministry of Coal and Mines.
2. Ministry of Petroleum & Natural Gas.

WHOLESALE PRICE INDICES OF COAL, LIQUIFIED PETROLEUM GAS AND ELECTRICITY IN INDIA

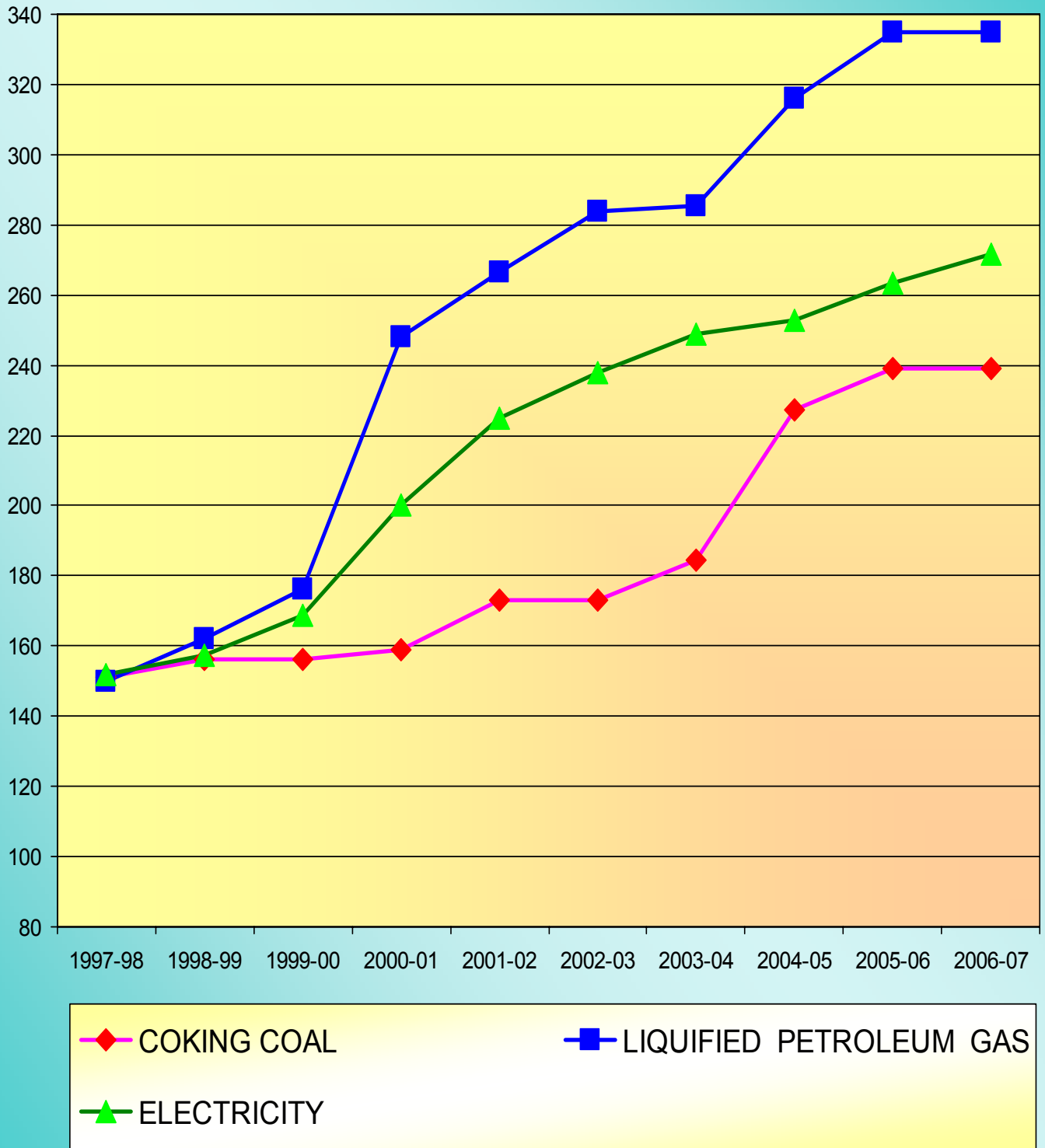


Exhibit (Table 1.6)

Table 1.6 : Wholesale Price Indices of Coal, Liquefied Petroleum Gas & Electricity in India

(1993-94=100)

Year	Coking Coal	Liquefied Petroleum Gas	Electricity
1	2	3	4
1981-82	28.9	46.8	31.4
1982-83	33.5	48.5	35.0
1983-84	37.0	47.4	37.9
1984-85	44.8	48.2	39.2
1985-86	45.9	55.8	43.9
1986-87	50.4	61.8	48.2
1987-88	52.8	61.8	52.4
1988-89	61.3	61.8	55.5
1989-90	66.9	61.8	59.0
1990-91	67.1	61.8	63.1
1991-92	72.1	70.1	70.0
1992-93	87.0	87.0	78.2
1993-94	100.0	100.0	100.0
1994-95	105.1	109.5	113.6
1995-96	106.2	109.5	127.8
1996-97	131.8	131.4	133.5
1997-98	151.1	150.0	151.8
1998-99	156.1	162.0	157.2
1999-00	156.1	176.1	168.9
2000-01	158.9	248.2	200.0
2001-02	173.2	266.6	224.8
2002-03	173.2	284.0	238.0
2003-04	184.6	285.5	248.8
2004-05	227.2	316.0	253.0
2005-06	239.0	334.8	263.4
2006-07	239.0	334.8	271.7

Source : Office of the Economic Advisor, Ministry of Commerce & Industry.