INDIAN PETROLEUM & NATURAL GAS STATISTICS

1993-1994

ECONOMICS & STATISTICS DIVISION
MINISTRY OF PETROLEUM & NATURAL GAS
GOVERNMENT OF INDIA
NEW DELHI

PREFACE

The Ministry of Petroleum & Natural Gas has been bringing out the handbook of Indian Petroleum & Natural Gas Statistics since 1967 with the objective of providing data and information on all segments of the petroleum industry in a comprehensive volume. The publication provides information both on financial year as well as calendar year basis for meeting requirements of national and international users. The handbook also provides information on financial performance/ structure of the major oil companies during the year 1992-93 and 1993-94.

A special effort has been made to improve the lay-out and design. Comments and suggestions for making information more purposeful and presentation better will be highly appreciated.

Detailed work involved in preparation of this issue has been done in the Economics & Statistics Division.

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SCOPE AND COVERAGE OF DATA PUBLISHED

1. **Scope :** The Indian Petroleum & Natural Gas Statistics presents comprehensive statistics on various aspects of Indian Petroleum and Natural Gas industries. The data on international developments in respect of the Important segment of Petroleum and Natural Gas Industries has also been presented in the publication.

2. **Coverage :** The statistics presented in the publication covers the exploration, production, refining, marketing activities etc. of petroleum and natural gas industries.

3. **Source :** The primary statistics in respect of petroleum and natural gas industries included in the publication is based on various returns submitted by the oil companies in the country to the Ministry of Petroleum & Natural Gas.

   The Sources of all the secondary data, including international statistics, incorporated in the publication, have been indicated at the bottom of relevant tables.

4. **Limitations :** The data in respect of sales/consumption of petroleum products reflect despatches of various petroleum products from the sales depots of different oil companies to the bulk consumers/retail outlets. The State-wise sales/consumption of such products show despatches to direct consumers/retail outlets meant for consumption/sales in a particular State.

5. **Reference Period :** All the key statistics for the domestic petroleum and natural gas industries have been presented on calendar (January-December) as well as on financial year (April-March) basis.

6. **Natural Gas :** The gross production of natural gas reflects gross withdrawals of natural gas from reservoir. On the other hand, the net production of natural gas shows gross withdrawal of natural gas from reservoirs less gas used for reinjection into reservoirs for pressuring and gas which is flared and/or vented.

   The utilisation data for natural gas includes gas marketed, gas used for LPG extraction and gas consumed for field operations by the companies engaged in hydrocarbons exploration/production activities.

7. **Petroleum Exports :** The data relating to export of crude oil includes Indian Crude oil (Bombay High) consigned for processing abroad. The refined petroleum products supplied by the Indian Oil Corporation to Nepal have also been included under Indian exports from 1983-84 onward. Prior to 1983-84, the supplies of products to Nepal have not been included under exports.

8. **Petroleum Imports :** The crude oil and product import figures given in the publication included crude oil/Pol products imported by the Indian oil companies on behalf of Nepal for processing of crude oil in Indian refineries and arranging supplies of desired products to Nepal. Petroleum products actually brought into the country from processing of Indian or International crudes at foreign refineries for Indian oil companies, have also been included under the product import figures.

9. **Value of Import/Export :** The value data in respect of exports of petroleum included in the publication shows F.O.B. value of exports whereas similar value figures for imports reflect C.I.F. value of imports.

10. **Revision/Updating :** Necessary revision/updating in the past data have been made in the light of latest available figures.

11. **Abbreviations :** Details of abbreviations used have been provided in Appendix.

12. **Conversion Factors :** The conversion factors generally used in the Oil Sector are also given in the Appendix.

INDIAN ECONOMY – SELECTED INDICATORS

	Indicator	Unit/Base	1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95* (Apl-Sep)
1.	**Geographical Area**	M.Sq. Km.	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29
2.	**Population**	Million	690	766	827	844	850	879	889	N.A.
3.	**Gross National Product at factor cost :**									
	i. At Current prices	Rs. Crores	122772	232370	402931	468059	540143	616504	695342	N.A
	ii. At 1980-81 prices	"	122772	155365	198082	207488	208651	217597	228671	N.A
4.	**Net National Product** at factor cost :									
	i. At current prices	Rs. Crores	110685	206133	357931	416495	477868	544935	615273	N.A
	ii. At 1980-81 prices	"	110685	139025	177552	185683	185503	193222	202670	N.A
5.	**Per Capita Net National Product :**									
	i. At current prices	Rupees	1630	2730	4354	4964	5583	6249	6929	N.A
	ii. At 1980-81 prices	"	1630	1841	2160	2213	2167	2216	2282	N.A
6.	**Foreign Exchange Reserves**									
	i. Gold+	Rs. Crores	225.6	274.3	280.7	6828.3	9038.8	10548.8	127940	N.A.
	ii. SDR	Mn. of SDRs	490.5	115.1	81.9	75.9	65.7	12.7	76.0	N.A.
	iii. Foreign Exchange	Rs. Crores	4822.1	7384.4	5787.2	4388.1	14578.0	20140.5	47287	N.A
7.	**Foreign Trade**									
	i. Import	Rs. Crores	12549	19658	35328	43198	47851	63375	72806	40315
	ii. Export	"	6711	10895	27658	32553	44041	53688	69547	36455
	iii.Balance of Trade	"	-5838	-8763	-7670	-10645	-3810	-9687	-3259	-3860
8.	**Index of Production**									
	i. Agricultural	@	135.3	158.8	186.6	192.2	188.5	195.8	N.A.	N.A.
	ii. Industrial	1980-81=100	100.0	142.1	196.4	212.6	212.5	216.3	224.0	N.A.
9.	**Wholesale Price Index**	1981-82=100		125.4	165.7	182.7	207.8	228.7	247.8	272.0 $$
10.	**Consumer Price Index**									
	i. Industrial Workers	1982=100		126	173	193	219	240	258	N.A.
	ii. Agricultural Labourers	1960-61=100	395	546	746	803	958	1076	1114	N.A.
	iii.Urban non-manual employees	1984-85=100		107	145	161	183	202	215	N.A
11.	**Employment : @@**									
	i. Public Sector	Million	15.48	17.68	18.76	19.06	N.A.	N.A.	N.A.	N.A.
	ii. Private Sector	"	7.40	7.37	7.58	7.68	N.A.	N.A.	N.A.	N.A.
	Total	"	22.88	25.05	26.34	26.74	N.A.	N.A.	N.A.	N.A.
	No. of persons on live register of employment exchange	Million	16.20	27.03	33.25	34.89	36.55	36.31	36.04	N.A.
12.	**Energy Generation (Gross)**									
	Coal	Mn. Tonnes	113.91	154.20	200.89	211.73	229.28	238.26	246.00	102.85
	Lignite	"	5.11	8.05	12.64	14.11	15.97	16.62	16.90	8.50
	Natural Gas	Mn. Cub. Mtr.	2358	8134	16988	17998	18645	18060	18335	9670
	Crude Oil	Mn. Tonnes	10.51	30.17	34.09	33.02	30.35	26.95	27.03	15.23
	Petroleum Products	"	25.35	42.74	52.14	52.20	52.21	54.44	55.31	28.24
13.	**Electricity**									
	i. Utilities									
	Hydel	B. KWH	46.5	51.0	62.1	71.7	72.8	69.9	70.3	43.9
	Thermal	"	61.3	114.4	178.7	186.5	208.7	224.8	247.6	121.2
	Nuclear	"	3.0	5.0	4.6	6.1	5.5	6.7	5.4	2.5
	Total	"	**110.8**	**170.4**	**245.4**	**264.3**	**287.0**	**301.4**	**323.3**	**167.6**
	ii. Non-utilities	"	8.4	13.0	23.0	25.1	28.6	30.2	32.3	17.4
	GRAND TOTAL	"	**119.3**	**183.4**	**268.4**	**289.4**	**315.6**	**331.6**	**355.6**	**185.0**

$: Provisional. Source : Economic Survey 1993-94 @@ : As on 31st March.

@ : Triennium ending 1969-70=100. N.A. : Not available. $$: Sep '94.

\+ : Gold is valued at Rs. 53.58 per 10 gms upto May 1966 and at Rs. 84.39 per 10 gms upto Sep. 1990 and closer to international market price w.e.f Oct. 17, 1990.

GROWTH OF INDIAN PETROLEUM INDUSTRY AT A GLANCE

	Indicator	Unit	1980-81	1985-86	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95 $ (Apl-Sep)
1.	**Reserves @**									
	(Balance Recoverable)									
	(i.) Crude Oil	Mn. Tonnes	366	500	726	739	806	801	779	765
	(ii.) Natural Gas	Bn. Cub. Mtr.	352	479	648	686	730	735	718	707
2.	**Consumption**									
	(i.) Crude Oil (in terms of refinery crude throughput)	Mn. Tonnes	25.84	42.91	51.94	51.77	51.42	53.48	54.30	27.93
	(ii.) Petroleum Products (excl. RBF)	"	30.90	40.87	54.10	55.04	56.97	58.90	60.81	30.93
3.	**Production**									
	(i.) Crude Oil	"	10.51	30.17	34.09	33.02	30.35	26.95	27.03	15.22
	(ii.) Petroleum Products	"	24.12	39.88	48.69	48.56	48.35	50.36	51.08	25.98
4.	**Imports & Exports**									
	(i.) **Gross Imports :**									
	(a) Qty. : Crude Oil	"	16.25	15.15	19.49	20.70	23.99	29.25	30.82	13.61
	Pol. Products	"	7.29	3.86	6.56	8.66	9.45	11.28	12.08	6.30
	Total (a)	"	**23.54**	**19.01**	**26.05**	**29.36**	**33.44**	**40.53**	**42.90**	**19.91**
	(b) Value : Crude Oil	Rs. Crores	3349	3687	4089	6118	7820	10686	10689	5030
	Pol. Products	"	1917	1274	2255	4660	5218	6360	7041	3285
	Total (b)	"	**5266**	**4961**	**6344**	**10778**	**13038**	**17046**	**17730**	**8315**
	(ii.) **Exports :**									
	(a) Qty. : Crude Oil	Mn. Tonnes	-	0.53	-	-	-	-	-	-
	Pol. Products	"	0.04	1.96	2.59	2.65	2.94	3.71	4.03	1.68
	Total (a)	"	**0.04**	**2.49**	**2.59**	**2.65**	**2.94**	**3.71**	**4.03**	**1.68**
	(b) Value : Crude Oil	Rs. Crores	-	135	-	-	-	-	-	-
	Pol. Products	"	8	510	696	1004	1215	1604	1507	798
	Total (b)	"	**8**	**645**	**696**	**1004**	**1215**	**1604**	**1507**	**798**
	(iii.) **Net Imports :**									
	(a) Qty. : Crude Oil	Mn. Tonnes	16.25	14.62	19.49	20.70	23.99	29.25	30.82	13.61
	Pol. Products	"	7.25	1.90	3.97	6.01	6.51	7.57	8.04	4.62
	Total (a)	"	**23.50**	**16.52**	**23.46**	**26.71**	**30.50**	**36.82**	**38.86**	**18.23**
	(b) Value : Crude Oil	Rs. Crores	3349	3552	4089	6118	7820	10686	10689	5030
	Pol. Products	"	1909	764	1559	3656	4004	4755	5534	2487
	Total (b)	"	**5258**	**4316**	**5648**	**9774**	**11824**	**15441**	**16223**	**7517**
	(iv.) **Unit Value of Crude Oil imports (gross)**	Rs./MT	2061	2435	2098	2956	3260	3653	3468	3695
5.	**India's Total Exports**	Rs. Crores	6711	10895	27681	32553	44041	53688	69547	36455
6.	**Pol. Imports as percentage of India's total exports**									
	(i.) Gross Imports	%	78.5	45.5	22.9	33.1	29.6	31.8	25.5	22.8
	(ii.) Net Imports	%	78.3	39.6	20.4	30.0	26.8	28.8	23.3	20.6
7.	**Contribution of Oil Sector to Centre/State Resources**									
	(i.) Royalty from crude oil	Rs. Crores	41	379	656	2028	910	2079	1284	N.A.
	(ii.) Royalty from gas	"	3	22	120	138	214	209	215	N.A.
	(iii.) Oil Development Cess	"	60	866	2914	2782	2501	2192	2175	N.A.
	(iv.) Excise & Custom duties	"	1570	3768	8093	9179	9337	10322	12156	N.A.
	(v.) Sales Tax	"	628	1564	2824	3653	4727	5541	6274	N.A.
	(vi.) Generation of internal resources	"	359	2358	4524	3021	2822	3894	3734	N.A.
	(vii.) Corporate Tax/Others	"	76	740	764	646	748	709	799	N.A.
8.	**Natural Gas :**									
	(i.) Gross Production	Mn. Cu. Mtrs.	2358	8134	16988	17998	18645	18060	18335	9670
	(ii.) Utilisation	"	1522	4950	11172	12766	14441	16116	16340	8593

@ : As on Ist Jan. of first year. N.A. : Not available. $: Provisional.

PART - I

PETROLEUM STATISTICS

PART - I

PETROLEUM STATISTICS

II. CHRONOLOGY OF IMPORTANT EVENTS IN THE INDIAN PETROLEUM INDUSTRY DURING 1993-94

A. EXPLORATION AND PRODUCTION

1993-94 **Oil India Limited**

April, 1993
- The Company commissioned the following :
- One LPB Booster Compressor at GCS-2;
- One GL Compressor at GCS-2, MORAN;
- Dikom-Duliajan crude transportation line; &
- Kathaloni crude transportation line.

May, 1993
- Signed MOU with A.G.C. for supply of 0.075 MMSCUM of Natural Gas per day for Margherita Gas Grid.

June, 1993
- .....

July, 1993
- Oil discovered in Well Hapjan-23;
- Commissioned cavity flow pump at Well No. KSG-34.

August, 1993
- .....

September, 1993
- Commissioned Glycol Dehydration plant at Moran GCS-2;
- One LPB Compressor at Jorajan GCS.

October, 1993
- Commissioned Hapjan OCS and one GL Compressor at Kathalguri.

November, 1993
- In-house recording of 3 Dimensional Seismic Data started.

December, 1993
- Well monitoring system to help optimisation of performance of ROD pumps and one LPB compressor was commissioned at Kathalguri.

January, 1994
- Oil discovered in Well Makum and availability of gas was established in newly drilled Rajgarh structure in Stytg Rajgarh.
- Company commissioned Gas Chromatograph Mass Spectrometer and three heavy duty MOL trucks.

February, 1994
- One additional heavy duty MOL truck commissioned.

March, 1994
- Completion of hooking up of AGCL gas line with OIL's distribution network at Madhopur Tinali to utilise associated gas available at Kathaloni and Dikom area for reducing flare.
- Oil discovery made in Girujans of Pengri-Bordumsa area in Well Kheram-2.
- One Liquid Nitrogen transporting unit at Kathaloni EPS-2 and remote area business message network through satellite were commissioned.
- MOU signed with NEEPCO for supply of 1MMSCUM of Natural Gas per day.
- OIL awarded two national safety awards for 'Longest Accident Free Period' and for 'Lowest Injury Frequency Rate'.

1993-94	Oil & Natural Gas Commission
April, 1993	- Oil found at Mattur in Cauvery on-shore. - Four new structures Adichapuram and Kuttanallur in Cauvery on-shore, GS-43 and MB-1 in Krishna Godavari off-shore taken up for drilling. - Gas injections commenced in Well No. 94 in Gandhar Field. - Work-over rig IR-500-11 in ERBC was started on round the clock operation. - Modified gas lift valve was installed at Well Narimanam- 36 to lift oil from bottom zone by using gas from upper zone.
May, 1993	- Six new structures viz. One at Vadavur in Cauvery on-shore, one each at Peddapalem and Gopalpuram in Kutch on-shore and one at GS-15 in KG off-shore, one at GK-20 in Kutch off-shore and one at AB-NP in Bombay off-shore taken up for drilling. - Permanent deck at Neelam installed and production resumed.
June, 1993	- One new structure at Kumarapriyam in KG on-shore taken up for drilling. - Production from Neelam-2 platform in Bombay off-shore commenced with temporary deck. - Well Kovilkalappal-11 having sweet crude in Kovilkalappal structure in Cauvery basin put on production.
July, 1993	- Five new structures - four in KG on-shore and one at GS-25 in KG off-shore taken up for drilling. - Commissioned new ONGC rig E-2000-9 in Geleki field. - Thiruvarur-5, a new well in Cauvery basin was put on production. - Commissioned Effluent Treatment Plant at Kalol GGS-VII in Ahmedabad Project. - Despatching of LPG from Gandhar started. - To avoid transportation of crude by rail rakes, 8 inches diameter oil pipeline commissioned from Narimanam GGS-II to the mini refinery of MRL at Panangudi.
August, 1993	- A new structure at Kakinada in KG on-shore taken up for drilling. - Water injection commenced in Rudrasagar Block II through Well No. R-50. - Work on tanks of 30,000 M^3 capacity at CTF, Nawagam completed. - Time Division Multi Access System installed at Vasudhara Bhavan, Bombay. - IR-500-VII workover rig was put on round the clock operation.
September, 1993	- Oil discovered at two places namely Kuttanallur in Cauvery on-shore and GS-15-1 in KG off-shore. - Two structures at Gangadipalem in KG on-shore and Takamara in Cambay on-shore taken up for drilling. - Mandapetta-12, the first oil well in KG on-shore put on EPT to assess field behaviour. - Two A-50 workover rigs put on round the clock operations in Mehsana Project. - High pressure gas supply to TEC Unit-VII (WRBC) commenced. - Water injection commenced in LBS-2 sand (ERBC) through Well No. Lakwa-289.

October, 1993	- Gas found at Ponnamonda in KG on-shore. - Three new structures at Bhandari in Dhansiri Valley (ERBC), GS-10 in KG off-shore and KH-4 in Cauvery off-shore taken up for drilling. - Two additional workover rigs put on round the clock operation in Mehsana Project (WRBC).
November, 1993	- Two new structures at KIW in Kutch off-shore and at Takamara in Cambay off-shore taken up for drilling. - GCS at Tatipaka in KG project (SRBC) commissioned and effluent treatment plant put on operation at Narimanam-14.
December, 1993	- Gas found at Achanta in KG on-shore. - Two new structures at Tankari in Cambay onshore and at Gannavaram in KG on-shore taken up for drilling.
January, 1994	- Four new structures Arukattapalem in KG-onshore, Toshezu in Dhansini Valley (ERBC), Helisa in Cambay on-shore, GS-23 in KG off-shore taken up for drilling. - Company commissioned Nada GGS high pressure system and an 8" diameter NADA GNAQ gas pipeline. - To improve well productivity, ONGC introduced drain-hole drilling. Work on construction of GCS laying of flow lines at Gamaanwala (Rajasthan) for supply of gas to GAIL and RSEB from Manhera Tibba gas field completed. - ONGC commissioned a 4.5" diameter effluent line from Lakwa GGS-V to GGS-IV in ERBC to eliminate effluent transportation from GGS-V by tankers.
February, 1994	- RV-10 platform in Ravva off-shore commissioned. - Well platforms LC and LD under L-II development project and LD under L-II development project and well platform IU under L-III development project commissioned and production started. - A new structure at Barajadi in Cambay on-shore taken up for drilling.
March, 1994	- Oil found at Halisa in Cambay on-shore. - Six new structures taken up for drilling viz. Enugupali and Vemuladivi in KG on-shore, Vanjiyur and Marungur in Cauvery on-shore, Lodhinka in Kutch Saurashtra on-shore and EHA in Bombay.off-shore. - A Gas Compressor Plant under gas flaring reduction project was commissioned at GNAQ / NADA in Ankleshwar Project (WRBC). - Company also commissioned well platforms under L-III development project.

1993-94	ONGC Videsh Limited (ONGC Overseas)
April, 1993	- .....
May, 1993	- Block 6 of Vietnam off-shore, Well 06-LD-1 was completed with an achieved depth of 3412 mts. - In Block 6 of Vietnam off-shore exploratory/wild cat well 06-HDN was spudded with target depth of 2900 mts.
June, 1993	- Exploratory / wild cat well 06-HDB in block 6 of Vietnam off-shore spudded with target depth of 4210 mts.
July, 1993	- MOU signed with Iranian Off-shore Oil Company (IOOC) for cooperation in working together in areas of technology, development and production of oil and gas etc. - MOU signed with Vietnam Petroleum Institute (VPI) for cooperation on studies relating to exploration, drilling, production of hydrocarbons and protection of environment, joint studies in third world country, training of personnel etc.
August, 1993	- Exploratory / wild cat well -6-HDN in Block 6 of Vietnam off-shore completed with an achieved depth of 3100 mts. The exploratory objectives could not be achieved. - Well 06-LT- Observation in Block 6 of Vietnam off-shore spudded with target depth of 2600 mts. To establish whether there is an underground gas migration due to blow out in Well LT-IX in Block 06.
September, 1993	- Well 06-HDB in Block 6 of Vietnam off-shore completed with depth of 4006 mts. However, the exploratory objectives could not be achieved. - In Block 6 of Vietnam off-shore, 06-LT-Observation well completed with an achieved depth of 2148 mts. Pressure gauges installed in the well.
October, 1993	- .....
November, 1993	- MOU signed with Petronas Carigali Overseas for conducting petroleum exploration, development, production and transportation in off-shore and on-shore fields in third countries. - MOU signed with British Gas Exploration & Production Ltd. for cooperation and working together to conduct petroleum exploration, development, production and transportation in off-shore fields in the countries of interest. - ONGC Videsh Ltd. was awarded Excellence Award in productivity, quality, innovation and management by the Institute of Economic Studies, New Delhi.
December, 1993 to March, 1994	- .....

B. REFINING

1993-94	**Bharat Petroleum Corporation Limited**
April to July, 1993	- .....
August, 1993	- A joint venture company namely Bharat Shell Limited - between Bharat Petroleum Corpn. Ltd. (BPCL) and Shell Overseas Investment Incorporated. - MOU signed/LOI issued to four parties giving permission for use of BPC facilities for import and distribution of SKO ex-Bombay, Cochin and Madras.
September to November, 1993	- .....
December, 1993	- A joint venture agreement signed between BPCL and Oman Oil Company Ltd. for implementation of Central India Refinery Project.
January, 1994	- Under the parallel marketing scheme, the company extended facilities to 6 private entrepreneurs to import total quantity of 32.2 TMT SKO at Bombay and Kandla.
February, 1994	- A joint venture company - Bharat Oman Refineries Limited was registered by the Registrar of Companies, Madhya Pradesh.
March, 1994	- Company commissioned three depots - one pipeline fed depot at Mughalsarai and two road-fed depots at Baitalpur and Devangonthe.
1993-94	- **Bongaigaon Refinery & Petrochemicals Limited**
May, 1993	- Waste Fibre Recovery, PSF Unit commissioned.
October, 1993	- BG tank wagon loading facilities for MS commissioned.
January, 1994	- Company received award for Minimum steam leak in a refinery from the Ministry of Petroleum & Natural Gas.
February, 1994	- An R&D Centre set up and formally inaugurated.
March, 1994	- Company commissioned the following: BG loading facilities of SKO; New MS tankage and MS truck despatch facilities.
General	- The company achieved highest distillate yield of 82.46% of crude and lowest fuel and loss of 7.19% of crude in refinery sector during 1993-94. - It achieved highest production of DMT, Para-exylene, polyester staple fibre, Ceinine solvent and BRP solvent during the year. - It achieved highest ever turnover of Rs. 625 crores (provisional) during the year.

1993-94	Cochin Refineries Limited
April, 1993	- For the first time, company completed 9 million man-hours of accident free operation equivalent to 1363 days. - Company was selected for National Safety Award 1992 by British Safety Council for accident free record.
May, 1993	- The Fertilizers & Chemicals Travancore Ltd. accepted the offer for direct sale of benzene.
June, 1993	- Automatic tank gauging system commissioned.
October, 1993	- The company granted the marketing rights for benzene and toluene. - A record number of 1207 LPG tank trucks loaded from CRL.
December, 1993	- Company received National Energy Conservation Award, 1993 for refinery sector for excellence in energy conservation and management from the President of India.
January, 1994	- Raffinate Purification Unit commissioned for production of petroleum hydrocarbon solvent with total investment of 4 crores and production capacity of 8,000 tonnes of solvent per year.
March, 1994	- Marketing of petroleum hydrocarbon solvent produced from Raffinate Purification Unit started.
General	- The capacity utilisation of CRL during 1993-94 was 108.3 %, the capacity utilisation exceeded for the 6th year. - Company set highest ever record in production of bitumen (88590 tonnes), LSHS, HSD (45,700 tonnes) and LPG make (% crude) 3.82 tonnes). - Company completed additional crude tank project and commissioned raffinate purification plant for manufacture of petroleum hydrocarbon solvent which was developed by in-house R&D technology. It also won Award of Honour (1992) from National Safety Council, USA for the second time.

1993-94	**Hindustan Petroleum Corporation Limited**
May, 1993	- Company commissioned the project envisaging augmentation of capacity of Bombay Pune Pipeline from 2 MMTPA to 3.67 MMTPA at an approved cost of Rs. 18.51 crores.
July, 1993	- Government advised disinvestment of around 5% in favour of financial institutions/ mutual funds.
August, 1993	- Corporation signed a Memorandum of Understanding with the Ministry of Petroleum & Natural Gas for 1993-94
December, 1993	- A joint venture agreement signed for setting up of 0.6 million tonnes / annum grassroot refinery on the West Coast of India.
March, 1994	- A joint venture company Hindustan Oman Petroleum Company Limited incorporated. In the incorporated company, the equity participation would be 26% each by HPCL and Oman Oil Company and 48% from public. - Government announced disinvestment of 5% of company's equity in favour of employees of the Corporation. - Effluent treatment facility at an approved cost of 15.08 crores commissioned at Bombay Refinery. - Project of Hydrant System at Santacruz Airport at an approved cost of Rs. 14.60 crores which is expected to meet the fuel requirements at Santacruz Airport upto the year 2004-05 completed.
General	- Corporation is operating two refineries - one in Bombay and the other in Visakh. During 1993-94, Bombay Refinery registered the highest ever crude throughput of 6.02 million tonnes and Visakh Refinery processed 4.45 million tonnes of crude. The combined throughput (10.47 MMT) is highest ever. This was possible by increased capacity utilisation and sustained operation at Bombay. - The production of LPG (103.3TMT), LAN (633.1 TMT), Solvent (27.7TMT) HSD (1949 TMT), HVIs (185.5 TMT) and Bulk Bitumen (166.7 TMT) was highest ever in Bombay Refinery. - Visakh Refinery also achieved highest ever production of LPG (120.3 TMT), MS (365.3 TMT), SKO (531.3 TMT), MTO (11.7 TMT), HSD (1653.9 TMT) and Bitumen (133.3 TMT). The FCCU throughput of 888.0 TMT was also highest ever. - Mangalore Refinery & Petrochemicals Ltd. is a company jointly promoted by HPCL, Indian Rayon & Industries Ltd., Indo Gulf Fertilizers & Chemicals Corpon. Ltd. and Hindalco Industries Limited for setting up a project to refine 3 million tonnes per annum of crude oil at Mangalore. The construction work for expanding capacity is under progress. The net profit recorded by the company is highest ever registered by the Corporation.

INDIAN OIL CORPORATION LIMITED

(a) REFINERIES

1993-94	**Assam oil Division, Digboi, Assam**
May, 1993	- Government's approval to Revised Cost Estimates (RCE) for modernisation of Digboi Refinery Project obtained.
September, 1993	- Government's approval to RCE for Digboi Reformer.
	Guwahati Refinery
April, 1993	- Received British Safety Council Award for 1992-93 and the National Safety Award for the year 1991.
March, 1994	- The Refinery commissioned - LPG Recovery Unit from Coker Gas; Two new crude tanks having capacity of 10,000 KLs. Two product tanks having capacity of 2,000 KLs each.
	Barauni Refinery, Barauni, Bihar
September, 1993	- One crude tank of 20,000 KL capacity completed.
November, 1993	- New Inert Gas Generator in Solvent Dewaxing Unit commissioned.
January, 1994	- Continuous SO_2 analyser for furnace flue gaser in AVU-I and AVU-II commissioned.
February, 1994	- Government's approval obtained to RCE for Baruani Reformer.
1993-94	**Gujarat Refinery, Koyali, Gujarat**
December, 1993	- The refinery commissioned Gujarat Hydrocracker Unit. - Energy Economic Revamp of AV-IV for processing neat South Gujarat Crude with Pretopping column and allied facilities commissioned.
January, 1994	- Hydrocracker Project became fully operational. - Blue Dye addition in SKO for public distribution system was commissioned.
March, 1994	- Continuous SO_2 Analysers in AU-I/AU-II/AU-III/FCCU/FPU commissioned.
1993-94	**Haldia Refinery, Haldia, West Bengal**
April, 1993	- Bagged Jawahar Lal Nehru Centenary Award for 1991-92 instituted by MOP&NG for second consecutive year for most energy efficient refinery.
October, 1993	- Blue Dye addition in SKO for public distribution system started.
January, 1994	- Four ambient air quality monitoring stations established and monitoring started.
March, 1994	- Construction and pre-commissioning activities of Sulphur Recovery Unit including Amine treating facilities completed. - First phase revamp job of LOB Unit completed. - Two additional rotary drum filters in Solvent Dewaxing Unit commissioned. - Two DWO tanks and 7 additional product tanks commissioned.

1993-94	**Mathura Refinery, Mathura, U.P.**
April, 1993	- The Refinery won the British Safety Council Award for 1992.
October, 1993	- Soaker Drum Project in VBU for energy conservation and improvement of product pattern commissioned.
December, 1993	- Advanced Process Control in AVU implemented.
February, 1994	- On-line cleaning of AVU furnace successfully carried out for the first time in the country during Jan.-Feb., 1994.
March, 1994	- Government's approval for Mathura Reformer obtained.
1993-94	**Panipat Refinery Project**
April, 1993	- Agreement signed with M/s. IFP, France for technology of Catalytic Reformer.
July, 1993	- Agreement signed with M/s UNOCAL/UOP, USA for technology transfer for Hydrocracker.
January, 1994	- Agreement signed with - M/s Stone & Webster, USA for technology transfer for FCC; M/s. Haldor Topsoe, Denmark for Basic & Detailed Engineering.
1993-94	**(b) Pipeline Division**
April, 1993	- Mandatory crude oil tank No. 11 having capacity of 87,000 KLs at Vadinar commissioned.
June, 1993	- Mandatory crude oil tanks No. 12 and 12 A having capacity of 87,000 KLs at Vadinar Commissioned.
August, 1993	- Government's approval for RCE of Kandla-Bhatinda Pipeline (KBPL) Project.
September, 1993	- Government of India accorded first stage clearance of project proposal of new crude oil pipeline from Haldia to Barauni. - Composite works contract was signed with M/s SKODA EXPORT for KBPL Project.
March, 1994	- Total MOU target of 22.582 MMT for the year 1993-94 achieved. - The Detailed Feasibility Report on the project proposal of the new crude oil pipeline from Haldia to Barauni was submitted to the Govt. of India for second stage clearance. - The pipeline registered the highest overall throughput of 23.663 MMT, an increase of 4.78% over the MOU target and 2.19% over the previous year's throughput of 23.156 MMT.

1993-94	**Madras Refineries Limited**
April, 1993	- Company commenced marketing of Sulphur to M/s Madras Petrochem Limited, Manali. - The De-Mineralised Water Plant of MRL's Cauvery Basin Refinery (CBR) inaugurated at the Cauvery Basin Refinery site at Panangudi in Nagapattinam Quaid-e-Millet Distt., Tamilnadu.
May, 1993	- MRL received the "OSCAR" of the Safety World, the coveted "SWORD OF HONOUR" from British Safety Council. MRL received the Sword for the third time. - Company entered into an agreement with IBP for marketing petroleum products of its CBR in Nagapattinam.
June, 1993	- 110 KV Power Supply Switch Yard to CBR commissioned. - Effluent Treatment Plant of Refinery I of MRL inaugurated in the Manali Refinery Complex of MRL. - 1600 KV Sub-station (SS-7B) of MRL inaugurated in Manali Refinery Complex of MRL.
July, 1993	- Mobile Environmental Monitoring laboratory to aid pollution control efforts of Manali Industrial Complex inaugurated at MRL R&D Centre in Manali.
August, 1993	- MOU signed with the Ministry of Petroleum & Natural Gas for the year 1993-94.
October, 1993	- A new 6.6 KV Switch Gear at Refinery I of MRL in Manali Refinery Complex inaugurated.
November, 1993	- Company paid a dividend of Rs. 19,31,63,000 crores for the year 1992-93 to Government of India. - The On Spec products of MRL Cauvery Basin Refinery viz. LPG, Diesel, Kerosene, Naphtha and LSHS were routed to respective storage tanks signifying an important milestone in the commissioning activity of this project.
January, 1994	- RCC Chimney of 2x20 MW Co-generation plant of Manali Refinery Complex inaugurated
February, 1994	- The first consignment of 20 MT of Sulphur in container was shipped to Colombo.
March, 1994	- Public Issue of Equity Shares of MRL amounting to Rs. 242.84 crores opened.

1993-94	**IBP Company Limited**
April, 1993	- Product receipt by pipeline transfer into IBP's Depot commenced.
December, 1993	- MOU signed by IBP with HPCL for supply / handling of petroleum products.
January, 1994	- Company signed two mobile laboratories - one each in Eastern and Southern region. - Company achieved highest ever lube blending (33050 KLs) during the year.

C. MARKETING

1993-94 — **Hindustan Petroleum Corporation Limited**

September, 1993
- Government of India accorded approval for setting-up of 0.6 MMTPA LPG Import facility at Mangalore at an approved cost of Rs. 175.65 crores. The project is expected to be completed by September, 1996.

General
- During the financial year, 1993-94, HPCL registered an all time high sales volume of 12.0 Million Tonnes with a sales turnover estimated to Rs. 11,857 crores. This represents a growth of 4.3% which was higher than the growth rate achieved by the Petroleum Industry (3.10%) during the year.
- The company's market share increased from 19.6% in 1992-93 to 19.8% in 1993-94.
- The company signed a Memorandum of Understanding with 7 major customers for supply of fuel oil.
- The company successfully launched a pilot project for blending and marketing of Petrol-M at Nandesari Depot at Baroda.

1993-94 — **IBP COMPANY LTD.**

July, 1993
- Following were commissioned by the company:
  CNG marketing facility at its retail outlet M/s Car Care, R.K. Puram in New Delhi;
  TW unloading siding at Mathura Depot for the industry.

November, 1993
- Company commissioned Cauvery Basin Mktg. Terminal.

December, 1993
- A joint venture company was formed with Caltex Petroleum Corporation, USA, for marketing of high performance and state of art lubes. IBP-Caltex Lubricants were launched in December, 1993 at Bombay.

1993-94 — **Indian Oil Corporation Ltd., Bombay**

May, 1993
- Company commissioned Shirud Depot with tankage facility of 8936 KLs in Maharashtra.

June, 1993
- Signed MOU with M/s Telco, Pune for supply of lubricants to Telco vehicles during the Warranty period.
- Additional tankage of 10,591 KL at Miraj Depot and 8752 KL at Forbesganj, Phase I & II and Resitement of Rairoo Depot in Madhya Pradesh were completed.
- At Gaigaon Depot in Maharashtra, tankage facility of 11,795 KL commissioned.

July, 1993
- A joint venture agreement signed between IOC/Balmer Lawrie and NYCO for manufacture of Aviation/Defence Speciality Lubricants in India.

August, 1993
- Extension of MOU with Reliance Industries Ltd. for supply of Naphtha and NGL.

September, 1993
- A new depot at Sagar in M.P. was completed with tankage of 10947 KL.
- Resitement of Itarsi Depot completed with tankage of 8376 KL.
- Company commissioned LPG bottling plant at Pune and Pondicherry.

October, 1993
- Bharatpur Depot with a tankage of 18137 KL commissioned in Rajasthan.

November, 1993
- Fuel efficient "Nutan Jyoti Hurricane Lanterns" launched.

December, 1993	- New Design for TT with protection for Roll Over developed and approved by CCE.
January, 1994	- Signed an agreement to form a joint venture company Indo Mobil Private Limited with Mobil Petroleum Co. Inc. USA with 50-50 equity participation. - Commissioned 25 TMTPA capacity LPG bottling plant at Cochin.
March, 1994	- New depot at Meerut completed with tankage of 12,110 KLs. - Another depot at Baitalpur (U.P) completed with a tankage of 12,932 KL. - Navalur Depot with a tankage of 16759 KL commissioned in Karnataka.

1993-94 **Assam Oil Division, Digboi (Assam)**

December, 1993	- Company completed the first phase of a transhipment terminal of capacity of 11,000 KL in a record time of 363 days after Guwahati Lumding section of NF Railway was converted from Meter Gauge to Broad Gauge.
General	- Five quality circles launched during the year taking the total number of operating quality circles to 11. - Second area office of LPG set-up started at Tinsukia. - Indane Bottling Plant in Silchar made a record bottling of 8652 MT exhibiting 173% capacity utilisation.

D. RESEARCH & DEVELOPMENT ACTIVITIES

1993-94 — **Indian Institute of Petroleum, Dehradun**

April, 1993
- Scientists of IIP commissioned IBP distillation unit at Vizag Refinery.

June, 1993
- Engineers of IIP successfully completed the 3rd regeneration of IIP-IPCL bimetallic catalyst at MRL.

December, 1993
- Diesenol Dual Fuel System developed by IIP launched for non-conventional energy sources at Vadodara.

January, 1994
- Successful completion of precommissioned Naphtha Hydrodesulphurisation unit of BPCL.

1993-94 — **Indian Oil Corporation, R&D Centre, Faridabad**

General
- During the year 1993-94, 80 product formulations in the area of lubricants were developed which include 41 new products some of which are given below :
- Long drain Super High Performance Diesel Engine Oil with a drain period of 45,000 kms.
- Highest performance API SH EC II gasoline engine oil with a fuel economy of over 2.5%.
- Cationic Bitumen Emulsion.
- Energy Efficient Spindle Oil.
- Approvals, both national and international, were obtained for 27 products. Some of these are :
- Synthetic Greases XG 287, XG 276, XG 315 and XG 293 for use in air-craft.
- Servo 2T Zoom by M/s Majestic Auto Limited.
- NLGI Gertification for Servoplex 1,2,3 under performance classification GC and LB.
- Servo Marine oil by M/s Diesel Recherchers, Italy.
- A two phase model developed to simulate FCC stripper operation.
- Development of Kinetic Model Based on Continuum theory of Lumping for hydrocracking, development of hydro-dynamic model based on fundamental force balance equation to predict pressure drop and liquid holder in trickle and pack bubble column reactor.
- Synthesization of fuel combustion catalyst.
- New design of railway signal lamp developed for use with 18 mm smoke point kerosene
- Commercialisation of fuel efficient lantern as Nutan Jyoti.

III INDIAN PETROLEUM INDUSTRY PROGRESS AT A GLANCE (1947-48 - 1993-94)

Year	Balance of recoverable Reserves @ Crude oil (MMT)	Balance of recoverable Reserves @ Natural gas (Bn.M3)	Crude oil production (MMT)	Natural gas production (Bn.M3)	Refinery crude th' Put (MMT)	Refinery production (MMT)	Consumption * (MMT)	Gross Imports Crude Oil (MMT/Rs.Crores)	Gross Imports POL products (MMT/Rs.Crores)	Net Imports Crude oil/ POL Products Qty. (MMT)	Net Imports Crude oil/ POL Products Value (Rs. Crores)	c.i.f. unit value of crude imports (Rs./ MT)	India's total Imports/ Exports Imports (Rs.Crores)	India's total Imports/ Exports Exports (Rs.Crores)	%age of POL Imports to India's Exports	Central excise & Custom duties on POL (Rs. Crores)	Index of Self Reliance
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.
1947-48	4	3	.25	NA	.25	.23	2.72	-	2.36	NA	NA	-	NA	NA	NA	NA	9%
1950-51	4	2	.26	NA	.26	.23	3.46	-	3.11	NA	NA	-	NA	NA	NA	NA	7%
1960-61	45	22	.45	NA	6.13	5.78 (39)	7.99 (35)	5.71	2.22	7.71	43	68	NA	NA	NA	NA	5%
1970-71	128	62	6.82	1.4	18.38	17.11	17.91	11.68 (107)	1.09 (30)	12.43	132	92	1634	1535	8.9%	638	36%
1975-76	144	88	8.45	2.4	22.28	20.83	22.45	13.62 (1052)	2.22 (204)	15.67	1242	772	5265	4036	31.1%	1155	35%
1976-77	275	185	8.90	2.4	23.00	21.43	24.10	14.05 (1176)	2.62 (248)	16.60	1417	837	5074	5142	27.7%	1275	35%
1977-78	303	228	10.76	2.8	24.90	23.22	25.54	14.51 (1246)	2.88 (308)	17.34	1546	859	6020	5408	28.7%	1343	38%
1978-79	347	266	11.63	2.8	25.97	24.20	28.24	14.66 (1251)	3.88 (430)	18.49	1677	853	6811	5726	29.4%	1549	38%
1979-80	354	344	11.77	2.8	27.47	25.79	29.88	16.12 (2188)	4.72 (1082)	20.76	3246	1357	9143	6418	51.0%	1690	37%
1980-81	366	352	10.51	2.4	25.84	24.12	30.90	16.25 (3349)	7.29 (1917)	23.50	5258	2061	12549	6711	78.5%	1570	30%
1981-82	469	411	16.19	3.9	30.15	28.18	32.52	15.39 (3736)	4.88 (1453)	19.29	4978	2442	13608	7806	66.5%	1693	45%
1982-83	470	420	21.06	4.9	33.16	31.07	34.66	16.95 (4044)	5.03 (1554)	16.83	4401	2386	14293	8803	63.6%	1860	55%
1983-84	526	475	26.02	6.0	35.26	32.89	35.84	15.97 (3541)	4.33 (1271)	13.30	3224	2217	15832	9771	49.2%	2488	66%
1984-85	511	478	28.99	7.2	35.56	33.23	38.80	13.64 (3430)	6.09 (1915)	12.32	3527	2515	17134	11744	45.5%	2921	70%
1985-86	500	479	30.17	8.1	42.91	39.88	40.87	15.14 (3687)	3.87 (1274)	16.52	4316	2435	19658	10895	45.5%	3768	69%
1986-87	558	497	30.48	9.8	45.70	42.76	43.66	15.48 (2120)	3.05 (653)	16.03	2362	1370	20096	12452	22.3%	4089	65%
1987-88	581	541	30.36	11.5	47.75	44.73	46 42	17.73 (2986)	4.15 (1024)	18.47	3362	1684	22244	15674	25.6%	6105	61%
1988-89	638	579	32.04	13.2	48.80	45.70	50.09	17.81 (2861)	6.50 (1560)	2202	3897	1606	28235	20231	21.9%	6748	59%
1989-90	726	648	34.09	17.0	51.94	48.69	54.10	19.49 (4090)	6.56 (2255)	23.46	5648	2099	35412	27681	22.9%	8093	59%
1990-91	739	686	33.02	18.0	51.77	48.57	55.04	20.70 (6118)	8.66 (4660)	26.71	9775	2956	43193	32553	33.1%	9179	56%
1991-92	806	730	30.35	18.6	51.42	48.35	56.97	24.00 (7820)	9.44 (5218)	30.50	11824	3260	47851	44041	29.6%	9337	50%
1992-93	801	735	26.95	18.1	53.48	50.36	58.90	29.25 (10686)	11.28 (6360)	36.81	15439	3653	63375	53688	31.8%	10322	43%
1993-94 (P)	779	718	27.03	18.3	54.30	51.08	60.81	30.82 (10689)	12.08 (7041)	38.86	16221	3468	72806	69547	25.5%	12156	41%

N.A = Not available (P) = Provisional @ = As on 1st January of initial year * = Excluding RBF.

IV. COMMODITY BALANCE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(MILLION TONNES)

Items	1970-71	1975-76	1976 77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986 87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-* 94
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1. CRUDE																				
1. Refinery Thr'put	18.4	22.3	23.0	24.9	26.0	27.5	25.8	30.2	33.2	35.3	35.6	42.9	45.7	47.8	48.8	51.9	51.8	51.4	53.5	54.3
2. Domestic Production	6.8	8.4	8.9	10.8	11.6	11.8	10.5	16.2	21.1	26.0	29.0	30.2	30.5	30.4	32.0	34.1	33.0	30.3	27.0	27.0
(a) Onshore	6.8	8.4	8.5	8.7	8.3	7.3	5.5	8.2	8.2	8.6	8.9	9.4	9.9	10.2	10.9	12.4	11.8	11.4	11.2	11.6
(b) Offshore	-	-	0.4	2.1	3.3	4.4	5.0	8.0	12.9	17.4	20.1	20.8	20.6	20.2	21.1	21.7	21.2	19.0	15.8	15.4
3. Imports	11.7	13.6	14.0	14.5	14.7	16.1	16.2	15.3	16.9	16.0	13.7	15.1	15.5	17.7	17.8	19.5	20.7	24.0	29.2	30.8
4. Exports	-	-	-	-	-	-	-	0.8	4.5	5.5	6.5	0.5	-	-	-	-	-	-	-	
5. Net Import (3-4)	11.7	13.6	14.0	14.5	14.7	16.1	16.2	14.5	12.4	10.5	7.2	14.6	15.5	17.7	17.8	19.5	20.7	24.0	29.2	30.8
II. PRODUCTS																				
1. Domestic Consumption @ of which	17.9	22.4	24.1	25.5	28.2	29.9	30.9	32.5	34.7	35.8	38.8	40.9	43.7	46.4	50.1	54.1	55.0	57.0	58.9	60.8
(a) Naphtha	0.9	1.8	2.2	2.3	2.5	2.4	2.3	3.0	3.0	2.8	3.1	3.1	3.2	2.9	3.4	3.4	3.4	3.5	3.4	3.2
(b) Kerosene	3.3	3.1	3.3	3.6	4.0	3.9	4.2	4.7	5.2	5.5	6.0	6.2	6.6	7.2	7.7	8.2	8.4	8.4	8.5	8.7
(c) High Speed Diesel	3.8	6.6	7.1	7.7	8.6	9.8	10.3	10.8	12.0	12.6	13.7	14.9	16.0	17.7	18.8	20.7	21.1	22.7	24.3	25.9
(d) Fuel Oils	4.7	5.8	5.7	5.8	6.7	7.1	7.5	7.2	7.3	7.6	7.9	7.9	8.0	8.1	8.5	8.8	9.0	9.2	9.3	9.2
2. Domestic Production of which	17.1	20.8	21.4	23.2	24.2	25.8	24.1	28.2	31.1	32.9	33.2	39.9	42.8	44.7	45.7	48.7	48.6	48.3	50.4	51.1
(a) Naphtha	1.2	1.9	2.0	2.1	2.3	2.4	2.1	3.0	3.0	3.6	3.5	5.0	5.4	5.5	5.4	5.2	4.9	4.5	4.6	4.7
(b) Kerosene	2.9	2.4	2.6	2.5	2.5	2.5	2.4	2.9	3.4	3.5	3.4	4.0	4.9	5.1	5.2	5.7	5.5	5.3	5.2	5.3
(c) High Speed Diesel	3.8	6.3	6.4	7.1	7.4	8.0	7.4	9.0	9.8	10.9	11.1	14.6	15.5	16.3	16.7	17.7	17.2	17.4	18.3	18.8
(d) Fuel Oils	4.1	5.1	4.7	5.3	5.6	6.4	6.1	6.9	8.0	8.0	7.9	8.0	8.0	8.5	8.9	9.0	9.4	9.6	10.4	10.3
3. Imports	1.1	2.2	2.6	2.9	3.9	4.7	7.3	4.9	5.0	4.3	6.1	3.9	3.1	3.9	6.3	6.5	8.7	9.4	11.3	12.1
4. Exports @@	0.3	0.2	0.1	0.1	0.1	0.1	Neg.	0.1	0.8	1.5	0.9	2.0	2.5	3.4	2.3	2.6	2.7	2.9	3.7	4.0
5. Net Imports (3-4)	0.8	2.0	2.5	2.8	3.8	4.6	7.3	4.8	4.2	2.8	5.2	1.9	0.6	0.5	4.0	3.9	6.0	6.5	7.6	8.1

• Provisional Neg. Negligible

@ = Excluding Refinery Fuel Consumption @@ = Exluding supplies of POL Products to Nepal from 1970-71 to 1982-83

V. GROWTH OF PETROLEUM INDUSTRY IN INDIA

(Calender Year)

(000 TONNES)

Year	Crude oil		Petroleum Products	
	Production	Refineries Crude Throughput	Production	Consumption*
1	2	3	4	5
1960	451	6091	5747	7964
1965	3022	9754	9113	12356
1970	6809	18459	17172	18816
1971	7185	19588	18225	20706
1972	7373	19672	18198	22675
1973	7198	20518	19089	23726
1974	7490	20783	19241	23023
1975	8283	21835	20368	23541
1976	8659	22762	21188	24897
1977	10185	24430	22795	26570
1978	11271	25626	23877	28894
1979	12839	28153	26360	31306
1980	9399	25075	23597	31633
1981	14925	29528	27575	34037
1982	19734	32107	29984	35403
1983	25148	34534	32298	37223
1984	27933	35235	32963	39934
1985	29860	41226	38264	42973
1986	31157	44940	41877	45483
1987	30142	47445	44583	48048
1988	31580	47896	44730	51308
1989	33685	51974	48724	55801
1990	33311	51671	48402	57943
1991	31007	50954	47916	58462
1992	27874	54254	51041	62092
1993 (P)	26508	53509	50396	62836

(Rs. Crores)

Year	GROSS IMPORTS			EXPORTS/RE-EXPORTS			NET POL IMPORTS (Col. 8-11)
	Crude oil	Product	Total	Crude oil	Products	Total	
	6	7	8	9	10	11	12
1960	40.57	41.02	81.59	-	4.61	4.61	76.98
1965	40.38	44.73	85.11	-	3.92	3.92	81.19
1970	02.36	30.53	132.89	-	5.72	5.72	127.17
1971	139.88	43.49	183.37	-	2.55	2.55	180.82
1972	44.25	56.69	200.94	-	8.94	8.94	192.00
1973	244.56	88.03	332.59	0.42	5.35	5.77	326.82
1974	899.36	209.90	1109.26	-	19.37	19.37	1089.89
1975	992.02	199.46	1191.48	-	13.83	13.83	1177.65
1976	1145.56	219.70	1365.26	-	7.60	7.60	1357.66
1977	1258.92	272.99	1531.91	-	6.50	6.50	1525.41
1978	1243.89	414.13	1658.02	-	4.20	4.20	1653.82
1979	1787.38	727.56	2514.94	-	14.94	14.94	2500.00
1980	3038.66	1788.28	4826.94	-	17.98	17.98	4808.96
1981	3793.83	1638.58	5432.41	-	15.13	15.13	5417.28
1982	4116.89	1551.37	5668.26	1044.71	101.23	1145.94	4522.32
1983	3471.47	1246.60	4718.07	1041.87	286.64	1328.51	3389.56
1984	3525.15	1850.31	5375.46	1598.55	271.63	1870.18	3505.28
1985	3808.74	1440.70	5249.44	503.88	482.06	985.94	4263.50
1986	2069.65	818.06	2887.71	-	389.32	389.32	2498.39
1987	3105.25	884.69	3989.94	-	662.07	662.07	3327.87
1988	2811.28	1273.36	4084.64	-	472.85	472.85	3611.79
1989	3718.63	2106.33	5824.96	-	654.84	654.84	5170.12
1990	5929.62	3541.64	9471.26	-	941.40	941.40	8529.86
1991	6827.57	5533.55	12361.12	-	1041.13	1041.13	11319.99
1992 (P)	10432.44	5711.16	16143.60	-	1658.33	1658.33	14485.27
1993 (P)	10916.90	7107.23	18024.13	-	1547.22	1547.22	16476.91

* Including Refinery Fuel (P) = Provisional

GROWTH OF PETROLEUM INDUSTRY IN INDIA

(Financial Year)

(000 TONNES)

Financial Year	Crude oil		Petroleum Products	
	Production	Refineries Crude Throughput	Production	Consumption*
1	2	3	4	5
1960-61	448(e)	6130	5777	8285
1965-66	3473	10233	9561	12437
1970-71	6822	18379	17110	19135
1971-72	7299	20042	18639	21299
1972-73	7321	19328	17830	22978
1973-74	7189	20958	19495	23574
1974-75	7684	21094	19603	23302
1975-76	8448	22283	20829	23673
1976-77	8898	22995	21432	25400
1977-78	10763	24898	23219	26990
1978-79	11633	25974	24193	29719
1979-80	11766	27474	25794	31323
1980-81	10507	25836	24123	32261
1981-82	16194	30146	28182	34107
1982-83	21063	33156	31073	36395
1983-84	26020	35263	32926	37776
1984-85	28990	35556	33236	40828
1985-86	301168	42910	39881	43363
1986-87	30480	45699	42761	46274
1987-88	30357	47754	44728	48938
1988-89	32040	48803	45699	52882
1989-90	34087	51942	48690	56779
1990-91	33021	51772	48562	57745
1991-92	30346	51423	48349	59603
1992-93	26950	53482	50359	61655
1993-94(P)	27026	54296	51084	63655

(Rs. Crores)

Year	GROSS IMPORTS			EXPORTS/RE-EXPORTS			NET POL IMPORTS
	Crude oil	Products	Total	Crude oil	Product	Total	
	6	7	8	9	10	11	12
1960-61	39.23	39.84	79.07	-	4.40(e)	4.40	74.67
1965-66	39.62	40.68	80.30	-	4.39	4.39	75.91
1970-71	106.72	29.91	136.63	-	4.67	4.67	131.96
1971-72	147.02	46.98	193.90	-	3.91	3.91	189.99
1972-73	146.37	60.58	206.95	-	8.16	8.16	198.79
1973-74	416.39	124.50	540.89	0.42	8.05	8.47	532.42
1974-75	916.99	195.00	1111.99	-	17.46	17.46	1094.53
1975-76	1051.76	204.34	1256.10	-	13.96	13.96	1242.14
1976-77	1175.91	248.23	1424.14	-	6.89	6.89	1417.25
1977-78	1246.20	305.34	1551.54	-	5.69	5.69	1545.85
1978-79	1251.17	429.99	1681.16	-	4.11	4.11	1677.05
1979-80	2187.53	1082.39	3269.92	-	24.02	24.02	3245.90
1980-81	3348.97	1917.52	5266.49	-	8.41	8.41	5258.08
1981-82	3706.38	1453.16	5189.54	196.23	15.13	211.36	4978.18
1982-83	4043-74	1553.94	5597.68	1063.37	133.79	1197.17	4400.52
1983-84	3541.05	1270.75	4811.80	1231.10	356.96	1588.06	3223.74
1984-85	3430.34	1914.91	5345.25	1563.16	255.03	1818.19	3527.06
1985-86	3686.80	1273.60	4960.40	135.15	509.58	644.73	4315.67
1986-87	2120.19	652.69	2772.88	-	411.23	411.23	2361.66
1987-88	2986.31	1024.32	4010.63	-	648.75	648.75	3361.88
1988-89	2861-08	1559.84	4420.92	-	523.63	523.63	3897.29
1989-90	4089.35	2254.71	6344.06	-	695.56	695.56	5648.50
1990-91	6118.42	4660.21	10778.63	-	1003.92	1003.92	9774.71
1991-92	7820.05	5218.27	13038.32	-	1214.65	1214.65	11823.67
1992-93	10685.86	6359.60	17045.46	-	1606.28	1606.28	15439.18
1993-94 (P)	10688.52	7041.43	17729.95	-	1507.44	1507.44	16222.51

• = Including Refinery Fuel (P) = Provisional. (e) = Estimated.

VI. PETROLEUM ENERGY

PETROLEUM ENERGY IN INDIA 1984-1993 (CALENDAR YEARS)

PRODUCTS	AVAILABILITY							
	1984	1986	1988	1989	1990	1991	1992	1993(P)
1	2	3	4	5	6	7	8	9
	IN ORIGINAL UNITS (MILLION TONNES)							
KEROSENE	5.96	6.77	7.26	8.19	8.64	8.90	8.58	8.97
ATF	1.42	1.64	1.66	1.87	1.74	1.68	1.61	1.68
HSD	13.42	15.96	17.13	20.94	20.90	22.68	24.59	25.74
LDO	1.21	1.17	1.23	1.51	1.53	1.50	1.51.	1.41
FUEL OILS	7.78	7.91	7.98	8.89	9.31	9.42	9.42	9.01
OTHERS *	4.88	6.55	7.02	7.14	8.66	8.70	9.29	9.67
TOTAL	**34.67**	**40.00**	**42.28**	**49.54**	**50.78**	**52.88**	**55.00**	**56.55**
	IN MILLION TONNES OF COAL EQUIVALENT UNIT @							
KEROSENE	11.92	13.54	14.52	16.38	17.28	17.80	17.16	17.90
ATF	2.84	3.28	3.32	3.74	3.48	3.36	3.22	3.33
HSD	26.84	31.92	34.26	41.88	41.80	45.36	49.18	51.48
LDO	2.42	2.34	2.46	3.02	3.06	3.00	3.02	2.82
FUEL OILS	15.56	15.82	15.96	17.78	1862	18.84	18.84	18.16
OTHERS *	9.76	13.10	14.04	16.28	17.32	17.40	18.58	19.34
TOTAL	**69.34**	**80.00**	**84.56**	**99.08**	**101.56**	**105.76**	**110.00**	**113.10**
	IN MILLION TONNES OF COAL REPLACEMENT UNIT @							
KEROSENE	47.69	54.16	58.08	65.52	69.12	71.20	68.64	71.76
ATF	10.02	12.30	12.45	14.02	13.05	12.60	12.08	12.60
HSD	120.74	143.64	154.17	188.46	188.10	204.12	221.31	231.66
LDO	10.91	10.53	11.07	13.59	13.77	13.50	13.69	12.69
FUEL OILS	15.56	15.82	15.96	17.78	18.62	18.84	18.84	18.11
OTHERS *	26.61	32.51	36.04	47.44	51.30	52.15	53.46	55.58
TOTAL	**232.13**	**268.96**	**287.77**	**346.81**	**353.96**	**372.41**	**387.92**	**402.70**

PRODUCTS	CONSUMPTION (#)							
	1984	1986	1988	1989	1990	1991	1992	1993(P)
1	2	3	4	5	6	7	8	9
	IN ORIGINAL UNITS (MILLION TONNES)IN ORIGINAL UNITS (MILLION TONNES)							
KEROSENE	5.84	6.52	7.59	8.09	8.42	8.41	8.57	8.62
ATF	1.30	1.59	1.69	1.75	1.73	1.56	1.56	1.68
HSD	13.31	15.70	18.40	20.23	21.18	21.98	24.40	25.32
LDO	1.18	1.15	1.38	1.49	1.51	1.43	1.47	1.34
FUEL OILS	7.79	8.02	8.32	8.70	9.10	8.95	9.38	9.09
OTHERS *	44.93	6.47	7.32	8.23	8.68	8.77	9.23	9.67
TOTAL	**34.35**	**39.45**	**44.70**	**48.59**	**50.62**	**51.10**	**54.61**	**55.72**
	IN MILLION TONNES OF COAL EQUIVALENT UNIT @							
KEROSENE	11.68	13.04	15.18	16.18	16.84	16.82	17.14	17.24
ATF	2.60	3.18	3.38	3.50	3.46	3.12	3.12	3.36
HSD	26.62	31.40	36.80	40.66	42.36	43.96	48.80	50.64
LDO	2.36	2.30	2.76	2.98	3.02	2.86	2.94	2.68
FUEL OILS	15.58	16.04	16.64	17.40	18.20	17.90	18.76	18.18
OTHERS*	9.86	12.94	14.64	16.46	17.36	17.54	18.46	19.34
TOTAL	**68.70**	**78.90**	**89.40**	**97.18**	**101.24**	**102.20**	**109.22**	**111.44**
	IN MILLION TONNES OF COAL REPLACEMENT UNIT @							
KEROSENE	46.72	52.16	60.72	64.72	67.36	67.28	68.58	68.96
ATF	9.75	11.93	12.68	13.13	12.98	11.70	11.72	12.60
HSD	119.79	141.30	165.60	182.97	190.62	197.82	219.56	227.88
LDO	10.62	10.35	12.42	13.41	13.59	12.87	13.18	12.06
FUEL OILS	15.58	16.04	16.64	17.40	18.20	17.90	18.76	18.18
OTHERS *	26.38	34.95	38.06	48.08	51.45	52.64	55.31	58.25
TOTAL	**228.84**	**266.73**	**306.12**	**339.71**	**354.20**	**360.21**	**387.11**	**397.93**

(P) = Provisional. * : Includes LPG, Gasolines, Refinery Gas and Refinery Fuel.
@ : Based on COnversion factors adopted by FPC, 1974.
(#) : Includes Petroleum Products used for power generation.

PETROLEUM ENERGY IN INDIA : 1984 - 85 TO 1993-94 (FINANCIAL YEARS)

AVAILABILITY

PRODUCTS	1984-85	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94
1	2	3	4	5	6	7	8	9	10
IN ORIGINAL UNITS (MILLION TONNES)									
KEROSENE	5.93	6.76	7.29	7.95	8.30	8.81	8.71	8.56	9.10
ATF	1.41	1.64	1.74	1.79	1.84	1.83	1.56	1.62	1.76
HSD	13.59	16.13	17.54	19.00	20.79	21.87	22.73	25.30	26.21
LDO	1.25	1.16	1.26	1.47	1.54	1.51	1.48	1.45	1.47
FUEL OILS	7.89	7.91	7.86	9.31	9.17	9.43	9.64	9.40	9.02
OTHERS *	5.15	6.59	7.14	7.82	8.26	8.75	8.75	9.33	9.76
TOTAL	**35.22**	**40.19**	**42.83**	**47.34**	**49.90**	**52.20**	**52.87**	**55.66**	**57.32**
IN MILLION TONNES OF COAL EQUIVALENT UNIT @									
KEROSENE	11.86	13.52	14.58	15.90	16.60	17.62	17.42	17.12	18.20
ATF	2.82	3.28	3.48	3.58	3.68	3.66	3.12	3.24	3.52
HSD	27.18	32.26	35.08	38.00	41.58	43.74	45.46	50.60	52.42
LDO	2.50	2.32	2.52	2.94	3.08	3.02	2.96	50.60	2.94
FUEL OILS	15.78	15.82	15.72	18.62	18.34	18.86	19.29	18.80	19.52
OTHERS*	10.30	13.18	14.28	15.64	16.52	17.50	17.50	18.66	18.04
TOTAL	**70.44**	**80.38**	**85.66**	**94.68**	**99.80**	**104.40**	**105.74**	**111.32**	**114.64**
IN MILLION TONNES OF COAL REPLACEMENT UNIT @									
KEROSENE	47.44	54.08	58.32	63.60	66.40	70.48	69.68	68.48	72.80
ATF	10.58	12.30	13.05	13.43	13.80	13.72	11.70	12.15	13.20
HSD	122.31	145.17	157.86	171.00	187.11	196.83	204.57	227.70	235.89
LDO	11.25	10.44	11.34	13.23	13.86	13.59	13.32	13.05	13.23
FUEL OILS	15.78	15.82	15.72	18.62	18.34	18.86	19.28	18.80	18.04
OTHERS *	27.95	33.11	36.86	40.35	48.33	51.93	52.54	53.90	56.09
TOTAL	**235.31**	**270.92**	**293.15**	**320.23**	**347.84**	**365.41**	**371.09**	**394.08**	**409.25**

CONSUMPTION (#)

PRODUCTS	1984-85	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94
1	2	3	4	5	6	7	8	9	10
IN ORIGINAL UNITS (MILLION TONNES)									
KEROSENE	5.96	6.65	7.23	7.73	7.38	8.42	8.38	8.48	8.70
ATF	1.34	1.60	1.65	1.71	1.78	1.68	1.56	1.57	1.74
HSD	13.70	16.01	17.66	18.80	20.69	21.14	22.68	24.29	25.88
LDO	1.20	1.16	1.24	1.44	1.46	1.51	1.46	1.41	1.37
FUEL OILS	7.94	8.05	8.14	8.46	8.64	8.99	9.20	9.27	9.19
OTHERS *	5.07	6.62	7.14	7.80	8.42	8.68	8.85	9.21	9.79
TOTAL	**35.21**	**40.09**	**43.06**	**45.94**	**48.37**	**50.42**	**52.13**	**54.23**	**56.67**
IN MILLION TONNES OF COAL EQUIVALENT UNIT @									
KEROSENE	11.92	13.30	14.46	15.46	14.76	16.84	16.76	16.96	17.40
ATF	2.68	3.20	3.30	3.42	3.56	3.36	3.12	3.14	3.48
HSD	27.40	32.02	35.32	37.60	41.38	42.28	45.36	48.58	51.76
LDO	2.40	2.32	2.48	2.88	2.92	3.02	2.92	2.82	2.74
FUEL OILS	15.88	6.10	16.28	18.92	17.28	17.98	18.40	18.54	18.38
OTHERS*	10.14	13.24	14.28	15.60	16.84	17.36	17.70	18.42	19.58
TOTAL	**70.42**	**80.18**	**86.12**	**91.88**	**96.74**	**100.84**	**104.26**	**108.46**	**113.34**
IN MILLION TONNES OF COAL REPLACEMENT UNIT @									
KEROSENE	47.67	53.20	57.84	61.84	59.04	67.36	67.04	67.84	69.60
ATF	10.02	12.00	12.38	12.83	13.35	12.60	11.70	11.78	13.05
HSD	123.26	144.09	158.94	169.20	186.21	190.26	204.12	218.61	232.92
LDO	10.78	10.44	11.16	12.96	13.14	13.59	13.14	12.69	12.33
FUEL OILS	15.88	16.10	16.28	16.92	17.28	17.98	18.40	18.54	18.38
OTHERS *	27.82	38.02	39.85	40.56	43.78	51.41	53.26	55.40	59.33
TOTAL	**234.93**	**271.85**	**296.45**	**314.31**	**332.80**	**353.20**	**367.66**	**384.86**	**405.61**

(P) = Provison. * Includes LPG, Gasolines, Refinery Gas and Refinery Fuel.
@ : Based on conversion factors adopted by FPC, 1974.
(#) : Includes Petroleum Products used for power generation.

VII. EXPLORATION

AREA WISE DEPLOYMENT OF DEEP DRILLING RIGS, WELLS & METREAGE DRILLED BY ONGC & OIL FROM 1970-71 TO 1993-94

YEAR	ONSHORE			OFFSHORE			TOTAL		
	Rigs (Nos.)	Wells (Nos.)	Metreage ('000')	Rigs (Nos.)	Wells ('000')	Metreage ('000')	Rigs (Nos.)	Wells ('000')	Metreage ('000')
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
				(A) OIL & NATURAL GAS COMMISSION					
1970-71	31	89	168	1	-	1	32	89	168
1975-76	35	106	229	4	15	28	39	121	257
1980–81	34	72	134	7	32	78	41	104	212
1981–82	38	98	211	7	46	111	45	144	322
1982–83	40	114	224	13	64	162	53	178	386
1983–84	43	117	259	14	88	209	57	205	468
1984–85	53	127	280	13	73	161	66	200	441
1985–86	64	190	410	18	77	180	82	267	590
1986–87	82	232	502	19	77	231	101	309	733
1987–88	92	272	577	26	91	266	118	363	843
1988–89	104	319	707	33	146	282	137	465	989
1989–90	115	491	971	33	134	353	148	625	1324
1990–91	108	369	777	32	139	276	140	508	1053
1991–92	110	343	745	25	83	208	135	426	953
1992–93	109	349	755	28	100	251	137	449	1006
1993–94	103	330	777	25	162	360	128	492	1137
				(B) OIL INDIA LIMITED					
1970-71	4	12	48	-	-	-	4	12	48
1975-76	3	11	36	-	-	-	3	11	36
1980–81	4	9	33	1	1	4	5	10	37
1981–82	5	17	64	-	-	-	5	17	64
1982–83	5	14	60	-	-	-	5	14	60
1983–84	5	23	79	1	3	10	6	26	88
1984–85	7	25	86	1	2	10	8	27	96
1985–86	8	28	110	1	-	9	9	28	119
1986–87	10	26	103	2	2	17	12	28	120
1987–88	12	32	118	1	-	6	13	32	124
1988–89	13	33	128	-	-	-	13	33	128
1989–90	15	28	130	-	-	-	15	28	130
1990–91	13	27	112	-	-	-	13	27	112
1991–92	14	26	110	-	-	-	14	26	110
1992–93	15	19	99	-	-	-	15	19	99
1993–94	15	22	106	-	-	-	15	22	106
				TOTAL (A + B)					
1970-71	35	101	216	-	-	1	36	101	216
1975-76	38	117	265	4	15	28	42	132	293
1980–81	38	81	167	8	33	82	46	114	249
1981–82	43	115	275	7	46	111	50	161	386
1982–83	45	128	284	13	64	162	58	192	446
1983–84	48	140	338	15	91	219	63	231	556
1984–85	60	152	366	14	75	171	74	227	537
1985–86	72	218	520	19	77	189	91	295	709
1986–87	92	258	605	21	79	248	113	337	853
1987–88	104	304	695	27	91	272	131	395	967
1988–89	117	352	835	33	134	282	150	498	1117
1989–90	130	519	1101	33	134	353	163	653	1454
1990–91	121	396	889	32	139	276	153	535	1165
1991–92	124	369	855	25	83	208	149	452	1063
1992–93	124	368	854	28	100	251	152	468	1105
1993–94	118	352	883	25	162	360	143	514	1243

EXPLORATORY & DEVELOPMENT DRILLING BY ONGC & OIL.

YEAR	Exploratory		Development		Total	
	Wells (Nos.)	Metreage ('000')	Wells ('000')	Metreage ('000')	Wells (Nos.)	Metreage ('000')
(1)	(2)	(3)	(4)	(5)	(6)	(7)
			(A) ON SHORE			
1970-71	51+ 1P	106	50+3P	112	101+3P	218
1975-76	49+1P	120	68+P	145	117+2P	265
1980–81	44+1P	96	38+2P	71	82+3P	167
1981–82	52+2P	130	63+4P	145	115+6P	275
1982–83	57+3P	128	71+4P	156	28+7P	284
1983–84	61+3P	157	79+2P	181	140+5P	338
1984–85	70+5P	186	82+1P	180	152+6P	366
1985–86	90+4P	237	128+7P	283	218+11P	520
1986–87	78+3P	236	180+8P	369	258+11P	605
1987–88	105+4P	307	199+8P	388	304+12P	695
1988–89	122	362	230	474	353	836
1989–90	204	508	315	593	519	1101
1990–91	176	434	220	455	396	889
1991–92	176	454	193	401	369	855
1992–93	172	413	196	441	368	854
1993–94	147	374	205	509	352	883
			(B) OFFSHORE			
1970-71	-	1	-	-	-	1
1975-76	10	19	5	9	15	28
1980–81	15 +1P	40	18	42	33+1P	82
1981–82	12	39	34	72	46	111
1982–83	17	57	47	105	64	162
1983–84	22+1P	70	68	149	90+1P	219
1984–85	20+1P	62	51	109	71+1P	171
1985–86	33+2P	100	44	89	77+2P	189
1986–87	44+3P	132	35	116	79+3P	248
1987–88	39+3P	111	52	161	91+3P	272
1988–89	63	167	83	114	146	281
1989–90	61	160	73	193	134	353
1990–91	73	184	66	92	139	276
1991–92	61	167	22	41	83	208
1992–93	69	176	31	75	100	251
1993–94*	33	96	129	264	162	360
			TOTAL (A + B)			
1970-71	52+1P	107	50+3P	112	101+3P	218
1975-76	59+1P	139	73+1P	154	132+2P	293
1980–81	59+2P	136	56+2P	113	115+4P	249
1981–82	64+2P	169	97+4P	217	161+6P	386
1982–83	74+3P	185	118+4P	261	192+7P	446
1983–84	83+4P	227	147+2P	330	230	557
1984–85	90+6P	248	133+1P	289	223+7P	537
1985–86	123+6P	337	172+7P	372	295+13P	709
1986–87	122+6P	368	215+8P	485	337+14P	853
1987–88	143+7P	418	251+8P	549	395+15P	967
1988–89	185	529	313	588	498	1117
1989–90	265	668	388	786	653	1454
1990–91	249	618	286	547	535	1165
1991–92	237	621	215	442	452	1063
1992–93	241	589	227	516	468	1105
1993–94*	180	470	334	773	514	1243

(P) - Partly Drilled. * provisional

STATUS OF WELLS (AS ON 1ST APRIL OF EACH YEAR)

COMPANY/ YEAR	OIL	GAS	DRY	UNDER TEST	INJEC CTION	OTHERS	TOTAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			(A) ASSAM OIL COMPANY				
1975	377	7	-	-	5	612	1001
1980	417	10	-	-	6	568	1001
1981	418	9	-	-	6	568	1001
1985	431	4	305	7	7	247	1001
1986	399	2	305	7	6	282	1001
1987	314	2	305	2	8	282	1001
1988	289	2	305	-	7	398	1001
1989	240	1	305	-	10	445	1001
1990	253	1	305	-	7	435	1001
1991	227	1	305	-	6	462	1001
1992	226	1	305	-	5	464	1001
1993	227	1	305	-	6	462	1001
1994	214	1	305	-	6	475	1001
			(B) OIL INDIA LIMITED				
1975	250	18	34	27	20	-	349
1980	273	26	40	48	34	-	421
1981	283	27	42	48	35	-	435
1985	321	42	49	35	50	31	528
1986	327	37	52	12	53	81	562
1987	344	41	56	21	59	74	595
1988	333	44	61	29	62	108	637
1989	337	49	63	38	62	124	673
1990	422	53	66	36	62	70	709
1991	362	59	70	51	44	161	747
1992	365	58	74	68	43	172	780
1993	397	56	81	64	45	166	809
1994	408	58	85	83	49	158	841
			(C) OIL & NATURAL GAS COMMISSION				
1975	605	79	320	141	28	-	1173
1980	951	123	487	125	32	-	1718
1981	1008	133	508	137	38	-	1824
1985	1434	170	659	216	67	-	2546
1986	1642	190	740	164	80	-	2816
1987	1836	206	804	177	102	-	3125
1988	2024	219	896	20	125	204	3488
1989	2304	239	984	45	144	237	3953
1990	2579	302	1128	69	198	303	4579
1991	2873	330	1281	274	235	94	5087
1992	3007	324	1436	132	337	400	5636
1993	3138	355	1573	148	387	457	6058
1994	3392	380	1702	121	487	554	6636
			TOTAL (A + B + C)				
1975	1282	104	354	168	53	612	2523
1980	1641	159	527	173	72	568	3140
1981	1709	169	550	185	79	568	3260
1985	2186	216	1011	258	124	278	4073
1986	2368	229	1097	183	139	363	4379
1987	2494	249	1165	200	169	444	4721
1988	2646	265	1262	49	194	710	5126
1989	2881	289	1352	83	216	806	5627
1990	3254	356	1499	105	267	808	6289
1991	3462	390	1656	325	285	717	6835
1992	3598	383	1816	200	385	1036	7417
1993	3762	412	1959	212	438	1085	7868
1994	4014	439	2092	204	542	1187	8478

Note : The exploration activities of Assam Oil Company were vested in Oil India Limited w.e.f. 14th October. 1981.

STATEWISE ACHIEVEMENT OF GEOLOGICAL FIELD PARTIES IN INDIA SINCE INCEPTION UPTO MARCH 1994 (Provisional)

STATE	Detailed Mapping (Sq. Km.)	Semideta-iled map-ping (Sq.Km.)	Travers-ing (line Kms.)	Reconnai-ssance (Sq. Km.)	Special studies (Sq. Km.)	Geotectonic studies (Sq. Km.)	Reconnatory traversing (Sq. Km.)
1	2	3	4	5	6	7	8
1. Andra Pradesh	-	5017	-	5295	-	4500	-
2. Tamilnadu	2860	6955	271	11160	GC 595	-	-
3. Assam (Including Meghalaya, Nagaland, Mizoram, Tripura Arunachal Pradesh Manipur and Nefa)	8005	48974	12616	4979	CW 740 Photo-1100 Geological	-	167 200 (RM)
4. Gujarat	9529	25505	1624	25628	-	-	-
5. Madhya Pradesh	-	26891	-	-	-	-	-
6. Bihar	-	5445	93	-	-	-	-
7. Himachal Pradesh & Punjab	9710	16079	4915	4568	1489	-	330 200 (RM)
8. Jammu & Kashmir	1764	11527	1923	6548	70 +CH 372	-	-
9. Uttar Pradesh	4658	12731	2087	913	4170	-	-
10. Rajasthan	3584	26180	1734	17890	-	-	-
11. Other areas (Falling in Vindhyan & Gondwana Basin)	-	38095	-	-	-	-	-
12. West Bengal	912	5390	477	2397	-	5400	-
13. Andaman & Nicobar	833	4183	647	2151	-	-	-
14. Nepal	194	8446	1087	-	-	-	-
15. Bhutan	-	2736	95	270	-	-	-
16. Maharashtra	-	1240	-	-	-	-	-
Total	42049	245394	27569	81799	5729 + CW 740 + Photo - 1100 geological + GC 595 + CH 372	50400	497 200 (RM)

Abbreviatons : RM - Road Mapping, CW - Compliation Works.
CM - Checking Lines, GC - Ground Checking.

Note : The figures indicated in this statement as on 31.3.93 are the same as supplied earlier for the period as on 31.3.91 because geological parties after June '90 were assigned R & D work.

STATEWISE ACHIEVEMENTS OF GEOPHYSICAL FIELD PARTIES IN INDIA SINCE INCEPTION UPTO MARCH, 1994 (Provisional)

Sl. No.	STATE	DEPARTMENTAL			CONTRACT		
		Line Kms.	SSKm. 3-D	SLK	Line Kms.	SLK	SKm 3-D
1	2	3	4	5	6	7	8
A.	**ON SHORE**						
1.	Andhra Pradesh	7108	463	50741	6537	-	-
2.	Assam (Including Meghalaya, Nagaland, Mizoram, Tripura & Arunachal Pradesh)	17719	514	77822	3001	-	-
3.	Gujarat	43202	1545	121578	12116	-	-
4.	Bihar	2426	-	5215	-	-	-
5.	Haryana	-	-	1536	-	-	-
6.	Himachal Pradesh & Punjab	5400	-	4738	-	549	-
7.	Tamil Nadu	6939	578	34855	11366	-	-
8.	Jammu & Kashmir	1937	-	-	99	-	-
9.	Orissa	1644	-	-	3814	-	-
10.	Uttar pradesh	12190	-	31730	2760	-	-
11.	Rajasthan	3554	-	38680	16028	-	-
12.	West Bengal	16051	65	16874	2946	-	67
13.	Madhya pradesh	73	-	7047	-	-	-
	Total Onshore (A)	**120943**	**3165**	**390816**	**58667**	**549**	**67**
B.	**Offshore**	**357075**	**-**	**-**	**164265**	**-**	**-**
	Grand Total (A+B)	**478018**	**3165**	**390816**	**222932**	**549**	**67**

SLK : Standard line Kilometres.
SS Km : Standard Sq. Km
Skm : Sq. Km.

STATEWISE ACHIEVEMENTS OF DRILLING IN INDIA SINCE INCEPTION UPTO MARCH, 1994
(Provisional)

Sl. No.	State	Drilling achievement since inception	
		Wells (Nos.)	Metreage ('000 M)
1	2	3	4
A.	**ON SHORE**		
1.	Andhra Pradesh (Including Kerala)	146	486.76
2.	Assam, Andaman & Nicobar (Including Meghalaya Arunachal Pradesh, Nagaland, Mizoram, Tripura & West Bengal)	1905	6196.28
3.	Gujarat (Including Kutch, Maharashtra and Madhya Pradesh)	3476	5854.43
4.	Bihar	6	29.82
5.	Himachal Pradesh & Punjab	14	53.90
6.	Tamil Nadu & Pondichery	206	538.13
7.	Jammu & Kashmir	4	12.02
8.	Orissa	4	8.70
9.	Uttar Pradesh	7	22.58
10.	Rajasthan	77	149.27
	Total Onland (A)	**5845**	**13351.89**
B.	**Offshore**		
1.	West Coast	1294	2936.07
2.	East Coast	156	512.75
	Total Offshore (B)	**1450**	**3448.82**
	Grand Total (A+B)	**7295**	**16800.71**

VIII. CRUDE OIL

State wise Reserves of Crude Oil @

(Million Tonnes)

Year	On Shore				Off Shore	Grand
	Gujarat	Assam	Rajasthan	Total	Bombay High	Total
1	2	3	4	5	6	7
1966	62.73	90.27	-	153.00	-	153.00
1967	65.88	88.96	-	154.84	-	154.84
1968	64.92	76.08	-	141.00	-	141.00
1969	59.80	72.51	-	132.31	-	132.31
1970	56.38	71.46	-	127.84	-	127.84
1971	51.08	62.70	-	113.78	-	113.78
1972	52.28	72.90	-	125.18	-	125.18
1973	49.45	77.87	-	127.32	-	127.32
1974	48.45	76.05	-	124.50	-	124.50
1975	45.72	84.41	-	130.13	13.77	143.90
1976	45.79	81.99	-	127.78	147.68	275.46
1977	45.62	82.28	-	127.90	175.28	303.18
1978	47.49	78.50	-	125.99	221.04	347.03
1979	45.34	82.81*	-	128.15	226.29	354.44
1980	52.73	82.65*	-	135.38	230.95	399.33
1981	51.48	89.00*	-	140.48	328.29	468.77
1982	53.18	91.52*	-	144.70	325.18	469.88
1983	90.58	97.03*	-	187.61	338.70	526.31
1984	88.00	99.01*	-	187.01	323.81	510.82
1985	86.61	101.80*	-	188.41	311.10	499.51
1986	98.64	113.83*	-	212.47	345.54	558.01
1987	132.05	119.03*	-	251.08	330.35	581.43
1988	143.02	124.38*	-	267.40	371.04	638.44
1989	155.12	140.24*	-	295.36	430.86	726.22
1990	161.69	144.97	-	306.66	432.14	738.80
1991	158.26	156.22*	-	314.48	491.67	806.15
1992	156.55	160.82*	-	317.37	483.68+	801.05
1993	155.09	158.16*	-	313.25	465.81+	779.06
1994	153.40	156.06*	-	309.46	455.17+	764.63

@ Proved & Indicated Balance Recoverable Reserves.

Includes crude oil reserves in Nagaland, Tamil nadu, Andhra Pradesh and Arunachal Pradesh.

+Includes reserves in Andhra Pradesh & Tamil Nadu.

Note : For AOC & OIL the figures relate to Ist January of each year but in case of ONGC the data pertains to Ist October upto the year 1974 and thereafter to Ist January of each year upto the year 1992 and from 1993 relates to Ist April.

COMPANY-WISE PRODUCTION OF CRUDE OIL IN INDIA
(CALENDAR YEARS)

(000 Tonnes)

YEAR	ON SHORE				OFF SHORE	GRAND TOTAL	CUMULATIVE PRODUCTION
	AOC	OIL	ONGC	TOTAL	ONGC		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Upto 1950	259	-	-	259	-	259	6598
1951	269	-	-	269	-	269	6867
1952	263	-	-	263	-	263	7130
1953	269	3	-	272	-	272	7402
1954	278	30	-	308	-	308	7710
1955	272	75	-	347	-	347	8057
1956	307	89	-	396	-	396	8453
1957	277	163	-	440	-	440	8893
1958	214	226	-	440	-	440	9333
1959	202	248	-	450	-	450	9783
1960	179	272	-	451	-	451	10234
1961	184	319	10	513	-	513	10747
1962	188	556	334	1078	-	1078	11825
1963	184	805	663	1652	-	1652	13477
1964	170	1274	768	2212	-	2212	15689
1965	158	1742	1122	3022	-	3022	18711
1966	149	2143	2355	4647	-	4647	23358
1967	134	2752	2781	5667	-	5667	29025
1968	117	2771	2965	5853	-	5853	34878
1969	112	3074	3537	6723	-	6723	41601
1970	107	3070	3632	6809	-	6809	48410
1971	98	3146	3941	7185	-	7185	55595
1972	93	3183	4087	7373	-	7373	62968
1973	84	3102	4012	7198	-	7198	70166
1974	72	3080	4338	7490	-	7490	77656
1975	68	3087	5128	8283	-	8283	85939
1976	63	3092	5276	8431	228	8659	94598
1977	58	3120	5569	8747	1438	10185	104783
1978	55	2697	5551	8303	2968	11271	116054
1979	47	2848	5537	8432	4407	12839	128893
1980	41	796	4033	4870	4529	9399	138292
1981	(a) 33	2803	5083	7919	7006	14925	153127
1982	-	2963	5304	8267	11467	19734	172951
1983	-	2794	6501	8395	16753	25148	198099
1984	-	2776	6007	8783	19150	27933	226032
1985	-	2635	6580	9215	20645	29860	255892
1986	-	2713	7150	9863	21294	31157	287049
1987	-	2408	7626	10034	20108	30142	317191
1988	-	2439	8150	10589	20991	31580	348771
1989	-	2612	9445	12057	21628	33685	382456
1990	-	2697	9294	11991	21320	33311	415767
1991	-	2580	9033	11613	19394	31007	446774
1992	-	2486	8779	11265	16609	27874	474648
1993	-	2738	8688	11426	15082	26508	501156

(a) = After take over of AOC by Govt.in Oct,1981, its production wing was merged with OIL. SO the production figures shown under AOC are upto 14th October,1981, therafter the same have been merged with OIL.

COMPANY-WISE PRODUCTION OF CRUDE OIL IN INDIA
(Financial Year)

(000 Tonnes)

YEAR	ON SHORE				OFF SHORE	GRAND TOTAL	CUMULA-TIVE PROD-UCTION
	AOC	OIL	ONGC	TOTAL	ONGC		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1970-71	104	3084	3634	6822	-	6822	50303
1971-72	97	3159	4003	7299	-	7299	57602
1972-73	90	3131	4100	7321	-	7321	64923
1973-74	82	3079	4028	7189	-	7189	72112
1974-75	71	3079	4534	7684	-	7684	79796
1975-76	66	3103	5279	8448	-	8448	88244
1976-77	62	3085	5345	8492	406	8898	97142
1977-78	57	3113	5519	8689	2074	10763	107905
1978-79	53	2671	5599	8323	3310	11633	119538
1979-80	40	2215	5089	7344	4422	11766	131304
1980-81	48	1243	4231	5522	4985	10507	141811
1981-82	23(e)	995	5201	8219	7975	16194	158005
1982-83	-	2830	5356	8186	12877	21063	179068
1983-84	-	2873	5755	8628	17392	26020	205088
1984-85	-	2735	6119	8854	20136	28990	234078
1985-86	-	2654	6691	9345	20823	30168	264246
1986-87	-	2621	7241	9862	20618	30480	294726
1987-88	-	2448	7745	10193	20164	30357	325083
1988-89	-	2425	8503	10928	21112	32040	357123
1989-90		2704	9667	12371	21716	34087	391210
1990-91	-	2649	9181	11830	21191	33021	424231
1991-92	-	2529	8854	11383	18963	30346	454577
1992-93	-	2523	8681	11204	15746	26950	481527
1993-94	-	2811	8840	11651	15375	27026	508553
1994-95* (Apl - Sept.)	-	1479	4522	6001	9224	15225	523778

* Provisional.

(e) =After takeover of AOC by Government in October 1981, its production wing was merged with OIL. So the production figures shown under AOC are upto 14th October 1981 thereafter the same have been merged with OIL.

STATE-WISE PRODUCTION OF CRUDE OIL IN INDIA

(000 Tonnes)

YEAR	ON SHORE					OFF SHORE	
	Arunachal Pradesh	Tamil Nadu/ Andhra Pradesh	Assam/ Nagaland	Gujarat	Total	Bombay High	Grand Total
1	2	3	4	5	6	7	8
			CALENDAR YEARS				
1970	-	-	3359	3450	6809	-	6809
1971	-	-	3542	3643	7185	-	7185
1972	-	-	3653	3720	7373	-	7373
1973	-	-	3594	3604	7198	-	7198
1974	-	-	3735	3755	7490	-	7490
1975	-	-	4189	4094	8283	-	8283
1976	-	-	4267	4164	8431	228	8659
1977	-	-	4510	4237	8747	1438	10185
1978	-	-	4076	4227	8303	2968	11271
1979	-	-	4563	3869	8432	4407	12839
1980	2	-	1056	3812	4870	4529	9399
1981	2	-	4373	3544	7919	7006	14925
1982	1	-	5124	3142	8267	11467	19734
1983	25	-	4901	3469	8395	16753	25148
1984	42	-	4939	3802	8783	19150	27933
1985	60	-	4879	4576	9215	20645	29860
1986	59	4	5270	4530	9863	21294	31157
1987	40	9	5138	4847	10034	20108	30142
1988	32	23	5309	5225	10589	20991	31580
1989	39	152	5771	6095	12057	21628	33685
1990	41	311	5199	6440	11991	21320	33311
1991	43	311	5097	6162	11613	19394	31007
1992	55	331	4964	5915	11265	16609	27874
1993	55	479	5040	5852	11426	15082	26508
			FINANCIAL YEAR				
1970-71	-	-	3367	3455	6822	-	6822
1971-72	-	-	3630	3669	7299	-	7299
1972-73	-	-	3609	3712	7321	-	7321
1973-74	-	-	3589	3600	7189	-	7189
1974-75	-	-	3814	3870	7684	-	7684
1975-76	-	-	4300	4148	8448	-	8448
1976-77	-	-	4305	4187	8492	406	8898
1977-78	-	-	4534	4155	8689	2074	10763
1978-79	-	-	4085	4238	8323	3310	11633
1979-80	-	-	3578	3766	7344	4422	11766
1980-81	2	-	1712	3808	5522	4985	10507
1981-82	2	-	4795	3422	8219	7975	16194
1982-83	1	-	5000	3185	8186	12877	21063
1983-84	31	-	5009	3588	8628	17392	26020
1984-85	51	-	4893	3910	8854	20136	28990
1985-86	60	-	4966	4319	9345	20823	30168
198687	51	5	5239	4561	9862	2068	30480
1987-88	36	14	5154	4989	10193	20164	30357
1988-89	35	31	5457	5405	10928	21112	32040
1989-90	38	208	5812	6313	12371	21716	34087
1990-91	43	313	5076	6398	11830	21191	33021
1991-92	42	318	4988	6035	11383	18963	30346
1992-93	59	352	4986	5807	11204	15746	26950
1993-94	49	536	5090	5076	11651	15375	27026
1994-95* (April-Sep.)	20	305	2579	3097	6001	9224	15225

* Provisional.

IX NATURAL GAS

STATE-WISE RESERVES OF NATURAL GAS@

(Bn. Cubic Metres)

YEAR	ON SHORE				OFF SHORE	Grand
	Gujarat	Assam	Rajasthan	Total	Bombay High	Total
1	2	3	4	5	6	7
1966	23.09	40.06	-	63.15	-	63.15
1967	24.65	42.60	-	67.25	-	67.25
1968	21.80	41.54	-	63.34	-	63.34
1969	22.90	42.70	-	65.60	-	65.60
1970	19.66	42.82	-	62.48	-	62.48
1971	18.84	43.45	-	62.29	-	62.29
1972	16.88	45.25	0.38	62.51	-	62.51
1973	16.35	49.71	0.38	66.44	-	66.44
1974	16.18	51.30	0.38	67.86	-	67.86
1975	15.72	65.24	0.43	81.39	6.28	87.67
1976	16.41	61.42	0.43	78.26	106.62	184.88
1977	16.20	63.76	0.43	80.39	148.08	228.47
1978	15.66	63.62	0.43	79.71	186.15	265.86
1979	15.80	63.25*	0.43	79.58	264.64	344.22
1980	16.39	63.53*	0.43	80.95	270.96	351.91
1981	15.99	65.19*	0.43	81.61	329.04	410.65
1982	18.18	70.66*	0.43	89.27	330.62	419.83
1983	18.95	78.67*	0.43	98.05	377.21	475.26
1984	18.60	81.31*	0.54	100.54	377.80	478.25
1985	21.87	87.67*	0.54	110.08	368.55*	478.63
1986	26.99	91.83*	0.54	119.36	377.69	497.05
1987	41.26	97.82*	0.74	139.82	400.99	540.81
1988	62.11	105.49*	0.78	168.38	411.09	579.47
1989	85.59	120.49*	1.00	207.08	440.47	647.55
1990	92.58	135.47*	1.04	229.09	457.36	686.45
1991	93.39	151.68*	1.22	246.29	483.50	729.79
1992	93.97	160.45*	1.27	255.69	479.77**	735.46
1993	92.87	156.13*	3.82	252.82	465.13**	717.95
1994	92.13	156.18*	3.82	252.13	454.56**	706.69

@ : Proved & Indicated Balance Recoverable Reserves.

* Includes Natural Gas Reserves in Tripura, Nagaland, Tamil Nadu, Arunachal Pradesh & Andhra Pradesh.

** Including natural gas reserve in Andhra Pradesh Gujarat, Tamil Nadu, Andaman.

Note : For AOC & OIL the figures relate to 1st January of each year but in case of ONGC the data pertains to 1st October upto the year 1974 and thereafter to 1st January of each year upto the year 1992 and from 1993 relates to 1st April.

STATE-WISE GROSS PRODUCTION OF NATURAL GAS IN INDIA

(Million Cubic Metres)

YEAR	ON SHORE					OFF SHORE	Grand Total
	Gujarat	Assam/ Nagaland	Arunachal Pradesh	Tripura/ T. Nadu & Andhra Pradesh	Total	Bombay High	
1	2	3	4	5	6	7	8
			CALENDAR YEARS				
1970	458	996	-	-	1424	-	1424
1971	516	993	-	-	1509	-	1509
1972	533	1031	-	-	1564	-	1564
1973	519	1155	-	-	1674	-	1674
1974	590	1328	-	-	1918	-	1918
1975	760	1550	-	-	2310	-	2310
1976	815	1595	-	-	2410	28	2438
1977	888	1677	-	-	2565	161	2726
1978	903	1527	-	-	2430	340	2770
1979	843	1709	-	-	2552	532	3084
1980	868	621	-	-	1489	588	2077
1981	761	1605	-	-	2366	1120	3486
1982	741	1855	-	-	2596	2065	4661
1983	760	1903	1	-	2664	3104	5768
1984	758	2027	1	-	2786	4034	6820
1985	884	2049	4	-	2937	4971	7908
1986	980	2105	12	17	3114	6350	9464
1987	940	2149	13	33	3135	7771	10906
1988	1183	2150	17	53	3403	9381	12784
1989	1559	2172	21	77	3829	12097	15926
1990	1645	2014	27	158	3844	14146	17990
1991	1855	2062	31	251	4199	14450	18649
1992	1957	2054	49	563	4623	13749	18372
1993	2080	1984	49	779	4892	13229	18121
			FINANCIAL YEAR				
1970-71	465	980	-	-	1445	-	1445
1971-72	523	1012	-	-	1535	-	1535
1972-73	531	1034	-	-	1565	-	1565
1973-74	518	1195	-	-	1713	-	1713
1974-75	653	1388	-	-	2041	-	2041
1975-76	773	1595	-	-	2368	-	2368
1976-77	822	1558	-	-	2380	48	2428
1977-78	893	1717	-	-	2610	229	2839
1978-79	908	1518	-	-	2426	386	2812
1979-80	840	1385	-	-	2225	542	2767
1980-81	842	843	-	-	1685	673	2358
1981-82	758	1748	-	-	2506	1345	3851
1982-83	750	1829	-	-	2579	2357	4936
1983-84	748	1954	Neg.	-	2702	3259	5961
1984-85	775	2056	2	-	2833	4408	7241
1985-86	919	2029	6	-	2954	5180	8134
1986-87	971	2142	13	22	3148	6705	9853
1987-88	1005	2147	13	43	3208	8259	11467
1988-89	1258	2160	18	50	3486	9731	13217
1989-90	1613	2159	23	106	3901	13087	16988
1990-91	1696	2011	29	180	3916	14082	17998
1991-92	1698	2051	31	271	4251	14394	18645
1992-93	1946	2034	52	676	4708	13352	18060
1993-94	2166	1978	47	788	4979	13356	18335
1994-95* (Apl. Sep.)	1195	987	19	411	2612	7058	9670

* = Provisional.

STATE-WISE GROSS AND NET PRODUCTION OF NATURAL GAS IN INDIA

(Million Cubic Metres)

Period	Gross Prodn.	Re-Injected	Flarred	Net Production
1	2	3	4	5
		ONSHORE		
GUJARAT				
1970-71	465	-	155	310
1975-76	773	-	136	637
1980-81	842	-	146	696
1981-82	758	-	77	681
1982-83	750	-	55	695
1983-84	748	-	67	681
1984-85	775	-	85	690
1985-86	919	-	118	801
1986-87	971	-	184	787
1987-88	1005	-	268	737
1988-89	1258	-	358	900
1989-90	1613	-	478	1135
1990-91	1696	-	402	1294
1991-92	1898	-	318	1580
1992-93	1946	-	229	1717
1993-94*	2166	-	257	1909
1994-95 (Apl-Sept)*	1195	-	133	1062
ASSAM $				
1970-71	980	36	607	337
1975-76	1595	162	946	487
1980-81	843	67	257	519
1981-82	1748	110	768	870
1982-83	1829	91	876	862
1983-84	1954	45	1025	884
1984-85	2058	48	1074	936
1985-86	2035	66	887	1082
1986-87	2155	63	866	1226
1987-88	2160	54	727	1379
1988-89	2178	84	730	1364
1989-90	2182	96	689	1397
1990-91	2040	102	621	1317
1991-92	2082	132	703	1247
1992-93	2086	90	685	1311
1993-94*	2025	71	710	1244
1994-95(Apl-Sep)*	1006	39	348	619
TRIPURA				
1985-86	-	-	-	-
1986-87	-	-	-	-
1987-88	-	-	-	-
1988-89	26	-	-	26
1989-90	25	-	-	25
1990-91	70	-	-	70
1991-92	80	-	-	80
1992-93	115	-	-	115
1993-94*	102	-	-	102
1994-95 (Apl-Sep.)*	41	-	-	41

$: Includes Nagaland and Arunachal Pradesh.

* : Provisional

Contd .....

STATE-WISE GROSS AND NET PRODUCTION OF NATURAL GAS IN INDIA

(Million Cubic Metres)

Period	Gross Prodn.	Re-Injected	Flarred	Net Production
1	2	3	4	5
ANDHRA PRADESH				
1985-86	-	-	-	-
1986-87	-	-	-	-
1987-88	-	-	-	-
1988-89	14	-	-	14
1989-90	26	-	Neg.	26
1990-91	46	-	5	41
1991-92	150	-	6	144
1992-93	507	-	6	501
1993-94*	610	-	17	593
1994-95 (Apl-Sep)*	329	-	13	316
TAMIL NADU				
1985-86	-	-	-	-
1986-87	22	-	5	17
1987-88	43	-	11	32
1988-89	10	-	8	2
1989-90	55	-	51	4
1990-91	64	-	55	9
1991-92	41	-	29	12
1992-93	54	-	35	19
1993-94*	76	-	56	20
1994-95 (Apl-Sep)*	41	-	31	10
TOTAL ONSHORE				
1970-71	1445	36	762	647
1975-76	2368	162	1082	1124
1976-77	2380	190	809	1381
1980-81	1685	67	403	1215
1981-82	2506	110	845	1551
1982-83	2579	91	931	1557
1983-84	2702	45	1092	1565
1984-85	2833	48	1159	1626
1985-86	2954	66	1005	1883
1986-87	3148	63	1055	2030
1987-88	3208	54	1006	2148
1988-89	3486	84	1096	2306
1989-90	3901	96	1218	2587
1990-91	3916	102	1083	2731
1991-92	4251	132	1056	3063
1992-93	4708	90	955	3663
1993-94*	4979	71	1040	3868
1994-95 (Apl-Sep)*	2612	39	525	2048

* : Provisional

STATE-WISE GROSS AND NET PRODUCTION OF NATURAL GAS

(Million Cubic Metres)

Period	Gross Prodn.	Re-Injected	Flarred	Net Production
1	2	3	4	5
OFFSHORE				
1970-71	-	-	-	-
1975-76	-	-	-	-
1976-77	48	-	48	-
1980-81	673	-	366	307
1981-82	1345	-	674	671
1982-83	2357	-	957	1400
1983-84	3259	-	1425	1834
1984-85	4408	-	1893	2515
1985-86	5180	-	2113	3067
1986-87	6705	-	1663	5042
1987-88	8259	-	2439	5820
1988-89	9731	-	2787	6944
1989-90	13087	-	4502	8585
1990-91	14082	-	4047	10035
1991-92	14394	-	3016	11378
1992-93	13352	-	899	12453
1993-94*	13356	-	884	12472
1994-95 (Apl-Sep)*	7058	-	513	6545
GRAND TOTAL				
1970-71	1445	36	762	647
1975-76	2368	162	1082	1124
1976-77	2428	190	857	1381
1980-81	2358	67	769	1522
1981-82	3851	110	1519	2222
1982-83	4936	91	1888	2957
1983-84	5961	45	2517	3399
1984-85	7241	48	3052	4141
1985-86	8134	66	3118	4950
1986-87	9853	63	2718	7072
1987-88	11467	54	3445	7968
1988-89	13217	84	3883	9250
1989-90	16988	96	5720	11172
1990-91	17998	102	5130	12766
1991-92	18645	132	4072	14441
1992-93	18060	90	1854	16116
1993-94*	18335	71	1924	16340
1994-95 (Apl-Sep)*	9670	39	1038	8593

* Provisional

STATE-WISE UTILISATION OF NATURAL GAS IN INDIA

(Mn. Cubic Metres)

YEAR	ON SHORE						OFF SHORE	Grand
	Gujarat	Assam**	Tripura	Andhra Pradesh	Tamil Nadu	Total	Bombay High	Total
1	2	3	4	5	6	7	8	9
1970-71	310	337	-	-	-	647	-	647
1971-72	380	338	-	-	-	718	-	718
1972-73	414	357	-	-	-	771	-	771
1973-74	374	388	-	-	-	762	-	762
1974-75	532	419	-	-	-	951	-	951
1975-76	637	487	-	-	-	1124	-	1124
1976-77	691	690	-	-	-	1381	-	1381
1977-78	746	715	-	-	-	1461	3	1464
1978-79	744	763	-	-	-	1507	204	1711
1979-80	662	642	-	-	-	1304	372	1676
1980-81	696	519	-	-	-	1215	307	1522
1981-82	681	870	-	-	-	1551	671	2222
1982-83	695	862	-	-	-	1557	1400	2957
1983-84	681	884	-	-	-	1565	1834	3399
1984-85	690	936	-	-	-	1626	2515	4141
1985-86	801	1082	-	-	-	1883	3067	4950
1986-87	787	1226	-	-	17	2030	5042	7072
1987-88	737	1379	-	-	32	2148	5820	7968
1988-89	900	1364	26	14	2	2306	6944	9250
1989-90	1135	1397	25	26	4	2587	8585	11172
1990-91	1294	1317	70	41	9	2731	10035	12766
1991-92	1580	1247	80	144	12	3063	11378	14441
1992-93	1717	1311	115	501	19	3663	12453	16116
1993-94	1909	1244	102	593	20	3868	12472	16340

* : Provisional

** : Includes Nagaland and Arunachal Pradesh.

INDUSTRY-WISE OFFTAKES OF NATURAL GAS IN INDIA

(Million Cubic Metres)

Year	Energy Purpose						Non Energy Purpose				Grand Total
	Power Generation	Industrial Fuel	Tea Plantation	Domestic Fuel	Captive Use/LPG Shrinkage	Total	Fertilizer	Petro Chemicals	Others	Total	
1	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
1970-71	261	116	15	-	68	460	187	-	-	187	647
1971-72	313	129	19	-	61	522	196	-	-	196	718
1972-73	339	148	20	Neg.	63	570	201	-	-	201	771
1973-74	323	157	22	Neg.	81	583	179	-	-	179	762
1974-75	354	164	29	6	80	633	318	-	-	318	951
1975-76	366	143	33	13	104	659	463	-	2	465	1124
1976-77	344	155	38	15	142	694	663	-	24	687	1381
1977-78	372	165	39	13	171	760	673	9	22	704	1464
1978-79	560	175	43	13	176	967	721	5	18	744	1711
1979-80	514	156	39	13	174	896	755	7	18	780	1676
1980-81	492	163	45	14	176	890	611	5	16	632	1522
1981-82	612	166	47	15	364	1204	991	8	19	1018	2222
1982-83	1025	185	51	14	499	1774	1155	7	21	1183	2957
1983-84	1209	230	56	16	572	2083	1283	10	23	1316	3399
1984-85	1454	250	62	18	721	2505	1603	10	23	1636	4141
1985-86	1299	223	78	21	795	2416	2500	10	24	2534	4950
1986-87	2041	257	93	25	1295	3711	3335	-	26	3361	7072
1987-88	2721	281	99	34	1313	4448	3490	-	30	3520	7968
1988-89	1823	526	87	42	1329	3807	5334	21	88	5443	9250
1989-90	2140	695	78	41	1526	4480	6578	29	85	6692	11172
1990-91	3634	827	89	50	1775	6375	5612	409	370	6391	12766
1991-92	4774	766	108	72	2165	7885	5509	531	516	6556	14441
1992-93	4967	1450	105	187	1916	8625	6672	578	241	7491	16116
1993-94	4785	1794	121	189	2277	9166	6499	494	181	7174	16340

* = Provisional Neg. = Negligible

X. REFINING

Petroleum Refining Capacity in India as on 1.4.1994

(Million Tonnes Per Annum)

Refinery	Year of Commissioning	Installed Capacity as on 1.4.1994	Capacity after expansion under consideration/Implementation	Likely date of Commissioning
1.	2.	3.	4.	5.
A. Refineries in Operation:				
1. IOC, Digboi	1901	0.50		
2. BPCL, Bombay	1955	6.00		
3. HPCL, Bombay	1954	5.50		
4. HPCL, Visakh	1957	4.50		
5. IOC, Guwahati	1962	1.00		
6. IOC, Barauni	1964	3.30		
7. IOC, Koyali	1965	9.50		
8. IOC, Haldia	1974	2.75		
9. IOC, Mathura	1982	7.50		
10. CRL, Cochin	1966	4.50		
11. MRL, Madras	1969	6.50		
12. BR & PL, Assam	1979	1.35		
13. MRL, Narimanam	1993	0.50		
Total (A)		**53.40**		
B. Refineries Under Expansion				
1. IOC, Digboi		0.50	0.65	These projects are still in the various stages of approval/ implementation.
2. IOC, Barauni		3.30	3.80	
3. IOC, Koyali		9.50	12.50	
4. CRL, Cochin		4.50	7.50	
5. BR & PL, Assam		1.35	2.35	
Total (B)		**19.15**		
C. Refinery Projects under Implementation				
1. Panipat			6.00	
2. HPCL (Mangalore)			3.00	8th Plan
3. Assam (Numaligarh)			3.00	
Total (C)			**12.00**	

REFINERY CRUDE THROUGHPUT AND PRODUCTION OF PETROLEUM PRODUCTS 1961 TO 1993

('000' Tonnes)

Year	Crude Throughput			Production		
	Public Sector	Private Sector	Total (2+3)	Public Sector	Private Sector	Total (5+6)
1	2	3	4	5	6	7
			CALENDAR YEARS			
1961	-	6440	6440	-	6090	6090
1962	241	6762	7003	193	6391	6584
1963	470	7668	8138	407	7243	7650
1964	911	8021	8932	778	7650	8428
1965	1549	8205	9754	1328	7785	9113
1966	3476	8554	12030	3186	8097	11283
1967	6359	8071	14430	5814	7638	13452
1968	7707	8389	16096	7085	7838	14923
1969	9514	7981	17495	8736	7503	16239
1970	10994	7465	18459	10132	7040	17172
1971	11198	8390	19588	10293	7932	18225
1972	11838	7834	19672	10835	7363	18198
1973	11484	9034	20518	10522	8567	19089
1974	15107	5676	20783	13935	5306	19241
1975	16723	5112	21835	15602	4766	20368
1976	21163	1599	22762	19669	1519	21188
1977	23903	527	24430	22297	498	22795
1978	25096	530	25626	23372	505	23877
1979	27649	504	28153	25874	486	26360
1980	24668	407	25075	23213	384	23597
1981	29128	400	29528	27193	382	27575
1982	32107	-	32107	29984	-	29984
1983	34534	-	34534	32298	-	32298
1984	35235	-	35235	32963	-	32963
1985	41226	-	41226	38264	-	38264
1986	44940	-	44940	41877	-	41877
1987	47445	-	47445	44583	-	44583
1988	47896	-	47896	44730	-	44730
1989	51974	-	51974	48724	-	48724
1990	51671	-	51671	48402	-	48402
1991	50954	-	50954	47916	-	47916
1992	54254	-	54254	51041	-	51041
1993	53509	-	53509	50396	-	50396

REFINERY CRUDE THROUGHPUT AND PRODUCTION OF PETROLEUM PRODUCTS 1961-62 TO 1994-95 (APRIL -SEP.)

('000' Tonnes)

Year	Crude Throughput			Production		
	Public Sector	Private Sector	Total (2+3)	Public Sector	Private Sector	Total (5+6)
1	2	3	4	5	6	7
			FINANCIAL YEARS			
1961-62	60	6524	6584	11	6184	6195
1962-63	300	6964	7264	274	6627	6901
1963-64	554	7920	8474	493	7492	7985
1964-65	1005	8005	9010	842	7636	8478
1965-66	1966	8267	10233	1733	7828	9561
1966-67	4166	8547	12713	3741	8141	11882
1967-68	6783	8022	14805	6257	7512	13769
1968-69	8088	8459	16547	7457	7932	15389
1969-70	10087	7825	17912	9250	7342	16592
1970-71	10820	7559	18379	9965	7145	17110
1971-72	11575	8467	20042	10623	8016	18639
1972-73	11565	7763	19328	10575	7255	17830
1973-74	11616	9342	20958	10647	8848	19495
1974-75	15572	5522	21094	11572	8031	19603
1975-76	17045	5238	22283	15895	4934	20829
1976-77	21694	1301	22995	20203	1229	21432
1977-78	24364	534	24898	22712	507	23219
1978-79	25450	524	25974	23692	501	24193
1979-80	27066	408	27474	25403	391	25794
1980-81	25333	503	25836	23646	477	24123
1981-82	29912	234	30146	27931	251	28182
1982-83	33156	-	33156	31073	-	31073
1983-84	35263	-	35263	32926	-	32926
1984-85	35556	-	35556	33236	-	33236
1985-86	42910	-	42910	39881	-	39881
1986-87	45699	-	45699	42761	-	42761
1987-88	47754	-	47754	44728	-	44728
1988-89	48803	-	48803	45699	-	45699
1989-90	51942	-	51942	51942	-	48690
1990-91	51772	-	51772	48562	-	48562
1991-92	51423	-	51423	48349	-	48349
1992-93	53482	-	53482	50359	-	50359
1993-94	54296	-	54296	51084	-	51084
1994-95* (Apl-Sep)	27927	-	27927	25978	-	25978

* : Provisional

REFINERY-WISE CRUDE RUN AND TOTAL PRODUCTION OF POL PRODUCTS 1980-81 TO 1994-95 (APRIL-SEP)

('000' Tonnes)

Year	AOC/ AOD	BSR/ BPCL	ESSO/ HPCL	CORIL/ HPC (VMU)	Guwahati	Barauni
1	2	3	4	5	6	7
1980-81:						
Total Production	477	4629	2907	1208	577	432
Crude Run	503	4901	3113	1319	639	504
1982-83:						
Total Production	501	4272	2926	1004	733	2861
Crude Run	521	4485	3124	1077	802	3071
1984-85:						
Total Production	511	5230	3021	1157	712	2710
Crude Run	531	5481	3220	1249	761	2896
1985-86:						
Total Production	511	5981	4102	2438	696	2513
Crude Run	529	6389	4375	2659	766	2766
1986-87:						
Total Production	530	5277	4752	3452	738	2604
Crude Run	551	5580	5011	3715	802	2638
1987-88:						
Total Production	468	6178	5170	3351	770	2394
Crude Run	547	6539	5456	3621	815	2638
1988-89:						
Total Production	558	5811	5243	3514	675	2591
Crude Run	574	6132	5506	3762	762	2815
1989-90:						
Total Production	544	6728	5520	3976	801	2709
Crude Run	570	7037	5755	4280	856	2964
1990-91:						
Total production	540	6603	5506	3231	712	2206
Crude Run	566	6957	5766	3464	783	2416
1991-92:						
Total Production	524	6630	4496	3676	793	2060
Crude Run	546	6940	4729	3920	856	2262
1992-93:						
Total Production	523	6875	5619	4274	749	2097
Crude Run	547	7233	5849	4527	815	2287
1993-94:						
Total Production	535	6831	5774	4203	840	2051
Crude Run	554	7203	6018	4448	910	2222
1994-95 (Apl-Sep)*						
Total Production	246	3374	2873	2281	416	1019
Crude Run	254	3584	3039	2443	450	1108

* : Provisional

Contd. ...

REFINERY-WISE CRUDE RUN AND TOTAL PRODUCTION OF POL PRODUCTS 1980-81 TO 1994-95 (APRIL-SEPT)

('000' Tonnes)

Year	Gujarat	Haldia	Mathura	CRL	MRL MADRAS	MRL@ NARIMANAM	BRPL	TOTAL
1	2	3	4	5	6	7	8	9
1980-81:								
Total Production	6629	2056	-	2795	2376	-	37	24123
Crude Run	6974	2308	-	2912	2611	-	52	25836
1982-83:								
Total Production	6667	2301	3610	3048	2635	-	515	31073
Crude Run	7089	2503	3844	3187	2857	-	596	33156
1984-85:								
Total Production	7290	2101	5909	826	3139	-	630	33236
Crude Run	7777	2365	6239	872	3413	-	752	35556
1985-86:								
Total Production	7305	2579	5734	2560	4723	-	739	39881
Crude Run	7830	2822	6075	2749	5057	-	893	42910
1986-87:								
Total Production	7384	2390	6006	3954	4842	-	847	42776
Crude Run	7835	2623	6353	4166	5192	-	1011	45699
1987-88:								
Total Production	7936	2527	6202	3946	4751	-	941	44634
Crude Run	8444	2808	6535	4111	5131	-	1109	47754
1988-89:								
Total Production	8071	2405	6162	4545	5155	-	969	45699
Crude Run	8656	2636	6557	4761	5476	-	1166	48803
1989-90:								
Total Production	8544	2609	6814	4344	5096	-	1005	48690
Crude Run	9109	2824	7208	4616	5510	-	1214	51942
1990-91:								
Total production	8791	2608	7414	4715	5279	-	957	48562
Crude Run	9334	2835	7808	5006	5698	-	1139	51772
1991-92:								
Total Production	8877	2791	7825	4554	5147	-	976	48349
Crude Run	9379	3021	8231	4846	5529	-	1164	51423
1992-93:								
Total Production	9258	2810	7430	4853	4927	-	944	50359
Crude Run	9780	3040	7843	5122	5323	-	1116	53482
1993-94:								
Total Production	8830	2878	8121	4568	5313	120	1020	51084
Crude Run	9434	3106	8518	4862	5728	126	1167	54296
1994-95 (Apl-Sep)*								
Total Production	4462	1317	4119	1872	3310	167	522	25978
Crude Run	4869	1469	4339	2038	3525	176	633	27927

* : Provisional @ Started production in Nov 1993

TRENDS IN DOMESTIC PRODUCTION OF PETROLEUM PRODUCTS DURING THE PERIOD 1981-82 TO 1994-95 (APRIL-SEP.)

(Qty. '000' Tonnes)

Products	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95* (Apl-Sep)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1. Light Distillates:	**5138**	**5313**	**6134**	**6315**	**8253**	**9069**	**9245**	**9451**	**10021**	**10023**	**9673**	**9966**	**10118**	**5555**
of which														
LPG@	410	406	514	596	867	995	1026	1034	1179	1221	1250	1249	1314	664
Mogas	1614	1797	1937	2144	2306	2515	2662	2822	3328	3552	3420	3709	3843	2048
Naphtha	3004	2986	3578	3470	4955	5437	5462	5378	5227	4859	4546	4586	4666	2683
2. Middle Distillates:	**14134**	**15625**	**16873**	**17226**	**21613**	**23324**	**24563**	**25362**	**26867**	**26344**	**26371**	**27004**	**27799**	**14304**
of which														
Kerosene	2907	3393	3528	3364	4030	4912	5104	5201	5700	5471	5339	5199	5266	2591
ATF	1009	1137	1195	1297	1519	1553	1695	1753	1575	1801	1539	1636	1788	1002
HSD	9042	9761	10862	11086	14624	15450	16296	16656	17737	17185	17404	18289	18809	9815
LDO	949	1121	1081	1253	1177	1172	1259	1468	1540	1509	1482	1453	1474	647
3. Heavy Ends:	**8910**	**10135**	**9919**	**9694**	**10015**	**10368**	**10870**	**10886**	**11802**	**12195**	**12305**	**13389**	**13167**	**6119**
of which														
F.O.	4015	4829	4588	4095	3791	3865	4563	4243	4543	4879	5430	6359	6163	2868
LSHS/HHS/RFO	2893	3135	3412	3791	4164	4146	3903	4614	4409	4550	4207	4044	4141	1968
Total Fuel Oils	6908	7964	8000	7886	7955	8011	8466	8857	8952	9429	9637	10403	10304	4836
Lube Oils	407	434	470	414	501	491	478	497	547	561	390	533	489	243
Bitumen	1298	1397	1069	944	1107	1224	1370	1548	1671	1603	1710	1862	1874	833
Petroleum Coke	141	149	136	181	192	264	257	275	275	229	216	221	233	128
Paraffin wax										49	44	47	45	20
Other Waxes										46	46	51	47	29
TOTAL PRODUCTION :	**28182**	**31073**	**32926**	**33236**	**39881**	**42761**	**44728**	**45699**	**48690**	**48562**	**48349**	**50359**	**51084**	**25978**
Crude Throughput	**30146**	**33156**	**35263**	**35556**	**42910**	**45699**	**47754**	**48803**	**51942**	**51772**	**51423**	**53482**	**54296**	**27927**
LPG Production from Natural Gas	73	169	223	277	363	494	558	726	769	929	1235	1323	1385	723
NGL Production	-	25	50	58	83	186	264	414	589	606	992	1245	1331	538

@ : Excludes LPG production from Natural Gas. * : Provisional.

PRODUCTION OF PETROLEUM PRODUCTS-1987 TO 1993

('000' Tonnes)

PRODUCT	PRODUCTION							% VARIATION	
	1987	1988	1989	1990	1991	1992	1993	1992/1991	1993/1992
1	2	3	4	5	6	7	8	9	10
				(A) From Crude Oil					
1. Light Distillates:	**9318**	**9285**	**10086**	**9846**	**9544**	**10171**	**9928**	**+6.6**	**-2.4**
of which									
L.P. Gas @	1021	1010	1163	1215	1229	1254	1295	+2.0	+3.3
Mogas	2789	2700	3242	3536	3453	3646	3803	+5.6	+4.3
Naphtha	5574	5361	5422	4730	4423	4786	4531	+8.2	-5.3
SBPS/Hexane	48	74	85	122	133	135	123	+1.5	-8.9
2. Middle Distillates:	**24332**	**24951**	**26949**	**26503**	**26295**	**27354**	**27156**	**+4.0**	**-0.7**
of which									
Kerosene	5113	5116	5507	5686	5270	5331	5289	+1.2	-0.8
ATF/Jet A-1/RTF	1647	1756	1654	1649	1656	1626	1706	-1.8	+4.9
H.S.D.	16106	16399	17979	17121	17259	18482	18289	+7.1	-1.0
L.D.O.	1242	1424	1512	1525	1499	1514	1412	+1.0	-6.7
J.B.O.	63	61	77	80	83	68	77	-18.1	+13.2
M.T.O.	110	110	130	136	148	132	142	-10.8	+7.6
3. Heavy Ends:	**10933**	**10494**	**11689**	**12053**	**12076**	**13516**	**13312**	**+11.9**	**-1.5**
of which									
F.O.	4659	4155	4491	4856	4982	6524	6288	+31.0	-3.6
LSHS/HHS/RFO	3957	3689	4395	4454	4434	4051	4153	-8.6	+2.5
Total Fuel Oils	8616	7844	8886	9310	9416	10575	10441	+12.3	-1.3
Lube Oils	507	577	556	548	410	503	515	+22.7	+2.4
Bitumen	1351	1556	1595	1598	1676	1836	1845	+9.5	+0.5
Pet. Coke*	267	272	277	246	229	223	216	-2.6	-3.1
Paraffin wax				49	45	47	45	+4.4	-4.3
Other waxes				44	44	56	45	+27.3	-19.6
Total waxes	75	85	95	93	89	103	90	+15.7	-12.6
4. Total Production	**44583**	**44730**	**48724**	**48402**	**47916**	**51041**	**50396**	**+6.5**	**-1.3**
5. Crude Run	**47445**	**47896**	**51974**	**51671**	**50954**	**54254**	**53509**	**+6.5**	**-1.4**
				(b) From Natural Gas					
6. L.P.G.	542	706	764	860	1173	1312	1367	+11.8	+4.2
7. N.G.L.	236	386	518	621	940	1009	1076	+7.3	+6.6

* Includes Calcined pet. Coke

@ : Excludes LPG production from natural gas.

PATTERN OF REFINERY PRODUCTION

(Percentages)

PRODUCTS	1987	1988	1989	1990	1991	1992	1993
Light Distillates	19.6	19.4	19.4	19.1	18.7	18.7	18.6
Middle Distillates	51.3	52.1	51.8	51.3	51.6	50.4	50.8
Total Fuel Oils	18.2	16.4	17.1	18.0	18.5	19.5	19.5
Lubes	1.1	1.2	1.1	1.1	0.8	0.9	1.0
Bitumen	2.8	3.3	3.1	3.1	3.3	3.4	3.4
Others	1.0	1.0	1.2	1.1	1.1	1.2	0.9
Total Production	**94.0**	**93.4**	**93.7**	**93.7**	**94.0**	**94.1**	**94.2**
RBF & Losses/Inventories	6.0	6.6	6.3	6.3	6.0	5.9	5.8
Crude Run	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PRODUCTION OF PETROLEUM PRODUCTS-1987-88 TO 1993-94

('000' Tonnes)

PRODUCT	PRODUCTION							% VARIATION	
	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1992-93 1991-92	1993-94 1992-93
1	2	3	4	5	6	7	8	9	10
				(A) From Crude Oil					
1. Light Distillates:	**9245**	**9451**	**10021**	**10023**	**9673**	**9966**	**10118**	**+3.0**	**+1.5**
of which									
L.P. Gas @	1026	1034	1179	1221	1250	1249	1314	-0.1	+5.2
Mogas	2662	2822	3328	3552	3420	3709	3843	+8.5	+3.6
Naphtha	5462	5378	5227	4859	4546	4586	4666	+0.9	+1.7
SBPS/Hexane	74	72	96	125	135	129	120	-4.4	-7.0
2. Middle Distillates:	**24563**	**25362**	**25867**	**26344**	**26371**	**27004**	**27799**	**+2.4**	**+2.9**
of which									
Kerosene	5104	5201	5700	5471	5339	5199	5266	-2.6	+1.3
ATF/Jet A-1/RTF	1695	1753	1575	1801	1539	1636	1788	+6.3	+9.3
H.S.D.	16296	16656	17737	17185	17404	18289	18809	+5.1	+2.8
L.D.O.	1259	1468	1540	1509	1482	1453	1474	-2.0	+1.4
J.B.O.	63	72	74	82	82	72	74	-12.2	+2.8
M.T.O.	109	115	128	146	143	133	145	-7.0	+9.0
3. Heavy Ends:	**10870**	**10886**	**11802**	**12195**	**12305**	**13389**	**13167**	**+8.8**	**-1.7**
of which									
F.O.	4563	4243	4543	4879	5430	6358	6163	+17.1	-3.1
LSHS/HHS/RFO	3903	3928	4409	4550	4207	4044	4141	-3.9	+2.4
Total Fuel Oils	8466	8171	8952	9429	9637	10402	10304	+7.9	-0.9
Lube Oils	478	497	547	561	390	533	489	+36.7	-8.3
Bitumen	1370	1548	1671	1603	1710	1862	1874	+8.9	+0.6
Pet. Coke*	257	275	275	229	216	221	233	+2.3	+5.4
Paraffin wax				49	44	47	45	+6.8	-4.3
Other waxes				46	46	51	47	+10.9	-7.8
Total waxes	75	88	95	95	90	98	92	+8.9	-6.1
4. Total Producstion	**44728**	**45699**	**48690**	**48562**	**48349**	**50359**	**51084**	**+4.2**	**+1.4**
5. Crude Run	**47754**	**48803**	**51942**	**51772**	**51423**	**53482**	**54296**	**+4.0**	**+1.5**
				(b) From Natural Gas					
6. L.P.G.	558	726	769	929	1235	1323	1385	+7.1	+4.7
7. N.G.L.	264	414	589	606	992	1245	1331	+25.5	+6.9

@ : Excludes LPG Production from natural gas.

* : Includes calcined pet. coke.

PATTERN OF REFINERY PRODUCTION

(Percentages)

PRODUCTS	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94
Light Distillates	19.4	19.4	19.3	19.4	18.8	18.6	18.6
Middle Distillates	51.4	52.0	51.7	51.9	51.3	50.5	51.2
Total Fuel Oils	17.7	16.7	17.2	18.2	18.7	19.4	19.0
Lubes	1.0	1.0	1.1	1.1	0.8	1.0	0.9
Bitumen	2.9	3.2	3.2	3.1	3.3	3.5	3.5
Others	1.3	1.3	1.2	1.1	1.1	1.2	0.9
Total Production	93.7	93.6	93.7	93.8	94.0	94.2	94.1
RBF & Losses/Inventories	6.3	6.4	6.3	6.2	6.0	5.8	5.9
Crude Run	100.0	100.0	100.0	100.0	100.0	100.0	100.0

XI. CONSUMPTION/SALES

TOTAL SALES/CONSUMPTION OF PETROLEUM PRODUCTS

(Incl. Sales to Nepal*, Sikkim, Bhutan and Bunkers/International Airlines)

(Qty. '000' Tonnes)

Year	Total Con-Sumption	% age Growth	Year	Total Consumption	% age Growth
1	2	3	4	5	6
1948	2657	-2.9	1948-49	2774e	+2.1
1949	3125	+17.6	1949-50	3174e	+14.4
1950	3319	+6.2	1950-51	3485e	+9.8
1951	3888	+17.1	1951-52	3851e	+10.5
1952	3741	-3.8	1952-53	3785e	-1.7
1953	3916	+4.7	1953-54	3948e	+4.3
1954	4089	+4.4	1954-55	4270e	+8.2
1955	4817	+17.8	1955-56	4920e	+15.2
1956	5229	+8.6	1956-57	5376e	+9.3
1957	5819	+11.3	1957-58	5894e	+9.6
1958	6117	+5.1	1958-59	6291e	+6.7
1959	6812	+11.4	1959-60	7100e	+12.9
1960	7964	+16.9	1960-61	8285	+16.7
1961	8570	+7.6	1961-62	8724	+5.3
1962	9536	+11.3	1962-63	9832	+12.7
1963	10387	+8.9	1963-64	10671	+18.3
1964	11478	+10.5	1964-65	11700	+9.7
1965	12356	+7.6	1965-66	12437	+6.3
1966	12990	+5.1	2966-67	13348	+7.3
1967	14133	+8.8	1967-68	14397	+7.9
1968	15871	+12.3	1968-69	16305	+13.3
1969	17371	+9.3	1969-70	17797	+9.2
1970	18816	+8.3	1970-71	19135	+7.5
1971	20706	-10.0	1971-72	21299	+11.3
1972	22675	+9.5	1972-73	22978	+11.3
1973	23726	+4.6	1973-74	23574	+2.6
1974	23023	-3.0	1974-75	23302	+1.2
1995	23541	+2.2	1975-76	23673	+1.6
1976	24897	+5.8	1976-77	25400	+7.3
1977	26570	+6.7	1977-78	26990	+6.3
1978	28894	+8.7	1978-79	29719	+10.1
1979	31306	+8.3	1979-80	31323	+ 5.4
1980	31633	+1.0	1980-81	32261	+ 3.0
1981	34037	+7.6	1981-82	34107	+ 5.7
1982	35403	+4.0	1982-83	36395	+ 6.7
1983	37223	+5.1	1983-84	37776	+ 3.8
1984	39934	+7.3	1984-85	40828	+ 8.1
1985	42973	+7.6	1985-86	43363	+ 6.2
1986	45483	+5.8	1986-87	46274	+ 6.7
1987	48048	+5.9	1987-88	48938	+ 5.8
1988	51308	+6.8	1988-89	52882	+ 8.1
1989	55801	+8.8	1989-90	56779	+7.4
1990	57943	+3.8	1990-91	57745	+1.7
1991	58462	+0.9	1991-92	59603	+3.2
1992	62092	+6.2	1992-93	61655	3.4
1993	62836	+1.2	1993-94	63648	3.2

Note :- i) Includes Refinery fuel from 1960/1960-61 onwards
ii) Prior to that Refinery fuel consumption is not available
*= Excludes sales to Nepal from 1975/1975-76 onwards
e = Estimated.

TRENDS IN SALES/CONSUMPTION OF PETROLEUM PRODUCTS DURING THE PERIOD 1981-82 TO 1993-94

('000' Tonnes)

PRODUCTS	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	% Share of the total	1994-95* (Apr-Sept)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1. Light Distillates:	**5187**	**5420**	**5600**	**6318**	**6776**	**7412**	**7547**	**8619**	**9412**	**9801**	**10115**	**10310**	**10570**	**16.6**	**5442**
of which															
LPG	492	601	746	953	1241	1497	1686	1962	2268	2415	2650	2866	3113	4.9	1589
Mogas	1599	1722	1891	2084	2275	2505	2810	3052	3491	3545	3573	3595	3534	6.0	2012
Naphtha	2963	2958	2804	3125	3106	3249	2852	3364	3350	3446	3461	3382	3191	5.0	1564
2. Middle Distillates:	**17919**	**19660**	**20651**	**22429**	**23948**	**25656**	**28005**	**29955**	**32484**	**33106**	**34404**	**36152**	**38146**	**59.9**	**19476**
of which															
Kerosene	4693	5214	5524	5959	6229	6645	7231	7731	8239	8423	8377	8478	8704	13.7	4357
ATF/Jet A-1	1128	1145	1208	1336	1453	1603	1654	1713	1775	1677	1559	1565	1741	2.7	923
HSD	10832	12013	12600	13696	14886	16009	17657	18795	20706	21139	22680	24293	25878	40.7	13330
LDO	1036	1067	1097	1198	1123	1156	1245	1437	1486	1506	1462	1407	1370	2.2	641
3. Heavy Ends:	**9417**	**9577**	**9590**	**10048**	**10148**	**10595**	**10864**	**11518**	**12199**	**12128**	**12455**	**12440**	**12096**	**19.0**	**6012**
FO/TDO	4306	4208	4207	4256	3806	3793	4191	4605	4490	4462	4937	5273	5026	7.9	2697
LSHS/HHS	2878	3093	3351	3688	4094	4254	3953	3851	4330	4524	4265	3994	4166	6.5	1987
Total Fuel Oils	7184	7301	7558	7944	7900	8047	8144	8456	8820	8986	9202	9267	9192	14.4	4684
Lube oils	567	577	590	634	658	721	756	811	888	857	895	811	663	1.0	313
Greases	25	28	27	30	42	34	35	36	38	35	37	35	25	Neg.	11
Lubes & Greases (Total)	592	605	617	664	700	755	791	847	926	892	932	846	688	1.1	324
Bitumen	1292	1379	1050	935	1126	1309	1379	1498	1695	1581	1706	1823	1824	2.9	836
Petroleum Coke	174	103	114	234	163	208	246	316	383	290	266	152	132	0.2	92
Paraffin Wax										70	69	70	74	0.1	34
Other Waxes										47	45	50	45	0.1	23
Other Misc	175	189	251	271	259	275	304	401	375	262	235	232	141	0.2	19
Total (1+2+3)	**32523**	**34657**	**35841**	**38795**	**40872**	**43662**	**46416**	**50092**	**54095**	**55035**	**56974**	**58902**	**60812**	**95.5**	**30930**
Refinery Fuel	**1584**	**1738**	**1935**	**2033**	**2491**	**2612**	**2522**	**2790**	**2684**	**2710**	**2629**	**2753**	**2836**	**4.5**	**1536**
Grand Total	**34107**	**36395**	**37776**	**40828**	**43363**	**46274**	**48938**	**52882**	**56779**	**57745**	**59603**	**61655**	**63648**	**100.0**	**32466**

*: Provisional.

PRODUCT- WISE SALES/CONSUMPTION OF PETROLEUM PRODUCTS DURING THE YEARS 1986 TO 1993

(Qty. '000' Tonnes)

PRODUCT	1986	1987	1988	1989	1990	1991	1992	1993	% Change 1993/1992	1994 (P) Jan-Sept
1	2	3	4	5	6	7	8	9	10	11
1. Light Distillates	**7213**	**7415**	**8286**	**9259**	**9750**	**10005**	**10288**	**10492**	**2.0**	8130
L.P.Gas	1431	1629	1887	2181	2396	2565	2848	3035	6.6	2422
Mogas	2428	2735	2974	3370	3583	3587	3592	3761	4.7	2974
Naphtha	3194	2875	3258	3421	3397	3418	3380	3310	(-) 2.1	2333
SBP/Haxane	62	65	75	105	127	141	157	149	(-) 5.1	91
Others	98	111	92	181	247	297	311	237	(-) 23.8	310
2. Middle Distillates:	**23714**	**25208**	**27318**	**31926**	**33201**	**33715**	**36370**	**37416**	**2.9**	**29350**
Kerosene	6522	7088	7595	8089	8423	8412	8573	8618	0.5	6600
ATF/Jet A-1	1588	1627	1691	1752	1734	1563	1562	1683	7.7	1381
HSD	15703	17165	18325	20329	21176	21976	24396	25323	3.8	20051
LDO/MDO	1149	1220	1379	1491	1512	1432	1464	1343	(-) 8.3	983
JBO/Wash Oil	75	62	65	74	83	83	70	76	8.6	57
MTO	101	103	107	118	133	136	131	138	5.3	106
Others	70	53	54	73	140	113	174	235	35.1	172
3. Heavy Ends:	**10456**	**10811**	**11352**	**11938**	**12286**	**12121**	**12641**	**12048**	**(-) 4.7**	9165
F.O./TDO	3761	4024	4696	4353	4672	4535	5402	4968	(-) 8.0	4000
LSHS/HHS	4255	4126	3664	4347	4424	4415	3980	4122	3.6	3009
Fuel Oils (total)	8016	8150	8360	8700	9096	8950	9382	9090	(-) 3.1	7009
Lubes & Greases	736	794	832	884	904	877	888	750	(-) 15.5	489
Biumen/Asphalt	1216	1357	1512	1597	1609	1662	1831	1796	(-) 1.9	1397
Pet. Coke	199	212	280	369	309	281	182	116	(-) 36.3	134
Wax	86	78	84	110	120	111	122	119	(-) 2.5	87
others	203	222	284	278	248	240	236	177	(-) 25.0	51
Total (1+2+3)	**42877**	**45544**	**48854**	**53123**	**55237**	**55841**	**59299**	**59956**	**1.1**	**46645**
Refinery Fuel @	2606	2504	2454	2678	2706	2621	2793	2880	3.1	2274
GRAND TOTAL:	**45483**	**48048**	**51308**	**55801**	**57943**	**58462**	**62092**	**62836**	**1.2**	**48919**

@ = RBF, Lube Refinery Fuel & TPs Fuel.
P = Provisional

PRODUCT-WISE SALES/CONSUMPTION OF PETROLEUM PRODUCTS DURING THE YEARS 1986-87 TO 1993-94

(Qty. '000' Tonnes)

PRODUCT	1986 -87	1987 -88	1988 -89	1989 -90	1990 -91	1991 -92	1992 -93	1993 -94	% change 1993-94 / 1992-93
1	2	3	4	5	6	7	8	9	10
1. Light Distillates	**7412**	**7547**	**8619**	**9412**	**9801**	**10115**	**10310**	**10570**	**2.5**
L.P.Gas	1497	1686	1962	2268	2415	2650	2866	3113	8.6
Mogas	2505	2810	3052	3491	3545	3573	3595	3834	6.6
Naphtha	3249	2852	3364	3350	3446	3461	3382	3191	-5.6
SBP/Haxane	64	66	86	112	134	142	155	144	-7.0
Others	97	128	155	191	261	289	312	288	-7.7
2. Middle Distillates:	**25656**	**28005**	**29955**	**32484**	**33106**	**34404**	**36152**	**38146**	**5.5**
Kerosene	6645	7231	7731	8239	8423	8377	8478	8704	2.7
ATF/Jet A-1	1603	1654	1713	1775	1677	1559	1565	1741	11.2
HSD	16009	17657	18795	20706	21139	22680	24293	25878	6.5
LDO/MDO	1156	1245	1437	1486	1506	1462	1407	1370	-2.6
JBO/Wash Oil	70	62	72	77	82	75	76	77	1.3
MTO	102	104	110	118	140	136	124	144	16.1
Others	71	52	97	83	139	115	209	232	11.0
3. Heavy Ends:	**10594**	**10864**	**11518**	**12199**	**12128**	**12455**	**12440**	**12096**	-2.8
F.O./TDO	3793	4191	4605	4490	4462	4937	5273	5026	-4.7
LSHS/HHS	4254	3953	3851	4330	4524	4265	3994	4166	4.3
Fuel Oils (total)	8047	8144	8456	8820	8986	9202	9267	9192	-0.8
Lubes & Greases	755	791	847	926	892	932	846	688	-18.7
Bitumen/Asphalt	1309	1379	1498	1695	1581	1706	1823	1824	0.1
Pet. Coke	208	246	316	383	290	266	152	132	-13.2
Wax	82	81	106	116	117	114	120	119	-0.8
Others	193	223	295	259	262	235	232	141	-39.3
Total (1+2+3)	**43662**	**46416**	**50092**	**54095**	**55035**	**56974**	**58902**	**60812**	**3.2**
Refinery Fuel @	2612	2522	2790	2684	2710	2629	2753	2836	3.0
GRAND TOTAL:	**46274**	**48938**	**52882**	**56779**	**57745**	**59603**	**61655**	**63648**	**3.2**

@ = RBF, Lube Refinery Fuel & TPs Fuel.

SEASONAL INDICES OF THE SALES/CONSUMPTION OF MAJOR PETROLEUM PRODUCTS IN INDIA.
(Base : 1980-81)

MONTH	M.S.	A.T.F.	KERO-SENE	H.S.D.	L.D.O.	BITUMEN	ALL PRODUCTS
1	2	3	4	5	6	7	8
April	8.33	8.17	7.92	8.83	7.83	8.25	7.09
May	9.00	8.42	7.92	9.00	7.75	8.25	8.34
June	8.41	8.00	7.92	8.33	7.25	7.42	8.17
1st Quarter							
Total	**25.74**	**24.59**	**23.76**	**26.16**	**22.83**	**23.92**	**23.60**
July	8.17	8.00	8.16	8.00	7.42	7.33	8.17
August	8.00	8.16	8.08	7.25	7.42	7.58	8.00
September	7.92	8.25	8.25	7.33	8.41	7.00	8.00
2nd Quarter							
Total	**24.09**	**24.41**	**24.49**	**22.58**	**23.25**	**21.91**	**24.17**
October	8.33	8.42	8.42	8.08	8.75	7.59	8.34
November	8.17	8.67	8.83	8.50	9.33	8.00	8.59
December	8.67	8.33	8.92	8.92	10.00	9.33	9.09
3rd Quarter							
Total	**25.17**	**25.42**	**26.17**	**25.50**	**28.08**	**24.92**	**26.02**
January	8.33	8.67	8.92	8.67	9.17	9.33	8.84
February	8.17	8.08	8.50	8.17	8.00	8.83	8.42
March	8.50	8.83	8.16	8.92	8.67	11.09	8.95
4th Quarter							
Total	**25.00**	**25.58**	**25.58**	**25.76**	**25.84**	**29.25**	**26.21**
TOTAL:	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**

NOTE: (I) Based on Sales/Consumption data from 1980-81 to 1987-88 (Prov.)
(ii) Moving Average Method.

SALES/CONSUMPTION OF PETROLEUM PRODUCT AND MARKET PARTICIPATION OF OIL COMPANIES IN INDIA 1970-71 TO 1993-94

(Qty. '000' Tonnes)

YEAR		I.O.C	B.Shell/ BPCL	Esso/ HPCL	Caltex/@ HPCL(VMU)	IBP	Others	TOTAL
1	2	3	4	5	6	7	8	9
1970-71	S/C	9212	4219	2538	1279	291	373	17912
	%	51.4	23.6	14.2	7.1	1.6	2.1	100
1971--72	S/C	10959	4153	2717	1316	404	522	20071
	%	54.6	20.7	13.5	6.6	2.0	2.6	100
1972-73	S/C	12788	4085	2620	1185	474	564	21716
	%	58.9	18.8	12.1	5.4	2.2	2.6	100
1973-74	S/C	13745	3985	2392	1095	536	593	22346
	%	61.5	17.8	10.7	4.9	2.4	2.7	100
1974-75	S/C	14363	3184	2510	972	620	456	22105
	%	65.0	14.4	11.4	4.4	2.8	2.0	100
1975-76	S/C	14525	3151	2647	931	659	534	22447
	%	64.7	14.0	11.8	4.2	2.9	2.4	100
1976-77	S/C	15321	3775	2809	974	702	520	24101
	%	63.6	15.7	11.6	4.0	2.9	2.2	100
1977-78	S/C	15721	4217	3083	1146	826	546	25539
	%	61.5	16.5	12.1	4.5	3.2	2.2	100
1978-79	S/C	17223	4601	3488	1348	938	643	28241
	%	61.0	16.3	12.3	4.8	3.3	2.3	100
1979-80	S/C	18136	4968	3768	1393	1012	1618	29883
	%	60.7	16.6	12.6	4.7	3.4	2.0	100
1980-81	S/C	18494	5297	5596		1034	475	30896
	%	59.9	17.1	18.1		3.3	1.6	100
1981-82	S/C	20155	5317	5687		1107	257	32523
	%	62.0	16.3	17.5		3.4	0.8	100
1982-83	S/C	21317	5760	607		1252	249	34657
	%	61.5	16.6	17.6		3.6	0.7	100
1993-84	S/C	21629	6211	6491		1326	184	35841
	%	60.4	17.3	18.1		3.7	0.5	100
1984-85	S/C	22977	7069	6995		1469	285	38795
	%	59.2	18.2	18.0		3.8	0.8	100
1985-86	S/C	23840	7580	7638		1552	262	40872
	%	58.3	18.6	18.7		3.8	0.6	100
1986-87	S/C	25820	7935	7944		1669	294	43662
	%	59.1	18.2	18.2		3.8	0.7	100
1887-88	S/C	27083	8558	8720		1880	175	46416
	%	58.3	18.4	18.8		4.1	0.4	100
1988-89	S/C	28986	9330	9445		1971	360	50092
	%	57.9	18.6	18.9		3.9	0.7	100
1989-90	S/C	30997	10183	10346		2206	363	54095
	%	57.3	18.8	19.1		4.1	0.7	100
1990-91	S/C	31426	10377	10576		2284	372	55035
	%	57.1	18.9	19.2		4.1	0.7	100
1991-92	S/C	32362	10688	11047		2498	379	56974
	%	56.8	18.8	19.4		4.4	0.6	100
1992-93	S/C	32906	11409	11511		2686	390	58902
	%	55.9	19.4	19.5		4.6	0.6	100
1993-94	S/C	33501	12099	12011		2860	341	60812
	%	55.1	19.9	19.7		4.7	0.6	100

S/C = Sales/Consumption

@ = Included under ESSO/HPCL from 1980-81 onwards.

Source: M16 Report for the year 1993-94

DELIVERIES* MADE TO INTERNATIONAL/COASTAL BUNKERS DURING THE YEARS 1981-82 TO 1993-94

(Qty. '000' Tonnes)

ITEMS	1981 -82	1982 -83	1983 -84	1984 -85	985 -86	1986 -87	1987 -88	1988 -89	1989 -90	1990 -91	1991 -92	1992 -93	1993 -94(P)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SHIPPING INTERNATIONAL BUNKERS:													
F.O.	67.1	85.0	104.4	154.9	64.3	110.2	165.1	101.9	143.2	107.6	73.8	78.7	116.0
H.S.D.	16.8	14.5	17.0	12.4	10.1	6.4	12.0	7.2	8.6	10.7	12.9	14.3	13.3
L.D.O.	52.3	41.7	42.3	36.6	31.5	33.7	44.7	38.6	36.0	32.2	29.4	27.7	29.1
TOTAL	**136.2**	**141.2**	**199.7**	**203.9**	**105.9**	**150.3**	**221.8**	**147.7**	**187.8**	**150.5**	**116.1**	**120.7**	**158.4**
COASTAL BUNKERS:													
F.O.	149.6	172.2	142.0	143.2	167.7	197.6	200.0	200.0	208.4	208.0	194.3	182.9	195.4
H.S.D.	61.4	81.0	86.3	86.7	98.3	134.0	140.0	134.3	120.7	129.5	122.3	111.2	120.6
L.D.O.	36.8	47.8	47.1	49.0	39.9	35.6	32.6	38.3	38.0	34.2	34.7	39.8	40.1
TOTAL	**247.8**	**301.0**	**275.4**	**278.9**	**305.9**	**367.2**	**372.6**	**372.6**	**367.1**	**371.7**	**351.3**	**333.9**	**356.1**
TOTAL BUNKERS:													
F.O.	216.7	257.2	282.4	298.1	232.0	307.8	365.1	301.9	351.6	315.6	268.1	261.6	311.4
H.S.D.	78.2	95.5	103.3	99.1	108.4	140.4	152.0	141.5	129.3	140.2	135.2	125.5	133.9
L.D.O.	89.1	89.5	89.4	85.6	71.4	69.3	77.3	76.9	74.0	66.4	64.1	67.5	69.2
TOTAL	**384.0**	**442.2**	**475.1**	**482.8**	**411.8**	**517.5**	**594.4**	**520.3**	**554.9**	**522.2**	**467.4**	**454.6**	**514.5**

* = Excluding Sales to foreign bunkers on KNPC account by IOC.
(P) = Provisional.
Source : M6 report of OCC.

STATE-WISE CONSUMPTION OF MAJOR PETROLEUM PRODUCTS DURING 1993-94 (Provisional)

(INCLUDING INTERNATIONAL BROKERS)

('000' Tonnes)

STATE/ UNION TERRITORY	NAPHTHA	LPG	MS	SKO	ATF	HSD	LDO*	FO	LSHS/ HHS	LUBES & GREASES	OTHERS	TOTAL
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
A STATES												
1. Andhra Pradesh	75	235	242	591	41	2191	32	198	88	48	190	3931
2. Arunachal Pradesh	-	2	12	13	2	51	Neg	-	-	2	3	85
3. Assam	24	47	51	255	35	346	5	52	27	8	55	905
4. Bihar	46	90	136	511	5	1329	143	392	71	45	136	2904
5. Delhi	-	259	375	238	466	840	67	63	21	34	73	2436
5. Goa	240	16	27	27	24	141	5	148	8	5	16	657
7. Gujarat	589	268	311	790	35	1772	234	345	1264	33	355	5996
8. Haryana	Neg	93	123	157	20	1077	43	232	186	21	70	2022
9. Himachal Pradesh	-	17	25	38	Neg	136	2	4	8	3	8	241
10. J&K	-	26	46	104	9	183	4	2	2	4	23	403
11. Karnataka	99	150	252	452	73	1388	22	251	57	32	112	2888
12. Kerala	167	100	157	270	35	960	9	148	176	24	154	2200
13. Madhya Pradesh	-	154	174	405	18	1487	20	215	72	38	191	2774
14. Maharashtra	535	554	582	1523	573	2970	355	1046	1355	140	551	10184
15. Meghalaya	-	4	16	17	-	73	Neg	-	-	2	6	118
16. Manipur	-	6	9	22	1	21	-	Neg	-	1	7	67
17. Mizoram	-	4	6	7	-	15	-	-	-	Neg	7	39
18. Nagaland	-	3	10	11	1	23	Neg	-	-	1	3	52
19. Orissa	123	31	59	175	9	534	20	234	28	18	44	1275
20. Punjab	54	129	247	327	68	1442	46	442	281	29	125	3190
21. Rajasthan	193	121	146	286	54	1640	33	71	112	26	151	2833
22. Sikkim	-	1	3	6	Neg	6	1	2	-	Neg	1	20
23. Tamilnadu	439	257	262	666	71	2233	52	656	213	56	305	5210
24. Tripura	-	4	5	21	2	29	Neg	Neg	-	1	6	68
25. Uttar Pradesh	567	355	360	976	64	3362	119	178	182	60	253	6476
26. West Bengal	40	159	144	761	108	1404	137	313	9	54	211	3340
Total (A)	**3191**	**3085**	**3780**	**8649**	**1714**	**25653**	**1349**	**4992**	**4160**	**685**	**3056**	**60314**

Contd. ...

STATE-WISE CONSUMPTION OF MAJOR PETROLEUM PRODUCTS DURING 1993-94 (Provisional)

(INCLUDING INTERNATIONAL BROCKERS)

('000' Tonnes)

STATE/ UNION TERRITORY	NAPHTHA	LPG	MS	SKO	ATF	HSD	LDO*	FO	LSHS/ HHS	LUBES & GREASES	OTHERS	TOTAL
1.	2.	3.	4.	5.	6.	7.	8.	9.	10	11.	12.	13.
B. UNION TERRITORIES												
1. Andaman & Nikobar	-	1	2	4	3	43	Neg	Neg	-	Neg	Neg	53
2. Chandigarh	-	16	37	22	24	45	3	8	6	2	46	209
3. Dadra & Nagar Haveli	-	Neg	2	3	-	17	4	1	Neg	Neg	1	28
4. Daman & Diu	-	1	2	5	-	5	1	1	-	Neg	1	16
5. Lakshadweep	-	Neg	-	Neg	Neg	3	-	-	-	Neg	-	3
6. Pondicherry	-	8	9	15	-	98	4	22	-	1	4	161
Total (B)	**-**	**26**	**52**	**49**	**27**	**211**	**12**	**32**	**6**	**3**	**52**	**470**
C. OUTSIDE TERRITORIES												
1. Bhutan	-	2	2	6	Neg	14	1	2	-	-	1	28
Total (C)	**-**	**2**	**2**	**6**	**Neg**	**14**	**1**	**2**	**-**	**-**	**1**	**28**
GRAND TOTAL (A+B+C)	**3191**	**3113**	**3834**	**8704**	**1741**	**25878**	**1362**	**5026**	**4166**	**688**	**3109**	**60812**

Neg : Negligible

* = Excludes LDO Malarial

Source : M5 Report of OCC

ESTIMATED STATE-WISE PER CAPITA SALES/CONSUMPTION OF POL PRODUCTS

(Kgs.)

State/ Territory	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94
A. STATES									
Andhra Pradesh	38.8	40.0	42.4	46.5	51.1	50.4	52.1	56.4	59.1
Arunachal Pradesh						76.9	83.9	86.0	98.3
Assam	33.7	35.4	37.7	40.5	42.9	46.2	44.3	41.6	40.4
Bihar	26.1	28.5	30.0	33.0	33.2	33.1	33.0	35.4	33.6
Delhi	214.9	216.6	229.9	236.0	257.1	243.5	241.3	243.4	258.6
Goa						527.1	574.9	563.2	561.5
Gujarat	127.8	133.0	134.6	139.1	137.4	138.4	147.3	145.3	145.1
Haryana	80.0	88.2	94.4	86.5	99.3	104.2	110.9	112.8	122.8
Himachal Pradesh	24.7	27.0	31.5	35.0	37.1	36.4	40.7	43.1	46.6
Jammu & Kashmir	33.1	37.3	41.1	42.1	41.4	37.7	45.2	46.8	52.2
Karnataka	42.6	47.0	47.5	51.4	52.7	54.9	57.6	60.0	64.2
Kerala	48.5	52.0	54.9	60.3	60.6	65.9	68.0	68.7	75.6
Madhya Pradesh	31.7	32.8	35.0	38.3	39.7	37.2	38.6	40.2	41.9
Maharashtra	101.2	101.5	106.3	117.4	121.4	120.0	118.4	124.1	129.0
Manipur	30.6	32.7	35.7	41.7	38.1	34.5	35.6	38.6	36.5
Meghalaya	40.9	42.4	43.5	53.4	57.4	57.9	61.3	66.5	66.5
Mizoram						58.3	40.8	44.9	56.5
Nagaland	40.4	40.4	44.1	53.9	49.1	43.6	40.3	44.7	43.0
Orissa	26.5	27.5	30.4	33.2	35.1	35.7	38.6	39.2	40.3
Punjab	96.5	113.8	126.8	115.5	128.3	133.5	145.9	150.5	157.3
Rajasthan	39.4	42.1	43.2	55.9	56.4	51.6	55.4	59.0	64.4
Sikkim	38.9	33.3	26.2	38.1	30.2	37.2	39.4	49.3	49.3
Tamil Nadu	72.8	74.7	77.1	85.2	88.2	86.5	90.2	91.6	93.3
Tripura	18.8	20.6	23.5	27.2	30.4	24.0	22.6	25.8	24.7
Uttar Pradesh	31.8	34.8	35.9	39.7	41.7	40.0	42.9	44.9	46.6
West Bengal	45.1	45.9	47.6	51.2	52.5	50.4	50.1	49.5	49.1
B. OTHER AREAS									
Chandigarh	226.9	246.8	250.8	275.4	261.1	249.7	288.6	272.6	325.5
Goa. (incl. Daman & Diu Dadra & Ngr. Haveli)	368.0	393.4	400.7	719.7	438.4	141.7*	146.4*	166.7*	183.3*
Others	69.5	79.1	83.5	92.9	114.5	155.5	158.2	178.9	190.4
TOTAL ALL INDIA @	**55.9**	**59.7**	**62.0**	**63.7**	**69.1**	**68.4**	**70.5**	**72.9**	**75.2**

ESTIMATED PER CAPITA CONSUMPTION OF SELECTED PETROLEUM PRODUCTS-1985-86 TO 1993-94 (INCL. BUNKERS).

(Kgs)

PRODUCT	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94
Naphtha	4.2	4.2	3.6	4.3	4.1	4.1	4.1	4.0	3.8
M.S.	3.0	3.2	3.6	3.9	4.2	4.2	4.2	4.2	4.5
SKO	8.3	8.6	9.1	9.8	10.0	10.0	9.9	10.0	10.3
HSDO	19.7	20.6	22.3	23.8	25.2	25.0	26.9	28.7	30.6
LDO	1.5	1.5	1.6	1.8	1.8	1.8	1.7	1.7	1.6
F.O. (Regular)	5.0	4.9	5.3	5.8	5.5	5.3	5.8	6.2	5.9
LSHS/HHS	5.3	5.5	5.0	4.9	5.3	5.4	5.0	4.7	4.9
TOTAL ALL-INDIA @ SALES/CONSUMPTION	**57.3**	**59.3**	**62.0**	**63.7**	**69.1**	**68.4**	**70.6**	**72.9**	**75.2**

Note: (i) Based on Expert Committee's population projection as on 1st March each year and projection on 1971 and 1981 Census basis and Paper -1 of 1991, Census of India-1991.

(ii) Includes Mogas, Kerosene, ATF, HSDO, LDO, Fuel Oils,LPG, Naphtha and Bitumen in 1979-80 and all products except (lubricants) in 1980-81 to 1982-83 but incl. lubricants in1983-84 to 1987-88.

@ All India actual consumption of all products incl. Ref. Fuel & International Bunkers.

* Figure excluding Goa, Goa has been shown separately P = Provisional

ESTIMATED SECTOR-WISE (END-USE) INDUSTRY CONSUMPTION OF LPG NAPHTHA & HSDO DURING 1989-90 TO 1993-94

(Qty. '000' Tonnes)

SECTOR	1989–90		1990-91		1991-92		1992-93		1993-94	
	Consum-ption	% to Total	Consum-ption	% to total	Consum-ption	% to total	Consum-ption	% to total	Consum-ption	% to total
1	2	3	4	5	6	7	8	9	10	11
				L.P. GAS						
1. Domestic	1810	79.8	1894	78.4	2134	80.5	2275	79.4	2423	77.8
2. Commercial/Industry	422	18.6	487	20.2	486	18.3	544	19.0	635	20.4
3. Others	36	1.6	34	1.4	30	1.2	47	1.6	55	1.8
TOTAL (1+2+3):	**2268**	**100.0**	**2415**	**100.0**	**2650**	**100.0**	**2866**	**100.0**	**3113**	**100.0**
				NAPHTHA						
1. Fertilizers	1835	54.8	1842	53.5	1770	51.2	1678	49.6	2172	68.1
2. Petrochemicals	842	25.1	766	22.2	860	24.8	1156	34.2	1013	31.7
3. Others	673	20.1	838	24.3	831	24.0	548	16.2	6	0.2
TOTAL (1+2+3):	**3350**	**100.0**	**3446**	**100.0**	**3461**	**100.0**	**3382**	**100.0**	**3191**	**100.0**
				HSDO						
1. Transport										
i) Road Transport	1936	9.3	1864	8.8	1964	8.7	2057	8.5	2129	8.2
ii) Aviation	11	0.1	11	0.1	11	0.1	12	0.1	17	0.1
iii) Shipping	184	0.9	193	0.9	191	0.8	183	0.7	199	0.8
iv) Railways	1455	7.0	1453	6.9	1459	6.4	1417	5.8	1441	5.5
v) Other Transport (incl. Agri. Retail Trade)	14755	71.3	15292	72.3	16657	73.4	18057	74.3	19273	74.5
Sub-total (1) :	**18341**	**88.6**	**18813**	**89.0**	**20282**	**89.4**	**21726**	**89.4**	**23059**	**89.1**
2. Plantation/Food										
i) Sugar Mills	69	0.3	99	0.5	96	0.4	87	0.4	84	0.3
ii) Others (incl. Plan. of Food)	201	1.0	219	1.0	250	1.1	301	1.2	410	1.6
Sub-total (2):	**270**	**1.3**	**318**	**1.5**	**346**	**1.5**	**388**	**1.6**	**494**	**1.9**
3. Power Generation (utilities)	**126**	**0.6**	**104**	**0.5**	**110**	**0.5**	**108**	**0.5**	**115**	**0.5**
4. Industry										
i) Iron & Steel	63	0.3	69	0.3	73	0.3	89	0.4	88	0.3
ii) Textile & fibre	201	1.0	173	0.8	165	0.7	146	0.6	167	0.6
iii) Cement	154	0.7	155	0.7	165	0.7	176	0.7	165	0.6
iv) Ceramic & Glass	27	0.1	26	0.1	24	0.1	27	0.1	30	0.1
v) Chemicals & Allied	115	0.6	77	0.4	86	0.4	94	0.4	114	0.5
vi) Aluminium	4	Neg	3	Neg	4	Neg	5	Neg.	6	Neg.
vii) Mining & quarrying	569	2.7	556	2.6	552	2.4	567	2.3	578	2.2
viii) Engg. (Mech & Elec)	159	0.8	160	0.8	151	0.7	153	0.6	146	0.6
ix) Fertilizers	17	0.1	13	0.1	21	0.1	18	0.1	9	Neg
x) Other Industries & Construction	203	1.0	199	1.0	175	0.8	214	0.9	209	0.8
Sub-total (4)	**1512**	**7.3**	**1431**	**6.8**	**1416**	**6.2**	**1489**	**6.1**	**1512**	**5.8**
5. Misc. Services (incl. DGS &D)	**457**	**2.2**	**473**	**2.2**	**526**	**2.3**	**582**	**2.4**	**698**	**2.7**
Total (1+2+3+4+5)	**20706**	**100.0**	**21139**	**100.0**	**22680**	**100.0**	**24293**	**100.0**	**25878**	**100.0**

(P) = Provisional

ESTIMATED SECTOR-WISE (END-USE) INDUSTRY CONSUMPTION OF LDO, FO (Regular) & LSHS/HHS DURING 1989-90 TO 1993-94

(Qty. '000' Tonnes)

SECTOR	1989–90		1990-91		1991-92		1992-93		1993-94	
	Consum-ption	% to Total	Consum-ption	% to total	Consum-ption	% to total	Consum-ption	% to total	Consum-ption	% to total
1	2	3	4	5	6	7	8	9	10	11
				LDO (Regular)						
1. Transport										
i) Road Transport	2	0.1	1	0.1	1	0.1	1	0.1	1	0.1
ii) Aviation	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
iii) Shipping	76	5.1	67	4.5	61	4.2	66	4.7	65	4.8
iv) Railways	5	0.3	4	0.2	3	0.2	2	0.1	2	0.1
v) Other Transport (incl. Agr. Retail Trade)	14	0.9	13	0.9	14	1.0	15	1.1	13	0.9
Sub-Total:1	**98**	**6.5**	**86**	**5.8**	**80**	**5.5**	**85**	**6.1**	82	6.0
2. Plantation/Food (incl. Processing)										
i) Sugar Mills	2	0.1	4	0.2	1	0.1	1	0.1	1	0.1
ii) Others (incl. Plan. & Food)	35	2.4	37	2.5	36	2.5	34	2.4	35	2.5
Sub-Total : 2	**37**	**2.5**	**41**	**2.7**	**37**	**2.6**	**35**	**2.5**	**36**	**2.6**
3. Power Generation (utilities)	**325**	**22.0**	**282**	**18.8**	**230**	**15.8**	**211**	**15.0**	**182**	**13.4**
4. Industry										
i) Iron & steel	45	3.0	51	3.4	46	3.2	53	3.8	48	3.5
ii) Textile & Fibre	39	2.6	44	2.9	46	3.2	40	2.8	39	2.9
iii) Cement	8	0.5	10	0.7	14	1.0	11	0.8	11	0.8
iv) Ceramic & Glass	49	3.3	51	3.4	55	3.8	47	3.3	45	3.3
v) Chemicals & Allied	110	7.4	129	8.6	121	8.3	146	10.4	145	10.6
vi) Aluminium	10	0.7	6	0.4	12	0.8	17	1.2	17	1.3
vii) Mining & quarrying	10	0.7	10	0.7	11	0.7	15	1.1	9	0.7
viii) Engg. (Mech & Elec)	112	7.6	128	8.5	120	8.2	109	7.8	109	8.0
ix) Fertilizers	7	0.5	6	0.4	6	0.4	3	0.2	3	0.2
x) Other Industries & Construction	187	12.7	203	13.5	213	14.6	206	14.7	199	14.6
Sub Total : 4	**577**	**39.0**	**638**	**42.5**	**644**	**44.2**	**647**	**46.7**	**625**	**45.9**
5. Misc. Services (incl. DGS & D)	**443**	**30.0**	**454**	**30.2**	**465**	**31.9**	**424**	**30.2**	**437**	**32.1**
TOTAL : (1+2+3+4+5)	**1480**	**100.0**	**1501**	**100.0**	**1456**	**100.0**	**1402**	**100.0**	**1362**	**100.0**
				F.O. (Regular)						
1. Transport										
i) Road Transport	9	0.2	45	1.0	8	0.1	7	0.1	7	0.2
ii) Aviation	3	0.1	4	0.1	1	Neg	5	0.1	3	0.1
iii) Shipping	346	7.7	300	6.7	245	5.0	235	4.4	292	5.8
iv) Railways	24	0.5	22	0.5	21	0.4	15	0.3	16	0.3
v) Other Transport (Incl. Agr. Retail Trade)	79	1.8	76	1.7	68	1.4	77	1.5	87	1.7
Sub-Total : 1	**461**	**10.3**	**447**	**10.0**	**343**	**6.9**	**339**	**6.4**	**405**	**8.1**
2. Plantation/Food (incl. Processing)										
i) Sugar Mills	14	0.3	14	0.3	18	0.4	16	0.3	15	0.3
ii) Others (incl. Plan. & Food)	147	3.3	122	2.8	146	2.9	174	3.3	171	3.4
Sub-Total : 2	**161**	**3.6**	**136**	**3.1**	**164**	**3.3**	**190**	**3.6**	**186**	**3.7**
3. Power Generation (utilities)	**692**	**15.4**	**531**	**11.9**	**527**	**10.7**	**555**	**10.5**	**490**	**9.7**

Contd.....

ESTIMATED SECTOR-WISE (END-USE) INDUSTRY CONSUMPTION OF LDO, FO (Regular) & LSHS/HHS DURING 1989-90 TO 1993-94

(Qty. '000' Tonnes)

SECTOR	1989–90		1990-91		1991-92		1992-93		1993-94	
	Consum-ption	% to Total	Consum-ption	% to total	Consum-ption	% to total	Consum-ption	% to total	Consum-ption	% to total
1	2	3	4	5	6	7	8	9	10	11
				F.O. (Regular)						
4 Industry										
i) Iron & Steel	310	6.9	311	7.0	363	7.4	372	7.1	368	7.3
ii) Textile & Fibre	333	7.4	289	6.5	321	6.5	425	8.1	376	7.5
iii) Cement	51	1.1	64	1.5	78	1.6	75	1.4	62	1.2
iv) Ceramic & Glass	70	1.6	73	1.6	87	1.8	89	1.7	86	1.7
v) Chemicals & Allied	591	13.2	613	13.7	636	12.9	725	13.7	678	13.5
vi) Aluminium	88	2.0	95	2.1	114	2.3	142	2.7	110	2.2
vii) Mining & quarrying	74	1.6	55	1.2	43	0.9	43	0.8	58	1.2
viii) Engg. (Mech & Elec)	151	8.4	146	3.3	140	2.8	147	2.8	145	2.9
ix) Fertilizers	841	18.7	1058	23.7	1404	28.4	1348	25.6	1160	23.1
x) Other Industries & Construction	468	10.4	446	10.0	506	10.2	596	11.3	560	11.1
Sub-Total : 4	**2977**	**66.3**	**3150**	**70.6**	**3692**	**74.8**	**3962**	**75.2**	**3603**	**71.7**
5. Misc. Services (incl. DGS&D)	**199**	**4.4**	**198**	**4.4**	**211**	**4.3**	**227**	**4.3**	**342**	**6.8**
TOTAL : (1+2+3+4+5)	**4490**	**100.0**	**4462**	**100.0**	**4937**	**100.0**	**5273**	**100.0**	**5026**	**100.0**
				LSHS/HHS						
1. Transport	**8**	**0.2**	**13**	**0.3**	**22**	**0.5**	**10**	**0.3**	**12**	**0.3**
2. Plantation/Food (inc. Processing)										
i) Sugar Mills	2	Neg	2	0.1	1	Neg.	Neg.	-	Neg.	-
ii) Other (incl. Plan.& Food)	42	1.0	47	1.0	28	0.7	35	0.9	40	1.0
Sub-Total : 2	**44**	**1.0**	**49**	**1.1**	**29**	**0.7**	**35**	**0.9**	**40**	**1.0**
3. Power Generation (utilities)	**1630**	**37.6**	**1835**	**40.6**	**1798**	**42.2**	**1779**	**44.5**	**1676**	**40.2**
4. Industry										
i) Iron & steel	181	4.2	174	3.8	177	4.2	113	2.8	97	2.3
ii) Textile & Fibre	237	5.5	332	7.3	293	6.9	242	6.1	338	8.1
iii) Cement	33	0.8	42	0.9	36	0.8	35	0.9	53	1.3
iv) Ceramic & Glass	113	2.6	136	3.0	113	2.6	96	2.4	76	1.8
v) Chemicals & Allied	395	9.1	360	8.0	300	7.0	308	7.7	375	9.0
vi) Aluminium	83	1.9	62	1.4	33	0.8	41	1.0	65	1.6
vii) Mining & quarrying	28	0.6	14	0.3	4	0.1	11	0.3	8	0.2
viii) Engg. (Mech & Elec)	29	0.7	40	0.9	40	0.9	33	0.8	32	0.8
ix) Fertilizers	1298	30.0	1184	26.2	1046	24.5	1002	25.1	1052	25.2
x) Other Industries & Construction	232	5.4	261	5.8	293	6.9	241	6.0	270	6.5
Sub Total : 4	**2629**	**60.8**	**2605**	**57.6**	**2335**	**54.7**	**2122**	**53.1**	**2366**	**56.8**
5. Misc. Services (incl. DGS & D)	**19**	**0.4**	**22**	**0.4**	**81**	**1.9**	**48**	**1.2**	**72**	**1.7**
TOTAL : (1+2+3+4+5)	**4330**	**100.0**	**4524**	**100.0**	**4265**	**100.0**	**3994**	**100.0**	**4166**	**100.0**

CONSUMPTION OF DIESEL OIL IN INDIAN RAILWAYS DURING 1960-61 TO 1993-94.

Year	No. of Diesel Locomotives Nos.	Consumption of Diesel Oil (In Kls.)	Consumption of Diesel per locomotive (In Kls.)
1	2	3	4
1960-61	181	62771	346.8
1961-62	228	59444	260.7
1962-63	349	98481	282.2
1963-64	486	182328	375.2
1964-65	621	245633	395.5
1965-66	727	310813	427.5
1966-67	776	365582	471.1
1967-68	892	427126	478.8
1968-69	996	486084	488.0
1969-70	1091	536301	491.6
1970-71	1169	569025	486.8
1971-72	1288	626983	486.8
1972-73	1431	667414	466.4
1973-74	1610	683140	424.3
1974-75	1702	720047	423.1
1975-76	1803	797610	442.4
1976-77	1903	867330	455.8
1977-78	2025	949077	468.7
1978-79	2126	960545	451.8
1979-80	2243	992060	442.3
1980-81	2403	1067477	444.2
1981-82	2520	1179682	468.1
1982-83	2638	1227236	465.2
1983-84	2800	1313200	459.0
1984-85	2905	1335664	459.8
1985-86	3046	1440269	472.8
1986-87	3182	1536499	482.9
1987-88	3298	1595897	483.9
1988-89	3454	1652555	478.4
1989-90	3610	1678814	465.0
1990-91	3759	1712816	455.7
1991-92	3905	1731473	443.4
1992-93	4069	1741751	428.1
1993-94 (P)	4160	1783162	428.6

Source : Railway Board (P) : Provisional

INDUSTRY/PLANT-WISE OFFTAKE OF NAPHTHA

(Qty. '000' Mts)

Category and Plant	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94
1	2	3	4	5	6	7	8	9
1. Fertilizer Plants								
Madras Fertilizer Ltd.	234	105	205	196	201	206	191	167
HFC, Durgapur	94	95	55	41	74	95	70	35
FCI, Gorakhpur	98	88	108	98	22	0	0	0
HFC, Barauni	115	131	99	73	101	71	100	31
SFC, Kota	158	139	152	166	176	169	170	172
ICI, Kanpur	305	253	292	319	254	294	291	282
RFP, Rourkela	82	75	99	103	105	93	107	119
GSFC, Baroda	125	118	126	132	128	120	78	83
FACT, Cochin	123	105	138	112	129	121	83	130
ZAC, Goa	227	224	212	220	238	266	257	240
IFFCO, Phulpur	251	216	299	264	348	253	312	268
IFFCO, Kalol	46	49	47	44	55	61	51	52
MCFL, Manglore	162	103	151	111	140	137	99	100
SPIC, Tuticorin	270	234	269	270	261	287	281	276
GNFC, Bharuch	1	Neg.	Neg.	Neg.	1	Neg.	Neg.	Neg.
FACT, Alwaye	65	61	76	61	56	55	50	38
FCI, Bombay	-	13	-	-	-	-	-	-
Coromandal Ferts, Vizag	73	66	66	64	76	68	58	50
NFL Nangal				16	49	48	57	56
Others	59	-	-	8	2	1	1	95
Sub-Total (Fertilizer)	**2488**	**2075**	**2392**	**2298**	**2416**	**2345**	**2256**	**2224**
II. Petrochemical Plants:								
BRPL, Bongaigaon	-	24	16	25	21	17	22	21
HOC, Rasayani	4	4	4	-	-	5	5	5
IPCL, Baroda	444	451	455	417	416	482	449	427
NOCIL, Bombay	259	264	299	287	275	272	293	272
RCF, (Mathanol) Bombay	13	-	15	9	4	0	0	0
UCIL, Bombay	69	-	-	-	-	-	-	-
Rama Petro Chemicals	-	-	48	41	44	33	26	24
Reliance Ind. Ltd.	-	-	59	179	182	185	232	292
National Peroxide				2	2	2	2	2
Oswal Agro				19	71	61	72	19
Others	-	-	1	-	2	2	6	9
Sub-Total (Petro-Chem.)	**724**	**743**	**897**	**979**	**1017**	**1059**	**1107**	**991**
III. Others.								
HOC Rasayani	-	-	-	5	5	N.A.	N.A.	N.A.
FCI Talchar	-	-	4	2	0.0	N.A.	N.A.	N.A.
DESU	-	-	56	59	0.0	1	0	0
HSL, Bhilai etc.	37	34	11	2	0.0	0	0	0
HCL, Khetri	-	-	4	4	4	5	1	7
Others					5	34	19	19
Sub-Total (others)	**37**	**34**	**75**	**72**	**14**	**40**	**20**	**26**
GRAND TOTAL(I + II + III)	**3249**	**2852**	**3364**	**3349**	**3447**	**3444**	**3383**	**3241**

Source : Industry Performance Review, March, 1994 (P) : Provisional

PLANT/CUSTOMER-WISE OFFTAKE OF FO/LSHS

(Qty. '000' Tonnes)

Cateogry and Plant	1989-90	1990-91	1991-92	1992-93	1993-94 (P)
1	2	3	4	5	6
		(I) POWER			
A. Northern:					
OBRA Thermal	22.9	19.9	28.1	30.4	29.6
HSEB Hardwaganj	0.0	6.3	3.7	13.8	13.4
BTPS Bhardrapur	20.8	20.7	18.2	5.5	9.8
GNTP Bhatinda	16.5	3.9	2.6	2.7	3.6
TPS Paricha	6.4	6.5	5.8	10.6	10.7
TPS Singrauli	22.2	5.4	1.5	0.0	5.5
TPS Rihand	5.6	19.7	4.1	2.9	0.0
TPS Kota	51.9	36.3	22.9	9.8	12.4
DESU Delhi (BPC+HPC+IOC)	37.5	39.7	52.1	46.3	38.9
HSEB Faridabad	3.6	2.7	3.5	3.4	0.0
TPS Ropar	37.4	11.3	15.0	23.8	38.8
TPS Panipat	35.2	38.0	43.4	39.4	30.3
HWP Rawatbhatta	-	9.1	45.7	45.2	24.6
Sub-total (A)	**260.0**	**219.5**	**246.6**	**233.8**	**217.6**
B. Eastern:					
ASEB Chandrapura	73.3	71.1	75.0	42.3	23.9
CTPS Chandrapur	34.2	36.1	39.1	39.7	29.6
DTPS Durgapur	0.0	0.0	0.0	0.0	0.0
DPL Durgapur	0.0	0.0	0.0	0.0	0.0
NTPC Farrakka	0.0	0.0	2.4	4.1	46.2
BTPS Barauni	23.4	23.8	30.0	13.5	12.4
NTPC Kanti (Muzzafarpur)	0.0	0.0	0.0	0.0	0.0
TPS Patratu	.0	0.0	0.0	0.0	0.0
TTPS Talcher	9.4	7.6	11.8	6.9	6.0
BTPS Salakati	28.2	24.8	37.6	34.2	10.8
Sub-Total (B)	**168.5**	**163.4**	**195.9**	**140.7**	**128.9**
C. Western:					
GEB Dhuwaran	750.2	756.2	746.7	691.0	494.9
GEB Ukai	6.9	16.6	26.3	34.8	34.1
GEB Gandhinagar	16.7	13.0	21.4	14.4	10.2
AECO Sabarmati	13.4	0.0	5.9	5.5	6.7
GEB Wanakbari	44.5	55.0	80.7	47.3	45.5
MPEB Sarani	139.1	107.5	71.5	102.1	57.6
MSEB Koradi	39.1	24.0	28.7	26.7	19.9
MSEB Chandrapur	18.7	14.8	16.6	29 6	45.6
MPEB Dhari	11.3	13.5	18.8	16.8	17.7
MSEB Nasik	24.9	29.9	16.8	12.6	12.9
MSEB Bhusawal	15.8	12.4	7.3	9.2	4.8
MSEB Paras	2.2	1.9	0.0	1.4	5.1
MPEB Parli	52.1	34.5	16.3	18.1	12.4
NTPC Korba	33.0	21.3	16.1	14.5	11.2
MPEB Korba	22.2	19.1	16.5	0.0	18.7
GEB Kandla	-	-	-	-	-
TATA Thermal	554.4	718.3	655.2	812.2	819.1
MPEB Chachai	12.1	14.6	12.8	17.8	10.7
NTPC Waidhan	22.6	23.0	28.7	17.9	9.3
MSEB Kaperkada	0.0	13.9	16.0	11.3	5.6
Sub-Total (C)	**1779.2**	**1889.5**	**1802.3**	**1883.3**	**1641.9**

Contd.....

PLANT/CUSTOMER-WISE OFFTAKE OF FO/LSHS

(Qty. '000' Tonnes)

Cateogry and Plant	1989-90	1990-91	1991-92	1992-93	1993-94 (P)
1	2	3	4	5	6
D. Southern:					
TTPS Tuticorin	12.2	11.2	21.8	14.7	16.1
KTPS Palancha	11.2	5.1	8.2	14.4	9.3
RTPS Raichur	3.1	3.6	7.2	1.2	1.3
ITPP Metturdam	27.1	13.4	4.1	5.5	1.9
NTPC Ramagundam	34.7	26.0	7.1	13.4	2.8
ETPS Ennore	8.8	7.6	4.1	2.9	4.7
NCL Neyveli TML	0.0	9.5	7.2	21.0	58.1
HWP Manuguru	-	8.7	30.4	21.5	13.5
Sub-Total (D)	**97.1**	**85.1**	**90.1**	**94.6**	**107.7**
Total : Power (A+B+C+D)	**2304.8**	**2357.5**	**2334.9**	**2352.4**	**2096.1**
		(II) Fertilizer Plants:			
A. Northern:					
NFL Nangal	287.1	294.1	296.1	271.8	257.3
NFL Bhatinda	302.0	248.0	322.1	267.3	273.3
NFL Panipat	301.2	315.7	296.5	271.7	285.6
IFFCO Phulpur	21.6	18.7	29.9	22.2	8.2
SFC Kota	-	0.0	27.0	1.8	1.4
Sub-Total (A)	**911.9**	**876.5**	**971.6**	**820.8**	**839.8**
B. Eastern:					
HFC Holida	0.0	0.0	0.0	0.0	0.0
HFC Durgapur	8.3	18.0	18.6	16.2	10.8
FCI Sindri	193.0	169.5	169.1	194.3	152.3
HFC Barauni	25.5	24.0	20.8	20.8	8.3
FCI Talcher	8.7	11.4	13.9	9.6	14.0
Sub-Toatal (B)	**235.5**	**222.9**	**222.4**	**240.9**	**185.4**
C. Western:					
ZAC Goa	80.6	92.5	98.0	97.5	99.1
IFFCO Kalol	34.9	37.4	36.4	35.7	35.7
GSFC Baroda	78.4	115.9	122.5	129.8	113.7
GNFC Bharuch	438.2	414.9	498.0	433.6	397.2
Sub-Total (C)	**632.1**	**660.7**	**754.9**	**696.6**	**645.7**
D. Southern:					
MFL Madraa	78.2	83.3	83.0	73.2	81.7
MCFL Mangalore	54.3	70.4	74.2	58.3	52.0
FACT Cochin	92.0	101.7	95.4	60.1	97.7
NLC Neyveli	108.6	69.9	116.6	65.7	70.9
SPIC Tuticotin	193.0	173.0	190.9	166.4	175.9
FCI Ramagundam	11.5	12.4	16.3	8.8	11.3
Coramandal Fert.	33.1	36.3	35.9	29.2	12.9
Sub-Total (D)	**570.7**	**547.0**	**612.3**	**461.7**	**502.4**
Total Feritlizer (A+B+C+D)	**2350.2**	**2307.1**	**2561.2**	**2220.0**	**2173.3**

Contd.....

PLANT/CUSTOMER-WISE OFFTAKE OF FO/LSHS

(Qty. '000' Tonnes)

Cateogry and Plant	1989-90	1990-91	1991-92	1992-93	1993-94 (P)
1	2	3	4	5	6
		(III) Petrochemical Plants			
C. Western:					
IPCL Baroda	103.3	41.3	34.1	81.0	72.6
NOCIL Bombay	0.0	0.2	0.0	0.0	0.2
Reliance Industry, Bombay	154.2	155.4	147.7	170.5	187.5
Sub-total (C)	**257.5**	**196.9**	**181.8**	**251.5**	**260.3**
D. Southern:					
FACT Udyogmandal	0.3	54.6	7.8	0.9	4.3
TNPL Madras	40.2	48.8	43.5	47.0	49.6
Mysore Petrochemicals	-	-	-	-	-
Sub-Total (D)	**40.5**	**103.4**	**51.3**	**47.9**	**53.9**
Total : Petrochemical (C+D)	**298.0**	**300.3**	**233.1**	**299.4**	**314.2**
		(IV) Steel Plants			
B. Eastern:					
TISCO Burnapur	1.5	1.4	0.0	0.0	0.0
RSP Rourkela	85.7	66.2	82.0	28.6	58.5
DSP Durgapur	73.2	67.2	70.9	28.3	9.1
ASP Durgapur	22.5	24.1	9.9	25.6	16.1
PCBL Durgapur	-	-	-	-	-
TISCO Jamshedpur	59.8	47.2	59.0	53.7	43.8
BSP Bokaro	49.6	65.3	101.6	98.0	106.6
SAIL Patroatu	5.0	2.1	2.0	0.2	0.2
HCL Ghatsila	9.0	5.5	-	-	-
Sub-Toatal (B)	**306.3**	**279.0**	**325.4**	**234.4**	**234.3**
C. Western:					
HSL Bhillai	35.5	23.0	31.9	25.7	29.9
SAIL Bhillai	-	-		-	-
Sub-Total (C)	**35.5**	**23.0**	**31.9**	**25.7**	**29.9**
D. Southern:					
S. Viscose	-	27.7	-	-	-
Vizag Steel Plant	-	28.8	15.5	4.0	7.2
FACT ASCL	-	22.5	-	-	-
Sub-Total (D)	**-**	**79.0**	**15.5**	**4.0**	**7.2**
Total Feritlizer (B+C+D)	**341.8**	**381.0**	**372.8**	**264.1**	**271.4**
		(V) Others			
A. Northern:					
Hindalco	17.2	28.3	30.5	32.0	32.9
Sub-Total (A)	**17.2**	**28.3**	**30.5**	**32.0**	**32.9**
B. Eastern:					
NALCO Angul	-	-	22.1	15.9	8.0
IRE Chatrapur	10.3	3.5	1.6	0.0	0.0
NELCO Damanjodi	77.2	23.9	57.8	68.2	48.4
OCL Rajgangapur	13.1	11.3	10.8	18.6	13.3
TELCO Jamshedpur.	10.9	11.4	14.5	62.4	14.5
HCL Ghatsila	-	-	10.4	9.3	5.4
Sub-Total (B)	**111.5**	**50.1**	**117.2**	**174.4**	**89.6**

Contd....

PLANT/CUSTOMER-WISE OFFTAKE OF FO/LSHS

(Qty. '000' Tonnes)

Cateogry and Plant	1989-90	1990-91	1991-92	1992-93	1993-94 (P)
1	2	3	4	5	6
C. Western:					
HOC Rasayani	12.0	14.5	13.9	10.5	10.2
HOC Mandovi Pellets	-	-	-	19.7	9.3
Sub-total (C)	**12.0**	**14.5**	**13.9**	**30.2**	**19.5**
D. Southern:					
S.I.VISCOSE	-	-	28.4	24.9	23.4
INDAL BELGAUM	-	13.3	11.6	5.8	4.8
TEX MACO	-	0.0	0.0	0.0	0.0
Ballarpur Indus	-	3.4	0.0	0.0	0.0
Nelco Angul	-	12.1	-	-	-
Chem. Plast	-	0.0	21.6	30.5	34.9
HOC, Cochin	12.9	3.2	2.2	0.6	1.0
Kudramukh Iron & Ore Company	47.6	44.3	36.2	36.5	41.2
FACT ASCL	-	-	22.9	20.1	15.4
Sub-Total (D)	**60.5**	**76.3**	**122.9**	**118.4**	**120.7**
Total : Others (A+B+C+D)	**201.2**	**169.2**	**284.5**	**355.0**	**262.7**
		(VI) General Trade			
A. Northern Region	529.9	533.7	557.3	673.3	722.3
B. Eastern Region	384.2	471.1	366.4	467.1	403.5
C. Western Region	1465.0	1573.0	1581.6	1647.6	1878.7
D. Southern Region	945.0	893.0	906.1	1058.5	1030.9
Total : General Trade (A+B+C+D)	**3324.1**	**3470.8**	**3411.4**	**3811.2**	**3986.3**
GRAND TOTAL	**8820.1**	**8985.9**	**9197.9**	**9302.1**	**9104.0**
(I+II+III+IV+V+VI)					

P : Provisional Source : Industry Performance Review March, 1994.

Note: Separate figures for some of the plants like Reliance Industries, Patalganga etc. are not available.

STATE-WISE FUEL CONSUMPTION AND POWER GENERATION IN GAS TURBINE AND DIESEL POWER STATIONS IN INDIA DURING 1992-93*

State/Union Territories	Gas Stations		Diesel Station		
	Natural Gas (Million Cu. Mts.)	Generation (GWH)	Diesel Oil (K.Lts.)	Generation (GWH)	Average Oil Consumed Lts./Kwh.
1	2	3	4	5	6
NORTHERN REGION:					
Haryana	0.00	0.00	0.00	0.00	0.00
Himachal Pradesh	0.00	0.00	6.00	0.01	0.60
Jammu & Kashmir	13607.00†	35.37	0.00	0.00	0.00
Panjab	0.00	0.00	0.00	0.00	0.00
Rajasthan	0.00	0.00	0.00	0.00	0.00
Uttar Pradesh	0.00	0.00	0.00	0.00	0.00
Chandigarh	0.00	0.00	0.00	0.00	0.00
Delhi	290.80	802.35	0.00	0.00	0.00
WESTERN REGION:					
Gujarat	298.56	851.50	156.00	0.40	0.39
Madhya Pradesh	0.00	0.00	0.00	0.00	0.00
Maharashtra	883.00	2619.85	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00	0.00
D. & N. Haveli	0.00	0.00	0.00	0.00	0.00
Daman & Diu	0.00	0.00	0.00	0.00	0.00
SOUTHERN REGION:					
Andhra Pradesh	134.30	417.01	0.00	0.00	0.00
Karnataka	0.00	0.00	0.00	0.00	0.00
Kerala	0.00	0.00	0.00	0.00	0.00
Tamil Nadu	9.12	28.31	0.00	0.00	0.00
Lakshdweep	0.00	0.00	4281.00	11.50	0.37
Pondicherry	0.00	0.00	0.00	0.00	0.00
EASTERN REGION:					
Bihar	0.00	0.00	0.00	0.00	0.00
Orissa	0.00	0.00	0.00	0.00	0.00
West Bengal	16134.77†	36.52	109.00	0.28	0.39
D.V.C.	35425.00†	60.33	0.00	0.00	0.00
A. & N. Islands	0.00	0.00	17585.00	62.22	0.28
Sikkim	0.00	0.00	697.00	1.34	0.52
NORTH EASTERN REGION:					
Assam	184.45	315.47	0.00	0.00	0.00
Manipur	0.00	0.00	1219.00	3.61	0.26
Meghalaya	0.00	0.00	0.00	0.00	0.00
Negaland	0.00	0.00	0.00	0.00	0.00
Tripura	118.68	126.30	693.00	2.00	o.35
Arunachal Pradesh	0.00	0.00	4774.00	14.48	0.33
Mizoram	0.00	0.00	6006.00	17.15	0.35
Central Sector	**86861.65****	**8187.25**	**0.00**	**0.00**	**0.00**
TOTAL (ALL INDIA)	**153947.33**	**13480.26**	**35526.00**	**112.99**	**0.32**

SOURCE: Central Electricity Authority. *: Provisional
† = HSD K. Litres, **= Napntha in MTs

STATE-WISE CONSUMPTION OF FOSSIL FUELS FOR ELECTRICITY GENERATION FROM THERMAL POWER STATIONS IN INDIA DURING 1992-93

State/Union Territories	STEAM (Coal) (MT)	STEAM Lignite (MT)	STEAM Furnace Oil (KL)	STEAM Light Diesel Oil/HSD(KL)	STEAM LSHS/HHS (KL)	STATIONS Naturala Gas (Million (Cu. Mtrs.)	STATIONS Heavy Input (K. Cal. x 10^9)	STATIONS Gross Generation (GWH)	STATIONS Average Heat input (K.Cal/Kwh)
1	2	3	4	5	6	7	8	9	10
Northern Region:									
Haryana	2848468	0	8162	4218	36824	7	12508.74	3571.88	3502
Himachal Pradesh	0	0	0	0	0	0	0.00	0.00	0
Jammu & Kashmir	0	0	0	0	0	0	0.00	0.00	0
Punjab	4957983	0	5864	3348	136565	0	19316.25	7105.03	2718
Rajasthan	2961308	0	3225	1152	11974	0	12101.23	4317.62	2802
Uttar Pradesh	11514225	0	51264	39338	1882 (A)	0	38408.92	14016.52	2740
Chandigarh	0	0	0	0	0	0	0.00	0.00	0
Delhi	1493723	0	51606	1758	0	0	6545.02	1949.87	3357
Western Region :									
Gujarat	11261251	452396	31328	12238	740065	189.52 (D)	59709.58	21513.13	2775
Madhya Pradesh	10368056	0	158535	14679	2094	0	35572.04	12363.21	2878
Maharashtra	19905856	0	101995	20949 (B)	796732	495082.00 (C)	86451.93	30884.48	2799
Goa	0	0	0	0	0	0	0.00	0.00	0
D.&N. Haveli	0	0	0	0	0	0	0.00	0.00	0
Daman & Diu	0	0	0	0	0	0	0.00	0.00	0
Southern Region :									
Andhra Pradesh	7672507	0	24506	3138 (B)	0	0	25723.57	9114.28	2822
Karnataka	1938302	0	2371	92	0	0	6121.12	2713.63	2240
Kerala	0	0	0	0	0	0	0.00	0.00	0
Tamil Nadu	8591131	0	36840	3130	4094	0	30246.25	11264.65	2685
Pondicherry	0	0	0	0	0	0	0.00	0.00	0
Eastern Region:									
Bihar	2551782	0	2642	26791	10973	0	9995.66	2832.10	3529
Orissa	1407450	0	8547	3832	0	0	5817.51	1390.11	4184
West Bengal	7534398	0	9631	78427	0	0	37022.82	11505.08	3176
D.V.C.	3782076	0	114646	0	0	0	17950.93	4918.30	3649
A. & N. Islands	0	0	0	0	0	0	0.00	0.00	0
Sikkim	0	0	0	0	0	0	0.00	0.00	0
North Eastern Region :									
Assam	305178	0	45668	3865	66891	0	2499.54	752.81	3320
Manipur	0	0	0	0	0	0	0.00	0.00	0
Meghalaya	0	0	0	0	0	0	0.00	0.00	0
Nagaland	0	0	0	0	0	0	0.00	0.00	0
Tripura	0	0	0	0	0	0	0.00	0.00	0
Arunachal Pradesh	0	0	0	0	0	0	0.00	0.00	0
Mizoram	0	0	0	0	0	0	0.00	0.00	0
Central Sector	**41994813**	**10178906**	**125180**	**20702**	**25259**	**0**	**181197.23**	**70832.83**	**2558**
Total (All India)	**141088507**	**10631302**	**776246**	**237658**	**1710354**	**495271.52**	**587208.34**	**211123.53**	**2781**

(A) = Heavy Petroleum Stock (B) = Includes 680KL Superior Kerosene Oil (C) = Refinery gas in Metric Tonnes (D) = Indicates MCM of Natural Gas
Note : MT= Metric Tonnes KL = Kilo Litres Source : Central ELectricity Authority.

XII. FOREIGN TRADE

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS 1970 TO 1993

(Qty. '000' Tonnes, Value: Rs. Crores)

Year	Crude Oil		Products		Total	
	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7
			GROSS IMPORTS			
1970	11665	102.36	970	30.53	12635	132.89
1975	13600	992.02	2291	199.46	15891	1191.48
1980	15976	3038.66	6800	1788.28	22776	4826.94
1981	15528	3793.83	5697	1638.58	21225	5423.41
1982	17327	4116.89	4942	1551.37	22269	5668.26
1983	15552	3471.47	4260	1246.60	19812	4718.07
1984	14620	3525.15	6043	1850.31	20663	5375.46
1985	14811	3808.74	4292	1440.70	19103	5249.44
1986	14481	2069.65	3362	818.06	17843	2887.71
1987	17977	3105.25	3659	884.69	21636	3989.94
1988	17712	2811.28	5554	1273.36	23266	4084.64
1989	18919	3718.63	6489	2106.33	25408	5824.96
1990	20793	5929.62	7454	3541.64	28247	9471.26
1991	21813	6827.57	9746	5533.55	31559	12361.12
1992 (P)	29977	10423.44	10308	5711.66	40285	16143.60
1993 (P)	30309	10916.90	11954	7107.23	42263	18024.13
			EXPORTS			
1970	-	-	412	5.72	412	5.72
1975	-	-	166	13.83	166	13.83
1980	-	-	70	17.98	70	17.98
1981	-	-	55	15.13	55	15.13
1982	4391	1044.71	648	101.23	5039	1145.94
1983	4723	1041.87	1148	286.64	5871	1328.51
1984	6760	1598.55	1071	271.63	7831	1870.18
1985	2044	503.88	1695	482.06	3739	985.94
1986	-	-	2364	389.2	2364	389.32
1987	-	-	3455	662.07	3455	662.07
1988	-	-	2267	472.85	2267	472.85
1989	-	-	2531	654.84	2531	654.84
1990	-	-	2605	941.40	2605	941.40
1991	-	-	2477	1041.13	2477	1041.13
1992 (P)	-	-	3986	1658.33	3986	1658.33
1993 (P)	-	-	4003	1547.22	4003	1547.22
			NET IMPORTS			
1970	11665	102.36	558	24.81	12223	127.17
1975	13600	992.02	2125	185.63	15725	1117.65
1980	15976	3038.66	6730	1770.30	22706	4808.96
1981	15528	3793.83	5642	1623.45	21170	5417.28
1982	12936	3072.18	4294	1450.14	17230	4522.32
1983	10829	2429.60	3112	959.96	13941	3389.56
1984	7860	1926.60	4972	1578.68	12832	3505.28
1985	12767	3304.86	2597	958.64	15364	4263.50
1986	14481	2069.65	998	428.74	15479	2498.39
1987	17977	3105.25	204	222.62	18181	3327.87
1988	17712	2811.28	3287	1273.36	20999	3611.79
1989	18919	3718.63	3958	1451.49	22877	5170.12
1990	20793	5929.62	4849	2600.24	25642	8529.86
1991	21813	6827.57	7269	4492.42	29082	11319.99
1992 (P)	29977	10432.44	6322	4052.83	36299	14485.27
1993 (P)	30309	10916.90	7951	5560.01	38260	16476.91

(P) = Provisional

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS
1970-71 TO 1993-94

(Qty. '000' Tonnes, Value: Rs. Crores)

Year	Crude Oil		Products		Total	
	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7
			GROSS IMPORTS			
1970-71	11683	106.72	1084	29.91	12767	136.63
1975-76	13624	1051.76	2218	204.34	15842	1256.10
1980-81	16248	3348.97	7289	1917.52	23537	5266.49
1981-82	15298	3736.38	4884	1453.16	20182	5189.54
1982-83	16949	4043.74	5028	1553.94	21977	5597.68
1983-84	15967	3541.05	4328	1270.75	20295	4811.80
1984-85	13642	3430.34	6092	1914.91	19734	5345.25
1985-86	15144	3686.80	3865	1273.60	19009	4960.40
1986-87	15476	2120.19	3047	652.69	18523	2772.88
1987-88	17734	2986.31	4151	1024.32	21883	4010.63
1988-89	17815	2861.08	6495	1559.84	24310	4420.92
1989-90	19490	4089.35	6564	2254.71	26054	6344.06
1990-91	20699	6118.42	8660	4660.21	29359	10778.63
1991-92	23994	7820.05	9445	5218.27	33439	13038.32
1992-93 (P)	29247	10685.86	11283	6359.60	40530	17045.46
1993-94 (P)	30822	10688.52	12076	7041.93	42898	17729.95
			EXPORTS			
1970-71	-	-	332	4.67	332	4.67
1975-76	-	-	170	13.96	170	13.96
1980-81	-	-	36	8.41	36	8.41
1981-82	838	196.23	55	15.13	893	211.36
1982-83	4552	1063.37	795	133.79	5347	1197.16
1983-84	5522	1231.10	1472	356.96	6994	1588.06
1984-85	6478	1563.16	933	255.03	7411	1818.19
1985-86	528	135.15	1963	509.58	2491	644.73
1986-87	-	-	2491	411.23	2491	411.23
1987-88	-	-	3412	648.75	3412	648.75
1988-89	-	-	2295	523.63	2295	523.63
1989-90	-	-	2593	695.56	2593	695.56
1990-91	-	-	2648	1003.94	2648	1003.92
1991-92	-	-	2936	1214.65	2936	1214.65
1992-93 (P)	-	-	3714	1604.23	3714	1604.23
1993-94 (P)	-	-	4035	1507.44	4035	1507.44
			NET IMPORTS			
1970-71	11683	106.72	752	25.24	12435	131.96
1975-76	13624	1051.76	2048	190.38	15672	1242.14
1980-81	16248	3348.97	7253	1909.11	23501	5258.08
1981-82	14460	3540-15	4829	1438.03	19289	4978.18
1982-83	12397	2980-37	4233	1420.15	16630	4400.52
1983-84	10445	2309.95	2856	913.79	13301	3223.74
1984-85	7164	1867.18	5159	1659.88	12323	3527.06
1985-86	14616	3551.65	1902	764.02	16518	4315.67
1986-87	15476	2120.19	556	241.47	16032	2361.66
1987-88	17732	2986.31	739	375.57	18471	3361.88
1988-89	17815	2861.08	4200	1036.21	22015	3897.29
1989-90	19490	4089.35	3971	1559.15	23461	5648.50
1990-91	20699	6118.42	6012	3656.29	26711	9774.71
1991-92	23994	7820.05	6509	4003.62	30503	11823.67
1992-93 (P)	29247	10685.86	7569	4755.37	36816	15441.23
1993-94 (P)	30822	10688.52	8041	5533.99	38863	16222.51

(P) = Provisional

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS
1987 TO 1993

(Qty. '000' Tonnes, Value : Rs. Crores)

ITEM	1987		1988		1989		1990		1991		1992 (P)		1993 (P)	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
GROSS IMPORTS														
A. Crude Oil	17977	3105.25	17712	2811.28	18919	3718.63	20793	5929.62	21813	6827.57	29977	10432.44	30309	10916.90
B. Petroleum Products														
I. Light Distillates	**116**	**35.63**	**215**	**64.10**	**294**	**91.80**	**346**	**147.67**	**265**	**185.45**	**329**	**236.56**	**360**	**217.98**
1. Naphtha	16	3.89	-	-	-	-	-	-	-	-	-	-	-	-
2. Others	100	31.74	215	64.10	294	91.80	346	147.67	265	185.45	329	236.56	360	217.98
II. Middle Distillates	**3346**	**765.77**	**4551**	**1000.41**	**5854**	**1818.79**	**6826**	**3186.89**	**9039**	**4871.63**	**9592**	**4989.73**	**11399**	**6597.03**
1. ATF	26	6.23	78	17.78	213	69.19	94	31.09	24	10.10	-	-	-	-
2. SKO	2215	512.00	2407	552.80	2685	870.57	2953	1549.02	3495	1993.84	3346	1831.63	3792	2355.68
3. HSDO	1101	245.81	2066	429.83	2956	879.03	3779	1606.78	5520	2867.69	6246	3158.10	7607	4241.35
III. Heavy Ends	**197**	**83.29**	**788**	**208.85**	**341**	**195.74**	**282**	**207.08**	**418**	**476.47**	**387**	**484.87**	**195**	**292.22**
1. FO	-	-	465	52.19	-	-	-	-	-	-	-	-	-	-
2. Lubes	184	70.81	303	134.51	321	174.57	262	178.56	371	424.93	358	416.24	166	224.76
3. Waxes	13	12.48	20	22.15	20	21.17	20	28.52	21	42.21	29	68.63	29	67.46
4. Others	-	-	-	-	-	-	-	-	26	9.33	-	-	-	-
Total (B)	**3659**	**884.69**	**5554**	**1273.36**	**6489**	**2106.33**	**7454**	**3541.64**	**9722**	**5533.55**	**10308**	**5711.16**	**11954**	**7107.23**
Grand Total (A+B)	**21636**	**3989.94**	**23266**	**4084.64**	**25408**	**5824.96**	**28247**	**9471.26**	**31535**	**12361.12**	**40285**	**16143.60**	**42263**	**18024.13**
EXPORTS @														
A. Crude Oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Petroleum Products														
I. Light Distillates	**2637**	**532.11**	**2024**	**410.78**	**2384**	**627.07**	**2247**	**840.87**	**1906**	**828.47**	**2562**	**1239.59**	**2329**	**1051.07**
1. Naphtha	2619	527.08	2002	403.87	2014	560.14	1608	617.27	1234	549.66	1700	836.52	1465	674.01
2. Others	18	5.03	22	6.91	310	66.93	639	223.60	672	278.81	862	403.07	864	377.06
II. Middle Distillates	**172**	**44.91**	**193**	**55.86**	**60**	**17.28**	**85**	**35.44**	**221**	**137.58**	**264**	**166.46**	**291**	**198.90**
1. HSD/LDO	88	22.42	99	27.67	28	8.16	43	16.93	124	74.26	144	88.76	155	103.07
2. Others	84	22.49	94	28.19	32	9.12	42	18.51	97	63.32	120	77.70	136	95.83
III. Heavy Ends	**646**	**85.05**	**50**	**6.21**	**87**	**10.49**	**273**	**65.09**	**350**	**75.08**	**1160**	**252.28**	**1383**	**297.25**
1. FO	644	84.02	49	5.43	84	9.52	272	64.82	347	73.08	1154	249.20	1367	292.89
2. Others	2	1.03	1	0.78	3	0.97	1	0.27	3	2.00	6	3.08	16	4.36
Total (B)	**3455**	**662.07**	**2267**	**472.85**	**2531**	**654.84**	**2605**	**941.40**	**2477**	**1041.13**	**3986**	**1658.33**	**4003**	**1547.22**
Grand Total (A+B)	**3455**	**662.07**	**2267**	**472.85**	**2531**	**654.84**	**2605**	**941.40**	**2477**	**1041.13**	**3986**	**1658.33**	**4003**	**1547.22**
NET IMPORTS														
A. Crude Oil	17977	3105.25	17712	2811.28	18919	3718.63	20793	5929.62	21813	6827.57	29977	10432.44	30309	10916.90
B. Petroleum Products	204	222.62	3287	800.51	3958	1451.49	4849	2600.24	7245	4492.42	6322	4052.83	7951	5560.01
Total (Net Imports)	**18181**	**3327.87**	**20999**	**3611.79**	**22877**	**5170.12**	**25642**	**8529.86**	**29058**	**11319.99**	**36299**	**14485.27**	**38260**	**16476.91**

@ Includes supplies of POL Products to Nepal w.e.f 1.4.83 onwards. P= Provisional.

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS DURING 1989-90 TO APRIL-SEPTEMER 1995

(Qty : '000' Tonnes)
(Value : Rs. Crores)

	1989-90		1990-91		1991-92		1992-93		1993-94*		1994-95 (April-Sep.*)	
ITEM	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7	8	9	10	11	12	13
					GROSS IMPORTS @							
A. CRUDE OIL	19490	4089.35	20699	6118.42	23994	7820.05	29247	10685.86	30822	10688.52	13613	5029.65
B. Pol. Products												
I. Light Distillates	**310**	**103.34**	**334**	**164.26**	**262**	**200.37**	**336**	**225.86**	**414**	**241.77**	**287**	**168.37**
1. Naphtha	-	-	-	-	-	-	-	-	-	-	-	-
2. LPG	302	98.07	329	160.26	215	148.38	328	218.33	410	237.20	285	165.92
3. Others	8	5.27	5	4.00	47	51.99	8	7.53	4	4.57	2	2.45
II. Middle Distillates	**5912**	**1941.18**	**8047**	**4253.60**	**8720**	**4485.25**	**10622**	**5700.31**	**11501**	**6545.77**	**5821**	**2970.36**
1. ATF	268	87.98	27	7.98	24	10.10	-	-	-	-	-	
2. SKO	2596	888.78	3340	1963.37	3367	1824.50	3463	2008.97	3946	2370.80	1876	1013.72
3. HSD	3048	964.42	4680	2282.25	5329	2650.65	7159	3691.34	7555	4174.97	3945	1956.64
III. Heavy Ends	**342**	**210.19**	**279**	**242.35**	**463**	**532.65**	**325**	**433.43**	**161**	**253.89**	**187**	**145.93**
1. Furnance Oil	-	-	-	-	-	-	-	-	-	-	95	28.03
2. Lubes	322	183.24	256	207.91	412	467.75	296	363.05	132	187.66	54	83.86
3. Waxes	20	26.95	23	34.44	25	55.56	29	70.38	29	66.23	10	19.77
4. RPC	-	-	-	-	26	9.34	-	-	-	-	-	-
5. Others	-	-	-	-	-	-	-	-	-	-	28	14.27
Total (B)	**6564**	**2254.71**	**8660**	**4660.21**	**9445**	**5218.27**	**11283**	**6359.60**	**12076**	**7041.43**	**6295**	**3284.66**
Grand Total(A+B)	**26054**	**6344.08**	**29359**	**10778.63**	**33439**	**13038.32**	**40530**	**17045.46**	**42898**	**17729.95**	**19908**	**8314.31**
					EXPORTS @@							
A. CRUDE OIL	-	-	-	-	-	-	-	-	-	-	-	-
B. Pol. Products												
I. Light Distillates	**2378**	**668.41**	**2124**	**847.90**	**2117**	**944.18**	**2435**	**1203.67**	**2437**	**1016.73**	**1524**	**693.06**
1. Naphtha	1932	561.91	1520	621.87	1423	644.30	1518	769.31	1625	683.20	1177	543.80
2. LPG	(.....Included in others .....)								9	7.68	4	3.59
3. Others	446	106.50	604	226.03	694	299.88	917	434.36	803	325.85	343	145.67
II. Middle Distillates	**-**	**-**	**161**	**65.96**	**232**	**161.02**	**275**	**167.69**	**293**	**210.11**	**142**	**98.24**
1. HSD/LDO	-	-	82	31.54	125	86.00	146	87.95	155	107.38	76	53.03
2. Others	-	-	79	34.42	107	75.02	129	79.74	138	102.73	66	45.21
III. Heavy Ends	**215**	**27.15**	**363**	**90.06**	**587**	**109.45**	**1009**	**234.92**	**1305**	**280.60**	**13**	**6.25**
1. FO/LSHS	215	27.15	357	88.50	583	106.93	1003	231.84	1288	274.81	11	4.20
2. Others	-	-	6	1.56	4	2.52	6	3.08	17	5.79	2	2.05
Total (B)	**2593**	**695.56**	**2648**	**1003.92**	**2936**	**1214.65**	**3719**	**1606.28**	**4035**	**1507.44**	**1679**	**797.55**
Grand Total (A+B)	**2593**	**695.56**	**2648**	**1003.92**	**2936**	**1214.65**	**3719**	**1606.28**	**4035**	**1507.44**	**1679**	**797.55**
					NET IMPORTS							
A. CRUDE OIL	19490	4089.35	20699	6118.42	23994	7820.05	29247	10685.86	30822	10688.52	13613	5029.65
B. POL. PRODUCTS	3971	1559.15	6012	3656.29	6509	4003.62	7564	4753.32	8041	5533.99	4616	2487.11
GRAND TOTAL	**23461**	**5648.50**	**26711**	**9774.71**	**30503**	**11823.67**	**36811**	**15439.18**	**38863**	**16222.51**	**18229**	**7516.76**

* : Provisional. @ : Includes NOC Imports. @@ : Includes supplies of POL Products to Nepal upto August 1994

TREND IN INDIA'S OVERALL TRADE BALANCE AND TRADE BALANCE WITH OPEC COUNTRIES

(RS/CRORES)

Year	India's Overall Trade					India's Trade with OPEC Countries					% of India's Trade with OPEC to India's total trade	
	Exports	Imports	Balance of Trade	% Variation Over Preceding year		Exports	Imports	Balance of Trade	% Variation Over preceding year			
				Exports	Imports				Exports	Imports	Exports	Imports
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
1970-71	1535	1634	-99	8.6	3.3	99	126	-27	-	-	6.4	7.7
1971-72	1608	1825	-217	4.8	11.7	76	182	-106	-23.2	44.4	4.7	10.0
1972-73	1971	1867	104	22.6	2.3	94	200	-106	23.7	9.9	4.8	10.7
1973-74	2523	2955	-432	28.0	58.3	187	532	-345	98.9	166.0	7.4	18.0
1974-75	3329	4519	-1190	32.0	52.9	467	1100	-633	149.7	106.8	14.0	24.3
1975-76	4036	5265	-1229	21.2	16.5	633	1166	533	35.5	6.0	15.7	22.1
1976-77	5142	5074	+68	27.4	-3.6	707	1296	589	11.7	11.1	13.8	25.5
1977-78	5408	6020	-612	5.2	18.6	674	1340	666	-4.7	3.4	12.5	22.3
1978-79	5726	6811	-1085	5.9	13.1	733	1382	649	8.8	3.1	12.8	20.3
1979-80	6418	9143	-2725	12.1	34.2	717	2410	1693	-2.2	74.4	11.2	26.4
1980-81	6711	12549	-5838	4.6	37.3	745	3488	-2743	3.9	44.7	11.1	27.8
1981-82	7806	13608	-5802	16.3	8.4	940	3770	-2830	26.2	8.1	12.0	27.6
1982-83	8803	14293	-5490	12.8	5.0	820	3899	-3079	-12.8	3.4	9.8	27.2
1983-84	9771	15831	-6060	11.0	10.8	882	3225	-2343	7.6	17.3	9.0	20.4
1984-85	11744	17134	-5390	20.2	8.2	944	3326	2282	7.0	3.1	8.0	19.0
1985-86	10895	19658	-8763	-7.2	14.7	835	3420	-2585	-11.5	2.8	7.7	17.8
1986-87	12452	20096	-7644	14.3	2.2	831	1792	-961	-0.5	-47.6	6.7	8.9
1987-88	15674	22244	-6570	25.9	10.7	980	3319	-2339	17.9	85.2	6.3	14.9
1988-89	20232	28235	-8003	29.1	26.9	1207	3681	-2474	23.2	10.9	6.0	13.0
1989-90	27658	35328	7670	36.7	25.4	1841	5074	-3233	52.5	37.8	6.7	14.3
1990-91	32553	43198	-10645	17.7	22.0	1831	7041	-5210	-0.5	38.8	5.6	16.3
1991-92	44041	47851	-3810	35.3	10.8	3852	9499	-5647	110.4	34.9	8.7	19.9
1992-93	53688	63375	-9687	21.9	32.4	2850	13690	-10840	74.0	44.1	5.3	21.6
1993-94(P)	69547	72806	-3259	29.5	14.9	3861	16363	-12502	35.5	19.5	5.6	22.5

(P) = Provisional Source : Ministry of Commerce/Economic Survey.

INDIA'S FOREIGN EXCHANGE RESERVES (1970-71 TO 1993-94)

Year	S.D.R.S. Million	GOLD* (Rs. Crores)	Foreign Exchange (Rs. Crores)
(1)	(2)	(3)	(4)
1970-71	148.9	182.53	438.12
1975-76	202.8	182.53	1491.70
1976.77	187.4	187.80	2862.99
1977-78	161.6	193.09	4499.75
1978-79	364.9	219.50	5219.86
1979-80	529.1	224.71	5163.66
1980-81	490.5	225.58	4822.12
1981-82	425.1	225.58	3354.47
1982-83	270.2	225.58	4265.26
1983-84	216.4	225.58	5497.9
1984-85	146.5	245.76	6818.78
1985-86	115.1	274.28	7384.35
1986-87	139.4	274.28	7645.17
1987-88	69.7	274.28	7287.14
1988-89	79.5	274.28	6604.60
1989-90	81.9	280.70	5787.20
1990-91	75.9	6828.30	4388.10
1991-92	65.7	9038.0	14578.0
1992-93	12.7	10548.80	20140.5
1993-94	76.0	127940.00	47287.0

SOURCE : Economic Survey/M.O. Finance Reserve Bank of India Bulletin P= Provisional

Gold is valued at Rs. 53.58 per 10 grams upto May 1966 and at Rs. 84.39 per 10 grams upto September 1990 and closer to international makrket price w.e.f. October 17, 1990.

INDIA'S IMPORTS AS A PROPORTION TO OVERALL EXPORTS FROM THE COUNTRY 1970-71 TO 1993-94.

(Rs. Crores)

YEAR	POL Imports		India's Total Exports		Gross POL	Net POL
	Gross	Net	Gross	Net of POL Exports	Imports as % age of total Gross Exports	Imports as % age of total Net Exports
1	2	3	4	5	6	7
1970-71	137	132	1535	1530	8.9	8.6
1975-76	1256	1242	4036	4022	31.1	30.9
1976-77	1424	1417	5142	5135	27.7	27.6
1977-78	1552	1546	5408	5393	28.7	28.6
1978-79	1681	1677	5726	5722	29.4	29.3
1979-80	3270	3246	6418	6394	51.0	50.8
1980-81	5266	5258	6711	6703	78.5	78.4
1981-82	5191	4978	7806	7594	66.5	65.6
1982-83	5598	4401	8803	7606	63.6	65.6
1983-84	4812	3224	9771	8183	49.2	39.4
1984-85	5345	3527	11744	9926	45.5	35.5
1985-86	4961	4316	10895	10250	45.5	42.1
1986-87	2773	2362	12452	12041	22.3	19.6
1987-88	4011	3362	15674	15025	25.6	22.4
1988.89	4421	3897	20232	19708	21.9	19.8
1989-90	6344	5648	27681	26962	22.9	20.9
1990-91	10779	9775	32553	31549	33.1	31.0
1991-92	13038	11824	44041	42826	29.6	27.6
1992-93 (P)	17046	15439	53688	52062	31.8	29.6
1993-94 (P)	17730	16222	69547	68040	25.5	23.8

Source : For col. 4: Ministry of Commerce, DGCI & S, Calcutta. (P) = Provisional

XIII. NO. OF PERSONS EMPLOYED

NO. OF PERSONS EMPLOYED IN THE PETROLEUM INDUSTRY IN INDIA

(Number)

CATEGORY	1980	1985	1989	1990	1991	1992	1993	1994
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. Exploration & Production	31413	48700	55656	56477	58187	58627	58864	58590
2. Refining	15334	23074	24188	25751	26479	29656	23386	22589
3. Marketing	19920	27717	34615	36261	33074	35353	38414	39255
4. Pipelines	2215	2901	3019	3189	3579	3711	3312	3654
5. R & D	-	-	-	-	-	-	3035	3048
6. Others	3415	4480	4362	8268	8359	8446	14340	14359
Grand Total	**72297**	**106872**	**121840**	**129946**	**129678**	**135793**	**141351**	**141495**

CATEGORY-WISE NO. OF PERSONS EMPLOYED IN THE PETROLEUM INDUSTRY IN INIDA.

(Number)

CATEGORY	1980	1985	1989	1990	1991	1992	1993	1994
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. Executive/ Managerial	9311	21108	28588	31178	32446	35848	39434	40479
2. Supervisory	6512	10432	11067	12229	12744	11713	9623	9593
3. Clerical	12403	15878	16407	17254	15993	17511	17633	16388
4. Workmen	44057	59313	63617	65475	63795	65479	66201	66656
5. TOTAL	72283	106731	119679	126136	124978	130551	132891	133116
6. Expatriates/ Foreign Experts/ on Contract	14	141	2161	3810	4700	5242	8460	8379
GRAND TOTAL	**72297**	**106872**	**121840**	**129946**	**129678**	**135793**	**141351**	**141495**

Note : Staff Employed as on 1st April of each year.

CATEGORY-WISE NO. OF PERSONS EMPLOYED IN VARIOUS SECTORS OF PETROLEUM INDUSTRY IN INDIA

(Number)

CATEGORY	1980	1985	1989	1990	1991	1992	1993	1994
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
EXPLORATION AND PRODUCTION								
1. Executive/ Managerial	3394	10183	14432	15864	17473	18944	17447	17327
2. Supervisory	1994	4537	5092	5594	6040	1992	4794	4948
3. Clerical	3795	5438	4938	4749	4728	4689	4625	4281
4. Workmen	22216	28401	29423	28712	28610	28628	31156	30941
5. TOTAL	31399	48559	53885	54919	56851	57253	58022	57497
6. Expatriates/ Foreign Experts/ Contract	14	141	1771	1558	1336	1374	842	1093
GRAND TOTAL	**31413**	**48700**	**55656**	**56477**	**58187**	**58627**	**58864**	**58590**
PETROLEUM REFINING @								
1. Executive/ Managerial	2055	3878	4602	5009	5287	6261	4527	4437
2. Supervisory	1050	1648	1071	1216	1471	1653	1432	889
3. Clerical	1791	2728	3265	3427	3256	4514	2773	1938
4. Workmen	10438	14820	14942	14995	14856	15649	12012	12280
5. TOTAL	15334	23074	23880	24647	24870	28077	20744	19544
6. Expatriates/ Foreign Experts/ Contract	-	-	308	1104	1609	1579	2642	3045
GRAND TOTAL	**15334**	**23074**	**24188**	**25751**	**26479**	**29656**	**23386**	**22589**
MARKETING								
1. Executive/ Managerial	3318	6047	8320	8586	7884	8644	8526	9327
2. Supervisory	1591	1441	2163	2222	2041	1851	2061	2210
3. Clerical	5820	6533	7106	7030	5746	5984	6085	6214
4. Workmen	9191	13696	16964	17302	15716	16644	16912	17753
5. TOTAL	19920	27717	34553	35140	31387	33123	33584	35504
6. Expatriates/ Foreign Experts/ Contract	-	-	62	1121	1687	2230	4830	3751
GRAND TOTAL	**19920**	**27717**	**34615**	**36261**	**33074**	**35353**	**38414**	**39255**

@ = Includes IOC's Head Office, Regional office.

XIV. WHOLESALE AVERAGE PRICE INDICES OF PETROLEUM PRODUCTS, ENERGY & ALL COMMODITIES IN INDIA

(1981-82 = 100)

Year	Petroleum	Petroleum Products									Energy Items				All
	Crude & Natural Gas	Petrol/ Mogas	Kero sene	ATF	H.S.D.	L.DO.	FO	Lubri cants	Naph tha	Bitu men	Coal Mining	Coke	Lig nite	Elec- tricity	Commo- dities
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1982-83	103.1	102.4	101.1	104.1	103.3	102.9	102.9	102.1	101.2	103.1	115.9	127.0	116.5	111.5	104.9
1983-84	99.6	103.3	108.6	109.2	108.7	107.2	104.9	103.2	108.2	101.7	128.2	137.6	142.1	120.5	112.8
1984-85	103.0	104.5	109.4	110.3	108.5	109.1	106.1	104.3	110.2	102.2	155.1	153.2	180.8	124.8	120.1
1985-86	103.0	120.6	121.8	128.5	117.0	124.5	121.3	120.9	127.5	116.8	159.1	155.0	189.0	139.6	125.4
1986-87	99.3	127.0	129.9	139.7	120.2	124.5	121.3	124.2	135.1	116.8	174.5	162.2	193.2	153.5	132.7
1987-88	93.5	130.6	129.9	142.6	122.1	124.5	121.4	123.9	123.7	116.8	183.0	162.2	193.1	166.7	143.5
1988-89	89.1	145.2	129.9	139.7	119.8	124.5	121.6	148.3	130.1	117.8	212.3	162.2	197.3	176.6	154.2
1989-90	91.8	146.0	129.9	140.9	120.0	124.9	121.5	152.2	131.0	117.9	231.8	162.2	218.9	187.7	165.7
1990-91	99.6	187.3	144.3	193.7	155.2	139.1	134.7	182.1	133.3	125.8	232.6	162.2	242.9	200.9	182.7
1991-92	101.0	238.8	150.8	247.3	173.0	166.1	160.5	226.5	145.6	146.5	249.9	177.4	255.2	222.8	207.8
1992-93	102.7	263.9	146.7	278.6	195.9	197.0	188.5	275.5	178.3	172.8	301.2	221.6	287.8	249.0	228.7
1993-94	120.7	275.9	146.7	290.5	216.4	223.3	207.8	330.0	201.9	190.7	346.4	252.6	287.8	318.3	247.8
Sep. 94	131.0	293.5	146.7	290.5	235.2	243.1	206.8	331.5	201.9	190.7	367.8	267.2	312.1	349.1	273.2

Source : Ministry of Industry, Office of the Economic Adviser.

PRICES OF INDIGENOUS ONSHORE AND OFFSHORE CRUDE OIL IN INDIA.
34° API GRAVITY

Item	Unit	Price effective from												
		14.7.75	8.9.76	16.12.77	1.4.81	11.7.81	15.2.83	1.4.84	1.3.87	1.4.87	1.2.89	1.4.90	16.9.92	1.4.93*
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
						(i) Onshore Crude Oil								
1. Base Price (as fixed by the Govt)	Rs/Bbl	36.64*	33.30*	27.60	27.60	138.54	138.54	138.54	138.54	138.54	138.54	138.54	204.34	236.23
2. Conversion factor	Bbl./MT	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37
3. Base Price	Rs/MT**	270.04	**245.42	203.41	203.41	203.41	1021.00	1021.00	1021.00	1021.00	1021.00	1021.00	1506.00	1741.00
4. Oil Development Cess	Rs/Mt	@	60.00	60.00	60.00	100.00	300.00	300.00@@	600.00	600.00	900.00	900.00	900.00	900.00
5. Royalty	Rs/MT	@	@	42.00	61.00	61.00#	61.00#	192.00	192.00	314.00	314.00	481.00	481.00	528.00
6. Total Price (including cess & royalty)	Rs/MT	270.04	305.41	305.41	324.41	1182.00#	1382.00##	1513.00	1813.00	1935.00	2235.00	2402.00	2887.00	3169.00
						(ii) Ofshore Crude Oil								
1. Base Price as fixed by the Govt.	Rs/Bbl			45.00	45.00	138.54	138.54	138.54	138.54	138.54	138.54	138.54	204.34	236.23
2. Conversion factor	Bbl/MT			7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37
3. Base Price	Rs/MT			331.65	331.65	1021.00	1021.00	1021.00	1021.00	1021.00	1021.00	1021.00	1506.00	1741.00
4. Oil Development Cess	Rs/MT			60.00	60.00	100.00	300.00	300.00	600.00	600.00	900.00	900.00	900.00	900.00
5. Royalty	Rs/MT			42.00	61.00	61.00	61.00	192.00	192.00	314.00	314.00	481.00	481.00	528.00
6. Total Price	Rs/MT			433.65	452.65	1182.00##	1382.00##	1513.00	1813.00	1935.00	2235.00	2402.00	2887.00	3169.00

* Inclusive of royalty @ Rs. 15/MT and Oil Development Cess @ Rs. 60/MT
** Inclusive of royalty @ Rs. 42/MT
Shows price fixed by the Government inclusive of royalty and Oil Development Cess.
@ : Included in the base price.
@@ : Fixed retrospectively w.e.f. 1.4.1984.

Note : Upto 31.3.84. Applicable sales tax on ex-central tank farm price of crude oil of 34° API was borne by the producer.
The applicable Sales Tax on the increase of Rs. 131/MT and Rs. 122/MT in the rate of royalty w.e.f. 1.4.84 and 1.4.87 respectively and increase of cess of Rs. 300/MT w.e.f. 1.3.87 and Rs. 300/MT w.e.f. 1.2.89 is being borne by pool account.

* Provisional

DEVELOPMENT OF BASIC CEILING SELLING PRICES (EX-STORAGE POINT) OF PETROLEUM PRODUCTS SINCE 17.8.79

(Rs./ Selling unit)

Product	Selling Unit	Prior to 17.8 1979	Effective Date 17.8 1979	8.6 1980	13.1 1981	11.7 1981	15.2 1983	17.3 1985	1.2 1986	6.2 1986	20.3 1987	9.1 1988	1.3 1988	20.3 1990	15.10 1990	25.7 1991	16.9 1992	2.2 1994	1.3 1994 **
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ATF (Domestic)	KL	1377	2117	3217	3537	3872	4122	4740	5240	5240	5240	5240	5240	6560	8200	9840	10838	10838	9852
MS 83/87	"	3538	3888	4538	4908	5438	5438@	6369	6869	6769	6769	7694	7845	8944	11180	13416	14413	15413	12844
MS 93	"	3693	4043	4693	5063	5593	5593	6421	6424	6824	6824	7749	7901	10944	13680	16416	17413	18413	15344
HSDO	"	1209	1377	1960	2330	2650	2850	3078 #	3188	3116	3116	3096	3096	3634	4542	4542	5539	6289	5717
SKO (Domestic)	"	1194	1364	1295	1395	1545	1545	1822 #	2047	1957	1957	1957	1957	1957	2446	2202	2202	2202	2001
LDO	"	887	1207	1857	2227	2506	2656	3054	3054	3054	3054	3054	3054	3054	3817	4199	5396	6146	5588
FURNACE OIL																			
For non-ferts	"	889	1209	1859	2189	2424	2524	2903	2903	2903	2903	2903	2903	2903	3629	3992	4989	4989	4535
For ferts*	"	829	829	829	1039	1274	1274+	1320	1320	1320	1320	1320	1320	1320	1650	1815	2812	2812	2812
LSHS																			
For ferts*	MT													1349	1686	1854	2852	2852	2852
For non-ferts*	"													2769	3461	3807	4804	4804	4804
BITUMEN ST. GR.																			
Bulk	MT	676	1176	1826	2061	2323	2196	2575	2575	2575	2575	2575	2575	2575	3219	3540	4538	4538	4125
Packed	"	961	1461	2111	2346	2608	2696	3100	3100	3100	3100	3100	3100	3100	3875	4262	5259	5259	4781
NAPHTHA																			
For non-ferts*	MT	1012	2482	2692	2792	2792	2792	3211	3211	3211	3211	3211	3211	3211	4014	4415	6076	6076	6076
For ferts*	"	596	596	1071	1371	1723	1723	1982	1982	1982	1982	1982	1982	1982	2478	2726	3723	3723	3723
LPG (PACKED)																			
Domestic	MT	1633	1966	1966	2301	2634	2634	3029	3729	3449	3449	3449	3449	3449	3449	4139	5136	5840	5309
Non-Dom.Ess	"	1927	2260	2260	2595	2928	2928	3978	3978	3978	5001	5001	5001	5001	6251	6877	12588	12588	11443
Non-Dom. Non-Ess	"	-	-	-	-	-	-	5128	5128	5128	6151	6151	6151	6151	7689	8458	14169	14169	12881

Note : (1) Prices have been rounded to nearest Rupee.

(2) w.e.f. 1.10.1986 the product JBO, SBP 64/69 Hexane, MTO-140/205, MTO Laws have been kept outside the pricing scheme. LSHS has been brought under the pricing scheme.

** :w.e.f. 1.3.1994, C.E. duty on all petroleum products would be on advolorem basis with only two rates- Motor Spirit and Coal Tar would attract 20% duty. All other petroleum products would be charged at central excise duty at 10%.

* = Prices are exclusive of Customs and Excise Duties.

@ = With the introduction of MS 87, the price of the product was increased to Rs. 5538/KL w.e.f. 1.9.1983.

= Effective 26.3.1985. + w.e.f. 1.9.83 the price was reduced to Rs. 1148/KL.

PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS AS ON 1.4.1994

(Rs/KL)

	DELHI	CALCUTTA	BOMBAY	MADRAS	KANPUR
MOTOR SPIRIT 87 ON					
EX-MI PRICE	15413.21	15413.21	15413.21	15413.21	15413.21
PIPELINE CHARGES/B. TAX	-	-	-	-	-
FRT DIFF/SHRINKAGE/					
RLY. FREIGHT (INCL. OF SDG/SHU)	94.57	29.87	-	-	277.96
STATE SURCHARGE	25.00	262.54	155.45	560.68	25.00
OCTROI/T. TAX	-	20.00	211.12	-	-
TOOL TAX/GOODS TAX	-	2.88	-	-	-
R.P.O. CHARGES	11.36	11.36	11.36	11.36	11.36
R.P.O. SURCHARGE	60.00	60.00	60.00	60.00	60.00
DELIVERY CAHRGE FDZ	-	-	-	-	-
SUB TOTAL	15606.14	15799.86	15851.14	16045.25	15787.53
CST/ENTRY TAX	-	-	-	-	-
SHRINKAGE	-	-	-	-	-
SALES TAX	1092.43	1579.99	3328.79	3207.05	1578.75
SURCHARGE ON S.T.	-	-	-	481.36	-
ADDL. TAX	-	237.00	-	160.45	-
DEALERS COMM.	80.00	80.00	80.00	80.00	80.00
TOTAL Rs./KL	16778.56	17696.85	19259.88	19976.11	17446.28
R.S.P. Rs/LTR.	16.78	17.70	19.26	19.98	17.45
HIGH SPEED DIESEL OIL					
EX-MI PRICE	6289.01	6289.01	6289.01	6289.01	6289.01
PIPELINE CH/B.Tax	-	-	-	-	-
FRT. DIFFERENTIAL/RLY. FRIEGHT	80.13	21.93	-	-	227.75
STATE SURCHARGE	25.00	88.88	125.92	189.81	5.00
OCTROI/T.TAX	-	-	-	-	-
GOODS TAX	-	20.00	-	-	-
R.P.O. CHARGES	7.27	7.27	7.27	7.27	7.27
R.P.O. SURCHARGES	20.00	20.00	20.00	20.00	20.00
DELIVERY CHARGE FDZ	-	2.88	-	-	-
SUBTOTAL	6421.41	6449.97	6442.20	6506.09	6549.03
CST/ENTRY TAX	-	-	-	-	-
SALES TAX	513.71	774.00	1352.86	1090.97	785.88
SC ON ST./ADDL. TAX	-	-	-	156.15	-
DEALERS COMM.	40.00	40.00	40.00	40.00	40.00
SHRINKAGE/ADDL.TAX	-	-	-	52.05	-
RS./KL	6975.12	7263.97	7835.06	7795.26	7374.91
R.S.P. RS./LTR	6.98	7.27	7.84	7.80	7.38

PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS AS ON 1.4.1994

(RS ./KL)

	DELHI	CALCUTTA	BOMBAY	MADRAS	KANPUR
SUPERIOR KEROSENE OIL					
EX. DEPOT RATE	2290.93	2265.43	2265.69	2293.55	2388.59
RLY. FRT./FRT. DIFF.	-	-	-	-	-
EX-MI. PRICE	-	-	-	-	-
SALES TAX/CST	68.73	113.27	0.00	68.81	238.86
STATE SURCHARGE ON ST	-	-	-	10.32	-
OCTROI	-	-	-	-	-
ADDL SURCHARGE ON ST/ADDL. TAX	-	-	-	3.44	-
SUBTOTAL	2359.66	2378.70	2265.69	2376.12	2627.45
ENTRY TAX/TOLL TAX/SSBT.	-	-	-	-	-
TRANSPORTATION CHARGE	95.57	60.00	100.00	33.00	50.00
WHOLESALERS/DEALERS COMM.	14.50	52.70	52.70	8.00	30.30
Octroi	-	-	-	-	-
LEAKAGE, EXT. ORD. EXP.	-	-	19.50	23.76	-
OTHER EXPENSES	31.00	-	2.11	24.00	-
SUBTOTAL	2500.73	2491.40	2440.00	2464.88	2707.75
WHOLESALE RATE	2500.73	2491.40	2440.00	2464.88	2707.75
RETAILERS MARGIN	69.00	67.00	69.00	335.10	50.00
LOCAL TRANSPORATION	-	107.93	21.00	-	20.00
OTHER INCIDENTAL CHARGES	-	130.00	-	-	-
ROUND OFF TO RETAIL PRICE	0.04	-	-	-	-
TOTAL Rs./KL	2569.77	2798.33	2530.00	2799.88	2777.75
R.S.P. Rs/LTR	2.57	2.80	2.53	2.80	2.78
FURNANCE OIL					
EX-MI PRICE	4988.81	4988.81	4988.81	4988.81	-
STATE SURCHARGE	25.00	78.11	52.60	166.82	-
RLY FRT./FRT. DIFFERENTIAL	133.89	24.31	-	-	-
OCTROI/SSBT. TAX		- 20.00	62.81	-	-
SUBTOTAL	5147.70	5111.23	5104.22	5155.63	-
ENTRY TAX	-	-	-	-	-
SUBTOTAL	5147.70	5111.23	5140.22	5155.63	-
DEPOT RATE Rs./KL	5147.70	5111.23	5104.22	5155.63	-

Note : 1. FO not sold in retail.
Above prices are excluding sales tax.
2. There is no storage facility at Kanpur.
Hence no price build up indicated.

PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS AS ON 1.4.1994

(Rs./Kl)

	DELHI	CALCUTTA	BOMBAY	MADRAS	KANPUR
LIQUIFIED PETROLEUM GAS (RS./14.2 KG. CYL.)					
PRICE AT PRICING POINT	89.67	89.70	87.60	87.60	90.30
STATE SURCHARGE	-	1.21	0.81	2.59	-
FRT/LOCAL DELIVERY CHARGE	0.75	0.75	0.75	0.75	0.75
OCTROI	-	0.54	0.98	-	-
SUB TOTAL	90.42	92.20	90.14	90.94	91.05
CST/SALES TAX	4.52	13.83	3.61	7.28	9.11
SC ON ST	-	2.07	-	1.09	-
ADDL. SC 0N ST	-	-	-	0.36	-
DIST. COMM	3.37	3.37	3.37	3.37	3.37
SUB TOTAL	98.31	111.47	97.12	103.04	103.53
R.S.P. For 15 KG. Cyl.	98.31	111.47	97.12	103.04	103.53
R.S.P. for 14.2 KG. Cyl.	93.07	105.52	91.94	97.54	98.01
ATF (DOMESTIC AIRLINES) (Rs./Kl)					
EX-MI PRICE	10837.56	10837.56	10837.56	10837.56	10837.56
FRT. DIFFERENTIAL	-	20.39	-	-	-
RLY. FRT.	100.64	-	-	-	296.73
BMC OCTROI/LOCAL LEVY	-	-	-	-	10.00
ENTRY TAX	-	221.50	-	-	-
SHAKURBASTI T. TAX	-	-	-	-	-
STATE SURCHARGE	25.00	192.57	272.82	411.25	-
AIR FIELD CHARGE	24.44	24.44	24.44	24.44	41.94
POSTED AIR FIELD PRICE	10987.64	11296.46	11134.82	11273.25	11186.23
The above prices are exclusive of sales tax and other local levies.					
ATF (INTERNATIONAL AIRLINES) US$/KL					
BASIC PRICE	206.06	206.06	206.06	206.06	-
ENTRY TAX/LOCAL LEVIES	-	4.12	-	-	-
SALES TAX	-	52.55	61.82	41.21	-
SC ON SALES TAX	-	7.88	-	6.18	-
ADDL. SC ON ST	-	-	-	2.06	-
TOTAL FOR NON-SCH. AIRLINES	206.06	270.61	267.88	255.51	
TOTAL FOR SCH.FOREIGN AIRLINES/ NON-SCH. PASSENGER AIRCRAFT	206.06	210.18	206.06	255.51	-
RATE OF SALES TAX	-	25%	30%	20%	-
ADDL. TAX	-	15%	-	15%	-
ENTRY TAX	-	2%	-	5%	-

TRENDS IN RETAIL SELLING PRICES OF SELECTED PETROLEUM PRODUCTS IN METROPOLITAN TOWNS IN INDIA

PRICES AS ON	BOMBAY	CALCUTTA	DELHI	MADRAS	KANPUR
	MOTOR SPIRIT 83 (RS./LITRE)				
01.01.1973	1.43	1.46	1.44	1.41	1.47
01.01.1974	2.81	2.82	2.78	2.69	2.73
01.01.1975	3.26	3.27	3.27	3.19	3.35
01.01.1976	3.36	3.39	3.39	3.30	3.47
01.01.1977	3.39	3.38	3.39	3.29	3.48
01.01.1978	3.38	3.38	3.39	3.29	3.48
01.01.1979	4.04	4.04	4.04	4.90	4.14
17.08.1979	4.43	4.42	4.41	4.25	4.52
08.06.1980	5.15	5.14	5.11	4.90	5.22
13.01.1981	5.56	5.54	5.50	5.29	5.62
11.07.1981	6.15	6.13	6.07	6.17	6.19
01.04.1982	6.15	6.13	6.07	6.17	6.19
15.02.1993	6.21	6.16	5.90	6.17	6.25
01.04.1983	6.21	6.31	5.99	6.16	6.15
01.04.1984 (Ms-87 on)	6.32	6.24	6.09	6.44	6.26
01.06.1984	6.41	6.24	6.12	6.44	6.26
17.03.1985	7.34	7.16	7.00	7.39	7.16
01.02.1986	7.90	7.71	7.54	7.96	7.85
06.021986/01.04.1986	7.79	7.60	7.43	7.84	7.74
01.04.1987	7.79	7.60	7.43	7.84	7.85
01.04.1988	9.14	8.70	8.50	8.98	8.93
01.04.1989	9.14	8.70	8.50	9.43	8.93
01.04.1990 (Ms-87)	10.76	10.07	9.84	11.09	10.31
01.04.1991	13.72	12.53	12.23	13.81	12.73
01.04.1992	16.71	15.48	14.62	17.17	15.19
01.04.1993	17.91	16.59	15.71	18.74	16.35
01.03.1994	19.11	17.70	16.78	19.98	17.45
	HIGH SPEED DIESEL OIL (RS./LITRE)				
01.01.1973	0.83	0.90	0.86	0.87	0.88
01.01.1974	0.81	0.87	0.84	0.88	0.87
01.01.1975	1.06	1.10	1.11	1.15	1.15
01.01.1976	1.28	1.35	1.36	1.36	1.32
01.01.1977	1.27	1.36	1.34	1.35	1.33
01.01.1978	1.27	1.36	1.34	1.35	1.33
01.04.1979	1.39	1.49	1.47	1.49	1.50
17.08.1979	1.58	1.68	1.66	1.66	1.69
11.09.1979	1.50	1.60	1.58	1.59	1.61
08.06.1980	2.21	2.25	2.28	2.24	2.34
13.01.1981	2.61	2.66	2.67	2.66	2.76
11.07.1981	2.96	3.01	3.02	3.05	3.11
01.04.1982	2.96	3.01	3.02	3.05	3.11
15.02.1983	3.21	3.31	3.18	3.27	3.46
01.04.1983	3.21	3.30	3.19	3.26	3.40
01.04.1984	3.21	3.30	3.20	3.34	3.42
01.06.1984	3.27	3.30	3.22	3.34	3.42
17.03.1985	3.52	3.35	3.47	3.60	3.70
26.03.1985	3.45	3.48	3.39	3.52	3.60
01.02.1986	3.64	3.68	3.58	3.73	3.81
06.02.1986/01.04.1986	3.57	3.60	3.50	3.65	3.73
01.04.1987	3.63	3.59	3.50	3.64	3.84
01.04.1988	3.63	3.59	3.50	3.64	3.84
01.04.1989	3.63	3.59	3.50	3.69	3.83
01.04.1990	4.30	4.20	4.08	4.36	4.44
01.04.1991	5.62	5.20	5.05	5.42	5.42
01.04.1992	5.68	5.31	5.05	5.72	5.42
01.04.1993	6.88	6.43	6.17	6.91	6.54
01.03.1994	7.78	7.27	6.98	7.80	7.38

TRENDS IN RETAIL SELLING PRICES OF SELECTED PETROLEUM PRODUCTS IN METROPOLITAN TOWNS IN INDIA

PRICES AS ON	BOMBAY	CALCUTTA	DELHI	MADRAS	KANPUR
		Superior Kerosene (Rs./LITRE)			
01.01.1973	0.61	0.65	0.65	0.65	0.74
01.01.1974	0.82	0.84	0.82	.85	.86
01.01.1975	1.04	1.05	1.08	1.10	1.25
01.01.1976	1.21	1.25	1.29	1.31	1.39
01.01.1977	1.21	1.24	1.23	1.31	1.34
01.01.1978	1.18	1.24	1.30	1.31	1.34
01.04.1979	1.29	1.38	1.43	1.43	1.47
01.08.1979	1.46	1.56	1.61	1.62	1.66
17.09.1979	1.39	1.49	1.54	1.55	1.59
08.06.1980	1.39	1.49	1.54	1.55	1.59
13.01.1981	1.49	1.60	1.65	1.67	1.70
11.07.1971	1.60	1.76	1.81	1.84	1.90
01.04.1982	1.66	1.80	1.81	1.78	1.90
15.02.1980/Subsidised	1.70	1.80	1.77	1.78	1.90
Non-subsidised	3.00	3.12	3.10	3.15	3.35
18.03.1983	1.80	1.91	1.88	1.89	2.10
01.04.1983	1.80	1.90	1.88	1.88	2.05
01.04.1984	1.81	1.92	1.89	1.88	2.05
01.06.1984	1.85	1.92	1.92	1.88	2.05
17.03.1885	2.10	2.18	2.18	2.15	2.33
26.03.1985	2.03	2.12	2.11	2.08	2.25
01.02.1986	2.66	2.36	2.34	2.34	2.50
06.02.1986/01.04.1986	2.17	2.27	2.25	2.25	2.40
01.04.1997	2.17	2.27	2.25	2.25	2.50
01.04.1988	2.14	2.27	2.25	2.25	2.50
01.04.1989	2.17	2.27	2.25	2.27	2.50
01.04.1990	2.17	2.27	2.25	2.29	2.50
01.04.1991	2.66	2.90	2.77	2.95	3.04
01.04.1992	2.44	2.70	2.52	2.80	2.78
01.04.1993	2.44	2.75	2.54	2.80	2.78
01.03.1994	2.53	2.80	2.58	2.80	2.78
		Liquified Petroleum Gas (Rs./Cylinders)			
	14.2 Kg.cyl	**15Kg. cyl**	**15 Kg cyl**	**15 Kg.cyl**	**15 Kg. cyl**
01.01.1975	22.10	27.79	27.36	23.91	27.61
01.01.1976	26.75	33.31	32.61	29.36	32.85
01.01.1979	26.94	37.06	34.98	38.90	35.42
17.08.1979	33.96	42.93	40.43	37.32	40.82
08.06/1968	33.96	42.93	40.23	37.81	40.82
13.08.1981	38.94	49.09	45.53	-	46.26
11.07.1981	43.52	54.84	50.78	48.74	53.06
01.04.1982	43.52	54.84	50.78	48.74	53.06
01.09.1982	43.14	51.93	44.58@	47.17	49.41
01.04.1983	43.14	51.71	45.09@	47.17	50.41@
01.04.1984	43.14	52.71	45.09@	44.65@	47.72@
01.06.1984	44.41	49.90@	45.47@	44.65@	48.81@
17.03.1985	49.95	56.34@	51.35@	50.74@	54.89@
01.02.1986	60.28	67.77@	61.79@	61.56@	65.90@
06.02.1986/01.04.1986	56.15	63.20@	57.61@	57.24@	61.56@
01.04.1987	56.15	63.20@	57.61@	57.24@	61.56@
01.04.1988	56.15	63.20@	57.61@	57.24@	61.56@
01.04.1989	56.15	63.20@	57.61@	57.24@	61.56@
01.04.1990	56.15	63.20@	57.61@	57.44@	61.56@
01.04.1991	56.15	63.20@	57.61@	57.44@	60.64@
01.04.1992	66.81	77.20@	67.90@	71.06@	71.43@
01.04.1993	81.54	93.81@	82.57@	86.58@	87.01@
01.03.1994	91.94	105.52@	93.07@	97.55@	98.00@

@ : For 14.2 Kg. Cylinder

RATES OF DEALERS COMMISSION FOR MS, HSDO AND LPG IN INDIA

Effective from	(..... Motor Spirit.....) (Rs./Kl) Slab of annual volume of sale (Kl/Annual)						(..... High Speed Diesel Oil.....) (Rs./Kl) Slab of annual volume of sales (Kl/Annual)						LPG (Rs./cylinder)		
	Effective from 1.7.1982				Effective from 1.9.1993@		Effective from 1.7.1982				Effective from 1.9.1993@			Upto 2500 refills p.m.	Above 2500 refills p.m.
	0-360	361-600	601-1080	Over 1080	0-600	Above 600	0-360	361-600	601-1080	Over 1080	0-600	Above 600			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.3.1982	-	-	-	-	-	-	-	-	-	-	-	-	3.62	-	-
1.10.1982	134	98	86	69	-	-	79	58	42	36	-	-	-	-	-
15.2.1983	-	-	-	-	-	-	81	60	43	37	-	-	-	-	-
1.9.1983	135	99	87	70	-	-	-	-	-	-	-	-	-	-	-
17.3.1985	146	108	95	76	-	-	83	62	44	38	-	-	-	-	-
6.2.1986	151	113	99	79	-	-	84	63	45	39	-	-	-	-	-
19.1.1987	-	-	-	-	-	-	-	-	-	-	-	-	5.30	-	-
9.1.1988	164	124	109	87	-	-	-	-	-	-	-	-	-	-	-
21.10.1989	234	165	148	128	-	-	129	87	69	63	-	-	-	-	-
20.3.1990	250	179	160	138	-	-	135	92	72	66	-	-	-	-	-
15.10.1990	279	204	182	155	-	-	145	101	77	70	-	-	-	-	-
17.5.1991	-	-	-	-	-	-	-	-	-	-	-	-	5.70	-	-
25.7.1991	311	233	206	172	-	-	-	-	-	-	-	-	5.70	-	-
16.9.1992	321	240	214	180	-	-	155	111	83	75	-	-	5.70	-	-
1.4.1993	381	277	248	217	-	-	186	128	101	92	-	-	5.70	-	-
1.9.1993	-	-	-	-	363	224	-	-	-	-	190	90	-	7.30	6.50
2.2.1994	-	-	-	-	374	231	-	-	-	-	195	93	-	7.30	6.50
1.4.1994	-	-	-	-	376	232	-	-	-	-	196	93	-	7.30	6.50

@ : Exclusive of demand draft charges.

Note : The rates of dealership commission fixed at 3 Annas per Imperial Gallon for MS in 1954 and at 1 Anna and 3 Paise per Imperial Gallon for HSDO in 1955 continued upto 30th June 1976. The revised commission rates effective 1.7.1976 were as follows :

Sales per annum (Combined MS/HSDO sales)	MS (Rs./Kl)	HSDO (Rs./Kl)
Upto 360	80	50
361 to 720	35	10
721 and above	25	10

XV EXCISE/CUSTOM DUTIES AND SALES TAX

Realisation of Excise & Custom Duties from Crude Oil & Petroleum Products During 1986-87 to 1992-93, RE for 1993-94 and BE for 1994-95

(Rs. Crores)

Products	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94 (RE)	1994-95 (BE)
	Actuals								
1	2	3	4	5	6	7	8	9	10
A. Excise Duties									
1. Mogas	814	903	1034	1200	1202	1245	1287	1442	1515
2. Kerosene Oil	233	250	241	268	255	246	239	303	305
3. Refined Diesel Oil	596	646	683	731	693	703	743	782	800
4. Diesel Oil (NOS)	27	28	29	38	35	40	34	51	55
5. Furnace Oil	37	34	46	53	49	57	64	66	70
6. Pol. Products (NOS)	277	280	314	359	421	433	427	470	550
7. Petroleum Gases	50	58	59	66	66	72	79	80	90
8. Cess on crude oil	980	1770	2029	2947	2757	2466	2169	2218	2680
Total (A)	3014	3969	4435	5662	5478	5262	5042	5412	6065
B. Customs Duties									
1. Crude Petroleum	857	1862	1917	2149	3146	3344	4053	4544	4200
2. Petroleum Products	218	274	396	282	555	731	1227	2200	2325
Total (B)	1075	2136	2313	2431	3701	4075	5280	6744	6525
Grand Total (A+B)	4089	6105	6748	8093	9179	9337	10322	12156	12590

Figures rounded to nearest crores. Source : Budget papers of the Central Govt.

PERCENTAGE SHARE OF CENTRAL EXCISE ON POL TO TOTAL CENTRAL EXCISE AND TO NET NATIONAL PRODUCT.

Year	Net National Product at factor cost at current Prices (..... Rs. Crores .....)	Central Excise	Central Excise on POL	Central Excise as % of NNP	Central Excise on POL as % of NNP	Central Excise on POL as % of Total Central Excise
1	2	3	4	5	6	7
1960-61	14160	416	101	3.1	0.8	24.3
1965-66	22107	898	261	4.4	1.3	29.1
1970-71	36362	1759	608	5.1	1.8	34.6
1971-72	38583	2061	708	5.6	1.9	34.4
1972-73	42382	2324	767	5.8	1.9	33.0
1973-74	52241	2602	874	5.2	1.7	33.6
1974-75	61194	3231	1011	5.4	1.7	31.3
1975-76	64531	3845	1040	6.2	1.7	27.1
1976-77	69408	4221	1163	6.3	1.7	27.6
1977-78	79671	4448	1216	5.9	1.5	27.4
1978-79	85255	5194	1359	6.4	1.6	26.2
1979-80	92314	6148	1477	6.9	1.6	24.0
1980-81	110685	6500	1216	5.9	1.1	18.7
1981-82	128797	7421	1405	5.8	1.1	18.9
1982-83	141875	8059	1604	5.7	1.1	19.9
1983-84	166550	10222	2269	6.2	1.4	22.2
1984-85	185018	11151	2449	6.0	1.3	22.0
1985-86	206133	13008	2718	6.3	1.3	20.9
1986-87	228402	14489	3014	6.3	1.3	20.8
1987-88	258891	16347	3969	6.3	1.5	24.3
1988-89	309286	18825	4435	6.1	1.4	23.6
1989-90	357931	22290	5662	6.2	1.6	25.4
1990-91	416495	24451	5478	5.9	1.3	22.4
1991-92	477868	28121	5262	5.9	1.1	18.7
1992-93	544935	30651	5042	5.6	0.9	16.4
1993-94@	615273	31750 (RE)	5412	5.2	0.9	17.0

Source : i) Government of India's Economic Survey for N.N.P.
ii) Budget papers of Central Government.
iii) National Accounts Statistics, 1994.
@ - Quick estimates

NA: Not avaiable.

COMPOSITE INCIDENCE OF EXCISE AND CUSTOM DUTIES ON PETROLEUM PRODUCTS

Year	Consumption of POL Products (Excl. R.B.F.) ('000' MTS)	Central Excise Duty realisation (Rs./Crores)	Customs Duties realisation (Rs./Crores)	Total Central Excise & Custom duties (Rs./Crores)	Composite Incidence of Excise & Customs duties (Rs./Crores)
1	2	3	4	5	6
1960-61	7985	101	23	124	155.29
1965-66	11917	261	83	344	288.66
1970-71	17912	608	30	638	356.19
1971-72	200071	709	63	772	384.63
1972-73	21715	767	86	853	392.82
1973-74	22346	874	96	970	434.08
1974-75	22105	1011	96	1106	500.34
1975-76	22447	1040	115	1155	514.55
1976-77	24101	1163	112	1275	529.00
1977-78	25539	1216	127	1343	525.90
1978-79	28241	1359	190	1549	548.50
1979-80	29883	1477	213	1690	565.50
1980-81	30896	1216	354	1570	508.20
1981-82	32523	1405	288	1693	520.60
1982-83	34657	1604	256	1860	536.70
1983-84	35841	2269	219	2488	694.20
1984-85	38795	2449	472	2921	752.90
1985-86	40872	2718	1050	3768	921.90
1986-87	43662	3014	1075	4089	936.50
1987-88	46416	3969	2136	6105	1315.30
1988-89	50092	4435	2313	6748	1347.10
1989-90	54095	5662	2431	8093	1496.10
1990-91	55035	5478	3701	9179	1667.80
1991-92	56974	5262	4075	9337	1638.82
1992-93	58902	5042	5280	10322	1752.40
1993-94 (p)	60812	5412	6744	12156	1998.95

(P)= Provisional

ROYALTY AND OIL DEVELOPMENT CESS PAID BY OIL COMPANIES ON PRODUCTION OF CRUDE OIL AND NATURAL GAS SINCE 1973-74 TO 1993-94

(Rs./Lakhs)

YEAR	ROYALTY PAID ON CRUDE OIL						ROYALTY PAID ON NATURAL GAS					OIL DEVELOPMENT CESS
	Western Region	Eastern Region	Southern Region	Total On Shore	Bombay High/KG Off-Shore	Total	Western Shore	Eastern Region	Southern Region	B.High/KG Off-Shore	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13
1973-74	520	548	-	1068	-	1068	26	5	-	-	31	-
1974-75	576	584	-	1160	-	1160	36	8	-	-	44	3081
1975-76	615	645	-	1260	-	1260	43	26	-	-	69	5007
1976-77	1279	1087	-	2366	156	2522	44	59	-	-	103	5289
1977-78	1742	1907	-	3649	1016	4665	102	50	-	-	152	6375
1978-79	1771	1727	-	3498	1349	4847	88	66	-	-	154	6889
1979-80	1566	1771	-	3337	1761	5098	240	65	-	15	320	6970
1980-81	1578	531	-	2109	1997	4106	168	36	-	50	253	6040
1981-82	2075	3155	-	5230	4430	9660	184	69	-	258	511	13897
1982-83	1927	3498	-	5425	7513	12938	32	123	-	593	748	26884
1983-84	2179	3054	-	5233	10305	15538	305	108	-	911	1324	81279
1984-85	7449	9513	-	16962	11931	38893	183	114	-	2109	2406	84434
1985-86	13275	12433	-	25708	12155	37863	242	96	-	1905	2243	86629
1986-87	8590	9395	11	17996	91192	109188	359	95	-	4113	4567	98916
1987-88	9412	9833	26	19271	37724	56995	797	409	-	6594	7800	151331
1988-89	10175	10281	59	20525	39660	60185	1083	405	16	8557	10061	201364
1989-90	11561	13479	397	25437	40118	65555	1194	399	34	10409	12036	291411
1990-91	39424	26074	1291	66789	136037	202826	1283	421	68	12038	13810	278197
1991-92	17723	19385	964	38072	52885	90957	1910	428	216	18859	21413	250077
1992-93	47037	31250	2674	80961	126901	207862	2391	520	720	17229	20860	219198
1993-94*	30672	25913	2086	58671	69683	128354	2912	485	862	17226	21485	217536

Note : 1 Figures for 1984-85 & 1985-86 have undergone revision due to increase in Royalty rate from Rs. 61/-Per metric tonne to 192/- Per metric tonne

2. Figures of Royalty in 1987-88 include payments for 1986-87 and advance payments made for 1988-89. While some payments for 1987-88 has made by ONGC in 1988-89. These figures also include royalty on condensate and NGL.
3. Figures of Crude Oil Royalty for 1990-91 included arrrears for the period 1.4.1987 to 31.3.90 arising on account of revision in royalty rate from Rs. 192 to Rs. 314 per M.T. w.e.f. 1.4.87 vide notification dated 18.2.91.
4. The total arrears for the period 1.4.87 to 31.3.91 @ Rs. 122 per M.T. amounting to Rs. 985.09 crores have not been paid as the Govt. is contemplating payment by book adjustments out of deposits of OCC in the Public Account of India.
5. Figures of Crude Oil royalty for 1992-93 includes arrears of royalty on Crude Oil for the period 1.4.90 to 31.3.92 arisen consequent upon increase in Crude Oil royalty rate

*= Provisional

EXCISE DUTY ELEMENT INCLUDED IN SELLING PRICES OF BULK REFINED PETROLEUM PRODUCTS (EX-STORAGE POINT)

(Rupees/Selling Unit)

PRODUCTS	Selling Unit	w.e.f. 17.8.79	w.e.f. 11.9.79	w.e.f. 8.6.80	w.e.f. 13.1.81	w.e.f. 11.7.81	w.e.f. 15.2.83	w.e.f. 1.4.83	w.e.f. 1.9.83	w.e.f. 1.4.84/ 1.4.85/ 1.4.86/ 1.4.87/ 1.3.88/	w.e.f. 1.3.88 up to 25.7.91	w.e.f. 28.2.93	w.e.f. 1.3.94
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Av. gas 100/130	KL	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2437.59	NA
2. Av. gas 115/145	KL	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2435.85	NA
3. Av. Gas 73	KL	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2326.79	2436.84	NA
4. M.S. 87 @@	KL	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2327.50	2338.82	2568.87
5. M.S. 93	KL	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2328.92	2440.31	3068.87
6. A.T.F.	KL	402.56	402.56	333.52@	333.52	333.52	333.52	333.52	333.32	333.52	352.07	369.83	985.23
7. S.K.O.	KL	402.63	333.59	333.59@	333.59	333.59	333.59	333.59	333.59	333.59	330.44	330.44	200.14
8. H.S.D.O.	KL	399.15	330.00	330.00@	330.00	330.00	330.00	330.00	330.00	330.00	347.49	347.74	571.73
9. L.D.O.	KL	153.96	153.96	153.96	153.96	153.96	153.96	153.96	153.96	153.96	160.91	173.02	558.76
10. F.O. (Fert. Use)*	KL	125.82	125.82	125.82	125.82	125.82	125.82	125.82	125.82	125.82	*	*	*
11. F.O. (Non-Ferts Use)	KL	125.82	125.82	125.82	125.82	125.82	125.82	125.82	125.82	125.82	150.71	158.38	453.52
12. Bitumen (Bulk)	MT	110.30	110.30	110.30	110.30	110.30	110.30	110.30	110.30	110.30	115.50	175.00	412.50
13. Bitumen' (Packed)	MT	157.55	157.55	157.55	157.55	157.55	157.55	157.55	157.55	157.55	168.00	175.00	478.14
14. LPG/Domes. Packed)	MT	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	273.00	285.0	530.92
15. LPG (Indust) Bulk)	MT	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	273.00	285.0	1160.18
16. Naphtha* (Fert.Use)	MT	4.50	4.36	4.36	4.36	4.36	-	-	4.40	4.40	4.00	5.50	*
17. Naphtha* (For Non-Fert. Use)	MT	26.50	26.50	26.50	26.50	26.50	-	-	26.25	26.25	26.25	66.00	*

*Duty at applicable rates will be charged ** w.e.f. 1.10.1986.

@@MS 83 was replaced by MS 87 w.e.f. 1.9.1983.

@Revision effective from 11.9.1979.

Note: i) No Custom/ Excise Duty is chargeable on FO when used as feed stock, the duty @ Rs. 63.46/KL only is chargeable when used in fertilizer industry for purposes other than feed stock.

ii) w.e.f. 1.10.1986, the supply of FO/Naphtha to fertilizers units for purposes other than feedstock will be charged at the rate applicable to General Category.

EX-STORAGE POINT CEILING SELLING PRICES OF MAJOR PETROLEUM PRODUCTS AND RATES OF EXCISE DUTY w.e.f. 1.3.1994

(Rs/Selling Unit)

PRODUCTS	Selling unit	Ex-storage prices Without Excise duty	Rate of duty %	Ex-storage prices inclusive of excise duty
1	2	3	4	5
MS-87	KL	12844.34	20%	15413.21
MS-93	KL	15344.34	20%	18413.21
MS-80	KL	12873.49	20%	15448.19
HS DO	KL	5717.28	10%	6289.01
LSHF (HSD) Bulk	KL	5717.28	10%	6289.01
LSHF (HSD) other	KL	8507.16	10%	9357.88
SKO other than Ind.	KL	2001.40	10%	2201.54
SKO- Industrial	KL	5014.33	10%	5515.76
LDO	KL	5587.55	10%	6146.31
ATF-other than Int	KL	9852.33	10%	10837.56
Naphtha-fert $	MT	3722.78	$	3772.78$
Naphtha-other $	MT	6075.69	$	6075.69$
Fo-fert $	KL	2812.43	$	2812.43$
Fo-others	KL	4535.20	10%	4988.72
LSHS-Fert $	MT	2851.57	$	2851.57$
LSHS-others $	MT	4804.07	$	4804.07 $
LPG-Packed (Domestic)	MT	5309.19	10%	5840.11
LPG-Packed (Non-Domestic Essential)	MT	11443.43	10%	12587.77
LPG-Packed (Non-Domestic Non-Essential	MT	12881.28	10%	14169.41
LPG-Bulk (Essential)	MT	10164.28	10%	11180.71
LPG-Bulk (Non-Essential)	MT	11601.78	10%	12761.96
Bitumen-Bulk	MT	4125.02	10%	4537.52
Bitumen-Packed	MT	4781.35	10%	5259.49
Match Wax	MT	12157.47	10%	13373.22
Paraffin Wax Ist Quality	MT	15408.01	10%	16948.81
Paraffin Wax-P1grade	MT	15531.70	10%	17054.87

$- Prices shown against these items are exclusive of duty chargeable extra (applicable as per end use)

SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PETROLEUM PROCUCTS AS ON 1.4.1994

S.No. PRODUCTS	Andhra ** Pradesh	Arunachal Pradesh	Assam	Bihar	Goa	Gujarat	Harayana
	1	2	3	4	5	6	7
A. CRUDE OIL & GAS							
1. Crude Oil	4.00%	No Tax	4%	4%	-	4%	4%
2. natural Gas	15.21%	No Tax	8%	-	-	19%	-
B. PETROLEUM PRODUCTS							
3. Aviation Spirit	28.21%	No Tax	25%	25%	20%	30% Bonded & duty paid 9%	6%
4. Aviation Turbine Fuel	28.21%	No Tax	25%	25%	20%	30% Bonded & duty paid 23%	6%
5. Motor Spirit	28.21%	do	12%	9%	17%	20%	6%
6. H.S.D.	18,2%	do	11%	14%	17%	18%	6%
7. L.D.O.	18.2%	do	11%	14%	17%	8%	8%
8. M.L.O.	18.2%	do	8%	9%	7%	12%	8%
9.S.K.O.	5.82%	do	2%	6%	Exempt	@	8%
10.I.K.O.	-	do	-	5%	-	-	-
11. F.O.	7.07%	do	8%	8%	17%	12%	8%
12. M.T.O.	7.07%	do	8%	9%	7%	12%	8%
13. Lubes	15.21%	do	12%	9%	7%	14%	8%
14. Greases	15.21%	do	12%	9%	7%	14%	8%
15. Petroleum Naphtha	15.21%	do	8%	9%	17%	18%	8%
16. Bitumen	15.21%	do	8%	9%	7%	12%	8%
17. Petroleum Coke	4.00%	do	4%	4%	4%	4%	4%
18. Indane (LPG)	13.77%	do	8%	9%	Exempt	17%	8%
19. Transformer Oil	7.07%	do	8%	9%	7%	12%	8%
20. H.B. Fluid	15.21%	do	8%	-	7%	14%	8%
21. L.S.H.S.	7.07%	do	8%	9%	17%	15%	8%

**These rates are inclusive of other levies recoverable from the costomers as shown at the end of table.

@ Kerosene for domestic use @ 3.60%

@ Kerosene for others use @ 8%

Contd.....

SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS AS ON 1.4.1994

SNo.	PRODUCTS	Himachal Pradesh	J&K	Karnataka	Kerala	Madhya Pradesh	Maharashtra	Manipur
		8	9	10	11	12	13	14
A.	**CRUDE OIL & GAS**							
1.	Crude Oil	4%	4%	4%	4%	4%	4%	4%
2.	Natural Gas	—	-	-	-	-	10%	-
B.	**PETROLEUM PRODUCTS**							
3.	Aviation Spirit	8%	8%	22%	12.5%	15%	Duty paid 9%	10%
4.	Avaition Turbine Fuel	6%	8%	22%	12.5%	15%	Bonded 30% Duty paid 24%	10%
5.	Motor Spirit	6%	4%	22%	20%	20%	21%	15%
6.	H.S.D.O.	6%	8%	20%	17%	20%	21%	7%
7.	L.D.O.	8%	8%	20%	25%	15%	8%	7%
8.	M.L.O.	8%	8%	10%	12.5%	14%	8%	7%
9.	S.K.O.	8%	Exempted	5%	5%	2%	Exempted	3%
10.	I.K.O.	-	do	-	-	2%	do	-
11.	F.O.	8%	8%	13%	12.5%	4%	8%	7%
12,	M.T.O.	8%	8%	8%	12.5%	14%	8%	NA
13.	Lubes	8%	8%	15%	15%	15%	8%	10%
14.	Greases	8%	8%	15%	15%	15%	8%	4%
15.	Petroleum Naphtha	8%	8%	10%	7%	14%	10%	7%
16.	Bitumen	8%	8%	10%	12.5%	14%	8%	7%
17.	Petroleum Coke	4%	4%	4%	4%	4%	4%	4%
18.	Indane LPG	8%	8%	15%	20%	15%	4%<3	7%
19.	Transformer Oil	8%	8%	13%	12.5%	12%	8%	-
20.	H.B. Fluid	8%	8%	10%	15%	12%	10%	-
21.	L.S.H.S.	8%	8%	10%	12.5%	14%	8%	-

<3 Only for LP.G. in Cylinders below 15 kgs.
For LP.G. in Cylinders above 15kg Rate of Sales tax is 8%.

Contd.....

SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS AS ON 1.4.1994

S.No. PRODUCTS	Meghalaya Rs. KL	Mizoram	Nagaland	Orissa	Punjab	Rajasthan	Tamil Nadu
	15	16	17	18	19	20	21
A. CRUDE OIL & GAS							
1.Crude Oil	-	-	3%	4%	4%	4%	4%
2. Natural Gas	-	-	-	-	-	-	8%+15% Surcharge
B. PETROLEUM PRODUCTS							
3. Aviation Spirit	-	-	12%	16%	7%	18%	20%
4. Aviation Turbine Fuel	-	-	12%	12%	8%	10%	20%
5. Motor Sprit	340+ 6.80 S/C	8%	5%	16%	7%	18%	20%
6. H.S.D.O.	150+ 3.00 S/C	5%	3.25%	16%	4%	16%	16%
7. L.D.O.	150+ 3.00 S/C	5%	3.25%	16%	8%	16%	16%
8. M.L.O.	-	-	-	12%	8%	10%	12%
9. S.K.O.	30	-	1.15%	4%	8%	10%	3%
10. I.K.O.	-	-	-	4%	8%	10%	3%
11. F.O.	-	-	-	12%	8%	10%	12%
12. M.T.O.	-	-	-	12%	8%	10%	12%
13. Lubes	150+ 3.00 S/C	8%	5%	16%	8%	10%	12%
14. Greases	110*+ 2.20S/C	-	5%	16%	8%	10%	12%
15. Petroleum Naphtha	-	-	-	12%	8%	10%	12%
16. Bitumen	-	-	-	12%	8%	10%	8%
17. Petroleum Coke	-	-	-	4%	4%	4%	3%
18. Indane (LPG)	10%+ 2% S/C	10%	6%	12%	8%	10%	8%
19. Transformer Oil	-	-	-	12%	8%	10%	12%
20. H.B. Fluid	-	-	-	-	8%	10%	8%
21. L.S.H.S.	-	-	-	-	8%	19%	12%

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SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS AS ON 1.4.1994

S.No. Products	Tripura	Uttar** Pradesh	West Bengal	Chandigarh	Delhi	Daman & Diu
	22	23	24	25	26	27
A. CRUDE OIL & GAS						
1. Crude Oil	4%	4%	4%	4%	4%	-
2. Natural Gas	12%	-	-	-	-	-
B. PETROLEUM PRODUCTS						
3. Aviation Spirit	12%	10%	9%	15 PPL	7%	-
4. Aviation Turbine Fuel	25%	10%	25%	15 PPL	7%	-
5. Motor Sprit	8%	10%	9.9%	15 PPL	7%	-
6. H.S.D.	5%	12%	12%	10 PPL	8%-	
7. L.D.O.	5%	12%	12%	7%	8%	-
8. M.L.O.	-	10%	8%	7%	7%	-
9. S.K.O.	5%	10%	5%	7%	3%	Exempted
10. I.K.O.	-	-	-	-	-	Exempted
11. F.O.	5%	6.25%	8%	7%	7%	-
12. M.T.O.	-	10%	8%	7%	10%	-
13. Lubes	12%	10%	15%	7%	8%	-
14. Greases	12%	10%	15%	7%	8%	-
15. Petroleum Naphtha	5%	10%	8%	7%	7%	-
16. Bitumen	5%	10%	8%	7%	7%	-
17. Petroleum Coke	-	4%	4%	4%	4%	-
18. LPG	12%	10%	15%	7%	5%	-
19. Transformer Oil	-	10%	8%	7%	7%	-
20. H.B. Fluid	-	10%	11%	7%	7%	-
21. L.S.H.S.	-	6.25%	8%	7%	7%	

Note : 1. PPL means Paise per litre.
2. Wherever (-) is shown against any of the product rates, same indicates Sales Tax rate not available.

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IN ADDITION TO THE SALES TAX PAYABLE, THE FOLLOWING TAX ARE ALSO PAYABLE/RECOVERALBE

1.	Haryana	Surcharge @ 10% on Sales Tax on all products. This is recoverable from the costomers.
2.	Punjab	Additional tax @ 10% of the Sales Tax on all products, except MS, Avn. Spirit & HSD, is payable. This is recoverable from the customers.
3.	W.Bengal	1. Turnover Tax @ 2.0% on gross turnover on products other than Av.Gas, Av.Spirit, ATF, HSD, LDO, MS, SKO & FO and on these products rate of turnover tax is 2.5% This is payable, but same is not recoverable from the customers. 2. Addl. Tax@ 15% on tax is payable on all products except Kerosene, HSD and LDO. This is recoverable from the customers.
4.	Kerala	1. Surcharge @ 10% of Sales Tax is payable but not recoverable from customers. 2. 4% Turnover Tax is payable but not recoverable from customers.
5.	J&K	Surcharge @ 5% of Sales Tax is payable. This is recoverable from the customers. This does not apply to products falling under Motor Spirit Tax Act (i.e. MS, HSD)
6.	Maharashtra	1. Addl. Sales Tax @ 15% on Sales Tax is payable but the same is not recoverable from customers. This is not payable on Kerosene, crude oil, ATF/Av. Spirit, MS and HSD. 2. Turnover Tax : i) @ 1.25% on Turnover between Rs. 12 lacs and Rs. 1 crores. ii) @ 1.5% on turnover above Rs. 1 corre This is payable to Govt. but cannot be recovered from the customers.
7.	Karnataka	2.75% Turnover Tax on the Total Turnover. This is payable to Govt. but cannot be recovered from the customers.
8.	Tamil Nadu	1. Surcharge : @ 15% Sales Tax is payable on all products. This is recoverable from the Customers. 2. Addl. Surcharge : @ 5% on Tax on the sale of products in Municipal Corporation of Madras city and within 32 KMs from outer perepheral limits of Municipal Corporation of Madras. This is recoverable from the customers. 3. Additional Tax : @ 3% is payable on the taxable turnover above Rs. 300 crores. This cannot be recovered from the customers.

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IN ADDITION TO THE SALES TAX PAYABLE, THE FOLLOWING TAX ARE ALSO PAYABLE/RECOVERALBE

9.	Gujarat	1. Turnover Tax : at the folllowing rate is payable, but not recoverable from the customers.	
		a) Up to taxable turnover of Rs. 50 lacs	Nil
		b) On taxable turnover exceeding Rs. 50 lacs but less than Rs. 2 crores	@ 1% of taxable turnover in excess of Rs. 50 lacs.
		c) On taxable turnover between Rs. 2 crores and Rs. 4 crores.	Rs. 1.5 lacs plus @ 1.25% of taxable turnover in excess of Rs. 2 crores.
		d) On taxable turnover between Rs. 4 crores and Rs. 8 crores	Rs. 4 lacs plus @ 1.5% of taxable turnover in excess of Rs. 4 crores.
		e) On taxable turnover above Rs. 8 crores.	Rs. 10 lacs plus @ 2% of taxable turnover in excess of Rs. 8 crores.
		2) Additional Tax : @ 20% on tax on MS, HSD, Av. Spirit, ATF. This is recoverable from the customers.	
10.	Orissa	Surcharge @ 10% on Sales Tax- This cannot be recovered from the customers.	
11.	Goa	Addl. Sales Tax @ 15% of Sales Tax is payable but the same is not recoverable from the customers.	
12.	Andhra Pradesh	Turnover tax @ 2.25% on taxable turnover above Rs. 1 crore on Pet. products other than SKO & LPG and @ 1.1% on taxable turnover on SKO & LPG. This is recoverable from the customers. This is already included in the billable rates shown in rate chart.	
13.	Bihar	1. 10% Surcharge on Sales Tax is payable but not recoverable from the customers.	
		2. 1% Addl. Tax on gross turnover is payable. This is recoverable from the customers. (Not applicable on MS, HSD, LDO, SKO, Furnace Oil, Av.Gas, ATF and Declared goods).	
14.	Uttar Pradesh	25% surcharge on sales tax, This is recoverable from the customers. This is included in the billable rates shown in rate chart. (Not applicable on MS, Av.Gas, ATF, LDO, HSD & Crude Oil.)	
15.	Tripura	Additional tax @ 0.25% on taxable turnover. This cannot be recovered from the customers.	
16.	Meghlaya	Surcharge @ 1 % on tax on MS, HSD, LPG and F.O. This is recoverable from the customers.	
17.	Chandigarh	Surcharge @ 2% on Sales Tax not on MS, Av.Gas, ATF and HSD This is recoverable from the customers.	

SALES TAX PAYMENTS (INCLUSIVE OF MST AND CST) ON CRUDE OIL/CONDENSATES, NATURAL GAS & PETROLEUM PRODUCTS MADE BY THE OIL COMPANIES TO STATE/UNION TERRITORY GOVERNMENTS DURING THE YEARS 1986-87 TO 1993-94

(Rs. in lakhs)

STATE/UTs.	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94
1	2	3	4	5	6	7	8	9
1. Crude Oil								
Assam	3456	3407	3537	4290	4611	4428	5017	6205
Gujarat	2965	3334	3627	4731	6195	5038	6542	7349
Arunachal Pradesh	40	21	22	30	32	43	50	69
Nagaland	54	45	71	83	87	48	65	72
Maharashtra	9220	10924	6835	7428	15500	13950	16368	15207
Tamil Nadu	3	9	20	152	257	257	365	464
Total (1)	**15738**	**17741**	**14112**	**16714**	**26682**	**23764**	**28407**	**29366**
2. Natural Gas								
Assam	48	366	326	422	429	417	520	497
Gujarat	347	4052	7280	11199	9952	13136	17205	8701
Maharashtra* (Bombay High)	4046	4537	4319	6204	5628	5361	6505	6602
Arunachal Pradesh	-	Neg.	17	48	82	-	-	-
Tamil Nadu	-	Neg.	3	6	17	18	38	40
Tripura	3	15	18	17	53	59	93	82
Andhra Pradesh	-	-	-	-	-	317	1097	1368
Total (2)	**4444**	**8970**	**11963**	**17895**	**16161**	**19308**	**25458**	**17290**
3. POL Products								
(a) States								
Andhra Pradesh	12764	13597	14883	22318	25062	37812	41956	51981
Assam	2463	3350	3519	4509	3654	5228	5292	5581
Bihar	7936	7328	8334	10326	11239	16122	18258	19966
Gujarat	19045	21030	26328	34430	39456	54531	62218	71876
Haryana	2341	2251	2557	3764	4584	6123	6874	8339
Himachal Pradesh	341	179	186	181	261	303	418	489
Jammu & Kashmir	571	542	570	686	759	1065	1261	1564
Karnataka	12311	11439	12256	16748	21801	30930	35426	44452
Kerala	13543	11642	14304	8617	27512	30518	39708	41540
Madhya Pradesh	6468	5488	7040	10160	13168	18784	20824	24364
Maharashtra	24447	20556	24245	37124	52978	72518	83192	92755
Manipur	81	163	179	183	164	277	338	452
Meghalaya	Neg.	1	1	1	1	1	1	1
Mizoram	1	15	18	20	19	39	95	108
Nagaland	1	13	37	68	69	59	60	99
Orissa	2032	1559	1931	2915	3958	5540	6553	8272
Punjab	3410	3474	3615	5152	6326	8059	9221	10487
Rajasthan	6332	5624	7592	11681	13508	17136	22033	24963
Tamil Nadu	21818	19083	21673	31130	39450	51775	61016	73144
Tripura	115	203	256	287	264	293	336	321
Uttar Pradesh	15269	16334	17680	22682	28995	36339	40387	46152
West Bengal	11322	10447	11524	16624	18991	23671	29452	34294
Goa	1717	1568	1373	2005	2367	3502	4994	6746
Sikkim	-	-	-	-	-	-	-	37
(b) Union Territories								
Chandigarh	39	41	67	61	61	62	79	106
Delhi	4259	4420	4497	6160	7829	8914	10194	12667
Pondicherry/ Mane	-	17	20	-	2	39	6	16
Total (3)	**168626**	**160364**	**184685**	**247832**	**322478**	**429640**	**500192**	**580772**
Grand Total	**188808**	**187075**	**210760**	**282441**	**365321**	**472712**	**554057**	**627428**

*= Central Govt. Source : Compiled from Receipts of Individual companies.

(xvi) TRANSPORTATION

Tonnage of Indian Tankers Fleet

(DWT in '000' Mts.)

YEAR *	COASTAL OIL TANKER				TOTAL COASTAL OIL TANKER		OFFSHORE SUPPLY VESSELS		SPECIALISED VESSELS FOR OFFSHORE		TOTAL OFFSHORE SUPPLY VESSELS & SPECIALISED VESSELS FOR OFFSHORE		OVERSEAS								OVERSEAS (TOTAL)		TOTAL ALL TANKER	
	PRODUCT CARRIERS		CRUDE OIL CARRIERS										ORE OIL BULK		CRUDE OIL CARRIERS		PRODUCT CARRIERS		LPG CARRIERS					
	No.of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No.of Tanker	DWT	No.of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1975	-	-	-	-	9	137.6	-	-		-		-		-	-	-	-	-	-	-	31	2420.0	40	2557.6
1976	-	-	-	-	9	137.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	3078.0	45	3215.6
1977	-	-	-	-	9	137.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	3108.9	46	3246.1
1978	-	-	-	-	8	126.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	3444.5	48	3571.3
1979	-	-	-	-	9	132.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	3424.0	48	3556.9
1980	-	-	-	-	10	158.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	3335.3	48	3493.8
1981	-	-	-	-	16	247.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	3364.0	55	3611.7
1982	-	-	-	-	18	300.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	3518.8	60	3819.4
1983	-	-	-	-	18	300.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	3482.1	59	3782.7
1984	-	-	-	-	18	300.6	-	-	-	-	-	-	-	-	-	-	-	-	-		49	3976.6	67	4277.2
1985	-	-	-	-	18	300.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	3807.0	66	4113.1
1986	-	-	-	-	18	306.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	3592.9	66	3899.0
1987	-	-	-	-	18	306.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	3592.9	66	3899.0
1988	-	-	-	-	18	306.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	3557.6	69	3863.7
1989**	13	185.6	2	82.3	15	267.9	57	73.1	25	49.7	82	122.8	9	988.9	22	2121.2	25	575.5	-	-	56	3685.6	153	4076.3
1990	13	185.6	2	82.2	15	267.8	57	69.7	30	70.5	87	140.2	9	990.5	22	2121.2	25	601.5	-	-	56	3713.2	158	4121.2
1991	14	186.1	2	82.2	16	268.3	63	75.9	31	70.7	94	146.6	9	990.5	23	2206.4	25	601.5	1	17.0	58	3815.4	168	4230.3
1992	15	217.0	2	82.2	17	299.2	63	75.9	32	70.8	95	146.7	8	889.0	23	2206.4	25	601.4	2	34.7	58	3731.5	170	4177.4
1993	11	144.9	2	82.2	13	227.1	67	84.9	33	61.9	100	146.8	3	312.0	25	2441.0	34	1065.6	2	34.7	64	3853.3	177	4227.2
1994	11	144.9	2	82.2	13	227.1	73	91.9	27	61.2	100	153.1	3	312.0	29	3052.0	31	839.9	2	34.7	65	4238.6	178	4618.8

* : As on 31st December of each year.

** : As on 31st March of each year from 1989 onwards.

Source: Directorate General Shipping, Bombay

INDIAN TANKER FLEET OFFSHORE SUPPLY VESSELS AS ON 31.03.1994 COASTAL OIL TANKERS, PRODUCT/CRUDE OIL CARRIERS TANKERS (Product Carriers)

Owner/Name of the Ship	Year of Built	G.R.T. (Tonnes)	D.W.T. (Tonnes)
1	2	3	4
COASTAL TRADE			
TANKERS (Product Carriers)			
A. The Shipping Corpn. of India Ltd. Bombay			
1. m.t. Visveswaraya	1973	11094	16450
2. m.t. Bhagat Singh	1974	10759	16540
3. m.t. Sarojini Naidu	1975	10759	16440
4. m.t. Rafi Ahmed Kidwai	1975	15035	24439
5. m.t. Jai Narayan Vyas	1975	15035	24529
		62682	**98398**
B. M/s Varun Shipping Co. Ltd. Bombay			
6. m.t. Vayudoot	1980	3924	7012
C. M/s. Essar Shipping Ltd., Bombay			
7. m.t. Nand Prakriti	1975	18307	30465
D. M/s. Sagar Lines (India) Pvt. Ltd., Calcutta			
8. m.t. Sagar Tarani	1965	497	712
E. M/s Seatrans Shipping Co. Ltd., Bombay			
9. m.t. Raj Sevak	1966	750	1200
F. The Shipping Credit & Investment Co. of India Ltd., Bombay.			
10. m.t. Nand Smiti	1982	4275	6600
G. Jaisu Shiping (P) Ltd.			
11. m.t. Al-Nions	1976	298	508
Total 11 Vessels		**90733**	**144895**
TANKERS (Crude Oil Carriers)			
A. The Shipping Corpn. of India Ltd, Bombay			
1. m.t. C.V. Raman	1981	27484	41123
2. m.t. Homi Bhabha	1982	27489	41126
Total 2 Vessels		**54973**	**82249**

Contd.....

Owner/Name of the Ship	Year of Built	G.R.T. (Tonnes)	D.W.T. (Tonnes)
1	2	3	4
OFFSHORE SUPPLY VESSELS			
A. M/s. Garware Shipping Corpn. Ltd., Bombay			
1. m.v. Garware-I	1983	881	1050
2. m.v. Garware-II	1983	881	1050
3. m.v. Garware-III	1984	881	1050
4. m.v. Garware-IV	1984	881	1050
5. m.v. Garware-V	1984	881	1050
		4405	**5250**
B. The Great Eastern Shipping Co. Ltd., Bombay			
6. m.v. Malaviya One	1983	869	1073
7. m.v. Malaviya two	1983	870	1084
8. m.v. Malaviya Three	1984	1084	1251
9. m.v. Malaviya Four	1984	1085	1242
10. m.v. Malaviya Five	1980	650	993
11. m.v. Malaviya Six	1981	650	993
12. m.v. Malaviya Seven	1982	985	1035
13. m.v. Malaviya Eight	1982	985	1035
14. m.v. Malaviya Nine	1983	1351	1517
		8529	**10223**
C. M/s. Essar Shipping Ltd., Bombay			
15. m.v. Nand Godavari	1984	1313	1751
16. m.v. Nand Panna	1984	1313	1751
17. m.v. Nand Krishna	1984	1313	1751
18. m.v. Nand Heera	1984	1313	1751
		5252	**7004**
D. M/s India Securities Ltd., Madras			
19. m.v. Nand Cauvery	1984	1299	1868
E. M/s. VNS Offshore Services Company, Bombay			
20.m.v. Kansi Namrata	1969	487	737
F. M/s. Hede Ferromina Pvt. Ltd., Goa.			
21. m.v. Ferromina Harvest	1971	629	759
G. M/s. Varun Shipping Co. Ltd., Bombay.			
22. m.v. Neel Kamal	1983	999	1084
23. m.v. Neel Akash	1984	999	1086
24. m.v. Neel Nidhi	1983	1577	1085
25. m.v. Neel Jalini	1983	1577	1085
		5152	**4340**

Contd.....

Owner/Name of the Ship	Year of Built	G.R.T. (Tonnes)	D.W.T. (Tonnes)
1	2	3	4
H. The Shipping Corpn. of India. Ltd., Bombay.			
26. m.v. Feroze Gandhi	1984	1310	1758
27. m.v. O.P. Srivastava	1984	1310	1758
28. m.v. SCI-01	1984	1310	1775
29. m.v. SCI-02	1984	1310	1776
30. m.v. SCI-03	1984	1310	1771
31. m.v. SCI-04	1984	1310	1812
32. m.v. SCI-05	1984	1310	1819
33. m.v. SCI-06	1984	1310	1817
34. m.v. Capt. F.M. Juvale	1985	1310	1809
35 m.v. Dr. Nagendra Singh	1985	1310	1817
		13100	**17912**
I. Oil & Natural Gas Commission, Bombay.			
36. m.v. Sindhu-01	1984	1310	1450
37. m.v. Sindhu-02	1985	1310	1450
38. m.v. Sindhu-03	1985	1310	1450
39. m.v. Sindhu-04	1986	1310	1450
40. m.v. Sindhu-05	1985	1302	1450
41. m.v. Sindhu-06	1985	1302	1450
42. m.v. Sindhu-07	1985	1302	1450
43. m.v. Sindhu-08	1985	1302	1450
44. m.v. Sindhu-09	1985	1302	1450
45. m.v. Sindhu-10	1985	1302	1450
46. m.v. Sindhu-11	1985	1302	1450
47. m.v. Sindhu-12	1985	1302	1450
48. m.v. Sindhu-14	1987	1310	1450
49. m.v. Sindhu-15	1992	1323	1450
50. m.v. Sindhu-16	1993	1323	1450
51. m.v. Sindhu-17	1993	1323	1450
52. m.v. Samudrika-01	1986	949	950
53. m.v. Samudrika-02	1986	949	950
54. m.v. Samudrika-03	1986	949	950
55. m.v. Samudrika-04	1985	949	950
56. m.v. Samudrika-05	1986	949	950
57. m.v. Samudrika-06	1986	949	950
58. m.v. Samudrika-07	1987	949	950
59. m.v. Samudrika-08	1986	949	950
60. m.v. Samudrika-09	1986	949	950
61. m.v. Samudrika-10	1986	949	950
62. m.v. Samudrika-11	1986	949	950
63. m.v. Samudrika-12	1986	949	950
64. m.v. Samudrika-14	1986	949	950
65. m.v. Samudrika-15	1985	949	950
66. m.v. Samudrika-16	1985	949	950
67. m.v. Samudrika-17	1985	949	950
68. m.v. Samudrika-18	1985	949	950
69. m.v. Sagarika-01	1976	671	933
70. m.v. Sagarika-02	1976	671	933
		38410	**41216**
J. M/s Mazgaon Dock Ltd.			
71. m.v. Suvidha	1983	1310	1585
72. m.v. Mahavir	1975	11443	
		12753	**1585**
K. Admn. of Union Territory of Lakshadweep			
73. m.v. Thinnakara	1993	738	960
Total 73 Vessels		**90754**	**91854**

Contd.....

Owner/Name of the Ship	Year of Built	G.R.T. (Tonnes)	D.W.T. (Tonnes)
1	2	3	4

SPECIALISED VESSELS FOR OFFSHORE SERVICES

A. M/s Infrastructure Leasing and Financial Services Ltd., Bombay			
1. m.v. Nand Rachit (DSV)	1980	1548	1200
B. M/s Essar Shipping Ltd., Bombay			
2. m.v. Essar Discoverer	1977	5971	5300
3. m.v. Essar Stena-I	1981	4485	2970
		10456	**8270**
C. M/s Pearless Private Ltd.			
4. m.v. Nand Shamik	1982	3964	1430
5. m.v. Nand Rewant (MSV)	1984	3966	2067
		7930	**3497**
D. M/s. Underwater Services Co. Pvt. Ltd. Bombay.			
6. m.v. Ocean Pearl (SRSM)	1966	482	670
E. M/s. Oil & Natural Gas Commission, Bombay.			
7. m.v. Samudra Nidhi (MSV)	1985	2995	2189
8. m.v. Samudra Sarvekshak (NDT)	1986	3444	552
9. m.v. Samudra Prabha (NDT)	1986	4018	2124
10. m.v. Sagar Sanchani (Research)	1986	1500	2145
11. m.v. Anweshak	1974	715	1469
12. m.v. Sagar Vijay (Drillship)	1985	11103	9239
13. m.v. Samudra Suraksha	1982	5006	4348
14. m.v. Sagar Bhushan	1987	11103	9239
15. m.v. Sagarika-IV	1983	4207	1096
16. m.v. Sagar Samrat	1973	4186	6398
		48277	**38799**
F. M/s. Bombay Offshore Supplies & Services Bombay.			
17. m.v. Boss-1 (AHT)	1982	491	407
G. M/s. South India Corpn. (Agencies) Ltd., Madras			
18. m.v. Sagar Sevak	1972	490	860
H. M/s Jaisu Shipping Co. (P) Ltd.			
19. m.v. Noorani Sea Horse	1970	99	99
20. m.v. Sagar Deep	1983	2775	1568
21. m.v. Paradeep	1984	602	162
		3476	**1829**

Contd.....

Owner/Name of the Ship	Year of Built	G.R.T. (Tonnes)	D.W.T. (Tonnes)
1	2	3	4
I. The Geological Survey of India.			
22. m.v. Samudra Manthan (S. Research)	1985	2374	1825
23. m.v. Samudra Kaustubh	1985	284	94
24. m.v. Samudra Saudhikama	1985	284	94
		2942	**2013**
J. The Council of Scientific & Industrial Research			
25. m.v. Gaveshani	1964	1634	873
26. m.v. Sagar Sampada	1984	2661	800
		4295	**1673**
K. M/s. Pearless Drive			
27. DSV Drive Ocean	1983	2248	2001
Total 27 Vessels		**82635**	**61219**
OVERSEAS			
ORE OIL BULK CARRIERS			
A. The Shipping Corpn. of India Ltd., Bombay.			
1. m.v. Maharshi Dayanand	1978	66926	123450
2. m.v Maharshi Karve	1978	66926	123450
		133852	**246900**
B. M/s Essar Shipping Ltd., Bombay			
3. m.v. Nand Shivchand	1982	37813	65075
Total 3 Vessels		**171665**	**311975**

Contd.....

Owner/Name of the Ship	Year of Built	G.R.T. (Tonnes)	D.W.T. (Tonnes)
1	2	3	4

OIL TANKERS (CRUDE CARRIERS)

A. The Shipping Corpn. of India Ltd., Bombay			
1. m.t. Subedar Joginder Singh PVC	1984	37855	67137
2. m.t. Major Dhan Singh Thapa PVC	1984	37855	67153
3. m.t. Naik Jadunath Singh PVC	1984	37855	67169
4. m.t. Company Havildar Major Piru S. PVC	1984	37855	67161
5. m.t. Capt. Gurbachan Singh Salaria PVC	1984	37855	67161
6. m.t. Lance naik Karam Singh PVC	1984	37855	67185
7. m.t. Major Saitan Singh PVC	1985	37855	67185
8. m.t. Major Somnath Sharma PVC	1984	37855	67225
9. m.t. Havildar Abdul Hamid PVC	1985	37855	67185
10. m.t. Col. Ardshir Burzorji Tarapore, PVC	1985	37855	67124
11. m.t. Lt. Rama Raghoba Rane, PVC	1984	37855	67227
12. m.t. Vivekananda	1974	51717	89371
13. m.t. Satyamurthi Chawra	1975	51733	89351
14. m.t. Netaji Subhas Bose	1975	51525	89392
15. m.t. Lok Manya Tilak	1973	51535	89411
16. m.t. B.R.Ambedkar	1974	51718	89454
17. m.t. Chattrapati Shivaji	1974	51718	89490
18. m.t. Rajendra Prasad	1975	63460	115723
19. m.t. Kanchanjunga	1975	138920	276755
20. m.t. Koyali	1976	139820	276800
21. m.t. Motilal Nehru	1990	51778	85200
22. m.t. Jawaharlal Nehru	1990	51747	85422
		1172976	**2115281**
B. M/s. Ratnakar Shipping Co. Ltd., Calcutta.			
23. m.t. Ratna Abha	1982	40614	60300
C. M/s Great Eastern shipping co.			
24. m.t. Jag Laxmi	1976	66723	122146
25. m.t. Jag Ladki	1992	78710	145242
		145433	**267388**
D. M/s Essar Shipping Ltd., Bombay			
26. m.t. Shravan	1991	79718	153000
27 m.t. Kamlesh	1991	79798	153000
28. m.t. Nand Ishwari	1991	79798	153000
29. m.t. Kishore	1992	79798	153000
		313872	**609000**
Total 29 Vessels		**1672895**	**3051969**

OIL TANKERS (PRODUCT CARRIERS)

A. The Shipping Corpn. of India Ltd., Bombay.			
1. m.t. Dadabhai Nauroji	1977	15045	24400
2. m.t. Aurobindo	1976	15045	24411
3. m.t. Kalandia	1976	15045	24490
4. m.t. Major Hoshiar Singh PVC	1985	28704	45421
5. m.t. Lance Naik Albert Ekka	1985	28704	45473
6. m.t. Flying Officer Nirmal Jit Singh Shekhawat PVC	1985	28704	45485
7. m.t. Lt. Arun Khetarpal	1985	28704	45453
8. m.t. Rabindranath Tagore	1993	26481	43900
9. m.t. Bankimchandra Chatterjee	1994	26474	45135
		212906	**344168**

Contd.....

Owner/Name of the Ship	Year of Built	G.R.T. (Tonnes)	D.W.T. (Tonnes)
1	2	3	4
B. The Great Eastern Shipping Co. Ltd., Bombay.			
10. m.t. Jag Prakash	1974	15489	25080
11. m.t. Jag Palak	1985	18542	26970
12. m.t. Jag Preeti	1981	21206	28679
13. m.t. Jag Pari	1982	20991	28679
14. m.t. Jag Priya	1975	20415	32360
15.m.t. Jag Prabhat	1985	18542	26967
16. m.t. Jag Pragati	1985	18542	26970
17. m.t. Jag Prabhu	1978	4357	7261
18. m.t. Jag Padma	1982	27771	47048
		165855	**250014**
C. M/s. Varun Shipping Co. Ltd., Bombay.			
19. m.t. Vijaydoot	1984	4462	7313
20. m.t. Vishwadoot	1982	18959	29999
21. m.t. Hansdoot	1983	4462	7334
22. m.t. Shaktidoot	1982	17751	29999
23. m.t. Jaldoot	1984	22989	34247
		68623	**108892**
D. M/s. Essar Shipping Ltd., Bombay.			
24. m.t. Nand Kala	1992	3827	6702
25. m.t. Nand Kishore	1981	13906	19602
26. m.t. Nand Hari	1981	11135	19604
27. m.t. Nand Vasu	1983	25692	39701
		54560	**85609**
E. M/s. Century Shipping, Bombay.			
28. m.t. Aditya Vikram	1981	3850	7070
29. m.t. Aditya Vardhan	1983	4749	7985
30. m.t. Aditya Vijay	1981	16899	29990
		25498	**45045**
F. M/s. Continental Shipping Corpn. Ltd., Bombay.			
31. m.t. Continental Bose	1981	3467	6157
Total 31 Vessels		**530909**	**839885**

LPG CARRIERS

A. The Shipping Corpn. of India Ltd., Bombay			
1. m.v. Nanga Parbat	1990	17600	17035
2. m.v. Anna Purna	1991	17778	17652
		35378	**34687**

Contd.....

SHARE OF TRAFFIC OF PETROLEUM PRODUCTS IN THE TOTAL TRAFFIC HANDLED AT MAJOR PORTS DURING 1969-70 TO 1993-94

(Million Tonnes)

Name of the Port	Year	Total Traffic	POL Traffic	POL as %age of total Traffic at the port
1	2	3	4	5
Calcutta/Haldia*	1969-70	6.89	1.53	22.5
	1979-80	8.56	4.58	53.5
	1982-83	10.5	4.59	43.7
	1983-84	10.28	4.75	46.2
	1984-85	10.19	5.02	49.3
	1985-86	12.13	6.06	50.0
	1986-87	12.07	5.91	49.0
	1987-88	13.07	6.19	47.7
	1988-89	14.22	6.47	45.5
	1989-90	14.45	6.44	44.6
	1990-91	15.24	7.26	47.6
	1991-92	16.00	7.69	48.1
	1992-93	18.34	8.94	48.7
	1993-94*	18,47	8.66	46.9
Bombay	1969-70	15.04	8.60	57.2
	1979-80	16.57	7.84	47.3
	1982-83	24.85	16.91	68.0
	1983-84	24.74	16.65	67.3
	1984-85	25.20	16.93	67.2
	1985-86	24.26	15.47	63.8
	1986-87	25.06	15.52	61.0
	1987-88	28.65	19.01	66.3
	1988-89	28.70	18.41	64.2
	1989-90	28.55	18.58	65.1
	1990-91	29.79	19.89	66.8
	1991-92	27.21	19.76	72.6
	1992-93	29.02	20.05	69.1
	1993-94*	31.04	21.05	67.8
Madras	1969-70	6.44	2.24	34.8
	1979-80	9.99	3.73	37.3
	1982-83	12.41	5.81	46.8
	1983-84	13.32	6.58	49.4
	1984-85	15.01	6.93	46.2
	1985-86	18.15	8.93	49.2
	1986-87	19.78	10.31	52.1
	1987-88	22.02	12.23	53.6
	1988-89	23.86	10.76	45.1
	1989-90	23.94	9.72	40.6
	1990-91	24.52	9.83	40.1
	1991-92	25.05	10.08	40.2
	1992-93	25.33	9.73	38.4
	1993-94*	26.54	10.94	41.2
Cochin	1969-70	4.79	3.56	74.3
	1979-80	5.47	3.87	70.8
	1982-83	5.72	4.33	75.7
	1983-84	5.13	3.80	74.1
	1984-85	3.92	2.63	67.1
	1985-86	5.11	3.83	75.0
	1986-87	6.88	5.45	79.2
	1987-88	6.80	5.37	79.0

Contd.....

Name of the Port	Year	Total Traffic	POL Traffic	POL as %age of total Traffic at the port
1	2	3	4	5
	1988-89	7.82	6.27	80.2
	1989-90	7.13	5.59	78.4
	1990-91	7.28	5.80	79.7
	1991-92	7.48	5.88	78.6
	1992-93	7.98	6.22	77.9
	1993-94*	7.62	6.05	79.4
Kandla**	1969-70	2.11	0.98	46.4
	1979-80	7.27	5.45	75.0
	1982-83	12.65	10.74	84.9
	1983-84	14.16	11.36	80.2
	1984-85	15.75	11.94	75.8
	1985-86	16.49	12.34	74.9
	1986-87	16.19	11.93	74.9
	1987-88	18.08	13.09	72.4
	1988-89	17.81	13.08	73.4
	1989-90	18.93	14.36	75.9
	1990-91	19.69	15.06	76.5
	1991-92	21.00	16.50	78.6
	1992-93	22.91	17.95	78.4
	1993-94*	24.50	18.16	74.1
J.N.P.T.	1989-90	0.70	-	-
	1990-91	2.03	-	-
	1991-92	2.80	-	-
	1992-93	3.01	-	-
	1993-94*	3.39	-	-
Vishakapatnam	1969-70	8.30	1.94	23.4
	1979-80	10.23	1.94	19.0
	1982-83	10.18	2.10	20.6
	1983-84	11.35	4.03	35.5
	1984-85	12.87	4.47	34.7
	1985-86	15.91	6.27	39.4
	1986-87	15.04	5.31	35.3
	1987-88	15.37	5.57	36.2
	1988-89	20.37	6.99	34.3
	1989-90	21.12	6.83	32.3
	1990-91	19.42	5.60	28.8
	1991-92	21.52	6.38	29.6
	1992-93	22.77	7.59	33.3
	1993-94*	25.60	8.90	34.8
Mormugao	1969-70	9.03	0.15	1.1
	1979-80	14.80	0.73	4.9
	1982-83	12.76	0.78	6.1
	1983-84	13.22	1.02	7.7
	1984.85	14.51	0.90	6.2
	1985-86	16.10	0.98	6.1
	1986-87	14.92	0.78	5.4
	1987-88	13.33	1.13	8.5
	1988-89	15.39	1.30	8.5
	1989-90	14.17	1.04	7.3
	1990-91	14.91	1.37	9.2
	1991-92	15.10	1.87	12.4
	1992-93	16.31	1.79	11.0
	1993-94*	18.71	2.10	11.2

Contd.....

Name of the Port	Year	Total Traffic	POL Traffic	POL as %age of total Traffic at the port
1	2	3	4	5
Paradip	1969-70	1.75	-	-
	1979-80	2.31	-	-
	1982-83	1.81	-	-
	1983-84	1.59	-	-
	1984-85	2.14	-	-
	1985-86	3.33	-	-
	1986-87	4.85	-	-
	1987-88	5.19	-	-
	1988-89	6.03	-	-
	1989-90	6.18	-	-
	1990-91	6.88	-	-
	1991-92	7.30	0.02	0.3
	1992-93	7.61	0.20	2.6
	1993-94*	8.33	0.35	4.2
Port of Tuticorin	1977-78	0.63	0.35	55.6
	1979-80	2.41	0.44	18.3
	1982-83	3.23	0.52	16.1
	1983-84	3.55	0.43	13.5
	1984-85	3.77	0.51	13.5
	1985-86	4.22	0.34	8.1
	1986-87	4.15	0.33	7.2
	1987-88	4.26	0.37	9.4
	1988-89	5.14	0.48	9.3
	1989-90	5.32	0.48	9.0
	1990-91	5.08	0.47	9.3
	1991-92	5.87	0.50	8.5
	1992-93	6.21	0.51	8.2
	1993-94*	6.70	0.46	6.9
New Mangalore	1977-78	0.38	0.20	52.6
	1979-80	0.90	0.21	23.3
	1982-83	2.27	0.35	15.4
	1983-84	2.84	0.35	12.3
	1984-85	3.38	0.44	13.0
	1985-86	3.69	0.41	11.1
	1986-87	5.43	0.53	9.8
	1987-88	6.11	0.46	8.2
	1988-89	7.08	0.57	7.3
	1989-90	7.66	0.58	7.6
	1990-91	8.03	0.61	7.6
	1991-92	8.27	0.62	7.5
	1992-93	7.09	0.63	8.9
	1993-94*	8.63	0.65	7.5
Grand Total	1969-70	54.35	19.02	35.0
	1977-78	66.23	26.21	39.6
	1979-80	78.49	28.78	36.7
	1982-83	96.12	46.16	48.0
	1983-84	100.18	48.97	48.9
	1984-85	106.74	49.77	46.6
	1985-86	120.04	54.63	45.5
	1986-87	124.37	56.10	45.1
	1987-88	133.68	63.15	47.2
	1988-89	146.43	64.33	43.9
	1989-90	148.14	63.60	42.9
	1990-91	152.86	65.88	43.1
	1991-92	157.60	69.30	44.0
	1992-93	166.58	73.61	44.2
	1993-94*	179.53	77.32	43.1

SOURCE : Ministry of Surface Transport, Port Study Cell.
NOTE : Traffic handled includes transhipment cargo also.
** = Kandla Pol traffic includes traffic handled at Vadinar
* = Provisional

MOVEMENT OF POL TRAFFIC ON RAILWAYS SINCE 1970-71

YEAR	Tonnes Originating ('000' MTS)	Earnings ('000'Rs.)	Average Lead (Kms)	Earning (Paise/ Tonnes Kms)	Average Freight Col 3 Divided Col 2 Rs/ Tonnes.
1	2	3	4	5	6
1970-71	8857	464081	594	8.8	52.40
1971-72	10063	523049	593	8.8	51.98
1972-73	10181	550982	614	8.8	54.12
1973-74	9994	555560	638	8.7	55.59
1974-75	10751	723192	642	10.5	67.27
1975-76	11663	860925	605	12.2	73.82
1976-77	12395	1038462	609	13.8	83.78
1977-78	13062	1120693	631	13.6	85.80
1978-79	14301	1324332	698	13.3	92.60
1979-80	14266	1497510	729	14.4	104.97
1980-81	14954	1835693	780	15.7	122.76
1981-82	16555	2848050	731	23.5	172.04
1982-83	17342	3588169	647	32.0	206.91
1983-84	17949	4052635	597	37.8	225.79
1984-85	18169	4157626	563	40.6	228.83
1985-86	18635	4705145	588	42.9	252.49
1986-87	19853	5395900	588	46.2	271.79
1987-88	21690	7175776	635	52.1	330.83
1988-89	22598	7639458	626	54.0	338.06
1989-90	24313	9135273	645	58.3	375.74
1990-91	24988	9617393	605	63.6	384.88
1991-92	25555	10264888	606	66.3	401.68
1992-93	26412	11733798	603	73.7	444.26
1993-94(P)	25950	14596012	613	91.8	562.47

SOURCE : Railway Board. (P) : Provisional

RAIL FREIGHT RATES IN RESPECT OF PETROLEUM PRODUCTS

(RS./KL)

Effective Dates	Distance in kilometres							
	100	300	500	800	1000	1500	2000	2500
1	2	3	4	5	6	7	8	9
				DANGEROUS (POL-PRODUCTS)				
01.04.1982	71.4	143.3	207.6	357.2	425.5	584.4	729.2	828.0
01.04.1983	78.0	175.2	267.0	393.9	478.5	655.5	796.5	919.5
15.04.1985	78.0	175.2	267.0	433.3	526.4	721.1	876.2	1011.5
01.12.1986	84.3	203.4	326.6	522.1	639.6	814.6	1123.2	1284.2
01.04.1988	89.4	215.6	346.2	553.4	678.0	969.5	1190.6	1361.8
01.04.1989	99.2	239.3	384.3	614.3	752.6	1076.1	1321.6	1511.6
01.04.1990	106.1	256.1	411.2	567.3	805.3	1151.4	1414.1	1617.4
01.10.1990	109.1	263.2	422.7	675.7	827.9	1183.7	1453.8	1662.8
16.08.1991	120.0	289.5	465.0	743.3	910.7	1302.1	1599.2	1829.1
01.04.1992	129.0	311.2	499.9	799.0	979.0	1399.8	1719.1	1966.3
01.04.1993	141.9	342.3	549.9	894.9	1096.5	1567.8	1925.4	2202.3
01.04.1994	141.9	347.0	579.4	929.3	1163.4	1684.4	2090.2	2390.8
				NON-DANGEROUS (POL-PRODUCTS)				
01.06.1982	53.5	106.3	153.5	263.6	313.5	430.4	530.5	609.0
01.06.1983	59.2	130.5	197.8	290.9	352.9	482.7	586.1	676.3
01.06.1984	63.9	141.7	215.1	316.6	384.3	525.9	638.7	737.1
15.04.1985	63.9	141.7	215.1	348.3	422.7	578.5	702.6	810.8
11.12.1986	69.1	164.5	263.2	419.7	513.6	733.7	900.6	1029.8
01.04.1988	78.5	188.5	301.4	481.0	588.9	841.6	1033.2	1181.6
01.04.1989	87.2	208.7	334.5	533.9	653.7	934.2	1146.8	1311.6
01.04.1990	93.3	223.3	357.9	571.3	699.5	999.6	1227.1	1403.4
01.10.1990	95.9	229.6	368.0	587.3	719.1	1027.6	1261.5	1442.8
16.08.1991	105.5	252.6	404.8	646.0	791.0	1130.4	1387.7	1587.1
01.04.1992	109.5	261.7	409.0	668.4	818.2	1169.2	1435.1	1641.2
01.04.1993	133.4	320.4	514.5	836.4	1024.1	1464.2	1798.2	2056.5
01.04.1994	133.4	324.8	542.1	868.5	1086.6	1573.2	1952.1	2232.5

Note : Dangerous POL- Include Motor Spirit, Benzene, and other dangerous mineral oils.
Non-Dangerous Pol-Include HSDO, LDO and other Petroleum & Hydrocarbon oil (Except Kerosene oil).

Source : Railway Board.

CRUDE OIL, NATURAL GAS & PRODUCT PIPELINES IN INDIA AS ON 1.4.1994

Pipelines	Owned by	Length In Kms.	Diametre In Inches/mm
1	2	3	4
1. CRUDE PIPELINES (ONSHORE)			
Ankleshwar-Koyali (Baroda)	ONGC	94.77	16"
Kalol-Nawaga	ONGC	48.90	12-3/4"
Nawagam-Koyali	ONGC	77.63	14"
Sanand-Kalol	ONGC	12.52	8-5/8"
Sobhashan-North Kadi	ONGC	20.23	8-5/8"
North Kadi-Kalol	ONGC	35.59	12-3/4"
Jhalora - Sanand	ONGC	9.36	8-5/8"
Lahwa-Moran	ONGC	17.50	12-3/4"
Rudrasagar-Lakwa	ONGC	38.00	8-5/8"
Geleki-Dikhow	ONGC	18.90	8-5/8"
Goleki-Jorhat	ONGC	48.40	14"
Borhollah-Jorhat pipelines	ONGC	42.80	12-3/4"
Nada to GNAQ	ONGC	23.00	8"
Lanwa to Balol	ONGC	14.50	12"
Nawagam to Koyali (Vaded to Akhdol Section)	ONGC	23.30	18"
GNAQ to Jambusar Junction Point	ONGC	12.70	8"
North Kadi kalol GGS-I to S.Kadi CTF	ONGC	5.10	12-3/4"
Santhal CTF to North Kadi	ONGC	4.52	12-3/4"
Jotana GGS-I to Santhal CTF	ONGC	2.73	4-1/2"
Viraj GGS-I to South Kadi CTF	ONGC	5.83	8-5/8"
Geleki-Dikhu Junction Point	ONGC	17.80	12-3/4"
Nawagam to Koyali	ONGC	79.33	450mm
GGS-I to GGS-XI Kalol	ONGC	4.55	200mm
IPS of KNK pipeline to IVP of 18"dia Nawagam-Koyali pipeline	ONGC	1.50	350mm
Lanwa-INSITU project to Lanwa GGS-I	ONGC	4.50	300mm
Narimanam-Nagapattinam	ONGC	14.00	206.40mm
Tondiarpet to Madras Refinery	ONGC	5.00	206.40mm
Becharaji GGS to Mehsana CTF	ONGC	20.50	18"
Lanwa Insitu Plant to Lanwa EPS-II	ONGC	1.70	12"
Nawagam to Koyali	ONGC	0.80	18"
GNBI to GGS-IV	ONGC	4.20	2"
Dahej to Gandhar GGS-IV	ONGC	10.00	4"
T connection from the pipeline running in between Narimanam GGS/CTF to Nagapatnam Oil Terminal to Panangudi (MRL) refinery	ONGC	2.50	8"
Dikom-Duliajan	OIL	6.00	200mm
Dikom-Duliajan	OIL	22.50	250mm
Digboi oilfield-Digboi Refinery	OIL	12.50	6"
Digboi oilfield-Digboi Refinery	OIL	10.40	4"
Nahorkatiya-Digboi	OIL	35.00	8"
Nahorkatiya-Gauhati loopline	OIL	100.00	16"
Nahorkatiya-Gauhati	OIL	401.00	16"
Gauhati-Barauni	OIL	757.00	14"
Gauhati-Barauni loopline	OIL	112.00	16"
Kumchai to Borduṃsa	OIL	23.00	6"
Shalmari to Moran	OIL	28.00	200mm
Hapjan to Kathalguri OCS	OIL	10.00	200mm
Nararabet to Salaya Tank Farm 2 lines	IOC	5.30 each	42"
Salaya-Viramgam	IOC	275.00	28"
Viramgam-Koyali	IOC	141.00	18"
Viramgam-Mathura	IOC	803.00	24"
Total Onshore		**3469.68**	

Contd.....

CRUDE OIL, NATURAL GAS & PRODUCT PIPELINES IN INDIA AS ON 1.4.1994

Pipelines	Owned by	Length In Kms.	Diametre In Inches/mm
1	2	3	4
II. CRUDE PIPELINES (OFFSHORE)		**530.97**	
Heera-Uran	ONGC	80.61	24"
BH (platform F) to Uran	ONGC	203.00	30"
Uran-Trombay	ONGC	24.00	36"
Trombay-Bhutcher Island	ONGC	4.40	36"
HRA-R-12	ONGC	38.92	12"
Gandhar-Saraswani	ONGC	55.00	12"
Nawagam-Jhalora-Kalol	ONGC	55.00	14"
GNAQ- Junction Point of Gandhar Saraswani	ONGC	15.00	4"
Nada-GANQ	ONGC	25.00	4"
BPA-BH-URAN	ONGC	15.97	12"
ICP-BHS	ONGC	8.37	12"
SBM to Nararabet	IOC	5.70	42"
III. GAS PIPELINES (ONSHORE)		**3186.51**	
Sanand-Kalol	ONGC	12.67	6-5/8"
Jhalora GGS-I to Sanand GGS-2	ONGC	9.27	8-5/8"
Jotna GGS-1 to Santhal CTF TO N. Kadi GGS-1	ONGC	7.17	8-5/8"
Motwan to Ajkeleshwar CTF	ONGC	2.89	8-5/8"
Ramol GCS to Nawagam CTF	ONGC	17.45	6-5/8"
Nawagam CTF to Amul Diary CTF	ONGC	50.00	4-1/2"
Narsapur-Palakollu	ONGC	12.20	8"
South Santhal CTF to Lanwa EPS-1	ONGC	27.50	4"
Sanand GGS-I to GGS-2	ONGC	5.00	8"
Dahej to Gandhar Via Pakhajan	ONGC	26.50	8"
Sobhasan GGS-1 to S. Santhal CTF	ONGC	4.50	12"
Sobhasan GGS-2 to S. Santhal CTF	ONGC	4.20	12"
Kalol GGS-1 to Kalol GGS-7	ONGC	2.54	8"
Kalol GGS-I to GGS-XI	ONGC	4.55	200mm
Kalol GGS-I to XI	ONGC	4.55	100mm
Kalol GGS-I to Kalol GCS cum CTF	ONGC	5.00	300mm
GSS to GCS	ONGC	11.00	350mm
Bharuch City Gas line	ONGC	5.00	100mm
ND Gas pipeline for M/s GACL	ONGC	5.00	100mm
Galeki GGS-II to DJP	ONGC	18.00	12"
Kalol GGS-3 to GGS-5 Junction Point	ONGC	3.10	12"
Kolol GGS-9 to GGS-4	ONGC	3.35	8"
Kalol GGS-1 to GGS-7	ONGC	3.30	8"
Nada GGS to GNAO	ONGC	20.11	8-5/8"
Gandhar GGS-IV to Gandhar GGS III	ONGC	10.00	12"
Mullar 'T' point to Gandhar CTF	ONGC	9.30	14"
Sobhasan CTF to SouthSanthal CTF	ONGC	18.39	14"
Cambay-Dhuvaran	GAIL	25.00	14"
Ankleshwar-Uttaran	GAIL	38.25	16"
Ankleshwar-Baroda	GAIL	96.55	14"
Nawagam-Calico Gas Line (NCGL)	GAIL	24.55	8"
Kalol-IFFCO	GAIL	2.50	8"
Kalol-IFFCO	GAIL	2.50	12"
Sobhashan-Dudh Sagar Dairy	GAIL	9.20	8"
Dabka GCS Sarasvani Valve Platform	GAIL	10.50	4-1/2"
North Kadi CTF-S.Kadi CTF-Kadi GIDC	GAIL	16.40	8"
Kalol GCS-Kadi GIDC	GAIL	19.40	8"
Uttran Kavas	GAIL	24.50	12-3/4"
Hazira-Karibhco	GAIL	4.00	16"
Uttran-Hazira	GAIL	14.00	36"
ASEB Gas Pipeline	GAIL	16.15	12-3/4"

Contd.....

CRUDE OIL, NATURAL GAS & PRODUCT PIPELINES IN INDIA AS ON 1.4.1994

Pipelines	Owned by	Length In Kms.	Diametre In Inches/mm
1	2	3	4
Lakwa to Maibella Dhiku Junction PT-Lakwa CTF	GAIL	23.50	12-3/4"
Narimanam-Nagapattinam	GAIL	14.00	4"
Naraspur-Kevvur	GAIL	72.00	8"
Naraspur-Tatipaka	GAIL	26.60	14"
Gandhar-Dabka	GAIL	47.00	12"
GIPCO to Chokari Via Undera	GAIL	32.00	12"
Chokari-T point to M/s GIPCO	GAIL	32.19	12"
Gandhar GGS to M/s GNFC	GAIL	42.00	18"
Kalol-CTF to tap-off point Chankheda from T-connection at Ranasan to AE Co.	GAIL	35.20	8"
Chandkheda tap off point to Ramason tap off point (a) Main line	GAIL	15.00	4"
(b) Submerged river crossing across river sabarmati	ONGC	0.41	4"
Hajira-Bijaypur	GAIL	642.00	36"
Bijaypur-Boreri	GAIL	110.11	18"
Boreri-Anta	GAIL	20.00	12"
Bijaypur-Auraiya	GAIL	351.00	30"
Auraiya-Jagdishpur	GAIL	217.70	18"
Auraiya-Delhi	GAIL	466.00	18"-24"
Auraiya-NTPC Auraiya	GAIL	2.50	12"
hazira-NTPC Kawas	GAIL	8.00	12"
Vagodia-IPCL	GAIL	32.00	18"
Ghaziabad Spur II	GAIL	10.00	4"-6"
Tatipaka-Kakinada	GAIL	76.00	18"
Kakinada-NFCL	GAIL	20.00	12"
Delhi-Sonepat-Bahadurgarh	GAIL	80.00	4"-8"
Dadri-Sikandrabad	GAIL	14.00	4"
IPCL-GSFC	GAIL	1.10	18"
Desu Maruti	GAIL	35.00	12"
Boreri Gadepan	GAIL	32.00	18"
Penumadam Kavitam	GAIL	6.00	4"
Narimanam GCS-SPIC FINE	GAIL	11.00	6"
Noida tap off to Sahibabad Indl. Area	GAIL	19.50	6"
Ghaziabad tap off to Ghaziabad Indl. Area	GAIL	9.00	4"
For NTPC Jadnnore in Gujarat	GAIL	15.00	12"
Narimanam to Spic fine Chemicals in south	GAIL	13.00	6"
Digboi-Duliajan	OIL	42.00	10"
Hapjan to Kathalguri GGS	OIL	10.00	200mm
IV. GAS PIPELINES (OFFSHORE)		**679.25**	
Uran to MSEB-I	ONGC	6.00	12"
BH (Platform 'F') to Uran	ONGC	203.00	26"
Uran-Trombay	ONGC	24.00	18"
Uran-MSEB	ONGC	6.00	12"
South Bassein to Umrat	ONGC	216.00	36"
BPB-Bassein Hazira B	ONGC	9.98	30"
Heera-Uran	ONGC	80.93	26"
Thal Vikram Ispat	GAIL	30.00	12"
Trombay-RCF	GAIL	6.00	18"
Uran-Thal	GAIL	21.00	26"
SHG-BPB HP line	ONGC	76.34	28"
Total Gas Pipelines (III+IV)		**3865.76**	

Contd.....

CRUDE OIL, NATURAL GAS & PRODUCT PIPELINES IN INDIA AS ON 1.4.1994

Pipelines	Owned by	Length In Kms.	Diametre In Inches/mm
1	2	3	4
V. PRODUCT PIPELINES			
Digboi-Tinsukia (WOL)	IOC (AOD)	35.48	8"
Digboi-Tinsukia (BOL)	IOC (AOD)	38.95	6"
Digboi-Tinsukia (ROL-1)*	IOC (AOD)	33.72	6"
Gauhati-Siliguri	IOC	435.00	8-5/8"
Koyali-Ahmedabad	IOC	115.70	8-5/8"
Barauni-Kanpur	IOC	668.78	12-3/4"
Haldia-Mourigram-Rajbandh	IOC	268.58	12-3/4"
Haldia-Barauni	IOC	524.83	12-3/4"
Mathura-Delhi	IOC	146.60	16"
Delhi-Ambala	IOC	202.70	14"
Ambala-Jallandhar	IOC	165.00	12-3/4"
Eranakulam Instl. to FACT-Alwaye	BPCL	13.00	4"
BPCL (R) to Pir Pau Jetty	BPCL	3.50	8"
BPCL (R) to HPCL (R)	BPCL	3.00	4"
BPCL (R) HPCL (R)	BPCL	1.50	8"
BPCL (R) to Pir Pau Jetty	BPCL	4.50	14"
Brijwasan to Palam Airport, Delhi	BPCL	4.00	8"
BPCL (R) to IOC Sewree Installation	BPCL	4.00	12"
BPCL (R) to Pir Pau Jetty	BPCL	2.70	8"/12"
BPCL (R) to ONGC(TT)	BPCL	2.20	6"
BPCL (R) to HPCL (R)	BPCL	1.50	12"
BPCL (R) to HPCL(R)	BPCL	1.50	10"
BPCL (R) to HPCL(R)	BPCL	1.50	10"
BPCL(R) to Pir Pau Jetty	BPCL	1.00	10"
Uran (ONGC) to Uran (BPCL)	BPCL	7.00	8"
South Tanker Jetty to Ernakulam Installation	BPCL	3.34	16"
New Oil Installation, Ernakulam to CRL	BPCL	7.20	12"
New Oil Installation, Ernakulam to Tanker Jetty	BPCL	18.00	24"
Total Product Pipelines		**2714.78**	
VI. LPG Pipelines (OFFSHORE)			
Uran-Trombay	ONGC	24.00	8"
VII. NGL Pipelines (OFFSHORE)			
Uran-Trombay	ONGC	24.00	8"
Grand Total (I to VII)		**10629.17**	

* The Pipelines is not in serviceable condition and is lying redundent.

XVII. MARKETING NET WORK

Retail outlets in India as on 1st January of each year.

(NUMBERS)

Year		B/Shell BPCL	ESSO/ HPCL	CALTEX/ HPCL (VMU)	IOC	IBP	AOC/ AOD	TOTAL
1	2	3	4	5	6	7	8	9
1968	Nos.	3683	1955	1437	1516	229	119	8939
	%	41.2	21.9	16.1	16.9	2.6	1.3	100
1969	Nos.	3700	1948	1396	2131	223	124	9522
	%	38.8	20.5	14.7	22.4	2.3	1.3	100
1970	Nos	3577	1922	1392	2655	233	129	9908
	%	16.1	19.3	14.0	26.8	2.4	1.4	100
1975	Nos.	3173	1867	1206	3546	525	163	10480
	%	30.3	17.8	11.5	33.8	5.0	1.6	100
1980	Nos.	3296	3198@		4231	975	173	22873
	%	27.8	26.9		35.6	8.2	1.5	100
1981	Nos.	3308	3225@		4333	1001	175	12042
	%	27.5	26.8		36.0	8.3	1.4	100
1982	Nos.	3314	3247@		4413	1019	178	12171
	%	27.2	26.7		36.2	8.4	1.5	100
1983	Nos.	3232	3124@		4504	1024	186	12070
	%	26.8	25.9		37.3	8.5	1.5	100
1984	Nos.	3378	3391@		4654	1051	190	12664
	%	26.7	26.8		36.7	8.3	1.5	100
1985	Nos.	3442	3451@		4707	1062	202	12864
	%	26.7	26.8		36.6	8.3	1.6	100
1986	Nos.	3514	3545		4848	1087	215	13209
	%	26.7	26.8		36.7	8.2	1.6	100
1987	Nos.	3614	3630		5048	1126	225	13643
	%	36.4	26.6		37.0	8.3	1.6	100
1988	Nos.	3690	3717		5191	1174	235	14007
	%	26.3	26.5		37.1	8.4	1.7	100
1989	Nos.	3769	3784		5313	1194	250	14310
	%	26.3	26.5		37.1	8.4	1.7	100
1990	Nos.	3847	3829		5452	1228	268	14264
	%	26.3	26.2		37.3	8.4	1.8	100
1991	Nos.	3907	3910		5542	1258	276	14893
	%	26.2	26.3		37.2	8.4	1.9	100
1992	Nos.	3976	3946		5602	1287	281	15092
	%	26.3	26.2		37.1	8.5	1.9	100
1993	Nos.	4016	3968		5605	1294	283	15166
	%	26.5	26.2		37.0	8.5	1.8	100
1994	Nos.	4045	4009		5637	1315	283	15289
	%	26.5	26.2		36.9	8.6	1.8	100

Note: 1. % = Percentage
2. @= Includes HPCL (VMU) retail outlets
3. The data excludes consumers outlets.

STATE-WISE NUMBER OF RETAIL OUTLETS, MPDC'S, LDO/SKO DEALERS AND LPG DISTRIBUTORS AS ON 1.4.1994

(NUMBERS)

State/Union Territories	Retail outlets	MPDC	LDO/SKO dealers	LPG distributors
1	2	3	4	5
A. STATES				
1. Andhra Pradesh	1212	19	602	375
2. Arunachal Pradesh	27	2	30	14
3. Assam	324	1	338	112
4. Bihar	931	9	392	161
5. Goa	65	1	17	28
6. Gujarat	971	12	465	296
7. Haryana	507	16	140	131
8. Himachal Pradesh	79	2	24	59
9. Jammu & Kashmir	115	1	30	66
10. Karnataka	944	4	309	253
11. Kerala	713	1	232	174
12. Madhya Pradesh	898	18	352	242
13. Maharashtra	1544	16	669	576
14. Manipur	28	3	34	10
15. Meghalaya	49	-	35	15
16. Mizoram	14	1	16	10
17. Nagaland	26	1	18	14
18. Orissa	339	7	167	86
19. Punjab	959	14	230	182
20. Rajasthan	907	28	238	177
21. Sikkim	10	-	8	2
22. Tamil Nadu	1430	-	455	318
23. Tripura	29	1	39	10
24. Uttar Pradesh	968	65	656	479
25. West Bengal	1011	12	430	237
Total (States)	**15100**	**234**	**5926**	**4027**
B. UNION TERRITORIES				
26. A.N. Islands	3	-	1	1
27. Chandigarh	25	-	11	26
28. D.N. Haveli	3	-	2	1
29. Delhi	250	-	100	229
30. Daman & Diu	4	-	5	2
31. Pondicherry	28	-	8	5
32. Lakshdweep	0	-	0	1
Total (UTS)	**313**	**-**	**127**	**265**
GRAND TOTAL (A&B)	**15413**	**234**	**6053**	**4292**

STATE-WISE NUMBER OF LPG DOMESTIC CONSUMERS AS ON 1.4.1994

('000' Numbers)

S. NO.	STATES/UNION TERRITORIES	IOC	AOD	TOTAL IOC	BPCL	HPCL	GRAND TOTAL
1	2	3	4	5	6	7	8
STATES							
1.	Andhra Pradesh	613	0	613	258	775	1646
2.	Arunachal Pradesh	7	14	21	0	0	21
3.	Assam	133	182	315	0	0	315
4.	Bihar	525	0	525	44	76	645
5.	Goa	1	0	1	50	81	132
6.	Gujarat	1064	0	1064	364	364	1792
7.	Haryana	371	0	371	176	73	620
8.	Himachal Pradesh	172	0	172	6	38	216
9.	Jammu & Kashmir	75	0	75	16	135	226
10.	Karnataka	399	0	399	225	448	1072
11.	Kerala	477	0	477	167	79	723
12.	Madhya Pradesh	611	0	611	168	321	1100
13.	Maharashtra	178	0	178	1798	1529	3505
14.	Manipur	13	31	44	0	0	44
15.	Meghalaya	14	15	29	0	0	29
16.	Mizoram	11	18	29	0	0	29
17.	Nagland	11	16	27	0	0	27
18.	Orissa	121	0	121	13	141	275
19.	Punjab	510	0	510	175	101	786
20.	Rajasthan	372	0	372	184	195	751
21.	Sikkim	10	0	10	0	0	10
22.	Tamil Nadu	1193	0	1193	296	192	1681
23.	Tripura	16	17	33	0	0	33
24.	Uttar Pradesh	1734	0	1734	435	186	2355
25.	West Bengal	759	0	759	72	233	1064
TOTAL		**9390**	**293**	**9683**	**4447**	**4967**	**19097**
UNION TERRITORIES							
1.	Andaman & Nicobar	7	0	7	0	0	7
2.	Chandigarh	100	0	100	12	30	142
3.	Dadra & Nagar Haveli	0	0	0	0	4	4
4.	Delhi	946	0	946	312	185	1443
5.	Daman	0	0	0	0	8	8
6.	Lakshadweep	1	0	1	0	0	1
7.	Pondichery	23	0	23	5	54	32
8.	Silvasa	0	0	0	0	0	0
TOTAL		**1077**	**0**	**1077**	**329**	**231**	**1637**
ALL INDIA		**10467**	**293**	**10760**	**4776**	**5198**	**20734**

XVIII. ENERGY

GROSS PRODUCTION OF ENERGY BY VARIOUS SOURCES IN INDIA

YEAR	Coal & Lignite			Hydro -carbon			Power Million (Kwh)			
	Coal	Lignite	Total	Natural Gas	Crude Petroleum	Petroleum Products@	Thermal	Hydel	Nuclear	Total
	(Million Tonnes)			(MM3)	(.....'000' Tonnes....)					
1	2	3	4	5	6	7	8	9	10	11
1960-61	55.67	0.05	55.72	-	448	6077	9100	7837	-	16937
1965-66	67.73	2.57	70.30	507	3473	10081	19641	16734	-	36375
1970-71	72.95	3.39	76.34	1445	6822	18333	28162	25248	2417	55827
1971-72	72.42	3.72	76.14	1535	7299	19867	31713	28024	1189	60926
1972-73	77.22	2.89	80.11	1565	7321	19092	36217	27196	1133	64546
1973-74	78.17	3.32	81.49	1713	7189	20724	35321	28972	2396	66689
1974-75	88.41	2.94	91.35	2041	7684	20800	40109	27875	2206	70190
1975-76	99.63	3.03	102.66	2368	8448	22055	43303	33302	2626	79231
1976-77	100.99	4.02	105.01	2428	8898	22732	50245	34836	3252	88333
1977-78	100.98	3.58	104.56	2839	10763	24670	52495	37961	1740	92196
1978-79	101.95	3.30	105.25	2811	11633	25671	53420	47138	2770	103328
1979-80	103.94	2.90	106.84	2767	11766	27228	57155	45494	2876	105525
1980-81	113.91	5.11	119.02	2358	10507	25346	61301	46542	3001	110844
1981-82	124.23	6.31	130.54	3851	16194	29717	69392	49597	3021	122010
1982-83	130.50	6.93	137.43	4936	21063	32761	79880	48309	2022	130211
1983-84	138.22	7.30	145.52	5961	26020	34793	86535	49867	3494	139896
1984-85	147.41	7.80	155.21	7241	28990	35546	98770	53785	4078	156633
1985-86	154.20	8.05	162.25	8134	30168	42735	114119	50933	4985	170037
1986-87	165.77	9.43	175.20	9853	30480	45867	128820	53760	5020	187610
1987-88	179.72	11.16	190.88	11467	30357	47808	149464	47396	5034	201894
1988-89	194.60	12.40	207.00	13217	32040	49215	157510	57793	5822	221125
1989-90	200.89	12.64	213.69	16988	34087	52143	178522	61996	4623	245141
1990-91	211.73	14.11	225.50	17998	33021	52201	186452	71535	6244	264231
1991-92	229.28	15.97	243.83	18645	30346	52213	208551	72599	5561	286711
1992-93	238.26	16.62	254.88	18060	26950	54435	224485	69833	6748	301066
1993-94 *	246.00	16.90	262.90	18335	27026	55305	247618	70311	5394	323323

* = Provisional @ = Includes RBF and LPG production from Natural Gas.

Source = (i) Central Electricity Authority and Economic Survey 1993-94

(ii) Coal Statistic- Coal Control's Organization, Ministry of Coal.

TRENDS IN PRODUCTION OF PRIMARY COMMERCIAL ENERGY

		Production				
Energy From	**Unit**	**1950-51**	**1960-61**	**1970-71**	**1980-81**	**1990-91**
Coal	Million Tonnes	33	55.67	72.95	114.01	211.73
Lignite	,,	-	0.05	3.39	4.80	14.07
Crude Oil	,,	0.26	0.45	6.82	10.51	33.02
Natural Gas	MCM	-	-	1445	2358	17998
Hydro Power	Bkwh	2.52	7.84	25.25	46.54	71.54
Nuclear Power	,,	"	"	2.42	3.00	6.24

PERCENTAGE SHARE OF DIFFERENT FUELS IN COMMERCIAL ENERGY CONSUMPTION

	1953-54	**1960-61**	**1970-71**	**1980-81**	**1990-91***
Coal	79.6	74.1	59.1	52.6	39.0
Oil & Gas	17.1	20.9	31.3	35.7	43.4
Electricity	3.3	5.0	9.6	11.7	17.6
Total	100.0	100.0	100.0	100.0	100.0

* Provisional

PERCENTAGE SHARE IN FINAL ENERGY CONSUMPTION BY DIFFERENT SECTOR

	Percentage share in Consumption				
Sector	**1953-54**	**1960-61**	**1970-71**	**1980-81**	**1990-91**
Industry	39.8	40.7	51.6	57.0	50.4
Transport	46.2	44.9	29.4	23.5	24.5
Household	9.9	10.6	14.3	12.3	13.8
Agriculture	1.7	1.8	3.8	6.1	9.0
Others	2.4	2.0	0.9	1.1	2.3
Total	100.0	100.0	100.0	100.0	100.0

Source :- Eighth five year plan Document- 1992-97.

XIX- GENERAL

Gross Domestic Product of Crude Petroleum & Natural Gas, Coal and Lignite at current prices.

(Rs/Lakhs)

Year	Crude Petroleum & Natural Gas	Coal & Lignite
1	2	3
1976-77	189778	51671
1977-78	27278	51504
1978-79	33148	50615
1979-80	37221	75908
1980-81 (Revised)	35852	103742
1981-82 (Revised)	171254	123911
1982-83 (Revised)	218532	146252
1983-84 (Revised)	264771	166934
1984-85 (Revised)	319546	217644

INTERNATIONAL PETROLEUM STATISTICS

XX. INTERNATIONAL PETROLEUM STATISTICS

World Proved Reserves of Crude Oil at end 1993

Country	Thousand million tonnes	Thousand million barrels	Share of total	R/P ratio
1	2	3	4	5
USA	4.0	31.2	3.1%	9.9
Canada	0.9	7.4	0.7%	8.9
Total North America	**4.9**	**38.6**	**3.8%**	**9.7**
Argentina	0.2	1.6	0.2%	7.3
Brazil	0.5	3.6	0.4%	14.9
Colombia	0.3	1.9	0.2%	11.3
Ecuador	0.3	2.0	0.2%	15.1
Mexico	7.1	50.9	5.0%	46.4
Venezuela	9.1	63.3	6.3%	68.9
Other Latin America	0.2	1.6	0.2%	12.9
Total Latin America	**17.7**	**124.9**	**12.5%**	**43.5**
Norway	1.2	9.3	0.9%	10.6
United Kingdom	0.6	4.6	0.5%	6.1
Other OECD Europe	0.4	2.8	0.3%	13.5
Total OECD Europe	**2.2**	**16.7**	**1.7%**	**9.1**
Former Soviet Union	7.8	57.0	5.6%	19.7
of which: Russian Federation	6.6	48.4	4.8%	19.1
Kazakhstan	0.7	5.2	0.5%	30.8
Azeibajian	0.2	1.3	0.1%	16.3
Others	0.3	2.1	0.2%	19.3
Other Non-OECD Europe	0.3	2.2	0.2%	23.4
Total Non-OECD Europe	**8.1**	**59.2**	**5.8%**	**19.9**
Abu Dhabi	12.1	92.2	9.1%	*
Dubai & Northern Emirates	0.8	5.9	0.6%	40.7
Iran	12.7	92.9	9.2%	70.4
Iraq	13.4	100.0	9.9%	*
Kuwait	13.3	96.5	9.6%	*
Oman	0.6	4.7	0.5%	16.5
Qatar	0.5	3.7	0.4%	20.8
Saudi Arabia	35.5	261.2	25.9%	83.7
Syria	0.2	1.7	0.2%	8.2
Yemen	0.5	4.0	0.4%	51.7
Other Middle East	†	0.1	†	4.3
Total Middle East	89.6	662.9	65.8%	95.1
Algeria	1.2	9.2	0.9%	21.2
Angola	0.2	1.5	0.1%	7.7
Egypt	0.9	6.3	0.6%	18.5
Gabon	0.1	0.7	0.1%	6.9
Libya	3.0	22.0	2.3%	44.2
Nigeria	2.4	17.9	1.8%	25.8
Tunisia	0.2	1.7	0.2%	43.5
Other Africa	0.2	1.8	0.2%	13.9
Total Africa	**8.2**	**61.9**	**6.2%**	**25.1**
Australia	0.2	1.6	0.2%	9.2
Brunei	0.2	1.4	0.1%	21.5
China	3.2	24.0	2.4%	21.9
India	0.8	5.9	0.6%	28.6
Indonesia	0.8	5.8	0.6%	10.8
Japan	†	0.1	†	9.2
Malaysia	0.6	4.3	0.4%	17.8
New Zealand	†	0.2	†	10.7
Papua New Guinea	†	0.3	†	5.2
Vietnam	0.1	0.5	†	11.5
Other Asia	0.1	0.7	0.1%	7.5
Total Asia & Australasia	6.0	44.8	4.4%	17.6
TOTAL WORLD	**136.7**	**1009.0**	**100.0%**	**43.1**
of which : OECD	7.3	57.2	5.7%	9.5
OPEC	104.9	772.1	76.5%	79.6

* Over 100 years

† Less than 0.05

Source: BP Statistical Review of World Energy June, 1994

WORLD PROVED RESERVES OF NATURAL GAS AT END 1993

Country	Trillion cubic feet	Trillion cubic metres	Share of total	R/P ratio
1	2	3	4	5
USA	165.0	4.7	3.3%	8.8
Canada	94.8	2.7	1.9%	21.2
Total North America	**259.8**	**7.4**	**5.2%**	**11.2**
Argentina	26.5	0.8	0.5%	30.0
Ecuador	3.8	0.1	0.1%	*
Mexico	71.0	2.0	1.4%	72.4
Trinidad	8.5	0.2	0.2%	38.9
Venezuela	128.9	3.7	2.6%	*
Other Latin America	29.8	0.8	0.6%	53.3
Total Latin America	**268.5**	**7.6**	**5.4%**	**75.2**
Germany	12.1	0.3	0.2%	19.5
Netherlands	68.2	1.9	1.4%	27.6
Norway	70.5	2.0	1.4%	69.2
United Kingdom	21.5	0.6	0.4%	9.7
Other OECD Europe	18.8	0.5	0.4%	17.3
Total OECD Europe	**191.1**	**5.3**	**3.8%**	**25.8**
Former Soviet Union	1997.0	56.5	39.8%	71.5
of which: Russian Federation	1711.4	48.5	34.1%	75.5
Ukraine	40.6	1.1	0.8%	57.6
Uzbekistan	69.1	2.0	1.4%	41.8
Turkmenistan	103.1	2.9	2.1%	43.1
Others	72.8	2.1	1.5%	*
Other Non-OECD Europe	20.8	0.6	0.4%	15.3
Total Non-OECD Europe	**2017.8**	**57.1**	**40.2%**	**68.9**
Abu Dhabi	188.4	5.3	3.8%	*
Bahrain	5.9	0.2	0.1%	21.8
Dubai & Northern Emirates	16.2	0.5	0.3%	*
Iran	730.0	20.7	14.6%	*
Iraq	109.5	3.1	2.2%	*
Kuwait	52.9	1.5	1.1%	*
Qatar	250.0	7.1	5.0%	*
Saudi Arabia	185.9	5.3	3.7%	*
Other Middle East	42.2	1.2	0.8%	*
Total Middle East	**1581.0**	**44.9**	**31.6%**	*
Algeria	128.0	3.6	2.6%	70.6
Egypt	15.4	0.4	0.3%	38.7
Gabon	0.5	†	†	*
Libya	45.8	1.3	0.9%	*
Nigeria	120.0	3.4	2.4%	*
Other Africa	33.8	1.0	0.7%	*
Total Africa	**343.5**	**9.7**	**6.9%**	*
Australia	19.6	0.6	0.4%	22.5
Bangladesh	25.2	0.7	0.5%	*
Brunei	14.0	0.4	0.3%	40.1
China	59.0	1.7	1.2%	*
India	25.4	0.7	0.5%	49.4
Indonesia	64.4	1.8	1.3%	33.1
Japan	1.0	†	†	13.4
Malaysia	76.7	2.2	1.5%	85.1
New Zealand	3.2	0.1	0.1%	18.2
Pakistan	22.9	0.6	0.5%	38.5
Other Asia	43.1	1.2	0.9%	*
Total Asia & Australasia	354.5	10.0	7.2%	53.0
TOTAL WORLD	**5016.2**	**142.0**	**100.0%**	**64.9**
of which : OECD	474.8	13.4	9.5%	14.9
OPEC	2020.4	57.2	40.3%	*

*over 100 years; † Less than 0.05

Source : B.P. statistical Review of World Energy June, 1994.

WORLD CRUDE OIL* PRODUCTION 1985-1993

(Millon Tonnes)

Country	1985	1986	1987	1988	1989	1990	1991	1992	1993	%change 1993 over 1992	% share of total 1993
1	2	3	4	5	6	7	8	9	10	11	12
USA	502.6	486.1	471.2	463.2	433.0	420.6	427.2	417.5	401.0	-4.0	12.7
Canada	86.2	86.2	90.9	95.7	93.3	93.5	94.0	98.1	103.1	+5.1	3.3
Total North America	**588.8**	**572.3**	**562.1**	**558.9**	**526.2**	**514.1**	**521.3**	**615.6**	**504.1**	**-2.2**	**15.9**
Argentina	24.0	22.6	22.3	23.5	22.9	24.0	25.5	29.0	30.6	+5.5	1.0
Brazil	28.1	28.6	29.7	28.2	30.0	31.8	31.5	31.8	32.1	+1.1	1.0
Colombia	8.9	15.3	19.6	19.3	20.1	21.9	21.6	22.3	23.5	+5.4	0.7
Ecuador	13.5	13.6	8.6	15.0	14.5	15.0	15.7	16.9	17.9	+6.2	0.6
Mexico	149.7	135.6	141.8	140.7	143.6	147.1	153.2	153.3	153.2	†	4.8
Trinidad	8.8	8.4	8.3	7.6	7.4	7.4	7.4	7.2	7.5	+3.9	0.2
Venezuela	90.0	96.9	98.2	103.1	103.3	115.3	128.1	129.0	132.0	+2.3	4.2
Other latin America	13.6	12.9	12.0	10.6	10.3	10.2	9.2	9.1	9.7	+7.0	0.3
Total Latin America	**336.5**	**333.8**	**340.4**	**347.8**	**352.1**	**372.6**	**392.1**	**398.4**	**406.5**	**+2.0**	**12.9**
Denmark	2.9	3.6	4.6	4.7	5.5	5.9	7.0	7.8	8.3	+6.6	0.3
Norway	40.3	44.1	49.1	56.7	74.9	81.9	93.4	107.0	114.5	+7.0	3.6
United Kingdom	127.6	127.1	123.4	114.5	91.7	91.6	91.3	94.2	100.1	+6.2	3.2
Other OECD Europe	20.7	21.7	22.6	23.2	22.1	22.3	22.5	21.6	20.6	-4.5	0.7
Total OECD Europe	**191.5**	**196.4**	**199.7**	**199.1**	**194.1**	**201.7**	**214.1**	**230.6**	**243.5**	**+5.6**	**7.7**
Former Soviet Union	596.7	615.1	625.2	623.7	609.9	570.5	515.1	448.4	393.4	-12.3	12.4
of which: Russian Federation	542.3	560.9	569.5	568.8	554.9	515.9	461.1	396.0	345.0	-12.9	10.9
Kazakhstan	22.7	23.3	24.1	25.0	26.4	26.8	26.6	25.8	23.0	-10.9	0.7
Azerbaijan	13.2	13.1	13.9	13.7	13.2	12.5	11.7	11.2	10.5	-6.3	0.3
Others	18.5	17.8	17.7	16.2	16.5	16.3	15.7	15.4	14.9	-3.4	0.5
Other Non-OECD Europe	**20.0**	**19.4**	**18.2**	**17.9**	**17.0**	**15.3**	**13.8**	**12.6**	**12.7**	**+1.4**	**0.4**
Total Non-OECD Europe	**616.7**	**634.4**	**643.4**	**641.6**	**626.9**	**585.8**	**528.9**	**461.0**	**406.1**	**-11.9**	**12.8**
Abu Dhabi	41.6	50.4	56.1	60.0	73.7	85.7	100.3	96.7	95.4	-1.3	3.0
Dubai & N. Emirates	22.5	22.6	24.3	24.3	23.5	23.3	22.8	21.6	19.6	-9.3	0.6
Iran	110.0	94.5	114.7	112.5	141.1	155.3	162.0	172.2	180.0	+4.6	5.7
Iraq	70.6	85.5	102.4	27.4	138.6	98.2	11.6	23.6	22.3	-5.5	0.7
Kuwait	54.2	71.3	63.6	75.1	90.7	59.9	9.2	54.1	97.3	+79.8	3.1
Oman	25.4	28.0	29.1	29.8	29.4	34.5	36.4	36.4	39.1	+7.5	1.2
Qatar	15.9	16.6	15.9	16.9	19.3	21.2	20.5	22.6	23.4	+3.4	0.7
Saudi Arabia	181.6	260.1	222.3	265.6	267.0	334.2	422.8	436.4	424.7	-2.7	13.4
Syria	9.4	10.2	12.2	14.5	17.3	21.0	24.5	25.2	30.0	+19.2	1.0
Yemen	-	-	0.4	8.5	9.7	9.5	10.9	8.8	10.6	+20.7	0.3
Other Meddle East	2.2	2.2	2.2	2.2	2.1	2.2	2.5	2.5	2.4	-3.7	0.1
Total Middle East	**533.3**	**641.4**	**643.3**	**736.6**	**812.2**	**845.0**	**823.3**	**900.0**	**944.7**	**+5.0**	**29.9**
Algeria	47.7	48.9	48.9	47.2	51.5	55.2	56.4	57.0	56.3	-1.2	1.8
Angola	11.8	14.4	17.9	23.1	23.1	24.1	25.6	27.0	27.6	+2.2	0.9
Cameroon	8.0	8.9	8.4	9.0	8.5	7.9	7.5	7.0	6.5	-6.1	0.2
Congo	5.6	5.8	5.7	6.6	7.5	7.6	7.5	8.8	9.2	+4.7	0.3
Egypt	45.1	41.1	46.3	44.2	44.5	45.5	45.4	46.0	47.0	+2.3	1.5
Gabon	7.7	8.1	7.8	8.7	10.6	13.6	14.8	14.7	14.6	-1.0	0.5
Libya	52.7	49.9	47.9	50.6	55.5	64.8	72.2	73.0	68.0	-6.8	2.2
Nigeria	72.9	72.2	63.7	67.6	80.6	87.8	93.6	91.6	94.3	+2.9	3.0
Other Africa	7.1	6.9	6.8	6.6	6.8	6.1	6.7	6.9	7.0	+1.8	0.2
Total Africa	**258.5**	**256.2**	**253.4**	**263.6**	**288.6**	**312.6**	**329.7**	**332.0**	**330.7**	**-0.4**	**10.5**
Australasia	29.6	28.3	28.8	27.9	26.5	28.5	27.3	26.8	25.0	-6.7	0.8
Brunei	7.4	8.3	7.0	7.0	7.0	7.0	7.8	8.8	8.5	-4.1	0.3
China	124.9	130.7	132.9	137.0	137.6	138.3	139.8	142.0	144.0	+1.4	4.6
India	29.9	31.0	30.4	31.9	34.2	33.9	31.7	28.9	27.6	-4.4	0.9
Indonesia	65.2	69.2	68.6	66.2	70.5	73.2	79.7	75.5	72.6	-3.8	2.3
Malaysia	21.3	26.2	24.6	26.7	28.8	30.6	32.0	32.6	31.7	-2.8	1.0
Papua New Guinea	-	-	-	-	-	-	-	2.7	6.3	+137.1	0.2
Vietnam	-	-	-	-	1.5	3.9	4.5	5.5	6.1	+11.4	0.2
Other Asia	5.3	6.3	6.5	5.7	6.0	6.6	7.0	8.3	7.5	-9.0	0.2
Total Asia & Australasia	**283.6**	**299.9**	**298.9**	**302.4**	**312.1**	**322.0**	**329.8**	**331.1**	**329.3**	**-0.5**	**10.4**
TOTAL WORLD	**2809.0**	**2934.4**	**2941.1**	**3050.0**	**3112.4**	**3153.9**	**3139.2**	**3168.5**	**3164.8**	**-0.1**	**100.0**
of which: OECD	810.4	797.7	791.2	786.4	747.4	744.9	763.5	773.8	773.3	-0.1	24.4
OPEC	832.5	946.1	934.5	1025.0	1125.7	1187.8	1193.8	1267.9	1300.4	+2.6	41.1

*Includes crude oil, shale oil, oil sands and NGLs (natural gas liquids – the liquid content of natural gas where this is recovered separately)
Excludes liquid fuels from other sources, such as coal derivatives
+ Less than 0.05 P : Provisional Source : BP Statistical Review of World Energy June, 1994.

CRUDE OIL PRODUCTION BY OPEC MEMBER COUNTRIES (1980-1993)

(Million Tonnes)

OPEC Countries	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993(P)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Algeria	52	46	43	46	48	49	49	47	52	55	56	57	56
Ecuador	10	10	12	13	14	14	9	15	15	15	16	17	-
Gabon	9	8	8	8	8	8	8	9	11	14	15	15	15
Indonesia	78	69	69	74	65	69	69	66	71	73	80	76	73
Iran	74	120	122	109	110	95	115	113	141	155	162	172	180
Iraq	130	50	54	60	71	86	102	127	139	98	12	24	22
Kuwait	72	35	53	60	54	71	64	75	91	60	9	54	97
Libya	88	56	53	53	53	50	48	51	56	65	72	73	68
Nigeria	102	64	61	69	73	72	64	68	81	88	94	92	94
Qatar	22	16	15	20	16	17	16	17	19	21	21	23	23
Saudi Arabia	493	328	264	244	182	260	222	266	267	334	423	436	425
U.A.E.	112	75	46	44	49	58	71	67	80	95	106	100	115
Venezuela	116	101	96	96	90	97	98	103	103	115	128	129	132
TOTAL	1358	978	894	896	833	946	935	1025	1126	1188	1194	1268	1300

(P) = Provisional.

Source : BP Statistical Review of World Energy June 1994

Note : Ecuador withdraw its membership of OPEC at end 1992.

WORLD PRODUCTION OF NATURAL GAS* 1985-1993

(Millon Tonnes Oil equivalent)

Country	1985	1986	1987	1988	1989	1990	1991	1992	1993 (P)	%change 1993 over 1992	% share of total 1993
1	2	3	4	5	6	7	8	9	10	11	12
USA	427.9	416.8	431.8	443.5	449.7	462.7	459.4	463.1	478.4	+3.3	25.3
Canada	68.9	64.3	70.7	81.7	87.0	89.4	94.8	104.5	114.2	+9.3	6.0
Total North America	**496.8**	**481.1**	**502.5**	**526.2**	**536.7**	**552.1**	**554.2**	**567.6**	**592.6**	**+4.4**	**31.3**
Argentina	12.7	16.9	16.8	19.3	21.8	20.7	19.8	22.3	22.5	+0.9	1.2
Bolivia	2.2	2.3	2.4	2.5	2.6	2.7	2.7	2.7	2.7	+0.4	0.1
Colombia	3.7	3.7	3.7	4.4	4.3	4.7	4.8	4.7	5.0	+5.0	0.3
Mexico	25.3	22.3	23.7	23.5	24.1	25.5	25.4	25.0	25.0	-0.2	1.3
Trinidad	2.9	3.2	3.5	4.0	3.9	5.0	5.1	5.0	5.6	+12.2	0.3
Venezuela	15.6	17.2	16.7	16.9	16.8	19.5	22.9	22.9	23.6	+2.9	1.2
Other latin America	5.7	5.8	5.9	6.0	5.6	6.4	6.1	6.3	6.6	+5.6	0.4
Total Latin America	**68.1**	**71.4**	**72.7**	**76.6**	**79.1**	**84.5**	**86.8**	**88.9**	**91.0**	**+2.3**	**4.8**
France	4.5	3.5	3.2	2.6	2.7	2.8	2.9	2.8	2.8	†	0.1
Germany	15.7	17.2	19.1	17.3	16.3	16.6	15.8	16.0	15.9	0.8	0.8
Italy	12.4	14.4	14.7	14.9	15.3	15.6	15.7	16.3	17.5	+6.9	0.9
Netherlands	64.4	56.2	56.1	49.9	54.1	54.5	62.1	62.2	62.9	+1.0	3.3
Norway	22.8	24.3	26.7	26.8	27.7	25.1	24.6	26.5	26.0	-1.9	1.4
United Kingdom	37.1	39.0	40.8	39.4	38.5	42.7	47.5	47.6	56.7	+19.1	3.0
Other OECD Europe	**4.1**	**4.6**	**4.5**	**5.0**	**6.8**	**6.7**	**7.6**	**7.6**	**7.5**	**-1.8**	**0.4**
Total OECD Europe	**161.0**	**159.2**	**165.1**	**155.9**	**161.4**	**164.0**	**176.2**	**179.0**	**189.3**	**+5.6**	**9.9**
Former Soviet Union	539.8	576.1	610.7	646.5	668.4	683.9	680.6	655.5	639.4	-2.5	33.9
of which: Russian Federation	387.9	422.3	457.0	495.2	517.0	537.6	539.8	537.6	518.8	-3.5	27.5
Ukraine	36.0	33.3	29.9	27.2	25.9	23.6	20.5	17.5	16.1	-8.1	0.9
Uzbekistan	29.0	32.4	33.4	33.5	34.5	34.2	35.2	35.9	37.8	+5.1	2.0
Turkmenistan	69.8	71.1	74.0	74.1	75.5	73.7	70.8	50.5	54.7	+8.5	2.9
Others	17.0	16.9	16.4	16.5	15.5	14.8	14.4	13.9	11.9	-14.5	0.6
Other Non-OECD Europe	41.4	42.2	40.4	36.9	36.4	30.8	28.2	25.9	26.2	+1.2	1.4
Total Non-OECD Europe	**581.1**	**618.2**	**651.1**	**683.4**	**704.8**	**714.7**	**708.9**	**681.3**	**665.5**	**-2.3**	**35.3**
Abu Dhabi	11.0	12.9	14.3	14.7	16.7	15.5	17.3	18.6	18.9	+1.7	1.0
Iran	13.1	13.7	14.4	18.0	19.5	21.5	23.2	22.5	24.4	+8.3	1.3
Saudi Arabia	16.9	23.0	24.1	26.2	26.8	27.5	28.8	30.6	32.3	+5.6	1.7
Other Meddle East	15.8	18.0	21.3	26.1	30.4	28.6	24.4	32.6	34.8	+6.7	1.8
Total Middle East	**56.8**	**67.6**	**74.1**	**85.0**	**93.4**	**93.1**	**93.7**	**104.3**	**110.4**	**+5.8**	**5.8**
Algeria	30.9	31.1	35.6	37.5	40.2	42.5	44.4	45.9	46.1	+0.4	2.4
Egypt	4.6	5.1	5.7	6.2	6.9	7.2	8.2	8.9	10.1	+14.0	0.5
Libya	4.7	5.7	6.0	5.1	5.4	6.0	5.9	6.1	5.7	-6.1	0.3
Nigeria	1.3	1.1	3.3	3.4	3.9	3.8	4.0	4.2	4.6	+9.1	0.2
Other Africa	1.1	0.9	0.8	0.8	0.8	0.9	0.9	1.0	2.6	+158.4	0.1
Total Africa	**42.6**	**43.9**	**51.4**	**53.0**	**57.2**	**60.4**	**63.4**	**66.1**	**69.1**	**+4.6**	**3.5**
Australasia	15.3	17.4	17.3	18.0	20.1	22.8	23.5	25.5	26.6	+4.2	1.1
Brunei	7.6	7.8	7.9	7.8	7.5	8.5	8.7	8.9	8.9	+0.3	0.5
China	11.5	11.8	12.5	12.6	12.9	13.2	13.4	13.6	14.6	+7.4	0.8
India	7.1	7.4	8.5	10.0	11.2	13.0	13.5	13.3	13.1	-1.4	0.7
Indonesia	27.3	31.8	32.9	34.2	39.9	42.7	45.7	48.1	49.5	+3.0	2.6
Japan	2.0	1.9	2.0	1.9	1.8	1.8	1.9	1.9	2.0	+2.1	0.1
Malaysia	9.2	12.6	14.0	14.8	16.8	17.3	19.5	20.8	23.0	+10.5	1.2
Pakistan	9.3	9.9	10.7	11.3	11.2	12.9	13.6	14.0	15.2	+8.7	0.8
Other Asia	10.3	9.9	11.8	13.8	12.1	12.3	14.6	15.9	17.6	+10.9	0.9
Total Asia & Australasia	**99.6**	**110.5**	**117.6**	**124.4**	**133.5**	**144.5**	**154.5**	**162.0**	**170.5**	**+5.3**	**9.0**
TOTAL WORLD	**1506.0**	**1551.9**	**1634.5**	**1703.5**	**1766.1**	**1813.3**	**1837.6**	**1849.2**	**1888.4**	**+2.1**	**100.0**
of which: OECD	675.1	659.5	686.9	701.0	720.1	740.7	755.6	774.1	810.3	+4.7	42.9
LDCs	250.1	274.2	296.7	319.0	341.4	357.9	372.7	393.9	412.6	+4.7	21.8

* Excluding gas flared or recycled

\+ Less than 0.05

P : Provisional

Source : BP Statistical Review of World Energy June 1994

WORLD CONSUMPTION OF NATURAL GAS 1985-1993*

(Millon Tonnes Oil equivalent))

Country	1985	1986	1987	1988	1989	1990	1991	1992	1993 (P)	%change 1993 over 1992	% share of total 1993
1	2	3	4	5	6	7	8	9	10	11	12
USA	449.4	421.1	447.2	467.5	488.5	486.3	494.1	507.3	532.8	+3.3	29.3
Canada	44.8	40.9	41.2	52.8	57.5	55.6	56.7	60.2	62.6	+4.0	3.5
Total North America	**494.2**	**462.0**	**488.4**	**520.3**	**546.0**	**541.9**	**550.8**	**567.5**	**586.4**	**+3.3**	**32.8**
Argentina	14.9	14.3	14.8	16.0	17.1	16.3	16.9	15.8	19.5	+23.4	1.1
Brazil	3.1	3.4	3.1	3.1	3.2	3.6	3.4	3.6	4.0	+11.0	0.2
Mexico	24.6	24.0	24.0	24.1	25.1	24.9	24.9	24.6	23.4	-4.6	1.3
Venezuela	15.4	16.2	16.7	17.0	17.1	17.6	18.6	19.5	22.0	+12.8	1.2
Other latin America	7.6	7.9	8.0	8.4	8.7	9.6	10.2	10.4	10.5	+1.0	0.6
Total Latin America	**65.6**	**65.8**	**66.6**	**68.6**	**71.2**	**72.0**	**74.0**	**73.9**	**79.4**	**+7.5**	**4.4**
Austria	4.5	4.4	4.6	4.4	4.7	5.2	5.4	5.4	5.6	+3.0	0.3
Belgium & Luxembourg	8.4	7.6	8.5	8.4	9.4	9.5	9.0	9.0	9.5	+5.0	0.5
Denmark	0.6	1.0	1.3	1.6	1.7	1.8	1.9	2.0	2.2	+12.6	0.1
Finland	0.8	1.0	1.4	1.4	1.9	2.3	2.4	2.5	2.6	+4.2	0.1
France	23.3	24.2	25.0	23.6	24.4	26.4	27.5	28.3	29.2	+3.2	1.6
Germany	49.2	49.0	53.2	52.3	53.6	53.9	56.6	56.7	59.6	+5.0	3.3
Greece	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-5.5	-
Iceland	-	-	-	-	-	-	-	-	-	-	-
Republic of Ireland	1.8	1.1	1.0	1.2	1.5	1.3	1.5	1.5	1.5	+1.4	0.1
Italy	27.2	28.9	32.2	34.1	36.9	39.1	41.5	41.2	42.7	+3.6	2.4
Netherlands	32.5	32.7	33.6	30.6	31.3	31.0	34.2	33.2	33.8	+2.0	1.9
Norway	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Spain	2.1	2.5	2.7	3.5	4.5	5.0	5.5	5.9	5.8	-0.4	0.3
Sweden	0.1	0.2	0.3	0.4	0.6	0.6	0.6	0.7	0.7	+9.5	-
Switzerland	1.0	0.9	0.9	1.1	1.3	1.3	1.5	1.9	1.8	-5.1	0.1
Turkey	+	0.4	0.6	1.0	2.7	3.0	4.0	4.1	4.5	+10.8	0.3
United Kingdom	48.4	49.2	50.5	48,1	47.5	49.2	53.0	52.6	60.5	+15.2	3.4
Total OECD Europe	**200.0**	**203.2**	**215.9**	**211.8**	**222.1**	**229.7**	**244.7**	**245.0**	**260.1**	**+6.2**	**14.4**
Former Soviet Union	489.7	505.0	529.7	558.6	570.4	608.9	599.0	559.8	531.9	-5.0	29.8
of which: Russian Federation	325.1	328.9	347.8	367.1	372.5	390.5	388.0	370.0	358.2	-3.2	20.0
Ukraine	80.8	85.3	87.1	92.4	93.4	115.0	109.3	93.2	83.6	-10.3	4.7
Others	83.8	90.8	94.7	99.2	104.5	103.4	101.8	96.6	90.0	-6.8	5.0
Czech R. & Slovakia	8.1	9.2	9.4	9.5	9.9	10.9	10.2	8.3	10.7	+28.2	0.6
Hungary	9.5	10.1	10.0	9.9	10.1	9.4	8.8	7.8	8.3	+7.3	0.5
Poland	8.9	9.5	9.8	9.7	9.6	8.9	7.2	7.7	8.2	+5.4	0.5
Other Non-OECD Europe	41.1	41.9	42.1	38.8	42.7	38.5	33.7	28.5	28.2	-0.8	1.8
Total Non-OECD Europe	**557.3**	**575.7**	**600.9**	**626.6**	**642.6**	**676.6**	**650.0**	**612.1**	**587.2**	**-4.1**	**32.8**
Total Middle East	**45.3**	**51.4**	**56.8**	**67.1**	**74.1**	**72.8**	**68.8**	**75.5**	**81.6**	**+8.2**	**4.6**
South Africa	-	-	-	-	-	-	-	-	-	-	-
Other Africa	25.9	27.7	28.4	30.0	32.8	33.5	32.7	34.2	35.5	+3.8	2.0
Total Africa	**25.9**	**27.7**	**28.4**	**30.0**	**32.8**	**33.5**	**32.7**	**34.2**	**35.5**	**+3.8**	**2.0**
Australia	12.4	13.8	14.0	14.3	15.7	16.5	15.3	15.2	15.5	+2.1	0.9
China	11.5	12..1	12.8	12.7	12.9	13.2	13.4	13.6	14.2	+4.4	0.8
India	3.5	5.5	5.7	6.6	9.6	11.2	12.7	14.3	14.6	+2.4	0.8
Indonesia	5.4	5.6	5.8	6.0	6.8	7.7	8.1	8.5	9.0	+5.9	0.5
Japan	35.9	36.7	38.0	40.3	43.1	46.1	49.2	50.4	50.7	+0.5	2.8
Malaysia	2.4	3.5	4.8	5.6	6.7	6.8	8.1	9.5	10.5	+10.5	0.6
New Zealand	2.9	3.6	3.4	3.7	3.9	3.9	4.2	4.4	4.2	-5.0	0.2
Philippines	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	1.0	1.4	+36.4	0.1
South Korea	-	0.1	2.1	2.7	2.6	3.0	3.5	4.6	5.7	+24.9	0.3
Taiwan	1.0	0.9	0.9	1.0	1.0	1.3	1.9	2.0	2.0	-1.8	0.1
Thailand	2.6	2.4	3.5	5.2	5.2	5.7	7.0	7.5	8.4	+12.0	0.5
Other Asia	12.7	13.6	14.6	16.0	16.6	17.9	19.2	20.1	20.7	+2.7	1.2
Total Asia & Australasia	**90.3**	**97.8**	**105.6**	**114.1**	**124.1**	**133.3**	**142.6**	**151.1**	**156.9**	**+3.8**	**8.8**
TOTAL WORLD	**1478.6**	**1483.6**	**1562.6**	**1638.5**	**1712.9**	**1759.8**	**1772.6**	**1759.3**	**1787.1**	**+1.6**	**100.0**
of which: OECD	745.4	719.3	759.7	790.4	830.8	838.1	864.2	882.5	916.9	+3.9	51.1
LDCs	175.9	188.6	202.0	221.5	239.5	245.1	249.4	264.7	283.0	+6.9	15.9

Source : BP Statistical Review of World Energy June 1994,

Note : The discrepancy between world consumption and production statistics includes gas consumed in field operations, material impurities and statistical measurement deviations. + Less than 0.05

PRODUCTIVITY OF PRODUCING WELLS IN SELECTED FIELDS IN OPEC MEMBER COUNTRIES - 1993.
(AS AT YEAR END)

COUNTRY	Average Depth (Feet)	WELLS			AV-Daily Production (000'bbl)	t/w/d
		Flowing	Artificial Lift	Total		
1	2	3	4	5	6	7
Algeria	7674	N.A.	N.A	N.A.	747	NA
Divided Zone	9200	165	95	260	N.A.	N.A.
Gabon	6548	137	253	390	312	109
Indonesia	4084	1216	7399	8615	1327	21
I.R. Iran	10097	740	-	740	3425	631
Iraq	NA	N.A.	N.A.	N.A.	660	N.A.
Kuwait	N.A.	710	-	710	1881	361
S.P. Libyan A.J.	9886	688	471	1159	1361	160
Nigeria	8045	367	1422	1789	1905	145
Qatar	7575	280	10	290	390	183
Saudi Arabia	7700	1380	10	1390	8048	790
U.A.E.	10299	937	349	1286	2159	229
Venezuela	4600	1099	12333	13432	2326	24
Total OPEC	8571	7719	22342	30061	24542	111

t/w/d = Tonne/Well/Day. * : Including production from Neutral Zone
N.A. = Not Available.
– = Nil or negligible
Source = OPEC Annual Statistical Bulletin- 1993.

WORLD OIL REFINING CAPACITIES AT END 1985 TO 1993

(Million Tonnes Per Annum)

Country/Area	1985	1986	1987	1988	1989	1990	1991	1992	1993 (P)	%change 1993 over 1992	%change of Total 1993
1	2	3	4	5	6	7	8	9	10	11	12
North America	**870**	**876**	**883**	**871**	**865**	**871**	**874**	**850**	**842**	**-0.9**	**22.7**
USA	767	773	790	779	773	778	779	753	750	-0.4	20.2
Canada	103	103	93	92	92	93	95	97	92	-5.2	2.5
Latin America	**349**	**348**	**360**	**361**	**375**	**378**	**374**	**377**	**386**	**2.4**	**10.4**
Argentina	33	33	34	34	34	34	34	35	35	0.0	0.9
Brazil	68	63	64	66	68	68	68	69	73	5.8	2.0
Mexico	67	67	75	75	83	83	76	76	76	0.0	2.0
Netherlands Antill	16	16	16	16	16	16	23	23	24	4.3	0.6
Trinidad	13	15	15	15	15	12	12	12	15	25.0	0.4
Venezuela	61	61	63	60	58	61	61	61	61	0.0	1.7
Other Latin America	92	93	93	95	101	103	99	101	102	1.0	2.8
OECD Europe	**744**	**728**	**722**	**714**	**693**	**693**	**703**	**710**	**704**	**-0.8**	**18.9**
Belgium	36	35	35	35	35	35	35	34	34	0.0	0.9
France	108	101	94	90	84	84	84	85	84	-1.2	2.2
Germany	113	110	108	108	100	101	110	111	112	0.9	3.0
Italy	128	127	123	117	116	114	114	119	111	-6.7	3.0
Netherlands	69	69	69	69	63	62	62	62	62	0.0	1.7
Spain	62	62	62	62	62	62	62	62	62	0.0	1.7
United Kingdom	93	91	90	91	91	92	92	93	96	3.2	2.6
Other OECD Europe	136	134	140	142	142	143	143	143	143	0.0	3.8
Non-OECD Europe	**718**	**735**	**73**	**743**	**759**	**759**	**758**	**641**	**639**	**-0.3**	**17.2**
Former Soviet Union	596	609	609	610	611	611	611	504	502	-0.4	13.5
Other Non-OECD Europe	122	126	128	133	148	148	147	137	137	0.0	3.7
Middle East	**189**	**191**	**206**	**216**	**221**	**249**	**216**	**241**	**248**	**2.9**	**6.6**
Behrain	12	12	12	12	12	12	12	12	12	0.0	0.3
Iran	26	26	26	26	26	36	36	49	52	6.1	1.4
Iraq	16	16	16	16	16	16	16	16	20	25.0	0.5
Kuwait	31	31	31	41	41	41	8	17	31	82.4	0.8
Saudi Arabia	55	56	68	68	74	92	93	93	80	-14.0	2.2
Other Middle East	48	50	52	52	52	52	51	54	53	-1.9	1.4
Africa	**127**	**127**	**131**	**140**	**139**	**142**	**142**	**139**	**140**	**0.7**	**3.8**
Asia & Australasia	**626**	**621**	**615**	**612**	**622**	**656**	**686**	**734**	**757**	**3.1**	**20.4**
China	107	108	111	116	123	143	143	152	165	8.6	4.5
Indonesia	36	36	36	37	37	37	39	40	40	0.0	1.1
Japan	247	234	227	217	208	218	229	236	239	1.3	6.4
Singapore	51	48	43	46	50	53	54	56	58	3.6	1.6
South Asia	57	61	64	64	65	67	67	63	64	1.6	1.7
Of which India*	37.8	45.6	46.7	48.7	51.8	51.8	51.8	51.8	53.25	2.8	1.4
Other Asia	93	98	98	95	101	102	117	150	15.3	2.0	4.1
Australsia	35	37	36	37	37	36	36	37	38	2.7	1.0
TOTAL WORLD	**3623**	**3626**	**3653**	**3658**	**3674**	**3748**	**3752**	**3692**	**3716**	**0.7**	**100.0**

* : As on 1st April each year (P) = Provisional.
Soure : BP Statistical review of World Energy June 1994.

WORLD REFINERY CRUDE THROUGHPUT 1981 To 1993

(Million Tonnes Per Annum)

COUNTRY/AREA	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993 (P)	% age change 1993 over 1992	% Share of total 1993
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
U.S.A.	619	585	580	598	596	631	638	657	665	666	660	667	676	1.3	22.1
Canada	88	75	72	73	71	69	73	76	77	79	74	76	78	2.6	2.6
Latin America	333	308	296	290	277	279	286	299	306	312	307	310	313	1.0	10.2
OEDC Europe	565	522	504	510	494	522	515	534	576	590	622	642	647	1.1	21.2
Middle East	109	133	153	165	182	187	195	212	216	215	189	215	218	1.4	7.1
Africa	76	84	84	89	92	95	99	105	108	117	117	117	113	-3.2	3.7
China	69	75	79	88	88	93	97	101	105	107	113	122	128	4.9	4.2
Japan	180	167	162	167	155	148	144	149	158	171	181	193	198	2.6	6.5
South Asia	39	42	44	44	51	56	57	57	61	61	60	64	64	+	2.1
Of which India	30	32	34	35	41	45	47	48	52	52	51	54	• 54	0.0	1.8
Other Asia	125	117	120	124	133	139	138	158	169	181	201	221	239	8.6	7.8
Australasia	33	31	30	31	29	29	32	34	35	35	37	37	38	2.7	1.2
Non-OECD Europe	606	609	608	597	582	595	597	601	593	558	501	411	345	(-)16.1	11.3
TOTAL WORLD	**2842**	**2748**	**2732**	**2771**	**2750**	**2843**	**2872**	**2985**	**3069**	**3089**	**3063**	**3076**	**3057**	**(-)0.6**	**100.0**
Of which OECD & LDCs	**2159**	**2139**	**2124**	**2175**	**2168**	**2247**	**2275**	**2384**	**2476**	**2532**	**2564**	**2665**	**2712**	**1.8**	**88.7**

Source : BP Statistical Review of the World Energy, June 1994.

P : Provisional + : Less than 0.05

COUNTRY-WISE WORLD OIL CONSUMPTION 1985-1993 *

(Million Tonnes)

Country	1985	1986	1987	1988	1989	1990	1991	1992	1993	% Change 1993 over 1992	% Share of total 1993
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
USA	720.2	749.3	764.8	796.7	795.3	781.8	765.6	782.2	787.5	+ 0.7	25.2
Canada	68.5	71.0	73.1	76.8	80.3	77.7	74.8	74.9	76.6	+ 2.3	2.5
Total North America	**788.7**	**820.3**	**837.9**	**873.5**	**875.6**	**859.5**	**840.4**	**857.1**	**864.1**	**+ 0.8**	**27.7**
Argentina	19.0	20.5	21.8	21.8	19.8	18.5	19.3	19.7	19.8	+ 0.6	0.6
Brazil	51.7	56.3	57.6	58.9	59.5	58.4	59.0	62.1	63.2	+ 1.8	2.0
Mexico	60.5	60.3	62.0	62.2	65.6	69.6	69.9	70.9	71.2	+ 0.4	2.3
Venezeuela	17.2	18.1	18.1	18.9	17.9	18.3	18.5	19.6	19.2	- 2.2	0.6
Other Latin America	61.1	62.2	64.2	67.0	71.0	71.3	71.9	75.0	76.5	+ 2.0	2.5
Total Latin America	**209.5**	**217.4**	**223.7**	**228.8**	**233.8**	**236.1**	**238.6**	**247.3**	**249.9**	**+1.1**	**8.0**
Austria	9.8	10.4	10.7	10.6	10.4	10.8	11.6	11.3	11.2	- 1.4	0.4
Belgium & Luxembourg	20.8	23.5	23.7	24.4	24.4	24.8	26.5	27.1	26.1	- 3.7	0.8
Denmark	10.7	10.5	9.6	9.5	9.2	9.0	9.1	9.0	9.5	+ 5.8	0.3
Finland	10.8	11.3	11.2	11.0	11.0	11.0	10.6	10.3	9.9	- 4.3	0.3
France	84.3	86.0	86.6	86.0	88.4	89.4	94.6	94.4	92.0	- 2.6	2.9
Germany	126.3	133.3	129.5	129.4	121.6	127.3	133.1	134.3	136.9	+ 1.9	4.4
Greece	12.0	12.2	13.2	13.7	15.0	15.7	15.8	16.1	16.2	+ 0.9	0.5
Iceland	0.5	0.5	0.6	0.6	0.7	0.6	0.6	0.7	0.7	+ 3.7	+
Republic of Ireland	4.0	4.8	4.1	3.9	4.0	4.4	4.6	4.7	4.9	+ 3.7	0.2
Italy	84.4	86.5	90.1	91.7	93.8	93.6	92.4	93.5	91.8	- 1.7	0.2
Netherlands	29.2	32.4	32.4	34.5	33.9	35.0	35.8	36.5	36.4	- 0.4	1.2
Norway	9.0	9.3	9.7	9.2	9.0	9.2	8.7	9.0	9.2	+ 2.8	0.3
Portugal	8.8	9.5	8.9	8.7	11.3	11.1	11.5	12.8	11.9	- 7.4	0.4
Span	42.9	42.7	44.7	45.8	48.1	48.7	49.4	52.8	51.5	- 2.6	1.6
Sweden	18.4	18.7	17.1	16.3	16.5	16.4	15.5	16.4	16.1	- 2.0	0.5
Switzerland	12.0	13.2	12.4	12.4	11.9	12.8	13.0	13.1	12.3	- 6.3	0.4
Turkey	16.8	18.3	21.0	22.3	20.8	22.1	22.1	23.5	27.0	+ 14.7	0.9
United Kingdom	77.4	77.4	75.2	80.0	81.7	82.9	82.7	83.7	84.1	+ 0.4	2.7
Total OECD Europe	**578.1**	**600.5**	**600.7**	**610.0**	**611.7**	**624.8**	**637.6**	**649.2**	**647.7**	**- 0.3**	**20.7**
Former Soviet Union	417.1	418.2	420.2	414.6	413.4	420.1	393.4	339.0	274.5	- 19.0	8.8
of which : Russian Federation	244.3	247.6	249.8	248.0	252.8	249.7	243.4	220.4	178.6	- 19.0	5.7
Ukraine	65.2	63.3	65.9	60.6	58.0	63.0	57.5	42.6	30.2	- 29.1	1.0
Others	107.6	107.3	104.5	106.0	102.6	107.4	92.5	76.0	65.7	- 13.6	2.1
Czech R. & Slovakia	17.2	17.0	17.1	16.6	17.1	15.4	13.2	12.0	12.4	+ 2.7	0.4
Hungary	10.3	9.6	9.7	8.9	8.3	8.4	8.0	7.9	8.2	+ 4.4	0.3
Poland	14.3	14.5	14.5	15.2	15.5	14.1	13.5	14.0	14.0	+ 0.2	0.4
Other Non-OECD Europe	47.4	53.1	52.3	53.4	53.7	49.5	32.7	24.9	22.9	- 8.0	0.7
Total Non-OECD Europe	**506.3**	**512.4**	**513.8**	**508.7**	**508.0**	**507.5**	**460.8**	**397.8**	**332.0**	**- 16.5**	**10.6**
Total Middle East	**144.7**	**143.6**	**149.1**	**147.5**	**152.7**	**162.8**	**164.5**	**168.7**	**173.4**	**+ 2.8**	**5.6**
South Africa	14.6	14.1	14.9	16.2	16.8	16.9	17.0	17.4	18.1	+ 3.9	0.6
Other Africa	68.1	66.8	69.6	71.7	76.1	79.7	80.1	81.2	81.3	+ 0.2	2.6
Total Africa	**82.7**	**80.9**	**84.5**	**87.9**	**92.9**	**96.6**	**97.1**	**98.6**	**99.4**	**+ 0.8**	**3.2**
Australia	27.0	28.2	28.7	29.9	31.1	31.6	30.8	30.9	32.0	+ 3.7	1.0
China	90.3	100.0	105.3	110.2	112.3	110.3	117.9	129.0	143.3	+ 11.1	4.6
India	43.3	45.5	47.0	51.5	55.8	57.9	58.9	62.1	62.4	+ 0.5	2.0
Indonesia	22.0	22.1	24.1	25.2	26.9	31.0	32.4	35.2	38.0	+ 8.1	1.2
Japan	206.3	208.5	209.2	224.7	232.9	247.7	252.1	258.5	252.6	- 2.3	8.1
Malaysia	9.4	9.4	9.6	10.1	10.9	13.0	13.9	14.0	14.4	+ 3.0	0.5
New Zealand	3.8	4.0	4.3	4.4	4.5	4.8	5.1	5.8	5.6	- 2.2	0.2
Philippines	7.4	7.8	9.1	9.8	11.0	11.5	11.1	13.7	14.1	+ 3.0	0.5
Singapore	11.8	13.9	14.2	16.5	18.9	19.5	19.9	21.0	22.1	+ 4.9	0.7
South Korea	25.2	27.4	29.0	34.7	39.9	48.7	58.7	70.9	77.0	+ 8.6	2.5
Talwan	15.9	18.1	19.0	22.9	25.0	26.2	27.9	28.6	30.4	+ 6.4	1.0
Thailand	11.0	11.3	12.8	14.5	17.0	19.6	21.4	23.6	26.8	+ 13.8	0.9
Other Asia	25.8	26.4	27.1	28.3	29.2	31.0	30.6	33.6	36.2	+ 7.5	1.2
Total Asia & Australasia	**499.2**	**522.6**	**539.4**	**582.7**	**615.4**	**652.8**	**680.7**	**726.9**	**754.9**	**+ 3.9**	**24.4**
TOTAL WORLD	**2809.2**	**2897.7**	**2949.1**	**3039.1**	**3090.1**	**3140.1**	**3119.7**	**3145.6**	**3121.4**	**- 0.8**	**100.0**
of which OECD	1603.9	1661.5	1680.8	1742.5	1755.8	1768.4	1766.0	1801.5	1802.0	+	57.7
LDCs	699.0	723.8	754.5	787.9	826.3	864.2	892.9	946.3	987.4	+ 4.3	31.9

* Inland demand plus international aviation and marine bunkers and refinery fuel and loss.

\+ Less than 0.05

Note : Differences between world production and consumption are accounted for by stock changes, statistical differences and oil unidentified.

Source : BP statistical Review of World Energy, June 1994.

PRODUCT-WISE REGIONAL CONSUMPTION OF MAIN PETROLEUM PRODUCTS DURING 1985-93

(Million Tonnes)

Country	1985	1986	1987	1988	1989	1990	1991	1992	1993 (P)	% Change 1993 over 1992	% Share of total 1993
1	2	3	4	5	6	7	8	9	10	11	12
USA											
Gasolines	305.4	314.3	325.2	333.8	335.6	329.5	324.2	331.2	335.6	+ 1.3	42.6
Middle distillates	204.8	213.4	218.6	229.7	231.7	230.5	225.3	228.9	233.9	+ 2.2	29.7
Fuel oil	67.3	78.2	69.4	76.0	75.0	67.2	63.0	59.4	57.6	- 3.0	7.3
Others	142.6	143.5	151.6	157.2	153.1	154.6	153.1	162.7	160.3	- 1.5	20.4
Total USA	**720.1**	**749.4**	**764.8**	**796.7**	**705.4**	**781.8**	**765.6**	**782.2**	**787.4**	**+ 0.7**	**100.0**
Canada											
Gasolines	27.7	29.2	29.2	28.3	28.7	28.4	27.4	23.6	25.0	+ 5.6	32.6
Middle distillates	22.2	22.6	22.8	24.2	25.1	24.0	22.4	23.8	24.4	+ 2.5	31.9
Fuel oil	5.6	6.4	7.1	7.7	9.4	8.7	7.7	8.3	7.3	- 11.9	9.6
Others	13.0	12.9	13.9	16.5	17.1	16.6	17.3	19.1	19 9	+ 4.2	25.9
Total Canada	**68.5**	**71.1**	**73.0**	**76.7**	**80.3**	**77.7**	**74.8**	**74.8**	**76.6**	**+ 2.3**	**100.0**
OECD Europe											
Gasolines	139.5	146.0	149.1	154.4	156.5	163.1	163.6	165.4	166.0	+ 0.4	25.6
Middle distillates	228.1	238.8	240.9	243.9	242.1	247.9	258.9	260.9	264.0	+ 1.2	40.8
Fuel oil	120.6	121.4	114.1	110.3	110.9	110.3	109.3	112.7	107.8	- 4.4	16.6
Others	89.7	93.9	96.6	101.2	102.1	103.4	105.9	110.3	109.8	- 0.5	17.0
Total OECD Europe	**577.9**	**600.1**	**600.7**	**609.8**	**611.6**	**624.7**	**637.7**	**649.3**	**647.6**	**- 0.3**	**100.0**
Japan											
Gasolines	41.5	43.1	44.4	46.7	49.4	51.0	52.8	55.9	56.4	+ 0.9	22.3
Middle distillates	63.6	66.6	69.5	76.8	79.2	83.1	86.5	88.4	89.6	+ 1.3	35.5
Fuel oil	62.4	59.2	56.9	61.8	62.9	71.0	68.9	68.4	60.0	- 12.3	23.7
Others	38.8	39.6	38.5	39.4	41.3	42.6	43.9	45.9	46.7	+ 1.7	18.5
Total Japan	**206.3**	**208.5**	**209.3**	**224.7**	**232.8**	**247.7**	**252.1**	**268.6**	**252.7**	**- 2.3**	**100.0**
Australasia											
Gasolines	13.5	13.4	13.5	14.0	14.5	14.7	14.6	15.5	15.6	+ 0.5	41.3
Middle distillates	10.4	10.9	11.5	12.1	12.6	12.9	13.0	13.2	13.7	+ 3.5	36.3
Fuel oil	2.9	2.6	2.5	2.5	2.7	2.4	2.5	2.1	2.0	- 4.7	5.3
Others	3.9	5.2	5.5	5.7	5.8	6.4	5.8	5.8	6.4	+ 10.3	17.1
Total Australasia	**30.7**	**32.1**	**33.0**	**34.3**	**35.6**	**36.4**	**35.9**	**36.6**	**37.7**	**+ 2.8**	**100.0**
Asian LDCs											
Gasolines	38.2	41.6	46.8	49.5	54.3	65.1	69.9	79.1	86.7	+ 9.7	18.7
Middle distillates	104.5	113.1	115.0	125.7	136.1	143.2	152.9	169.6	185.0	+ 9.0	39.8
Fuel oil	86.5	89.0	93.2	102.6	110.2	111.9	117.0	124.7	131.3	+ 5.3	28.3
Others	32.8	38.3	42.2	46.0	46.2	48.4	53.0	58.3	61.7	+ 5.8	13.2
Total Asian LDCs	**262.0**	**282.0**	**297.2**	**323.6**	**346.8**	**368.6**	**392.8**	**431.7**	**464.7**	**+ 7.6**	**100.0**
Non-Asian LDCs											
Gasolines	93.4	94.7	96.4	97.8	102.6	107.2	109.8	113.0	116.7	+ 3.3	22.3
Middle distillates	152.3	152.4	158.6	158.4	160.4	165.6	168.7	172.8	178.4	+ 3.2	34.1
Fuel oil	123.9	126.2	129.0	130.1	137.1	139.0	139.8	136.5	134.7	- 1.3	25.8
Others	67.2	68.4	73.1	77.8	79.3	83.8	82.1	92.3	92.9	+ 0.7	17.8
Total Non-Asian LDCs	436.8	441.7	457.1	464.1	479.4	495.6	500.4	514.6	522.7	+ 1.6	100.0
OECD & LDCs											
Gasolines	659.2	682.3	704.6	724.5	741.6	759.0	762.3	783.7	802.0	+ 2.3	28.7
Middle distillates	785.9	817.8	836.9	870.8	887.2	907.2	927.7	957.6	989.0	+ 3.3	35.5
Fuel oil	469.2	483.0	472.2	491.0	508.2	510.5	508.2	512.1	500.7	- 2.2	18.0
Others	388.0	401.8	421.4	443.8	444.9	455.8	461.1	494.4	497.7	+0.7	17.8
Total OECD &OLDCs	**2302.3**	**2384.9**	**2435.1**	**2530.1**	**2581.9**	**2632.5**	**2659.3**	**2747.8**	**2789.4**	**+ 1.5**	**100.0**

Note :

'Gasolines' consists of aviation and motor gasolines and light distillate feedstock (LDF)

'Middle distillates' consists of jet and heating kerosines, and gas and diesel oils (including marine bunkers)

'Fuel oil' includes marine bunkers

'Others' consists of refinery gas, LPGs, solvents, petroleum coke, lubricants, bitumen, wax and refinery fuel and loss.

P : Provisional

Source : BP Statistial review of World Energy June. 1994

OECD Members

Europe : Austria, Belgium, Denmark, Finland, France Germany, Greece, Iceland, Republic of Ireland, Italy, Netherland, Norway, Portugal Spain, Sweden, Switzerland, Turkey, United Kingdom

Other member countries : Australia, Canada, Japan, New Zealand, USA,

LDCs

Non-OECD countries excluding USSR, Cambodia, China, Central Europe, Cuba, Laos, Mongolia, North Korea and Vietnam.

OECD & LDCs

Equivalent to 'Non-Communist World (NCW) grouping of previous Reviews.

WORLD OIL PRODUCTION, CONSUMPTION AND RELATIVE DEFICIT/SURPLUS IN EACH REGION/COUNTRY DURING 1993 & 1990

(Million Tonnes)

Country/Region	1993 (P)				1990			
	Production	Consumption	Deficit/ Surplus	% extent of dependence.	Production	Consumption	Deficit/ Surplus	% extent of dependence
1	2	3	4	5	6	7	8	9
North America (Including Canada)	504.1	864.1	–360.0	–41.7	514.1	859.5	–345.4	–40.2
Latin America	406.5	249.9	156.6	62.7	372.6	236.1	136.5	57.8
OECD Europe	243.5	647.7	–404.2	-62.4	201.7	624.8	–423.1	–67.7
Middle East	944.7	173.4	771.3	444.8	845.0	162.8	682.2	419.0
Africa	330.7	99.4	231.3	232.7	312.6	96.6	216.0	223.6
Asia	304.3	717.3	–413.3	-57.6	293.5	621.2	–327.7	–52.8
Of which India	27.6	62.4	–34.8	-55.8	33.9	57.9	–24.0	–41.5
Japan	–	252.6	–252.6	–100.0	–	247.7	–247.7	–100.0
China	144.0	143.3	0.7	0.5	138.3	110.3	28.0	25.4
Australasia	25.0	37.6	–12.6	-33.5	28.5	31.6	–3.1	–9.8
Non-OECD Europe	406.1	332.0	74.1	22.3	585.8	507.5	78.3	15.4
Former Soviet Union	393.4	274.5	118.9	43.3	570.5	420.1	150.4	35.8
Total World :	**3164.8**	**3121.4**	**43.4**	**1.4**	**3153.9**	**3140.1**	**13.8**	**0.4**

(P) = Provisional.
Source : B.P. Statistical Review of World Energy June, 1994.

WORLD CRUDE OIL & PETROLEUM PRODUCTS IMPORTS/EXPORTS-1993*

(Million Tonnes)

Country/Area	IMPORTS		EXPORTS	
	Crude	Products	Crude	Products
1	2	3	4	5
U.S.A	335.2	85.9	5.3	40.8
Canada	29.3	8.0	45.1	14.8
Latin America	55.7	14.2	142.9	45.7
OECD Europe	429.9	81.3	41.0	34.3
Middle East	4.5	3.9	729.2	86.7
North Africa	4.6	5.1	103.1	29.4
West Africa	2.1	6.5	129.8	3.3
East & Southern Africa	18.6	6.6	-	0.5
South Asia	30.0	19.4	0.2	2.2
Other Asia	162.4	54.9	51.0	31.9
Japan	218.9	43.6	0.1	5.9
Australasia	20.1	2.2	7.4	4.4
Non-OECD Europe & China	35.6	24.3	87.4	36.1
Destination not known*	-	-	4.4	19.9
Total World	**1346.9**	**355.9**	**1346.9**	**355.9**

* Includes changes in the quantity of oil in transit, movements not otherwise shown, unidentified military use, etc.

Notes :

(i) Bunkers are not included as exports.

(ii) Intra-area movements (for example between individual countries in OECD Europe) are excluded.

SOURCE : BP Statistical Review of World Energy, June 1994.

EXPORTS OF CRUDE OIL AND REFINED PRODUCTS FROM OPEC MEMBER COUNTRIES.

(Million Tonnes)

Country	1980	1985	1987	1988	1989	1990	1991	1992	1993
1	2	3	4	5	6	7	8	9	10
				CRUDE OIL :					
Algeria	35.6	13.5*	11.9*	12.1*	13.9	13.9*	17.1	13.9r	15.3
Ecuador	5.4	9.6	6.2	9.4	8.7	8.5	8.9	NR	NR
Gabon	7.5	8.1	6.9	7.3	8.6	11.9*	13.8	13.6	14.8
Indonesia	49.2	35.0	34.8	32.2	33.5	34.0	39.7	32.6r	33.9*
Iran,IR	39.7	77.9*	84.9*	84.4*	100.5	110.2*	120.1*	126.2*	129.5*
Iraq	123.5	53.9*	85.2*	104.3*	112.2*	79.2*	2.1r	3.0*	2.9*
Kuwait	64.5	23.6	30.1*	34.8*	42.2*	32.0*	4.2*	34.7*	71.7*
Libya	84.3	44.4*	40.2*	44.3*	43.3*	54.1*	60.6*	58.7*	55.3*
Nigeria	97.6	66.2	52.9	55.3*	75.7	76.9*	79.9*	78.9*	77.5
Qatar	23.2	13.9	12.6*	15.2*	15.9*	17.3	16.7	18.1	17.0
Saudi Arabia	459.1	106.8	120.0	150.8	165.6	223.4r	324.0r	328.6r	313.4
U.A.E	84.5	48.5*	62.0*	66.9*	81.9*	94.1*	109.0*	102.9*	98.1*
Venzuela	64.1	41.0	51.0	48.4	49.0	61.7	68.6r	71.4r	80.3
TOTAL :	**1138.2**	**542.4**	**598.7**	**665.4**	**751.0**	**817.2**	**864.6**	**881.9**	**909.7**
				REFINED PETROLEUM PRODUCTS :					
Algeria	7.4	15.9*	18.1*	18.7*	19.6	22.5*	19.9	20.9*	18.7
Ecuador	1.1	0.7	0.8	1.2	1.1	1.3	1.2	NR	NR
Gabon	0.5	0.2*	0.1*	0.1	Neg.	0.1*	0.2	0.3	0.3
Indonesia	8.1	7.4	9.3	10.2	11.5	11.9	11.5	12.7r	11.8*
Iran, IR	7.0	2.0*	0.1*	0.4*	1.9*	3.0*	4.4*	3.5*	3.5*
Iraq	1.7	0.6*	5.5*	5.5*	7.2*	4.0*	-	0.8*	0.9*
Kuwait	17.1	24.5	27.5*	31.6*	34.3*	18.9*	2.0*	12.8*	20.9
Libya	3.6	4.5*	5.5*	4.5*	6.3*	7.5*	7.0*	8.5*	7.1
Nigeria	3.7	1.0	0.8	1.0*	1.5	1.5*	1.5	1.5*	1.6
Qatar	0.1	1.4*	2.0*	2.2*	3.7*	3.7*	4.1	5.2	5.8
Saudi Arabia	20.6	28.5	50.7	56.8	53.4	64.8r	60.9r	64.3r	69.0
U.A.E	1.0	4.6*	5.7*	5.8*	7.7*	8.2*	8.5*	8.6*	8.0*
Venzuela	28.1	26.3	23.7	31.0	30.8	30.7	35.3	30.7r	31.6
TOTAL	**100.0**	**117.6**	**149.8**	**169.0**	**179.2**	**177.8**	**156.3**	**169.8**	**179.1**

* Provisional or estimated figures, as of July 12, 1994
r = Revised
NR = Not reported
Note : Ecuador withdrew its membership of OPEC at end 1992
Source : OPEC Annual Statistical Bulletin 1993

CRUDE OIL IMPORTS FROM OPEC MEMBER COUNTRIES BY REGIONS 1980-1993

(Million Tonnes)

IMPORT REGION	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
North America	210.7	79.6	66.2	65.2*	60.9*	107.2*	124.4*	135.8	170.9*	190.9	189.6	176.5	192.8
Of which USA	188.0	70.2	60.8	60.4	56.3	99.9	118.6	130.3	162.6	181.0	179.6	172.2	184.2
Latin America	111.6	68.9	60.5	56.5*	45.4*	40.9*	32.6*	37.3	33.6*	35.9*	33.7	43.0	38.8
Western Europe	453.1	275.6	232.8	233.1*	223.3*	261.7*	218.6*	235.9	259.7*	272.7*	279.0	278.4	273.7
Of which:													
France	100.0	57.0	44.1	44.9	37.3	42.8	25.8	29.2	35.1	40.0	44.9	44.5	52.3
Germany	65.8	40.2	32.5	25.1	20.6	25.9	23.2	27.9	32.3	35.0	36.8	36.9	30.2
Italy	67.5	61.0	52.7	51.2	49.3	56.8	49.5	44.2	48.7	56.4	61.3	56.9	55.5
U.K.	34.5	18.5	12.4	9.6	10.5	12.7	9.1	11.9	10.2	14.7	14.2	13.5	17.2
Middle East	21.8	23.8	19.2	18:5	19.1*	21.1*	15.2*	13.9	14.1*	14.9*	14.2	15.4	14.8
Africa	16.2	10.1	7.5	8.3*	8.2*	9.8*	11.0*	9.9	11.6*	14.7*	17.8	14.1	13.9
Asia and Far East	285.3	225.4	212.2	192.4*	162.2*	167.3*	164.8*	193.1	224.4*	257.1*	299.6	331.3	345.4
Of which :													
Japan	176.2	138.4	134.0	134.9	114.4*	107.6	113.7	115.6	133.2	147.6	155.6	162.6	169.6
Oceania	10.6	9.1	5.3	4.8*	2.3*	3.1*	5.7*	4.3	7.0	5.9	6.5	8.4	10.5
Eastern Europe	17.2	8.6	6.0	9.8	11.0*	21.9*	20.2	23.5	25.7*	16.5*	11.4	12.0	7.0
Unspecified	6.2	2.8	3.1	2.6	0.4	-	-	2.1	-	-	3.6	-	4.9
OECD Area	850.6	502.6	438.4	438.0	393.6	475.1	456.9	484.3	561.7	608.4	624.1	635.0	664.5
TOTAL WORLD	1132.7	703.9*	612.9*	591.2*	532.8*	632.6*	592.5*	656.0*	747.0*	808.7*	855.6*	879.1r	906.9*

r = Revised.

Source = OPEC Annual Statistical Bulletin 1993.

Note : Figures Converted to million tonnes using conversion factor : 1 barrel = 0.136 Metric tonnes

* = provisional or estimated figures, as of July 12.1994

- = Nil or Negligible

OPEC Member Countries' Crude Oil Exports by Destination 1993

DESTINATION/ COUNTRY	Algeria	Gabon	Indonesia	Iran	Iraq	Kuwait	Libya	Nigeria	Qatar	Saudi Arabia	UAE	Venezuela
1	2	3	4	5	6	7	8	9	10	11	12	13
North America	21.7	122.0	79.1	28.4	-	354.2	-	786.5	-	1336.3	94.4	1060.8
Latin America	-	14.7	-	70.0	-	65.0	-	63.0	6.2	168.5	10.0	384.7
Eastern Europe	6.0	-	-	100.0	-	-	35.0	-	-	-	-	-
Western Europe	259.3	36.1	1.9	1340.0	-	455.9	1045.0	510.0	-	1721.6	85.5	158.4
Middle East	-	-	-	30.0	59.2	-	-	-	-	204.6	5.0	-
Africa	-	3.6	-	450	-	10.0	15.0	81.8	-	93.0	30.0	1.9
Asia and Far East	-	38.7	559.3	983.8	-	552.1	15.0	115.7	330.2	2702.5	1653.4	7.4
Oceania	-	3.6	41.3	2.8	-	2.8	-	-	4.2	66.4	91.4	NA
Unspecified	21.0	78.7	-	-	-	-	-	-	-	-	-	NA
OECD	281.0	190.0	480.0	1618.0	-	1085.9	1041.0	1296.5	281.8	4530.6	1355.2	1226.6
Total World	**308.0**	**297.4**	**681.6***	**2600.0***	**59.2***	**1440.0***	**1110.0***	**1557.0**	**340.6**	**6292.9**	**1970.0***	**1613.2**

Source : OPE Annual Statistical Bulletin 1993.
* Provisional or estimated figures, as of July 12 1994

OIL REVENUES OF OPEC MEMBER COUNTRIES : 1974-1984

(Billion US$)

OPEC MEMBER COUNTRIES	1974	1978	1979	1980	1981	1982	1983	1984
1	2	3	4	5	6	7	8	9
Algeria	3.30	4.59	7.52	12.50	10.70	8.50	9.70	9.70
Ecuador	0.41	0.40	0.80	1.39	1.56	1.18	1.10	1.60
Gabon	0.17	0.50	0.90	1.80	1.60	1.50	1.50	1.40
Indonesia	1.37	5.20	8.10	12.86	14.39	12.70	9.66	10.40
Iran	17.82	19.30	20.50	13.50	9.30	17.60	20.00	16.70
Iraq	5.70	10.20	21.29	26.10	10.40	9.50	8.40	10.40
Kuwait	6.54	7.95	16.86	17.90	14.90	9.48	9.90	10.80
Libya	6.00	8.40	15.22	22.60	15.60	14.00	11.20	10.40
Nigeria	6.66	7.90	15.90	23.41	16.72	13.09	10.10	12.40
Qatar	1.45	2.20	3.08	4.80	4.72	3.15	3.00	4.40
Saudi Arabia	22.57	32.23	57.52	102.21	113.20	76.00	46.10	43.70
U.A.E.	5.54	8.20	10.86	19.50	18.70	16.00	12.80	13.00
Venezuela	9.27	7.32	11.96	16.34	17.40	13.54	13.50	13.70
TOTAL :	**85.80**	**114.39**	**192.51**	**274.91**	**249.19**	**196.24**	**156.96**	**158.60**

VALUE OF PETROLEUM EXPORTS@ FROM OPEC MEMBER COUNTRIES : 1980-1993

(Billion US $)

OPEC MEMBER COUNTRIES	1980	1983	1984	1986	1988	1989	1990	1991	1992	1993 (P)
1	2	3	4	5	6	7	8	9	10	11
Algeria	12.65	9.47	9.19	4.82	4.99	7.00	8.85	9.59	8.17	7.98
Ecuador	1.55	1.58	1.78	0.98	0.98	1.15	1.26	1.03	NA	NA
Gabon	1.74	1.65	1.68	0.72	0.78	1.20	1.97	1.74	1.71	1.51
Indonesia	12.85	13.48	12.10	5.17	5.19	6.06	6.48	5.75	5.85r	5.28
Iran	13.29	19.02	12.26	6.26	9.21	10.81	16.70	15.28	15.70	14.24
Iraq	26.10	7.82	9.35	6.91	10.95	14.50	9.46	0.38	0.33	0.36
Kuwait	17.68	9.74	10.74	6.38	6.39	9.31	5.54	1.40r	6.22r	9.99
Libya	21.38	11.86	10.59	5.44	5.17	7.50	9.80	10.02	9.20	7.61
Nigeria	25.29	10.06	11.75	6.01	6.27	7.47	13.20	12.15	11.69	11.02
Qatar	5.41	3.11	4.39	1.72	1.71	1.96	2.96	2.19	3.20	2.59
Saudi Arabia	105.81	42.81	34.24	16.98	20.21	24.10	40.13	24.66r	47.56	41.35
U.A.E.	19.56	12.24	12.98	7.45	7.35	11.30r	15,60r	14.77r	14.49	13.55
Venezuela	17.56	13.86	14.82	7.18	8.16	10.00	13.95	12.31r	11.21	10.57
TOTAL :	**280.86**	**156.69**	**145.87**	**76.01**	**87.35**	**111.35**	**144.90**	**130.67**	**135.33r**	**126.05**

SOURCE : OPEC Annual Statistical Bulletin - 1993

@ = Where applicable, petroleum product exports are included. Data for some countries may include exports of condensates, as well as other NGLs.

Note : Figures when added, may not correspond to totals, due to rounding off Starting 1980, Saudi Arabian data excludes NGLs.

Total OPEC for 1991 excludes revenues for Iraq and Kuwait

r : Revised

P = Provisional

OFFICIAL DEVELOPMENT ASSISTANCE FROM OECD AND OPEC MEMBERS : 1988-91

COUNTRIES	AMOUNT (Million of U.S.$)				As percentage of donor G.N.P.			
	1988	1989	1990	1991 (P)	1988	1989	1990	1991 (P)
1	2	3	4	5	6	7	8	9
OECD :								
Italy	3193	3613	3395	3352	0.39	0.42	0.32	0.30
New Zealand	104	87	95	100	0.27	0.22	0.23	0.25
United Kingdom	2645	2587	2638	3348	0.32	0.31	0.27	0.32
Japan	9134	8965	9069	10952	0.32	0.31	0.31	0.32
Austria	301	283	394	548	0.24	0.23	0.25	0.34
Finland	608	706	846	930	0.59	0.63	0.64	0.76
Australia	1101	1020	955	1050	0.46	0.38	0.34	0.38
Canada	2347	2320	2470	2604	0.50	0.44	0.44	0.45
Netherlands	2231	2094	2592	2517	0.98	0.94	0.94	0.88
Belgium	601	703	889	831	0.39	0.46	0.45	0.42
France	6865	7450	9380	7484	0.72	0.78	0.79	0.62
United States	10141	7676	11394	11262	0.21	0.15	0.21	0.20
Denmark	922	937	1171	1200	0.89	0.93	0.93	0.96
Germany	4731	4949	6320	6890	0.39	0.41	0.42	0.41
Norway	985	917	1205	1178	1.13	1.05	1.17	1.14
Sweden	1534	1799	2012	2116	0.86	0.96	0.90	0.92
Switzerland	617	558	750	863	0.32	0.30	0.31	0.36
Ireland	57	49	57	72	0.20	0.17	0.16	0.19
TOTAL :	**48117**	**46713**	**55632**	**57197**				
OPEC								
Nigeria	14	70	13	NA	0.05	0.28	0.06	NA
Iran	39	-94	2	NA	0.01	-0.02	NA	NA
Iraq	-22	21	55	0	-0.04	0.04	NA	NA
Algeria	13	40	7	5	0.03	0.11	0.03	0.01
Venezuela	55	52	15	NA	0.09	0.13	0.03	NA
Libya	129	86	4	25	0.63	0.41	0.01	0.09
Saudi Arabia	2048	1171	3692	1704	2.53	1.37	3.90	1.44
Kuwait	108	169	1666	387	0.40	0.54	NA	NA
U.A.E	-17	2	888	558	-0.07	0.02	2.65	1.66
Qatar	4	-2	1	1	0.08	-0.04	0.02	0.01
TOTAL OAPEC	**2263**	**1487**	**6313**	**NA**	**0.86**	**NA**	**NA**	**NA**
TOTAL OPEC	**2360**	**1514**	**6341**	**NA**	**0.34**	**0.21**	**NA**	**NA**

P : Provisional NA : Not available

SOURCE : WORLD DEVELOPMENT REPORT 1994

LOAN ASSISTANCE FROM OPEC AND OTHER OIL SUPPLYING NATIONS : 1980-81 TO 1992-93

(Rs. Crores)

	1980-81	1982-83	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93
	1	2	3	4	5	6	7	8	9	10
U.S.S.R.:										
Authorisation	485.7	--	1134.0	2055.5	1162.7	6210.0	1880.0	--	--	--
Utlisation	32.9	40.0	161.2	175.5	222.1	207.2	218.4	295.3	137.4	34.8
OPEC										
Abu Dhabi Fund :										
Authorisation	--	--	--	--	--	--	--	--	--	--
Utilisation	2.0	--	--	--	--	--	--	--	--	--
OPEC Fund Loans										
Authorisation	39.8	29.3	--	9.0	10.4	14.6	--	11.6	--	--
Utilisation	3.4	37.4	4.7	7.4	24.5	29.0	6.9	9.8	18.1	10.1
U.A.E. Loans :										
Authorisation	--	--	--	--	--	--	--	--	--	--
Utilisation	--	--	--	--	--	--	--	--	--	--
Saudi Arab Fund: for Devep.										
Authorisation	--	--	51.6	--	50.2	--	--	--	--	--
Utilisation	13.0	12.4	0.2	7.4	0.9	5.6	42.6	29.7	26.5	2.2
Kuwait Fund : for Arab Economic Develop.										
Authorisation	--	--	30.8	--	--	36.1	--	--	--	--
Utlisation	8.6	25.5	53.4	23.0	10.8	1.8	1.5	1.3	--	5.6
Iraq-Loans :										
Authorisation	82.9	--	--	--	--	--	--	--	--	--
Utilisation	0.7	--	--	--	--	--	--	--	--	--
Iran-Loans :										
Authorisation	--	--	--	--	--	--	--	--	--	--
Utilisation	17.3	--	--	--	--	--	--	--	--	--
TOTAL OPEC ASSISTANCE:										
Authorisation	122.7	29.3	82.4	9.0	60.6	50.7	--	11.6	--	--
Utilisation	45.0	75.3	58.3	37.8	36.2	36.4	51.0	40.8	44.6	17.9

Note :- 1. Figures of authorisation of assistance include agreements signed on Government and non-Government assistance.

2. Utilization of assistance is on Government and non-Government accounts.

3. Utilization figures are exclusive of suppliers credit and commercial borrowings.

SOURCE : Economic Survey, 1993-94

-- : Nil

OFFICIAL SELLING PRICE OF KEY OPEC CRUDE SINCE 1987

(US $/bbl)

Period		Country/Crude Name													
		Kuwait	S.P. Libyan A.J.	Nigeria	Qatar	Saudi Arabia		UAE	Venezuela	Indonesia	I.R. Iran		Iraq		Oman
		Kuwait Exp.	Brega	Forcados	Dukhan	Arab Medium	Arab Heavy	Murban	T.J. Medium	Attaka	Iran Light	Iran Heavy	Basrah	Kirkuk	Oman
		31.4/2.6	40.4/0.2	29.5/0.21	41.4/1.1	30.3/2.4	28.0/3.0	39.4/0.8	24.0/1.85	42.3/0.09	33.9/1.4	31.0/1.6	34.0/2.0	36.1/2.1	36.3/0.79
1987		16.48	18.08	18.40	17.40	16.58	16.12	17.54	16.42	18.46	17.03	16.57	16.90	17.23	17.25
1988		12.61	14.72	15.00	13.63	12.71	12.13	13.92	12.90	15.40	13.26	12.85	13.66	13.79	13.53
1989		15.23	18.21	18.29	16.18	15.39	14.93	16.61	15.85	18.54	16.04	15.54	16.33	16.90	16.07
1990		-	23.82	23.74	21.22	19.50	18.77	21.70	18.58	23.73	20.64	19.91	-	-	20.89
1991		-	20.45	20.20	17.89	15.80	14.05	18.19	15.71	20.67	17.37	16.36	-	-	17.18
1992		-	19.52	19.59	18.45	16.36	15.16	18.83	16.02	20.51	17.73	16.68	-	-	17.68
1991	Jan.	-	24.56	24.13	20.90	18.70	16.70	21.20	20.17	24.57	20.20	19.45	-	-	20.20
	Feb.	-	20.31	19.69	15.56	13.51	11.26	15.49	13.78	20.31	15.11	14.24	-	-	14.86
	Mar.	-	19.80	18.84	16.14	14.34	11.84	15.64	13.66	18.75	15.89	14.89	-	-	15.39
	Apr.	-	19.41	18.46	16.48	14.81	12.71	16.16	14.82	18.19	16.29	15.08	-	-	15.78
	May	-	19.35	18.78	17.13	14.99	13.39	17.22	15.39	19.01	16.97	15.97	-	-	16.47
	June	-	18.19	17.79	16.60	14.53	12.93	16.70	15.39	19.46	16.23	15.23	-	-	15.95
	July	-	19.47	19.25	17.45	15.44	13.88	18.06	15.84	19.92	16.82	15.77	-	-	16.77
	August	-	19.86	19.93	17.84	15.80	14.28	18.51	15.84	20.01	17.19	16.11	-	-	17.15
	Sept.	-	20.74	20.95	19.00	16.68	15.08	19.50	15.84	20.79	18.35	17.35	-	-	18.30
	Oct	-	22.40	22.75	20.10	17.94	16.44	20.91	16.65	21.64	19.45	18.45	-	-	19.40
	Nov.	-	21.40	21.80	19.71	17.33	15.83	20.38	16.58	22.94	18.99	17.99	-	-	18.94
	Dec.	-	18.90	18.98	16.71	14.58	13.16	17.34	14.56	21.88	15.98	14.80	-	-	15.86
1992	Jan.	-	18.48	18.33	16.60	14.20	12.70	17.27	13.20	19.89	15.80	14.80	-	-	15.75
	Feb.	-	18.60	17.93	17.13	14.78	13.28	17.46	13.34	19.34	16.33	15.33	-	-	16.28
	Mar.	-	17.88	17.60	17.10	14.75	13.35	17.20	13.72	18.30	16.30	15.30	-	-	16.25
	Apr.	15.80	19.22	19.07	17.88	15.77	14.52	17.98	15.06	18.68	17.18	16.18	-	-	17.13
	May	16.81	20.10	20.13	18.83	16.91	15.76	19.13	16.39	20.03	18.18	17.18	-	-	18.13
	June	18.17	21.29	21.34	20.13	18.34	17.19	20.49	17.88	21.76	19.54	18.54	-	-	19.49
	July	17.70	20.39	20.80	19.88	17.84	16.69	20.04	17.95	22.59	19.09	18.09	-	-	19.04
	Aug.	17.08	19.85	20.30	19.24	17.18	16.03	19.38	17.59	22.03	18.43	17.43	-	-	18.38
	Sep.	17.50	20.35	20.74	19.70	17.60	16.50	20.19	17.64	21.41	18.91	17.91	-	-	18.86
	Oct.	17.34	20.45	20.86	19.51	17.44	16.34	19.95	17.80	21.24	18.74	17.74	-	-	18.69
	Nov.	16.28	19.40	19.85	18.25	16.38	15.38	18.85	16.58	20.98	17.70	16.40	-	-	17.65
	Dec.	15.29	18.41	18.36	17.37	15.39	14.48	18.14	15.16	19.56	16.78	15.48	-	-	16.73
1993	Jan.	14.59	17.45	17.45	16.40	14.52	13.52	17.20	14.17	18.80	15.74	14.56	NA	NA	15.75
	Feb.	15.34	18.55	18.66	17.18	15.44	14.32	17.98	15.35	19.10	16.48	15.58	NA	NA	16.73
	Mar.	15.69	18.84	19.10	17.54	15.79	14.44	18.34	16.11	19.65	16.25	15.87	NA	NA	17.13
	Apr.	15.63	18.74	19.06	17.50	15.73	14.38	18.30	15.78	19.94	16.25	15.88	NA	NA	17.31
	May.	15.17	18.61	19.00	17.10	15.27	14.03	17.90	15.45	19.79	16.43	14.85	NA	NA	17.04
	June	14.67	17.69	18.03	16.85	14.77	13.57	17.63	14.53	18.92	15.17	14.55	NA	NA	16.53
	July	13.42	16.89	17.29	15.96	13.52	12.32	16.66	13.70	17.88	15.16	13.13	NA	NA	15.46
	Aug.	13.67	16.77	17.21	16.07	13.68	12.50	16.41	14.37	17.56	15.25	13.63	NA	NA	15.57
	Sep.	12.70	16.02	14.45	14.85	13.20	12.10	15.39	13.84	17.23	13.95	13.10	NA	NA	14.83
	Oct	13.88	16.60	17.15	16.19	14.08	13.08	16.84	14.44	17.44	14.41	13.73	NA	NA	15.54
	Nov.	12.75	15.17	15.77	15.15	12.94	11.88	15.83	12.84	16.43	13.25	12.57	NA	NA	14.44
	Dec.	11.20	13.56	14.08	13.57	11.30	10.20	14.13	11.41	14.86	12.44	11.38	NA	NA	12.74

Notes : The number below crude names indicate the API gravities and sulphur content in weight percentage. T.J. Medium quotations are posted prices.
Source : OPEC Annual Statistical Bulletin 1993.

DEVELOPMENT OF CRUDE PETROLEUM PRICES (FOB) 1990-93

(Official Selling Prices)

(US $/bbl. FOB)

Crude	Country	January - March				April
		1990	1991	1992	1993	1993
Arab Light	Saudi Arabia	17.63	17.06	16.45	16.77	17.33
Arab Medium	Saudi Arabia	16.62	15.26	14.75	15.31	15.73
Arab Heavy	Saudi Arabia	16.38	12.95	13.35	14.25	14.38
Berri	Saudi Arabia	18.62	18.56	17.59	17.73	18.33
Iran Light	Iran	17.34	16.83	16.30	16.15	16.25
Iran Heavy	Iran	16.65	15.95	15.30	15.34	15.88
Basrah Light	Iraq	18.68	0.00	0.00	0.00	0.00
Basrah Medium	Iraq	0.00	0.00	0.00	0.00	0.00
Basrah Heavy	Iraq	0.00	0.00	0.00	0.00	0.00
Kirkuk	Iraq	18.87	0.00	0.00	0.00	0.00
Kuwait	Kuwait	16.52	0.00	0.00	13.21	15.63
Murban	Abu Dhabi	18.14	17.18	17.20	17.84	18.30
Dukhan	Qatar	17.48	17.23	17.10	17.04	17.50
Khafji	Neutral Zone	16.35	13.01	13.45	13.77	14.33
Es Sider	Libya	19.66	20.28	16.94	17.68	18.10
Bonny Light	Nigeria	20.36	21.25	18.08	18.78	19.24
Bonny Medium	Nigeria	20.38	20.67	17.60	18.40	19.06
Saharan	Algeria	20.40	22.00	18.38	18.62	19.08
Mandji	Gabon	18.05	17.04	14.80	15.47	16.23
Oriente	Ecuador	18.77	16.44	14.47	0.01	0.00
TJ Light	Venezuela	16.29	19.62	17.13	18.23	18.83
TJ Medium	Venezuela	15.98	15.83	13.95	15.09	15.09
Bachaquero	Venezuela	12.83	12.37	8.45	11.95	12.70
Sumatran	Indonesia	20.15	20.74	17.28	19.15	20.46
Attaka	Indonesia	20.07	21.01	18.30	19.18	19.94
OPEC Average		17.90	17.43	15.47	16.20	16.76
Persian Gulf		17.30	16.82	14.87	16.14	16.45

Country Export Shares (percentages)

Saudi Arabia	22.57	35.11	34.92	35.60	33.26
Iran	12.69	14.21	14.24	14.35	13.92
Iraq	12.98	1.02	1.66	1.65	1.59
Kuwait	7.84	0.07	1.94	0.52	5.47
United Arab Emirates	8.31	10.35	9.72	9.71	9.05
Qatar	1.65	1.67	1.33	1.66	1.79
Neutral Zone	1.49	0.18	1.17	0.65	1.79
Libya	5.09	6.56	6.30	6.19	5.89
Nigeria	8.07	8.31	7.81	7.95	8.06
Algeria	3.20	3.50	3.32	3.38	3.10
Gabon	0.89	1.31	1.17	1.27	1.19
Ecuador	1.40	1.31	1.25	1.25	0.00
Venezuela	7.99	10.64	9.33	9.71	9.43
Indonesia	5.84	5.76	5.84	6.12	5.45

Source : The World Bank/International Finance Corporation-OFFICE MEMORANDUM dated June 30, 1993.

PETROLEUM PRODUCTS PRICE DEVELOPMENTS

(US Dollar Per Metric Ton, FOB)

	April-June a/	July-Sept b/	Oct-Dec. c/	Jan-March d/
	1992	1992	1992	1993
		Caribbean Market (Curacao)		
Gasoline	249.20	240.20	227.60	214.90
Kerosene	213.50	211.80	206.90	195.30
Gas Oil	194.10	189.50	191.10	181.70
Fuel Oil	90.50	93.50	103.90	87.10
		Mid East Market (Bahrain)		
Gasoline	248.10	247.40	241.30	223.20
Kerosene	215.10	208.50	215.10	208.50
Gas Oil	208.10	191.00	205.00	195.70
Fuel Oil	94.50	95.40	97.80	87.80
		Far East Market (Singapore)		
Gasoline	247.40	233.50	222.10	218.50
Kerosene	208.50	202.20	206.90	203.60
Gas Oil	201.90	187.90	191.10	191.10
Fuel Oil	95.50	95.50	103.90	87.00

a/ Mid-May quotations
b/ Mid-August quotations.
c/ Mid- November quotations.
d/ Mid-February quotations.

FOB PRICE OF PETROLEUM PRODUCTS
(US Dollars/Barrel)

	Price*			
	1990	1991	1992	1993
		Caribbean Market (Curacao)		
Gasoline	26.87	24.78	25.20	24.98
Kerosene	26.45	26.89	25.19	24.72
Gas Oil	25.19	29.59	23.93	24.55
Fuel Oil	13.49	11.51	10.70	13.00
		Mid East Market (Bahrain)		
Gasoline	27.20	34.78	27.20	25.94
Kerosene	25.20	49.97	24.30	26.39
Gas Oil	24.57	48.72	24.77	20.44
Fuel Oil	13.10	14.10	9.60	13.10
		Far East Market (Singapore)		
Gasoline	24.98	33.81	25.00	25.40
Kerosene	25.20	45.35	22.40	25.77
Gas Oil	25.62	44.09	22.87	25.82
Fuel Oil	15.25	16.40	10.50	13.00

SOURCE : The World Bank/International Finance Corporation- Office Memorandum dated June 30, 1993.
* Mid-February Quotations.

NATURAL GAS PRICES IN INDUSTRIAL / DEVELOPED COUNTRIES OF THE WORLD

US $/10^7 K. Cal (GCV)

Country	1986	1988	1989	1990	1991	1992	1993
			A. FOR INDUSTRIAL USE				
Australia	95.43	115.70	115.84	123.12	135.97	126.95	120.80
Austria	201.11	166.61	142.25	176.43	188.69	183.83	169.39
Belgium	154.98	114.63	113.96	144.37	159.16	144.48	129.30
Canada	97.70	92.21	83.42	83.69	87.03	83.70	74.66
Finland	136.53	116.14	118.92	146.78	140.25	129.53	105.41
France	157.15	133.54	129.58	155.16	151.30	152.78	142.80
Germany	196.66	141.49	143.94	187.50	201.15	200.51	186.51
Ireland	333.53	302.89	281.87	328.90	319.94	338.44	268.91
Italy	101.32	89.78	107.80	157.18	170.57	177.15	150.05
Japan	507.00	478.24	449.71	412.57	424.68	436.15	464.93
Netherlands	128.27	110.52	104.38	125.21	126.04	NA	NA
New Zealand	116.29	215.30	189.28	192.43	198.72	184.89	184.11
Spain	258.70	247.97	247.43	166.09	152.13	152.41	NA
Switzerland	319.62	255.67	220.29	253.61	282.96	298.26	285.57
United Kingdom	148.68	163.86	143.08	158.45	162.01	157.60	128.28
United States	124.44	114.04	112.50	111.44	101.04	106.34	117.95
OECD Europe	147.21	134.21	135.16	156.91	161.22	167.34	NA
OECD	136.20	131.20	123.16	141.80	145.20	148.40	NA
			B. FOR HOUSEHOLD USE				
Australia	187.51	247.74	264.12	268.78	287.60	283.42	275.26
Austria	472.50	360.99	331.52	391.52	397.86	420.11	396.30
Belgium	365.72	345.58	340.94	415.62	418.56	430.48	398.08
Canada	149.62	170.67	175.34	185.48	181.59	184.44	176.92
Finland	147.08	138.27	142.43	176.84	170.24	155.41	128.64
France	455.19	432.29	406.13	474.46	461.96	499.98	455.89
Germany	373.58	318.57	311.71	396.53	424.59	455.12	423.55
Ireland	553.76	443.23	412.46	481.32	476.21	506.46	440.18
Italy	347.97	440.63	469.75	642.32	760.44	793.83	636.13
Japan	832.28	977.69	989.49	945.99	1016.43	1072.45	1204.14
Netherlands	327.51	281.09	249.79	335.49	367.29	383.72	314.25
New Zealand	143.18	225.91	223.00	231.29	254.53	238.23	254.20
Spain	541.09	483.24	484.51	NA	NA	NA	NA
Switzerland	398.18	451.85	401.57	481.75	491.23	510.33	477.82
United Kingdom	240.51	299.86	291.77	329.08	335.56	344.46	280.84
United States	224.61	210.74	216.91	233.77	237.81	227.31	236.69
OECD Europe	331.09	347.81	344.55	430.85	468.02	489.35	NA
OECD	346.80	377.50	288.70	440.40	476.10	498.30	NA

0.95 tonne of oil approximate 10^7 K. Calories of natural gas.
NA = Not Available GCV. = Gross Calorific Value
Source = International Energy Agency's "Energy Prices and Taxes". Second Quarter of 1994.

CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS
(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price (*)			
			1990	1991	1992	1993
		CARIBBEAN MARKET				
Latin America & Caribbean						
Antigua	St. Johns	Crude	129.18	120.42	114.59	121.09
		Gasoline	235.00	217.40	221.10	219.20
		Kerosene	212.70	216.70	203.30	199.60
		Gas Oil	190.10	223.30	181.30	186.00
		Fuel Oil	93.90	81.10	75.70	91.20
Argentina	La Plata	Crude	139.36	131.62	125.79	132.29
		Gasoline	246.30	231.00	234.70	232.80
		Kerosene	224.10	230.30	216.90	213.20
		Gas Oil	201.40	236.90	194.90	199.50
		Fuel Oil	105.20	94.70	89.30	104.70
Bahamas	Freeport	Crude	129.12	120.31	114.48	120.97
		Gasoline	236.90	221.50	225.20	223.30
		Kerosene	214.70	220.80	207.30	203.60
		Gas Oil	192.00	227.40	185.40	190.00
		Fuel Oil	95.80	85.20	79.80	95.20
Barbados	Bridgetown	Crude	129.31	120.58	114.76	121.25
		Gasoline	235.10	217.50	221.20	219.30
		Kerosene	212.80	216.80	203.40	199.70
		Gas Oil	190.20	223.40	181.40	186.00
		Fuel Oil	94.00	81.20	75.80	91.30
Belize	Belize	Crude	0.00	0.00	0.00	0.00
		Gasoline	236.70	219.40	223.10	221.20
		Kerosene	214.40	218.70	205.30	201.60
		Gas Oil	191.80	225.30	183.40	188.00
		Fuel Oil	95.60	83.20	77.80	93.20
Bermuda	Hamilton	Crude	0.00	0.00	0.00	0.00
		Gasoline	237.40	220.00	223.70	221.80
		Kerosene	215.20	219.30	205.90	220.20
		Gas Oil	192.50	225.90	184.00	188.60
		Fuel Oil	96.40	83.80	78.30	93.80
Brazil	Santos	Crude	136.64	129.61	123.78	130.28
		Gasoline	243.10	227.50	231.20	229.30
		Kerosene	220.90	226.80	213.40	209.70
		Gas Oil	198.20	233.50	191.50	196.10
		Fuel Oil	102.00	91.30	85.90	101.30

Contd.....

CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price (*)			
			1990	1991	1992	1993
Chile	Valparaiso	Crude	140.63	133.17	127.34	133.83
		Gasoline	247,70	231.70	235.40	233.50
		Kerosene	225.50	231.00	217.60	213.90
		Gas Oil	202.90	237.60	195.60	200.20
		Fuel Oil	106.70	95.40	90.00	105.40
Colombia	Barraquilla	Crude	128.26	119.10	113.27	119.77
		Gasoline	235.10	217.20	220.90	219.00
		Kerosene	212.90	216.50	203.00	199.30
		Gas Oil	190.20	223.10	181.10	185.70
		Fuel Oil	94.00	80.90	75.50	90.90
Costa Rica	Puerto Limon	Crude	129.34	120.52	114.69	121.19
		Gasoline	236.70	219.30	223.00	221.10
		Kerosene	214.50	218.60	205.20	201.50
		Gas Oil	191.80	225.20	183.20	187.80
		Fuel Oil	95.60	83.00	77.60	93.00
Dominican R.	Santo Domingo	Crude	128.34	119.18	113.35	110.85
		Gasoline	235.00	217.30	221.00	219.10
		Kerosene	212.70	216.60	203.20	199.50
		Gas Oil	190.10	223.20	181.20	185.90
		Fuel Oil	93.90	81.00	75.60	91.10
El Salvador	Cutuco	Crude	130.07	121.75	115.92	122.41
		Gasoline	242.40	225.30	229.00	227.10
		Kerosene	220.10	224.60	211.20	207.40
		Gas Oil	197.50	231.20	189.20	193.80
		Fuel Oil	101.30	89.00	83.60	99.00
Guatemala	Puerto Barrios	Crude	129.08	119.73	113.90	120.40
		Gasoline	236.80	219.60	223.30	221.40
		Kerosene	214.50	218.90	205.50	201.80
		Gas Oil	191.90	225.50	183.50	188.10
		Fuel Oil	95.70	83.30	77.90	93.30
Haiti	Port au Prince	Crude	0.00	0.00	0.00	0.00
		Gasoline	235.40	217.90	221.60	219.70
		Kerosene	213.10	217.20	203.70	200.00
		Gas Oil	190.50	223.80	181.80	186.40
		Fuel Oil	94.30	81.60	76.20	91.60
Honduras	Puerto Cortez	Crude	129.75	120.41	114.59	121.08
		Gasoline	238.20	219.80	223.50	221.60
		Kerosene	216.00	219.10	205.70	202.00
		Gas Oil	193.30	225.70	183.70	188.40
		Fuel Oil	97.10	83.50	78.10	93.60

Contd.....

CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price (*)			
			1990	1991	1992	1993
Jamaica	Kingston	Crude	128.74	120.08	114.25	120.75
		Gasoline	235.30	217.80	221.50	219.60
		Kerosene	213.10	217.10	203.70	200.00
		Gas Oil	190.40	223.70	181.70	186.30
		Fuel Oil	94.30	81.50	76.10	91.50
Nicaragua	Corinto	Crude	129.80	120.50	114.68	121.17
		Gasoline	242.70	225.60	229.20	227.30
		Kerosene	220.40	224.80	211.40	207.70
		Gas Oil	197.80	231.40	189.50	194.10
		Fuel Oil	101.60	89.30	83.80	99.30
Panama	Puerto Las Minas	Crude	128.91	120.08	114.25	120.75
		Gasoline	235.60	218.10	221.80	219.90
		Kerosene	213.30	217.40	204.00	200.30
		Gas Oil	190.70	224.00	182.00	186.60
		Fuel Oil	94.50	81.80	76.40	91.80
Surinam	Paramaribo	Crude	0.00	0.00	0.00	0.00
		Gasoline	236.10	218.80	222.50	220.60
		Kerosene	213.80	218.10	204.60	200.90
		Gas Oil	191.20	224.70	182.70	187.30
		Fuel Oil	95.00	82.50	77.10	92.50
Uruguay	Montevideo	Crude	134.09	126.39	120.56	127.06
		Gasoline	245.20	229.80	233.50	231.60
		Kerosene	223.00	229.10	215.70	212.00
		Gas Oil	200.30	235.70	193.70	198.30
		Fuel Oil	104.10	93.50	88.10	103.50
		Africa South of Sahara				
Benin	Cotonou	Crude	0.00	0.00	0.00	0.00
		Gasoline	244.30	228.80	232.50	230.60
		Kerosene	222.10	228,10	214,70	211.00
		Gas Oil	199.40	234.70	192.70	197,30
		Fuel Oil	103.20	92.50	87.10	102.50
Cameroon	Douala	Crude	0.00	0.00	0.00	0.00
		Gasoline	240.00	230.90	234.70	232.80
		Kerosene	217.80	230.20	216.80	213.10
		Gas Oil	195.10	136.90	194.90	199.50
		Fuel Oil	98.90	94.70	89.30	104.70

Contd.....

CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price (*)			
			1990	1991	1992	1993
Cape Verde	St. Vincent	Crude	0.00	0.00	0.00	0.00
		Gasoline	242.00	223.50	227.20	225.30
		Kerosene	219.80	222.80	209.40	205.60
		Gas Oil	197.10	229.40	187.40	192.00
		Fuel Oil	101.00	87.20	81.80	97.20
Gambia	Banjul	Crude	0.00	0.00	0.00	0.00
		Gasoline	243.90	226.00	229.70	227.80
		Kerosene	221.70	225.30	211.80	208.10
		Gas Oil	199.10	231.90	189.90	194.50
		Fuel Oil	102.90	89.70	84.30	99.70
Ghana	Takoradi	Crude	135.79	128.41	122.59	129.08
		Gasoline	243.80	228.20	231.90	230.00
		Kerosene	221.50	227.50	214.10	210.40
		Gas Oil	198.90	234.10	192.10	196.80
		Fuel Oil	102.70	91.90	86.50	102.00
Guinea	Conakry	Crude	0.00	0.00	0.00	0.00
		Gasoline	244.00	227.40	231.20	229.20
		Kerosene	221.70	226.70	213.30	209.60
		Gas Oil	199.10	233.40	191.40	196.00
		Fuel Oil	102.90	91.20	85.80	101.20
Ivory Coast	Abidjan	Crude	136.06	128.68	122.86	129.35
		Gasoline	242.70	228.10	231.80	229.90
		Kerosene	220.40	227.40	214.00	210.30
		Gas Oil	197.80	234.00	192.10	196.70
		Fuel Oil	101.60	91.90	86.50	101.90
Liberia	Monrovia	Crude	136.24	128.99	123.16	129.66
		Gasoline	241.50	226.70	230.40	228.50
		Kerosene	219.20	226.00	212.60	208.90
		Gas Oil	196.60	232.60	190.60	195.20
		Fuel Oil	100.40	90.40	85.00	100.40
Mauritania	Nouadhibou	Crude	0.00	0.00	0.00	0.00
		Gasoline	241.50	225.20	228.90	227.00
		Kerosene	219.30	224.50	211.10	207.40
		Gas Oil	196.60	231.10	189.10	193.70
		Fuel Oil	100.40	88.90	83.50	98.90

Contd.....

CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price (*)			
			1990	1991	1992	1993
Senegal	Dakar	Crude	134.95	127.42	121.59	128.08
		Gasoline	241.90	225.40	229.10	227.20
		Kerosene	219.70	224.70	211.20	207.50
		Gas Oil	197.10	231.30	189.30	193.90
		Fuel Oil	100.90	89.10	83.70	99.10
Sierra Leone	Freetown	Crude	136.34	129.20	123.37	129.86
		Gasoline	244.40	226.00	229.70	227.80
		Kerosene	222.10	225.30	211.90	208.20
		Gas Oil	199.50	231.90	189.90	194.50
		Fuel Oil	103.30	89.70	84.30	99.70
Togo	Kpeme	Crude	135.44	126.64	120.81	127.31
		Gasoline	247.90	226.90	230.60	228.70
		Kerosene	225.70	226.20	212.70	209.00
		Gas Oil	203.00	232.80	190.80	195.40
		Fuel Oil	106.80	90.60	85.20	100.60
Zaire	Banana	Crude	135.61	127.73	121.90	128.40
		Gasoline	243.00	232.00	235.80	233.80
		Kerosene	220.70	231.30	217.90	214.20
		Gas Oil	198.10	238.00	196.00	200.60
		Fuel Oil	101.90	95.80	90.40	105.80
Europe, Middle East, North Africa						
Gibraltar	Gibraltar	Crude	0.00	0.00	0.00	0.00
		Gasoline	244.40	227.10	230.80	228.90
		Kerosene	222.20	226.40	213.00	209.30
		Gas Oil	199.50	233.00	191.00	195.70
		Fuel Oil	103.30	90.80	85.40	100.90
Morocco	Mohammedia	Crude	134.14	126.23	120.40	126.89
		Gasoline	242.60	228.50	232.20	230.30
		Kerosene	220.30	227.80	214.40	210.70
		Gas Oil	197.70	234.40	192.40	197.00
		Fuel Oil	101.50	92.20	86.80	102.30

Contd.....

CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price (*)			
			1990	1991	1992	1993
Portugal	Lisbon	Crude	133.45	125.64	119.81	126.31
		Gasoline	243.40	226.80	230.50	228.60
		Kerosene	221.10	226.00	212.60	208.90
		Gas Oil	198.50	232.70	190.70	195.30
		Fuel Oil	102.30	90.50	85.10	100.50
Spain	Huelva	Crude	133.51	125.61	119.78	126.27
		Gasoline	238.10	227.50	231.20	229.30
		Kerosene	215.80	226.80	213.40	209.70
		Gas Oil	193.20	233.40	191.40	196.10
		Fuel Oil	97.00	91.20	85.80	101.30
		MIDDLE EAST MARKET				
Africa South of Sahara						
Djibouti	Djibouti	Crude	129.08	120.29	114.46	120.95
		Gasoline	241.80	307.30	242.10	231.30
		Kerosene	206.80	403.20	200.00	216.50
		Gas Oil	189.50	368.80	191.30	203.70
		Fuel Oil	95.30	102.30	72.10	95.60
Ethiopia	Assab	Crude	129.49	120.70	114.87	121.37
		Gasoline	243.00	308.20	243.00	232.20
		Kerosene	208.00	404.10	200.90	217.40
		Gas Oil	190.70	369.70	192.20	204.60
		Fuel Oil	96.50	103.20	72.90	96.50
Kenya	Mombassa	Crude	130.07	121.56	115.73	122.22
		Gasoline	245.20	310.00	244.80	234.00
		Kerosene	210.20	405.90	202.70	219.30
		Gas Oil	192.90	371.60	194.00	206.40
		Fuel Oil	98.70	105.00	74.80	98.30
Madagascar	Tamatave	Crude	131.09	122.74	116.91	123.40
		Gasoline	244.50	312.60	247.30	236.50
		Kerosene	209.50	408.40	205.20	221.80
		Gas Oil	192.20	374.10	196.50	209.00
		Fuel Oil	98.00	107.50	77.30	100.80
Mauritius	Port Louis	Crude	0.00	0.00	0.00	0.00
		Gasoline	246.20	312.60	247.30	236.50
		Kerosene	211.30	408.40	205.20	221.80
		Gas Oil	193.90	374.10	196.50	209.00
		Fuel Oil	99.70	107.50	77.30	100.80
Mozambique	Maputo	Crude	131.57	123.67	117.84	124.34
		Gasoline	250.70	314.60	249.30	238.50
		Kerosene	215.70	410.50	207.20	223.80
		Gas Oil	198.40	376.10	198.50	211.00
		Fuel Oil	104.20	109.50	79.30	102.80
Namibia	Walvis Bay	Crude	0.00	0.00	0.00	0.00
		Gasoline	245.30	319.30	254.40	243.20
		Kerosene	210.40	415.20	212.00	228.50
		Gas Oil	193.00	380.80	203.20	215.70
		Fuel Oil	98.90	114.30	84.00	107.60
Reunion	Reunion	Crude	0.00	0.00	0.00	0.00
		Gasoline	250.70	312.90	247.70	236.80
		Kerosene	215.70	408.80	205.60	222.10
		Gas Oil	198.40	374.40	196.90	209.30
		Fuel Oil	104.20	107.90	77.60	101.20
Seychelles	Port Victoria	Crude	0.00	0.00	0.00	0.00
		Gasoline	245.30	309.10	243.80	233.00
		Kerosene	210.40	404.90	201.70	218.30
		Gas Oil	193.00	370.60	193.00	205.40
		Fuel Oil	98.90	104.00	73.80	97.30

Contd.....

CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price (*)			
			1990	1991	1992	1993
Somalia	Mogadiscio	Crude	129.65	120.93	115.10	121.59
		Gasoline	242.30	308.70	243.50	232.60
		Kerosene	207.30	404.60	201.40	217.90
		Gas Oil	190.00	370.20	192.70	205.10
		Fuel Oil	95.80	103.70	73.40	97.00
South Africa	Cape Town	Crude	132.75	124.79	118.96	125.45
		Gasoline	242.10	316.90	251.70	240.90
		Kerosene	207.10	412.80	209.60	226.20
		Gas Oil	189.80	378.50	200.90	213.30
		Fuel Oil	95.60	111.90	81.70	105.20
Sudan	Port Sudan	Crude	129.92	120.84	115.01	121.50
		Gasoline	248.80	308.30	243.10	232.30
		Kerosene	213.80	404.20	201.00	217.50
		Gas Oil	196.40	369.80	192.30	204.70
		Fuel Oil	102.30	103.30	73.10	96.60
Tanzania	Dar Es Salaam	Crude	130.30	121.74	115.91	122.40
		Gasoline	242.70	310.40	245.20	234.40
		Kerosene	207.70	406.30	203.10	219.60
		Gas Oil	190.40	371.90	194.40	206.80
		Fuel Oil	96.20	105.40	75.20	98.70
		South Asia				
India	Bombay	Crude	128.96	120.01	114.18	120.68
		Gasoline	243.50	306.70	241.50	230.70
		Kerosene	208.50	402.60	199.40	215.90
		Gas Oil	191.20	368.20	190.70	203.10
		Fuel Oil	97.00	101.70	71.50	95.00
Pakistan	Karachi	Crude	128.28	119.25	113.42	119.92
		Gasoline	240.60	305.10	239.90	229.10
		Kerosene	205.70	401.00	197.80	214.30
		Gas Oil	188.30	366.60	189.10	201.50
		Fuel Oil	94.20	100.10	69.80	93.40
		Europe, Middle East, North Africa				
Cyprus	Larnaca	Crude	135.59	126.62	120.79	127.28
		Gasoline	247.50	321.10	255.90	245.10
		Kerosene	212.50	417.00	213.80	230.40
		Gas Oil	195.20	382.70	205.10	217.50
		Fuel Oil	101.00	116.10	85.90	109.40
Greece	Salonica	Crude	136.13	127.27	121.44	127.93
		Gasoline	253.90	322.50	257.30	246.50
		Kerosene	218.90	418.40	215.20	231.70
		Gas Oil	201.60	384.00	206.50	218.90
		Fuel Oil	107.40	117.50	87.30	110.80
Israel	Haifa	Crude	135.41	126.48	120.65	127.15
		Gasoline	255.60	320.80	255.60	244.80
		Kerosene	220.60	416.70	213.50	230.10
		Gas Oil	203.30	382.40	204.80	217.20
		Fuel Oil	109.10	115.80	85.60	109.10

Contd.....

CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price (*)			
			1990	1991	1992	1993
Jordan	Aqaba	Crude	130.49	121.90	116.07	122.57
		Gasoline	245.20	310.80	245.50	234.70
		Kerosene	210.20	406.70	203.50	220.00
		Gas Oil	192.90	372.30	194.70	207.20
		Fuel Oil	98.70	105.80	75.50	99.00
Lebanon	Beirut	Crude	135.40	126.45	120.62	127.11
		Gasoline	252.20	320.80	255.50	244.70
		Kerosene	217.20	416.70	213.50	230.00
		Gas Oil	199.90	382.30	204.70	217.20
		Fuel Oil	105.70	115.80	85.50	109.00
Turkey	Istanbul	Crude	136.55	128.00	122.18	128.67
		Gasoline	253.50	324.10	258.90	248.00
		Kerosene	218.50	420.00	216.80	233.30
		Gas Oil	201.20	385.60	208.10	220.50
		Fuel Oil	107.00	119.10	88.80	112.40
Yemen, A.R.	Hodeidah	Crude	0.00	0.00	0.00	0.00
		Gasoline	248.10	308.20	242.90	232.10
		Kerosene	213.20	404.10	200.90	217.40
		Gas Oil	195.80	369.70	192.10	204.60
		Fuel Oil	101.60	103.20	72.90	96.40
Yemen, P.D.R.	Aden	Crude	129.13	120.31	114.49	120.98
		Gasoline	241.50	307.40	242.10	231.30
		Kerosene	206.50	403.30	200.10	216.60
		Gas Oil	189.20	368.90	191.30	203.80
		Fuel Oil	95.00	102.40	72.10	95.70
Yugoslavia	Rijeca	Crude	136.88	128.29	122.46	128.96
		Gasoline	249.30	323.80	258.60	247.80
		Kerosene	214.30	419.70	216.50	233.10
		Gas Oil	197.00	385.40	207.80	220.20
		Fuel Oil	102.80	118.80	88.60	112.10
		FAR EAST MARKET				
South Asia						
Bangladesh	Chittagong	Crude	130.99	122.57	116.75	123.24
		Gasoline	229.20	298.30	222.30	225.90
		Kerosene	213.40	366.00	184.30	211.00
		Gas Oil	203.90	333.90	176.60	198.40
		Fuel Oil	116.30	117.10	77.40	94.10

Contd.....

CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price (*)			
			1990	1991	1992	1993
Burma	Rangoon	Crude	130.88	122.48	116.66	123.15
		Gasoline	221.30	297.10	221.00	224.70
		Kerosene	205.40	364.70	183.10	209.70
		Gas Oil	195.90	332.70	175.40	197.20
		Fuel Oil	108.30	115.80	76.20	92.90
India	Madras	Crude	130.45	121.78	115.95	122.45
		Gasoline	225.60	298.90	222.90	226.50
		Kerosene	209.80	366.50	184.90	211.50
		Gas Oil	200.30	334.50	177.20	199.00
		Fuel Oil	112.70	117.60	78.00	94.70
Sri Lanka	Colombo	Crude	129.47	120.75	114.92	121.41
		Gasoline	222.00	298.30	222.30	225.90
		Kerosene	206.10	365.90	184.30	210.90
		Gas Oil	196.60	333.90	176.60	198.40
		Fuel Oil	109.00	117.00	77.40	94.10
		EAST ASIA AND PACIFIC				
Hong Kong	Hong Kong	Crude	132.88	124.95	119.12	125.62
		Gasoline	221.20	298.10	222.10	225.70
		Kerosene	205.40	365.80	184.10	210.70
		Gas Oil	195.90	333.70	176.40	198.20
		Fuel Oil	108.30	116.90	77.20	93.90
Korea	Inchon	Crude	134.26	126.62	120.80	127.29
		Gasoline	221.00	301.70	225.60	229.20
		Kerosene	205.10	369.30	187.60	214.30
		Gas Oil	195.60	337.20	179.90	201.80
		Fuel Oil	108.00	120.40	80.70	97.50
Phillippines	Manila	Crude	132.75	124.77	118.94	125.44
		Gasoline	223.90	297.70	221.70	225.30
		Kerosene	208.00	365.40	183.70	210.40
		Gas Oil	198.50	333.30	176.00	197.80
		Fuel Oil	111.00	116.50	76.80	93.50
P.N. Guinea	Bougainville	Crude	0.00	0.00	0.00	0.00
		Gasoline	220.70	303.80	227.80	231.40
		Kerosene	204.80	371.50	189.80	216.40
		Gas Oil	195.30	339.40	182.10	203.90
		Fuel Oil	107.80	122.60	82.90	99.60

Contd.....

CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price (*)			
			1990	1991	1992	1993
Thailand	Bangkok	Crude	132.18	124.04	118.21	124.71
		Gasoline	226.60	296.20	220.10	223.70
		Kerosene	210.80	363.80	182.20	208.80
		Gas Oil	201.30	331.80	174.50	196.30
		Fuel Oil	113.70	114.90	75.30	92.00
Vietnam	Hochimin	Crude	0.00	0.00	0.00	0.00
		Gasoline	219.50	297.00	221.00	224.60
		Kerosene	203.60	364.70	183.00	209.70
		Gas Oil	194.10	332.60	175.30	197.10
		Fuel Oil	106.50	115.80	76.10	92.80
Fiji	Suva	Crude	0.00	0.00	0.00	0.00
		Gasoline	220.70	309.10	233.10	236.70
		Kerosene	204.90	376.80	195.10	221.80
		Gas Oil	195.40	344.70	187.40	209.20
		Fuel Oil	107.80	127.90	88.20	104.90

(*) Mid-February Quotations

Product Specifications:

Gasoline: 95 Ron
Kerosene : Regular
Gas Oil : 48-52 Diesel Index. 0.5% Sulphur in Mid East & Far East Markets.
Fuel Oil : Heavy, High Sulphur.

Conversion Factors:

1 Metric Ton of Gasoline = 8.6 barrels = 1,350 liters.
1 Metric Ton of Kerosene = 7.9 barrels = 1,230 liters.
1 Metric Ton of Gas Oil = 7.4 barrels = 1,160 liters.
1 Metric Ton of Fuel Oil = 6.7 barrels.

1 Barrel = 42 Gallons.

1 Gallon (U.S.) = 3.785 Liters.

Source : The World Bank/International Finance Corporation Office Memorandum dated June 30, 1993.

SHORT-TERM TREND IN WEIGHTED® AVERAGE OFFICIAL PRICES OF OPEC CRUDE VS. THEIR SPOT ASSESSMENT SINCE JUNE 1980.

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assessment	DIFFERENCE (+) Premium (–) Discount
19.6.80	30.83	34.80	+3.97
2.10.80	31.97	31.32	+1.15
6.3.81	34.83	36.72	+1.89
5.6.81	34.75	31.84	-2.91
4.9.81	34.66(34.32)	31.48	-3.18
4.12.81	33.96	33.12	-0.84
5.3.82	33.36	28.69	-4.67
4.6.82	33.14	32.10	-1.04
3.9.82	33.18	31.60	-1.58
3.12.82	33.17	29.73	-3.43
4.3.83	32.83	27.56	-5.27
11.3.83	32.83	27.56	-5.27
18.3.83	32.83	27.41	-5.42
25.3.83	23.87	27.35	-1.52
3.6.83	28.44	28.05	-0.39
10.6.83	28.44	28.04	-0.40
17.6.83	28.44	28.14	-0.30
24.6.83	28.44	28.22	-0.22
2.9.83	28.48	28.40	-0.08
9.9.83	28.48	28.37	-0.11
16.9.83	28.48	28.27	-0.21
23.9.83	28.48	28.33	-0.15
30.9.83	28.48	28.22	-0.26
2.12.83	28.48	27.93	-0.55
9.12.83	28.48	27.87	-0.61
16.12.83	28.48	27.78	-0.70
23.12.83	28.48	27.74	-0.74
30.12.83	28.48	27.83	-0.65
2.3.84	28.48	28.06	-0.42
9.3.84	28.48	28.12	-0.36
16.3.84	28.48	28.04	-0.44
23.3.84	28.48	28.02	-0.46
30.3.84	28.48	28.04	-0.44

Contd.....

SHORT-TERM TREND IN WEIGHTED® AVERAGE OFFICIAL PRICES OF OPEC CRUDE VS. THEIR SPOT ASSESSMENT SINCE JUNE 1980.

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assessment	DIFFERENCE (+) Premium (–) Discount
1.6.84	28.48	27.41	-1.07
8.6.84	28.48	27.51	-0.97
15.6.84	28.48	27.30	-1.18
22.6.84	28.48	27.09	-1.39
29.6.84	28.48	27.94	-1.54
7.9.84	28.48	27.36	-1.12
14.9.84	28.48	27.43	-1.05
21.9.84	28.48	27.49	-0.99
28.9.84	28.48	27.62	-0.86
7.12.84	27.88	26.93	-0.94
14.12.84	27.88	26.79	-1.09
21.12.84	27.88	26.77	-1.10
28.12.84	27.88	26.96	-0.92
1.3.85	27.66	27.11	-0.58
8.3.85	27.67	27.08	-0.54
15.3.85	27.62	27.13	-0.55
22.3.85	27.54	27.07	-0.47
29.3.85	27.53	27.03	-0.50
10.5.85	27.48	26.38	-1.10
17.5.85	27.40	25.94	-1.46
24.5.85	27.40	25.84	-1.56
6.9.85	27.42	26.69	-0.73
13.9.85	27.37	26.50	-0.87
20.9.85	27.37	26.50	-0.87
27.9.85	27.37	26.76	-0.61
6.12.85	27.34	26.32	-0.95
13.12.85	27.28	26.28	-0.98
20.12.85	27.26	26.32	-0.94
27.12.85	27.26	26.33	-0.93
7.3.86	24.34	13.18	-11.06
14.3.86	24.24	13.27	-11.02
21.386	24.20	12.11	-11.96
28.3.86	27.07	27.03	-0.56

Contd.....

SHORT-TERM TREND IN WEIGHTED@ AVERAGE OFFICIAL PRICES OF OPEC CRUDE VS. THEIR SPOT ASSESSMENT SINCE JUNE 1980.

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assessment	DIFFERENCE (+) Premium (–) Discount
6.6.86	22.45	11.30	-11.15
13.6.86	22.43	11.15	-11.28
20.6.86	22.39	10.91	-11.48
27.6.86	22.33	10.51	-11.82
5.9.86	23.05	13.79	-9.26
12.9.86	23.02	13.56	-9.46
19.9.86	22.86	12.96	-9.93
26.9.86	22.93	13.02	-9.91
5.12.86	22.78	13.80	-8.98
12.12.86	22.77	13.80	-8.97
19.12.86	22.77	14.83	-7.94
26.12.86	23.30	15.91	-7.40
6.3.87	17.94	16.98	-0.96
13.3.87	17.94	16.86	-1.08
20.3.87	17.83	17.41	-0.42
27.3.87	17.83	17.48	-0.35
5.6.87	17.87	17.54	-0.33
12.6.87	17.87	17.58	-0.29
19.6.87	17.87	17.64	-0.23
26.6.87	17.87	17.60	-0.26
4.9.87	17.87	17.35	-0.52
11.9.87	17.87	17.35	-0.52
18.9.87	17.87	17.34	-0.53
25.9.87	17.87	17.84	-0.52
4.12.87	17.87	16.86	-1.01
11.12.87	17.87	16.70	-1.17
18.12.87	17.88	14.48	-3.40
25.12.87	17.87	15.73	-2.14
4.3.88	17.88	13.61	-2.17
11.3.88	17.61	13.82	-3.71
18.3.88	17.88	13.82	-2.17
25.3.88	17.60	14.36	-3.24
31.3.88	17.60	14.45	-3.15

Contd.....

SHORT-TERM TREND IN WEIGHTED@ AVERAGE OFFICIAL PRICES OF OPEC CRUDE VS. THEIR SPOT ASSESSMENT SINCE JUNE 1980.

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assessment	DIFFERENCE (+) Premium (–) Discount
3.6.88	17.60	15.03	-2.57
10.6.88	17.60	15.03	-2.57
17.6.88	17.60	14.52	-3.08
24.6.88	17.60	13.92	-3.68
2.9.88	17.60	13.05	-4.55
9.9.88	17.60	12.27	-5.33
16.9.88	17.51	12.07	-5.44
30.9.88	17.51	11.08	-6.43
2.12.88	17.46	12.61	-4.85
9.12.88	17.47	12.68	-4.79
16.12.88	17.47	13.33	-4.15
23.12.88	17.47	13.65	-3.82
30.12.88	17.47	13.78	-3.69
3.3.89	17.55	15.59	-1.96
10.3.89	17.55	15.77	-1.78
17.3.89	17.55	16.68	-0.87
24.3.89	17.55	17.54	-0.01
31.3.89	17.55	18.01	-0.45
2.6.89	17.75	16.52	-1.22
9.6.89	17.74	16.75	-1.00
16.6.89	17.73	15.77	-1.96
23.6.89	17.73	15.85	-1.88
30.6.89	17.73	16.74	-0.99
1.9.89	17.71	15.12	-1.79
8.9.89	17.71	16.14	-1.58
15.9.89	17.71	16.38	-1.33
22.8.89	17.68	16.19	-1.49
29.9.89	17.72	16.95	-0.77
1.12.89	17.72	16.90	-0.82
8.12.89	17.45	17.57	0.06
15.12.89	17.46	17.83	0.37
22.12.89	17.50	18.33	0.88
29.12.89	17.52	18.80	1.27
2.3.90	18.21	17.73	-0.48
9.3.90	17.81	17.64	-0.17
16.3.19	17.81	16.86	-0.94
23.3.90	17.78	16.40	-1.38
30.3.90	17.79	16.56	-1.24
1.6.90	16.79	13.59	-3.20
8.6.90	16.77	13.40	-3.36
15.6.90	16.76	13.37	-3.39
22.6.90	16.73	12.97	-3.76
29.6.90	16.75	13.38	-3.37

Contd.....

SHORT-TERM TREND IN WEIGHTED® AVERAGE OFFICIAL PRICES OF OPEC CRUDE VS. THEIR SPOT ASSESSMENT SINCE JUNE 1980.

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assessment	DIFFERENCE (+) Premium (–) Discount
7.9.90	17.25	27.53	10.28
14.9.90	17.27	28.29	11.02
21.9.90	20.35	32.13	11.78
28.9.90	20.42	36.54	16.11
7.12.90	23.86	26.07	2.21
14.12.90	23.71	24.54	0.83
21.12.90	23.72	24.59	0.88
28.12.90	23.72	24.49	0.77
1.3.91	18.88	15.09	-3.80
8.3.91	17.58	16.77	-0.81
15.3.91	17.58	16.35	-1.23
22.3.91	17.61	16.23	-1.38
28.3.91	17.60	16.00	-1.61
7.6.91	17.31	16.62	-0.69
14.6.91	17.31	16.14	-1.17
21.6.91	17.31	16.13	-1.18
28.6.91	17.32	16.21	-1.11
06.9.91	17.83	18.31	0.49
13.9.91	17.83	18.01	0.18
20.9.91	17.83	18.64	0.81
27.9.91	17.83	18.92	1.09
6.12.91	18.93	17.58	-1.35
13.12.91	18.83	16.46	-2.37
20.12.91	18.70	16.38	-2.32
3.1.92	18.77	16.11	-2.66
10.1.92	17.48	15.88	-1.60
17.1.92	17.29	16.10	-1.19
24.1.92	17.29	16.31	-0.98
31.1.92	17.29	16.31	-0.98
7.2.92	17.27	16.33	-0.94
14.2.92	17.28	16.82	-0.46
21.2.92	17.28	16.29	-0.99
28.2.92	17.28	16.29	-0.99
6.3.92	17.35	15.87	-1.48
13.3.92	17.39	15.85	-1.54
20.3.92	17.41	16.34	-1.07
27.3.92	17.41	16.50	-0.91
3.4.92	17.41	16.67	-1.74
10.4.92	17.46	17.27	-0.19
16.4.92	17.46	17.21	-0.25
23.4.92	17.46	17.22	-0.24
30.4.92	17.48	17.53	0.05
7.5.92	17.90	17.96	0.06
14.5.92	17.91	18.00	0.09
28.5.92	17.95	18.91	0.96

Contd.....

SHORT-TERM TREND IN WEIGHTED@ AVERAGE OFFICIAL PRICES OF OPEC CRUDE VS. THEIR SPOT ASSESSMENT SINCE JUNE 1980.

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assessment	DIFFERENCE (+) Premium (–) Discount
4.6.92	18.39	19.35	0.96
11.6.92	18.44	19.56	1.12
18.6.92	18.43	19.63	1.20
25.6.92	18.48	19.83	1.35
1.7.92	18.91	19.36	0.55
9.7.92	19.11	19.06	-0.05
16.7.92	19.08	18.99	-0.09
23.7.92	19.10	19.10	0.00
30.7.92	19.10	19.13	0.03
6.8.92	18.94	18.64	-0.30
20.8.92	18.81	18.51	-0.30
27.8.92	18.81	18.43	-0.38
3.9.92	18.59	18.53	-0.06
10.9.92	18.51	18.83	0.32
17.9.92	1851	19.13	0.62
24.9.92	18.50	19.02	0.52
1.10.92	18.50	18.90	0.40
8.10.92	18.66	18.89	0.23
15.10.92	18.67	19.27	0.60
22.10.92	18.67	19.05	0.38
29.10.92	10.66	18.35	-0.31
5.11.92	18.48	17.99	-0.49
12.11.92	18.47	18.05	-0.42
19.11.92	18.46	17.82	-0.64
24.11.92	18.46	17.64	-0.82
3.12.92	18.14	17.30	-0.84
10.12.92	18.11	16.72	-1.39
17.12.92	18.08	16.74	-1.34
22.12.92	18.09	17.04	-1.05
7.1.93	17.78	16.25	-1.53
14.1.93	17.57	15.88	-1.69
21.1.93	17.52	15.55	-1.97
28.1.93	17.57	16.30	-1.27
4.2.93	17.32	16.84	-0.48
11.2.93	17.20	16.94	-0.26
18.2.93	17.19	16.58	0.61
25.2.93	17.19	17.13	-0.06
4.3.93	17.50	17.43	-0.07
11.3.93	17.52	17.44	-0.08
18.3.93	17.51	17.16	-0.35
25.3.95	17.51	16.95	-0.56

Contd.....

SHORT-TERM TREND IN WEIGHTED@ AVERAGE OFFICIAL PRICES OF OPEC CRUDE VS. THEIR SPOT ASSESSMENT SINCE JUNE 1980.

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assessment	DIFFERENCE (+) Premium (–) Discount
01.4.93	17.52	17.24	-0.28
07.4.93	17.52	17.37	-0.15
22.4.93	17.52	17.06	-0.46
29.4.93	17.52	17.12	-0.40
6.5.93	17.54	17.34	-0.20
13.5.93	17.54	17.23	-0.31
20.5.93	17.54	17.23	-0.31
27.5.93	17.53	16.60	-0.93
3.6.93	17.39	16.78	-0.61
10.6.93	17.39	16.63	-0.76
17.6.93	17.36	16.02	-1.34
24.6.93	17.36	15.80	-1.56
1.7.93	17.55	15.84	-1.71
8.7.93	17.33	15.27	-2.06
15.7.93	17.33	15.12	-2.21
22.7.93	17.33	15.27	-2.06
29.7.93	17.30	15.27	-2.03
05.8.93	16.77	15.27	-1.50
12.8.93	16.77	15.27	-1.50
19.8.93	16.77	15.43	-1.34
27.8.93	16.78	15.28	-1.50
02.9.93	16.94	15.30	-1.64
9.9.93	16.94	14.59	-2.35
16.9.93	16.91	14.02	-2.89
23.9.93	16.91	14.49	-2.42
30.9.93	16.75	15.27	-1.48
7.10.93	16.84	15.30	-1.54
14.10.93	16.86	15.50	-1.36
21.10.93	16.87	15.24	-1.63
28.10.93	16.86	14.78	-2.08
4.11.93	16.82	14.52	-2.30
11.11.93	16.91	14.18	-2.73
18.11.93	16.91	14.21	-2.70
25.11.93	16.91	13.99	-2.92
02.12.93	16.55	12.93	-3.62

Contd.....

SHORT-TERM TREND IN WEIGHTED@ AVERAGE OFFICIAL PRICES OF OPEC CRUDE VS. THEIR SPOT ASSESSMENT SINCE JUNE 1980.

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assessment	DIFFERENCE (+) Premium (–) Discount
9.12.93	16.34	12.52	-3.82
16.12.93	16.34	12.57	-3.77
22.12.93	16.34	12.48	-3.86
29.12.93	16.34	12.27	-4.07
7.1.94	16.17	12.82	-3.35
14.1.94	16.17	13.11	-3.06
21.1.94	16.18	13.32	-2.86
28.1.94	16.22	13.70	-2.52
03.2.94	12.73	13.98	1.25
10.2.94	12.44	13.32	0.88
17.2.94	12.44	12.57	0.13
24.2.94	11.91	12.55	0.64
3.3.94	12.29	13.01	0.72
10.3.94	12.13	12.50	0.37
17.3.94	12.18	12.94	0.76
24.3.94	12.29	13.05	0.76
30.3.94	12.03	12.56	0.53

@ = The weights given are based on each nation's production relative to OPEC total.

Source : Platt's Oil Grams.

DEVELOPMENT OF CRUDE PETROLEUM PRICES (FOB) 1992-93

(Official Selling Prices)

(US $/.bbl. FOB)

Crude	Country	April-June 1992	July-Sept 1992	Oct-Dec 1992	Jan-March 1993
Arab Light	Saudi Arabia	18.51	19.01	17.86	16.77
Arab Medium	Saudi Arabia	17.01	17.54	16.43	15.31
Arab Heavy	Saudi Arabia	15.82	16.41	15.43	14.25
Berri	Saudi Arabia	19.52	10.06	18.81	17.73
Iran Light	Iran	18.30	18.81	17.77	16.15
Iran Heavy	Iran	17.30	17.81	16.45	15.34
Basrah Light	Iraq	0.00	0.00	0.00	0.00
Basrah Medium	Iraq	0.00	0.00	0.00	0.00
Basrah Heavy	Iraq	0.00	0.00	0.00	0.00
Kirkuk	Iraq	0.00	0.00	0.00	0.00
Kuwait	Kuwait	11.95	16.26	16.33	13.21
Murban	Abu Dhabi	19.20	19.87	18.98	17.84
Dukhan	Qatar	18.94	19.61	18.38	17.04
Khafji	Neutral Zone	15.51	16.07	14.49	13.77
Es Sider	Libya	19.39	19.46	18.85	17.68
Bonny Light	Nigeria	20.65	20.78	19.89	18.78
Bonny Medium	Nigeria	20.18	20.61	20.69	18.40
Saharan	Algeria	20.56	20.56	19.98	18.62
Mandji	Gabon	17.52	17.83	17.10	15.47
Oriente	Ecuador	17.28	17.56	17.01	0.01
TJ Light	Venezuela	19.86	20.02	19.91	18.23
TJ Medium	Venzuela	16.23	16.76	16.37	15.09
Bachaquero	Venezuela	11.37	13.03	12.90	11.95
Sumatran	Indonesia	18.60	20.43	20.15	19.15
Attaka	Indonesia	20.16	22.43	20.59	19.18
OPEC Average		17.70	18.38	17.40	16.20
Persian Gulf		17.45	18.30	17.25	16.14

Country Export Shares

(percentages)

Saudi Arabia	33.60	33.20	33.00	35.60
Iran	13.84	13.70	14.20	14.35
Iraq	1.65	1.65	1.62	1.65
Kuwait	3.43	4.00	4.55	0.52
UAE	9.31	9.3	9.00	9.71
Qatar	1.50	1.66	1.65	1.66
Neutral Zone	1.25	1.65	1.65	0.65
Libya	6.19	5.97	5.87	6.19
Nigeria	7.95	7.95	8.04	7.95
Algeria	3.28	3.38	3.38	3.38
Gabon	1.20	1.27	1.27	1.27
Ecuador	1.26	1.25	1.25	1.25
Venezuela	9.61	9.60	9.33	9.71
Indonesia	5.92	6.12	6.13	6.12

SOURCE : The World Bank/International Finance Corporation - OFFICE MEMORANDUM dated June 30, 1993.

DEVELOPMENT OF SPOT PRICES OF KEY OPEC CRUDE OILS SINCE JANUARY 1988

(US $ barrel)

Month	Arab Light 34	Arab Heavy 27	Iran Light 33.9	Kuwait (Export) 31	Iraq Basrah 34	UAE Murban 39.10	Qatar Dukhan 10
1	2	3	4	5	6	7	8
1988							
January	15.63	14.20	15.68	15.55	15.20	16.45	
February	15.14	13.68	14.86	14.76	14.49	15.63	
March	13.70	12.53	13.70	13.97	13.41	15.06	
April	15.21	14.04	15.06	15.74	14.55	16.85	
May	15.16	13.95	15.00	15.23	14.25	16.61	
June	13.97	12.72	13.80	14.36	13.15	15.75	
July	13.50	12.25	13.44	14.09	12.74	15.48	
August	13.21	11.99	13.08	13.52	12.44	14.93	
September	11.56	10.34	11.54	11.90	10.88	13.41	
October	10.46	9.09	10.16	11.14	9.38	12.65	
November	10.92	9.62	10.72	11.66	9.87	13.42	
December	12.81	11.55	12.56	13.96	11.76	15.76	
1989							
January	14.61	13.36	14.38	15.75	13.55	17.49	
February	14.79	13.54	14.61	15.46	13.60	17.24	
March	16.28	15.03	16.03	17.36	15.16	18.93	
April	17.74	16.49	17.48	16.63	-	-	-
May	16.24	15.00	16.12	15.25	-	-	-
June	15.96	14.71	15.86	15.13	-	-	-
July	16.03	14.63	15.89	15.10	-	-	-
August	15.46	14.11	15.34	14.61	-	-	-
September	16.10	14.73	16.00	15.25	-	-	-
October	16.73	15.48	16.59	16.10	-	-	-
November	16.77	15.52	16.53	15.76	-	-	-
December	17.80	16.55	17.64	16.71	-	-	-
1990							
January	18.32	17.27	18.05	17.27	-	-	-
February	17.58	16.23	17.33	16.40	-	-	-
March	16.51	15.18	16.20	15.39	-	-	-
April	14.61	13.14	14.44	13.58	-	-	-
May	14.63	13.19	14.35	13.59	-	-	-
June	13.14	11.64	12.78	11.98	-	-	-
July	14.81	13.03	14.53	13.25	-	-	-
August	24.13	22.33	24.31	20.13	-	-	-
September	30.10	28.30	30.16	-	-	-	-
October	31.85	28.65	32.01	-	-	-	-
November	28.50	24.50	28.23	-	-	-	-
December	24.19	20.19	23.74	-	-	-	-

Source : Monthly OPEC Bulletins.

Contd.....

DEVELOPMENT OF SPOT PRICES OF KEY OPEC CRUDE OILS SINCE JANUARY 1988

(US $ barrel)

Month	Arab Light 34	Arab Heavy 27	Iran Light 33.9	Kuwait (Export) 31	Iraq Basrah 34	UAE Murban 39.10	Qatar Dukhan 10
1	2	3	4	5	6	7	8
1991							
January	20.70	16.70	20.20	-	-	-	-
February	15.31	11.26	15.11	-	-	-	-
March	15.94	11.84	15.89	-	-	-	-
April	16.31	12.71	16.29	-	-	-	-
May	16.59	13.39	16.97	-	-	-	-
June	16.13	12.93	16.23	-	-	-	-
July	17.02	13.88	16.82	-	-	-	-
August	17.38	14.28	17.19	-	-	-	-
September	18.28	15.08	18.35	-	-	-	-
October	19.64	16.44	19.45	-	-	-	-
November	19.03	15.83	18.99	-	-	-	-
December	16.25	13.16	15.98	-	-	-	-
1992							
January	15.90	12.70	15.80	-	-	-	-
February	16.48	13.28	16.33	-	-	-	-
March	16.45	13.35	16.30	-	-	-	-
April	17.37	14.52	17.18	-	-	-	-
May	18.36	15.76	18.18	16.81	-	-	-
June	19.79	17.19	19.54	18.24	-	-	-
July	19.29	16.69	19.09	17.74	-	-	-
August	18.63	16.03	18.43	17.08	-	-	
September	19.10	16.50	18.91	17.50	-	-	
October	18.94	16.34	18.74	17.34	-	-	
November	17.78	15.38	17.70	16.28	-	-	
December	16.88	14.48	16.78	15.29	-	-	
1993							
January	15.92	13.52	15.74	14.59	-	-	-
February	16.84	14.32	16.48	15.34	-	-	-
March	17.39	14.44	16.25	15.69	-	-	-
April	17.33	14.38	16.25	15.63	-	-	-
May	16.87	14.03	16.43	15.17	-	-	-
June	16.37	13.57	15.17	14.67	-	-	-
July	15.12	12.32	15.16	13.42	-	-	-
August	15.26	12.50	15.25	13.59	-	-	-
September	14.70	12.10	13.95	12.74	-	-	-
October	15.48	13.08	14.41	13.88	-	-	-
November	14.30	11.88	13.25	12.75	-	-	-
December	12.50	10.20	12.44	11.20	-	-	-
1994							
January	13.63	11.18	13.09	11.88	-	-	-
February	13.46	11.01	13.01	11.71	-	-	-
March	12.94	10.99	12.58	11.68	-	-	-

Source : Monthly OPEC Bulletins

DEVELOPMENT OF SPOT PRICES OF MAJOR PETROLEUM PRODUCTS IN KEY TRADING CENTRES OF THE WORLD DURING 1990-91

(US Dollar/bbl)

PRODUCT/Type	As on 1990					1991			Change
	26/10	9/11	23/11	7/12	21/12	4/1	18/1	1/2	26/10/90-1/2/91
1	2	3	4	5	6	7	8	9	10
I. GASOLINE									
1. Ney York Unl.	38.12	38.01	34.86	27.83	27.41	26.62	24.36	26.46	-11.66
2. NWE Prem. 0.15	44.32	40.79	36.42	30.61	30.13	30.49	27.67	30.19	-14.13
3. Med Prem. 0.4	41.13	37.41	33.15	28.13	28.37	28.84	25.88	28.96	-12.17
4. Sing Prem. 0.15	40.50	38.50	36.00	34.25	33.25	32.50	32.75	33.60	-6.90
II. NAPHTHA									
1. US Gulf	38.33	38.12	34.76	26.30	26.25	26.83	25.99	25.67	-12.64
2. Caribbean	33.39	36.33	32.66	25.20	24.31	23.52	21.84	NR	NR
3. NW Europe	36.66	35.19	33.77	28.55	30.14	29.97	28.04	27.01	-9.65
4. Mediterranean	35.75	33.83	32.41	26.79	29.06	28.15	26.11	24.91	-10.84
5. Arabian Gulf	33.94	30.65	30.87	28.15	27.87	27.70	26.45	26.90	-7.04
6. Singapore	33.00	31.00	30.00	28.25	28.25	27.50	27.75	30.00	-3.00
III. JET KEROSENE									
1. New York	46.62	44.10	39.90	35.70	34.97	29.72	27.20	29.82	-16.80
2. US Gulf	45.68	43.00	37.01	34.70	33.60	29.09	25.88	27.46	-18.22
3. Caribbean	43.05	41.79	37.80	34.23	31.50	27.72	23.73	NR	NR
4. NW Europe	52.74	47.77	41.48	37.40	37.40	35.05	34.80	39.50	-13.24
5. Mediterranean	52.54	45.87	39.95	35.88	36.13	33.46	34.16	39.38	-13.16
6. Arabian Gulf (a)	55.40	46.85	36.85	32.85	31.85	32.70	37.20	49.00	-6.40
7. Singapore (a)	58.50	50.75	36.55	35.25	34.25	34.75	36.50	46.50	-12.00
IV. GAS OIL									
1. New York	36.86	37.59	37.28	34.13	33.23	28.88	26.67	27.30	9.56
2. US Gulf	35.81	36.70	36.49	32.50	31.82	27.67	24.78	26.41	-9.40
3. Caribbean	33.39	35.91	35.18	32.34	30.24	26.67	22.89	NR	NR
4. NW Europe	42.16	42.83	40.35	27.00	35.25	32.10	33.11	35.59	-6.57
5. Mediterranean	41.76	42.43	39.88	36.53	34.99	35.25	32.24	35.92	-5.84
6. Arabian Gulf	40.00	39.55	34.05	31.65	32.35	32.55	35.00	45.00	5.00
7. Singapore	43.00	42.45	36.55	34.05	34.75	34.75	35.00	44.50	1.50
V. 1%S RESIDUAL FUEL									
1. New York	24.50	24.88	24.63	24.25	23.25	22.38	17.25	15.88	-8.62
2. US Gulf	24.75	24.25	21.75	19.88	20.25	19.75	15.50	12.75	-12.00
3. NW Europe	24.19	22.95	24.26	24.03	23.33	23.26	19.84	15.12	-9.07
4. Mediterranean	24.03	23.18	23.95	23.57	22.87	23.02	19.22	14.65	-9.38
VI. HIGH S. RESIDUAL FUEL									
1. New York (3.0%S)	20.00	20.75	21.25	21.75	19.00	18.38	14.75	13.38	-6.62
2. US Gulf (3.0%S)	19.12	20.25	19.25	18.50	17.30	17.30	13.50	10.00	-9.12
3. Caribbean (2.8%S)	18.75	19.38	19.75	20.50	18.38	17.13	14.25	NR	NR
4. NW Europe (3.5%S)	21.15	20.44	21.39	21.94	22.18	21.70	18.14	13.15	-8.00
5. Med. (3.5%S)	19.65	23.69	19.57	22.02	22.02	21.70	17.03	11.72	-7.93
6. Arab. Gulf 180cst	21.92	20.85	20.08	18.62	20.69	22.23	21.85	18.08	-3.84
7. Singapore 180cst	23.64	22.25	21.32	20.16	22.25	23.80	24.03	21.32	-2.32
380cst	22.42	21.02	20.55	19.38	21.48	23.05	23.44	20.70	-1.72

(a) = Kerosene. NR = Not reported

SOURCE : Various issues of Oil Industry Development Report 1990-91

DEVELOPMENT OF LOWEST POSTED PRICES OF POL PRODUCTS AT BANDAR MAHSHAR/QUOIN ISLAND

PRICE AS ON	U.S. Cent/U.S. Gallon							U.S. $/ Barrel	
	Naphtha Whole (A-316)	Octane 93	Octane 87	Octane 83	Turbine Fuel	Kerosene	Diesel Index	Ind. Diesel	Light Fuel
1	2	3	4	5	6	7	8	9	10
1.1.70	-	9.0	7.9	7.1	9.5	8.9	6.6	2.62	1.42
1.1.71	-	9.0	7.9	7.1	9.5	8.9	6.6	2.70	1.50
1.1.72	-	9.9	8.7	8.0	10.4	9.8	7.5	3.20	1.95
1.1.73	-	10.2	8.9	8.3	10.7	10.1	7.8	3.32	2.07
1.1.74	-	17.3	N.R.	15.4	18.6	18.3	15.7	6.16	3.75
1.1.75	-	35.9	N.R.	34.0	33.7	33.4	30.8	12.11	10.05
1.1.76	-	38.3	N.R.	36.4	36.7	36.4	33.6	12.86	10.80
1.1.77	-	38.3	N.R.	36.4	36.7	36.4	33.6	12.86	10.50
1.1.78	-	41.2	N.R.	39.0	39.6	39.2	36.5	14.35	11.85
1.1.79	-	44.0	41.5	40.5	43.5	42.5	40.5	N.R.	11.15
1.1.80	91.5*	79.3	77.0	76.0	77.5	76.5	73.0	NR	22.35
1.1.81	87.0**	106.3	104.0	102.5	110.0	105.0	102.0	N.R.	31.04
1.1.82	86.0**	107.8	105.5	104.0	113.5	112.5	106.5	N.R.	32.95
1.1.83	83.0**	100.8	98.5	97.0	110.0	107.0	103.0	N.R.	31.25
1.1.84	71.5**	91.0	86.0	85.0	88.0	87.5	83.0	N.R.	28.35
1.1.85	62.5	88.5	84.0	83.0	87.0	N.R.	77.0	N.R.	27.85
1.1.86	63.0	85.5	N.R.	80.0	86.0	N.R.	80.5	N.R.	25.50
1.1.87	34.0	45.5	41.0	40.0	53.0	N.R.	48.0	N.R.	12.40
1.1.88	38.5	52.2	46.2	42.2	57.5	N.R.	53.0	N.R.	15.50
1.1.89	32.0	52.2	46.2	42.2	64.0	N.R.	48.0	N.R.	13.50
1.1.90	40.0	60.0	NA	50.0	65.0	N.R.	56.5	N.R.	16.00
1.1.91	70.0	114.0	108.0	104.0	108.0	N.R.	92.0	N.R.	22.00
1.1.92	50.0	114.0	108.0	104.0	72.5	N.R.	50.0	N.R.	1600
1.1.93	50.0	114.0	108.0	104.0	72.0	N.R.	50.0	N.R.	16.00
1.1.94	50.0	NR	NR	NR	67.0	NR	50.0	NR	16.00

* = Ex-Ras Tanura N.R. = Not reported
** = Ex-Kuwait Source : Platt's Oil Grams.

WORLD SURVEY OF SELECTED PETROLEUM PRODUCTS PRICES 1993

Country	US $ Exchange Rates in National Currencies	Gasoline (US$ Litre)	Automotive Diesel Oil (US $/Litre)	Heavy fuel Oil for Industry (US $/tonnes)	Light Fuel Oil For House Hold (US $/1000 litres)	Light Fuel Oil For Industry Use (US $/1000 litres)
1.	2.	3.	4.	5.	6.	7.
Australia	1.48	0.455	0.457	NA	NA	NA
Austria	11.63	NA	0.579	119.17	374.03	224.27
Belgium	34.56	0.962	0.597	104.18	233.36	193.58
Canada	1.29	NA	0.403	104.38	293.60	157.43
Denmark	6.48	0.874	0.491	140.78	636.15	265.86
Finland	5.72	0.932	0.549	140.18	287.59	235.82
France	5.67	0.958	0.545	104.81	368.83	260.90
Germany	1.66	0.916	0.561	118.04	275.08	239.14
Greece	229.14	0.880	0.495	134.66	424.02	359.34
Ireland	0.69	0.861	0.774	135.56	359.57	268.73
Italy	1572.00	1.027	0.658	152.13	773.78	641.79
Japan	111.20	NA	0.665	216.86	452.25	297.32
Luxembourg	34.56	0.759	0.486	117.09	248.38	221.77
Netherlands	1.86	1.069	0.589	169.02	352.64	NA
New Zealand	1.85	0.540	0.265	195.90	NA	217.12
Norway	7.09	1.181	0.469	349.44	419.39	343.65
Portugal	160.66	0.941	0.610	165.98	640.59	610.08
Spain	127.25	0.821	0.555	118.16	373.70	324.95
Sweden	7.79	1.030	0.545	178.56	498.07	217.97
Switzerland	1.48	0.825	0.804	138.18	210.98	189.97
Turkey	10965.58	0.648	0.457	153.11	484.44	NA
UK	0.67	0.807	0.625	98.61	200.27	180.70
USA	1.00	NA	0.296	93.02	258.18	144.38

Source : International Energy Agency -Energy prices and taxes Second quater 1994

CONSUMER/RETAIL PRICES OF SELECTED PETROLEUM PRODUCTS IN VARIOUS COUNTRIES OF THE WORLD AS ON 1.4.1993

S.No.	COUNTRY	MS (Petrol)	HSDO	LDO	KEROSENE	F.O.	ATF	LPG (Domestic) (Rs/Kg)	EXCHANGE RATE USED
		(Rs./litre)							
	1	2	3	4	5	6	7	8	9
1.	India (New Delhi)	15.71	6.17	5.52	2.54	5.14	10.98	5.81	
2.	Argentina (B'Aires)	24.40	8.62	NA	9.46	NA	7.66	12.01	1 US $= 1.00 Peso
3.	France (Paris)	31.05	20.88	NA	NA	NA	NA	6.92	Re 1 = 0.17 FF
4.	Germany (Bonn)	26.11	20.74	4.68	8.83	NA	NA	NA	Re 19.2 = 1 DM
5.	Japan (Tokyo)	34.63	20.13	NA	16.87	8.99	NA	9.52	Re 1 = 3.725 Yen
6.	Malaysia (K'Pur)	13.09	8.02	8.04	8.15	NA	NA	14.57	Re 1 = 0.81 M Cents
7.	Myanmar (Yangoon)	22.04	14.46	NA	18.59	11.71	18.59	20.90	Re 1 = 0.1939 Kyet
8.	New Zealand (Wellington)	16.11	9.45	NA	12.45	7.43	9.99	6.87	Re 17.54 = 1.00 NZ$
9.	Pakistan (Islamabad)	13.13	6.12	4.84	6.00	3.05	NA	8.47	Re1 = 1.00 Pak Rupee
10.	Thailand (Bangkok)	12.67	9.33	9.21	10.70	3.85	NA	11.33	Re 1 = 0.84 Baht
11.	Vietnam (Hanoi)	8.07	7.49	NA	8.07	4.32	10.84	NA	Re 1 = 347 Dong

POSTED AIRFIELD PRICES OF JET A-I FUEL AT MAJOR INTERNATIONAL AIRPORTS AS ON 1ST APRIL OF EACH YEAR

(U.S.C/U.S.Gallon)

Coutries	Prices of Jet A.I. Fuel as on 1st April										
Port	1980	1985	1986	1987	1988@	1989@@	1990@@	1991@@	1992	1993	1994
1	2	3	4	5	6	7	8	9	10	11	12
Australia											
Perth	114.88	114.02	87.02	100.94	105.11	N.A.	N.A.	N.A.	N.A.	52.90 $	N.A.
Sydney	114.88	114.02	82.02	100.94	105.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Bahrain	153.40	148.46	120.00	120.00	120.00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Belgium											
Brussels	159.00	128.00	105.00	115.00	115.00	N.A.	N.A.	N.A.	N.A.	140.00	N.A.
Egypt											
Cairo	155.20	121.13	105.00	87.00	93.00	71.49	74.93	119.10	76.80	N.A.	N.A.
Ethopia											
Addisababa	156.06	150.32	146.66	115.29	96.09	N.A.	N.A.	N.A.	N.A.	129.13	N.A.
France											
Paris	147.90	117.24	138.29	100.59	124.89	61.61	66.24	73.37	61.56	65.28	59.88
Germany											
Frankfurt	147.32	107.69	112.84	110.90	119.10	63.20	67.96	74.95	65.07	66.19	60.00
Netherland											
Amsterdam	142.60	115.00	120.00	120.00	120.00	61.20	65.22	68.95	63.41	150.00	N.A.
Italy											
Rome	165.00	135.00	135.00	125.24	138.71	61.58	68.48	75.81	68.70	71.22	63.47
Kenya											
Nairobi	144.00	168.10	157.61	163.00	160.00	N.A.	N.A.	N.A.	N.A.	95.00	N.A.
Lebanon											
Beirut	185.00	165.00	165.00	100.00	100.00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Malaysia											
Kualalumpur	137.00	135.00	135.00	135.00	135.00	N.A.	N.A.	N.A.	N.A.	64.95	N.A.
Mauritius											
Plaisance	140.00	126.00	125.00	60.00	74.46	N.A.	N.A.	N.A.	N.A.	98.00	N.A.
Singapore											
Paya lebar/Changi	137.00	128.50	128.50	90.00	90.00	51.34	63.10	69.07	60.61	61.85	58.42
Switzerland											
Geneva	155.73	105.58	118.94	118.93	118.15	62.90	67.93	70.51	62.31	137.30	59.77
U.A.E.											
Abu Dhabi	154.88	100.45	73.28	65.44	69.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Sharjah/Dubai	154.88	147.58	119.93	99.98	109.95	73.48	78.11	99.31	75.32	120.00	76.32
UNITED KINGDOM											
London (H)	154.76	129.89	132.14	136.41	182.17	61.95	66.37	72.71	65.98	64.98	56.80
Karachi	123.28	175.50	175.50	175.50	154.50	N.A.	N.A.	N.A.	N.A.	135.00	N.A.
Kuwait	113.96	98.15	82.44	70.59	72.73	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
New York (2)	112.00	77.75	59.87	49.10	60.80	62.96	64.98	65.00	59.03	58.41	53.07
Tehran (1)	100.96	122.13	116.23	135.44	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Tokyo											
Narita	118.96	95.00	86.76	60.00	100.00	78.31	85.65	95.49	82.68	90.82	79.59
Bombay	145.22	106.07	105.75	101.39	101.84	89.90	89.59	128.22	88.06	N.A.	78.00
Delhi											
Palam	150.22	108.92	108.75	104.10	104.57	91.82	91.28	133.31	88.30	N.A.	78.00

(1) Monopoly Price (2) Air India Contract Price. $: Australian cents per litre.
@: As on 1st January, 1988. @@ : Relates to average price. NA = Not Available.

INTERNATIONAL PETROLEUM PRICE INDEX (US $/BARREL) DURING 1984-1993

(1985=100)

Year	Petroleum Spot				
	Average Crude Price	Dubai Fateh	U.K. Brent	Alaskan North Slope	West Texes Intermediate
1984	104.7	103.9	105.4	105.2	104.4
1985	100.0	100.0	100.0	100.0	100.0
1986	51.2	49.4	53.1	51.2	53.7
1987	65.9	64.0	67.1	66.6	68.1
1988	52.5	50.0	54.8	52.5	56.7
1989	63.7	59.4	66.7	65.0	69.6
1990	81.7	77.3	87.8	81.1	86.9
1991	67.8	62.5	73.1	67.6	76.3
1992	67.5	65.0	70.8	66.9	73.1
1993					
January	60.7	57.4	63.7	61.0	67.7
February	64.7	60.5	67.5	66.0	71.2
March	65.9	61.6	68.4	67.6	72.3

Source : International Financial Statistics Year Book July, 1993.

INTERNATIONAL PETROLEUM SPOT PRICES (US $ / BARREL) DURING 1984-1993

Year	Petroleum Spot				
	Average Crude Price	Dubai Fateh	U.K. Brent	Alaskan North Slope	West Texes Intermediate
1984	-	27.49	28.80	28.54	29.38
1985	-	26.46	27.33	27.14	28.14
1986	13.82	13.08	14.50	13.89	15.10
1987	17.79	16.94	18.34	18.08	19.16
1988	14.15	13.22	14.97	14.26	15.96
1989	17.19	15.70	18.22	17.65	19.60
1990	22.05	20.46	23.99	22.03	24.45
1991	18.30	16.54	19.99	18.35	21.46
1992	18.22	17.19	19.34	18.15	20.56
1993					
January	16.38	15.20	17.40	16.55	19.05
February	17.45	16.00	18.45	17.90	20.05
March	17.78	16.30	18.70	18.35	20.35

Source : International Financial Statistics Year Book July, 1993.

WORLD TANKER FLEET BY FLAG 1981 TO 1986

(Million dwt)

Flag	1981	1982	1983	1984	1985	1986	% age change 1986 over 1985	% age share of total 1986
Liberia	91.6	84.4	76.4	71.8	63.0	60.9	-3.3	25.3
Panama	14.4	15.9	15.0	14.9	16.8	17.9	+6.5	7.4
USA	16.4	16.8	16.5	15.6	15.2	15.3	+0.7	6.3
France	13.2	11.6	10.4	8.9	5.6	4.6	-17.9	1.9
Greece	27.0	23.7	21.1	19.1	18.3	18.5	+1.1	7.7
Norway	24.4	21.2	18.9	15.7	8.5	5.2	-38.8	2.2
United Kingdom	21.3	17.6	15.3	13.3	12.4	11.7	-5.6	4.8
Other Western Europe	36.2	35.1	34.6	36.1	32.6	29.8	-8.6	12.4
Japan	29.7	28.5	26.3	24.9	23.3	19.9	-14.6	8.3
Others	35.4	39.0	39.1	38.5	40.2	46.6	+15.9	19.3
Total NCW	**309.6**	**293.8**	**273.6**	**259.2**	**235.9**	**230.4**	**-2.3**	**95.6**
Centrally-Planned Economies (CPEs)	10.6	9.9	9.6	10.9	10.9	10.6	-2.9	4.4
Total World	**320.2**	**303.7**	**283.2**	**269.7**	**246.8**	**241.0**	**-2.4**	**100.0**

SOURCE: B.P. Statistical Review of the World Energy.

WORLD TANKER FLEET BY SIZE 1981 TO 1986

(Million dwt)

Flag	1981	1982	1983	1984	1985	1986	% age change 1986 over 1985	% age share of total 1986
15-25 000 dwt	13.8	13.5	13.0	12.8	12.3	12.4	+0.8	5.2
25-45 000 dwt	26.0	27.2	27.4	26.3	25.8	26.3	+1.9	10.9
45-65 000 dwt	16.6	16.1	15.3	15.7	15.0	14.2	-5.3	5.9
65-125 000 dwt	55.4	51.8	48.4	46.2	44.4	46.6	+5.0	19.3
125-200 000 dwt	31.2	30.2	28.8	28.9	28.4	27.5	-3.2	11.4
200-320 000 dwt	146.5	134.5	120.4	111.6	94.9	90.6	-4.5	37.6
320 and over 000 dwt	30.7	30.4	29.9	28.2	26.0	23.4	-10.0	9.7
Total World	**320.2**	**303.7**	**283.2**	**269.7**	**246.8**	**241.0**	**-2.4**	**100.0**

WORLD TANKER FLEET TONNAGE SCRAPPED 1981 TO 1986

(Million dwt)

Flag	1981	1982	1983	1984	1985	1986	% age change 1986 over 1985	% age share of total 1986
10-25 000 dwt	0.5	0.9	0.8	1.2	0.7	0.3	-57.1	2.3
25-45 000 dwt	0.8	1.2	1.1	1.5	1.2	0.7	-41.7	5.4
45-65 000 dwt	0.9	3.6	4.2	2.7	2.2	1.5	-31.8	11.5
80-100 000 dwt	0.3	1.6	1.2	0.9	2.0	0.5	-75.0	3.9
100-160 000 dwt	0.7	1.6	1.0	0.7	1.1	1.0	-9.1	7.7
160 and over 000 dwt	8.8	12.7	15.2	11.1	19.3	9.0	-53.4	69.2
Total World	**12.0**	**21.6**	**23.5**	**18.1**	**26.6**	**13.0**	**-50.9**	**100.0**

SOURCE : B.P. Statistical Review of the World Energy June, 1987.

INTER-AREA TOTAL OIL MOVEMENTS 1993.

(Million Tonnes)

To From	U.S.A	Canada	Latin America	OECD Europe	Africa	Asia @	Japan	Austra-lasia	Rest of World	Total
1	2	3	4	5	6	7	8	9	10	11
USA	-	3.4	17.2	7.9	0.3	8.2	5.8	0.9	2.4	46.1
Canada	58.0	-	0.5	0.3	0.1	0.5	0.2	-	0.3	59.9
Latin America	146.4	4.5	-	27.7	1.2	3.1	4.3	0.1	1.3	188.6
OECD Europe	30.3	15.1	1.8	-	6.8	6.8	0.1	-	14.4	75.3
Middle East	91.9	5.6	35.0	221.8	28.1	212.3	189.7	12.1	19.4	815.9
North Africa	14.2	2.1	-	98.9	6.3	3.0	0.7	0.1	7.2	132.5
West Africa	65.2	4.5	11.6	44.6	0.4	3.2	2.2	0.1	1.3	133.1
East & Southern Africa	-	-	-	-	-	0.5	-	-	-	0.5
South Asia	0.2	-	-	0.3	-	0.9	0.7	-	0.3	2.4
Other Asia	7.2	-	0.4	1.9	-	4.1	42.4	8.4	18.5	82.9
Japan	-	-	-	-	-	5.1	-	-	0.9	6.0
Australasia	1.1	0.3	-	-	-	6.6	3.4	-	0.4	11.8
Ex-USSR	2.6	1.8	3.4	83.1	0.3	3.6	0.4	-	24.9	120.1
Other Non-OECD Europe	-	-	-	4.8	-	-	-	-	2.6	7.4
China	2.6	-	-	-	-	6.3	12.6	0.1	0.1	21.7
Unidentified*	1.4	-	-	19.9	-	2.5	-	0.5	-	24.3
TOTAL IMPORTS	421.1	37.3	69.9.	511.2	43.5	266.7	262.5	22.3	94.0	1728.5

* Includes changes in the quantity of oil in transit, movements not otherwise shown, unidentified millitary use, etc

@ Excluding China and Japan

Source: B.P. Statistical Review of World Energy June, 1994.

WORLD PRIMARY ENERGY CONSUMPTION BY FUEL*-1993

(Million Tonnes Oil Equivalent)

Country/Area	Oil	Natural Gas	Coal	Nuclear Energy	Hydro-Electric	Total
1	2	3	4	5	6	7
USA	787.5	523.8	494.7	164.2	25.7	1996.0
Canada	76.6	62.6	25.8	24.1	25.6	214.7
Total North America	**864.1**	**586.4**	**520.5**	**188.3**	**51.3**	**2210.7**
Argentina	19.8	19.5	0.8	1.9	1.6	43.5
Brazil	63.2	4.0	10.0	0.1	19.6	96.9
Mexico	71.2	23.4	3.3	1.2	1.9	101.0
Venezuela	19.2	22.0	0.3	-	3.6	45.0
Other Latin America	76.5	10.5	6.2	-	7.9	101.0
Total Latin America	**249.9**	**79.4**	**20.6**	**3.2**	**34.6**	**387.4**
Austria	11.2	5.6	2.5	-	3.0	22.4
Belgium & Luxembourg	26.1	9.5	8.4	10.2	†	54.3
Denmark	9.5	2.2	7.2	-	†	18.9
Finland	9.9	2.6	3.2	4.8	1.2	21.7
France	92.0	29.2	14.0	93.4	4.9	233.5
Germany	136.9	59.6	96.7	39.6	1.5	334.3
Greece	16.2	0.1	8.4	-	0.3	25.0
Iceland	0.7	-	0.1	-	0.4	1.2
Republic of Ireland	4.9	1.5	2.0	-	0.1	8.4
Italy	91.8	42.7	11.8	-	3.8	150.2
Netherlands	36.4	33.8	8.1	0.9	-	79.2
Norway	9.2	-	0.5	-	8.5	18.3
Portugal	11.9	-	3.1	-	0.8	15.7
Spain	51.5	5.8	18.2	14.6	2.1	92.2
Sweden	16.1	0.7	2.1	15.2	6.3	40.4
Switzerland	12.3	1.8	0.2	5.5	2.8	22.6
Turkey	27.0	4.5	24.3	-	2.9	58.6
United Kingdom	84.1	60.5	50.7	19.3	0.4	215.0
Total OECD Europe	**647.7**	**260.1**	**261.5**	**203.5**	**39.0**	**1411.9**
Former Soviet Union	274.5	531.9	238.0	54.5	20.1	1118.9
of whic: Russian Fed.	178.6	358.2	140.8	30.7	15.0	723.3
Ukraine	30.2	83.6	56.3	19.4	0.7	190.2
Others	65.7	90.0	40.9	4.4	4.5	205.5
Czech R. & Slovakia	12.4	10.7	26.1	6.4	0.4	55.9
Hungary	8.2	8.3	4.1	3.6.	†	24.3
Poland	14.0	8.2	74.0	-	0.1	96.3
Other Non-OECD Europe	22.9	28.2	32.2	4.8	4.0	92.2
Total Non-OECD Europe	**332.0**	**587.2**	**374.4**	**69.3**	**24.7**	**1387.7**
Total Middle East	**173.4**	**81.6**	**4.5**	**-**	**1.5**	**261.0**
South Africa	18.1	-	69.7	2.0	0.1	89.9
Other Africa	81.3	35.5	7.6	-	6.5	131.0
Total Africa	**99.4**	**35.5**	**77.3**	**2.0**	**6.6**	**220.9**
Australia	32.0	15.5	37.2	-	1.5	86.3
China	143.3	14.2	541.5	0.7	12.4	712.1
India	62.4	14.6	117.0	1.6	6.3	201.8
Indonesia	38.0	9.0	4.0	-	1.1	52.1
Japan	252.6	50.7	79.3	64.6	8.7	455.8
Malaysia	14.4	10.5	1.7	-	0.4	27.1
New Zealand	5.6	4.2	1.3	-	2.1	13.2
Philippines	14.1	-	1.4	-	0.3	15.8
Singapore	22.1	1.4	-	-	-	23.4
South Korea	77.0	5.7	25.3	15.0	0.5	123.5
Taiwan	30.4	2.0	18.5	8.9	0.6	60.3
Thailand	26.8	8.4	5.1	-	0.3	40.7
Other Asia	36.2	20.7	50.0	0.1	5.6	112.6
Total Asia & Australasia	**754.9**	**156.9**	**882.3**	**90.9**	**39.8**	**1924.7**
TOTAL WORLD	**3121.4**	**1787.1**	**2141.1**	**557.2**	**197.5**	**7804.3**
of which: OECD	**1802.0**	**916.9**	**899.8**	**456.4**	**102.6**	**4177.9**
European Union	561.3	244.9	228.6	178.0	98.9	1226.7
LDCs	987.4	283.0	866.9	31.5	70.2	2238.7

* In this Review, primary energy comprises commercially traded fuels only, Excluded, therefore, are fuels such as wood, peat and animal waste which, though important in many countries, are unreliably documented in terms of consumption statistics

† Less than 0.05

Source : B.P. Statistical Review of World Energy June, 1994.

EASTIMATED PER CAPITA PRIMARY ENERGY CONSUMPTION SOME INTERNATIONAL COMPARISONS (1993)

(Kgm. Oil Equivalent)

Country/Area	Oil	Natural Gas	Coal	Nuclear Energy	Hydro-electric	Total
1	2	3	4	5	6	7
USA	3083	2051	1937	643	101	7815
Canada	2796	2285	942	879	934	7836
Total North America	3055	2073	1840	666	181	7817
Austria	1418	709	316	-	380	2835
Belgium & Luxembourg	2610	950	840	1020	+	5430
Denmark	1827	423	1385	-	+	3635
Finland	1980	520	640	960	240	4340
France	1603	509	244	1627	85	4068
Germany	1698	739	1200	491	19	4148
Greece	1573	10	815	-	29	2427
Iceland	2681	-	383	-	1533	4597
Republic of Ireland	1400	428	571	-	29	2400
Italy	1588	739	204	-	66	2599
Netherlands	2395	2224	533	59	-	5210
Norway	2139	-	116	-	1977	4256
Potugal	1214	-	316	-	82	1602
Spain	1317	148	465	373	54	2358
Sweden	1850	80	241	1747	724	4644
Switzerland	1783	261	29	797	406	3275
Turkey	461	77	415	-	50	1002
United Kingdom	1455	1047	877	334	7	3720
Total OECD Europe	1478	593	597	464	89	3221
Ex-USSR	1094	2120	948	217	80	4460
Czechoslovakia	1008	870	2122	520	33	4545
Hungary	526	532	263	231	+	1508
Poland	364	213	1927	-	3	2508
Others	558	688	785	117	98	2249
Total Non-OECD Europe	927	1639	1045	193	69	3574
Total Middle East	1535	722	40	-	13	2310
Australia	1828	886	2126	-	86	4931
China	123	12	466	+	11	613
India*	71	16	132	2	7	228
Indonesia	206	49	22	-	6	283
Japan	2029	407	637	519	70	3661
Malaysia	774	564	91	-	22	1457
New Zealand	1647	1235	382	-	618	3882
Phillippines	219	-	22	-	5	246
Singapore	7893	500	-	-	-	8357
Thailand	462	145	88	-	5	702
Others	84	48	116	+	13	261
Total Asia & Australasia	252	52	295	30	13	643
Total World	574	329	394	102	36	1435
Of which OECD	2080	1058	1038	527	118	4822

* Estimated on the basis of financial year data. † Negligible

Source : (i) BP Statistical Review of World Energy June, 1994
(ii) World Development Report 1994 for population projections.

ESTIMATED PER CAPITA CONSUMPTION OF MAIN PETROLEUM PRODUCTS-SOME INTERNATIONAL COMPARISONS 1993

kg./per capita

Country/Area	Gasoline	Middle Distillates	Fuel	Other*	Total
1	2	3	4	5	6
U.S.A.	1314	916	225	628	3083
Canada	912	891	266	726	2795
OECD	379	602	246	251	1478
Japan	453	720	482	375	2030
Australasia	746	656	96	306	1804
India	4	42	10	10	67
OECD	691	722	271	396	2080

*= Includes Refinery gas, LPG, solvents, petrolem coke, bitumen,waxes, lubricants and refinery fuel and loss

SOURCES : 1. BP Statistical Review of World Energy June, 1994
2. World Development Report, 1994 for Population

NOTE: Figures for India Inserted.

TRENDS IN WORLD PRIMARY ENERGY CONSUMPTION

(Million Tonnes Oil Equivalent)

YEAR	Oil	Natural Gas	Coal	Hydro-Electricity	Nuclear Energy	Total
1	2	3	4	5	6	7
1975	2720.9	1084.5	1715.3	353.4	86.1	5960.2
1976	2891.1	1145.7	1785.4	364.0	106.5	6292.7
1977	2984.2	1167.7	1830.0	373.3	132.1	6487.3
1978	3084.4	1213.3	1860.3	405.6	151.6	6715.2
1979	3141.7	1282.8	1967.9	424.4	155.9	6972.7
1980	3024.1	1296.4	1966.0	433.6	172.9	6893.0
1981	2918.3	1312.1	1959.1	443.2	203.2	6835.9
1982	2820.3	1308.9	2002.2	460.0	222.7	6814.1
1983	2797.3	1325.0	2039.2	482.0	248.0	6891.5
1984	2843.0	1426.5	2114.5	498.7	297.7	7180.4
1985	2826.5	1474.7	2209.6	510.2	350.9	7371.9
1986	2905.2	1487.4	2262.6	519.9	377.4	7552.5
1987	2948.4	1557.8	2341.9	534.3	406.3	7788.7
1988	3038.5	1614.0	2198.9	526.1	435.2	7854.0
1989	3097.8	1707.0	2231.8	526.2	450.6	8013.3
1990	3134.7	1714.1	2200.9	191.3	490.9	7731.9
1991	3141.6	1776.1	2164.5	190.8	535.0	7780.3
1992	3145.6	1759.3	2153.3	190.2	540.8	7789.2
1993 (P)	3121.4	1787.1	2141.1	197.5	557.2	7804.3

SOURCE: Various issues of B.P. Statistical Review of World Energy.

P = Provisional.

PRIMARY ENERGY * CONSUMPTION IN SELECTED COUNTRIES/AREAS OF THE WORLD-1985, 1988, 1989, 1990, 1991, 1992 AND 1993

(Million Tonnes Oil eqvt.)

COUNTRY/AREA	1985	1988	1989	1990	1991	1992	1993	% Change 1993 Over 1992	% share of Total 1993
1	2	3	4	5	6	7	8	9	10
USA	1743.2	1904.3	1928.0	1929.5	1924.7	1955.1	1996.0	+ 2.1	25.6
Canada	178.9	200.8	211.2	202.2	205.6	206.9	214.7	+ 3.8	2.8
Total North America	**1922.1**	**2105.1**	**2139.2**	**2131.7**	**2130.3**	**2162.0**	**2210.7**	**+ 2.3**	**28.4**
Argentina	38.0	42.0	40.4	39.2	40.6	39.8	43.5	+ 9.4	0.6
Brazil	79.9	89.0	91.1	89.4	91.5	95.3	96.9	+ 1.7	1.2
Mexico	90.4	91.2	96.2	100.7	101.1	101.7	101.0	- 0.7	1.3
Venezuela	34.7	39.0	38.4	39.4	40.8	42.9	45.0	+ 5.1	0.6
Other Latin America	78.4	86.9	92.3	94.1	95.6	99.2	101.0	+ 1.9	1.3
Total Latin America	**321.4**	**348.1**	**358.4**	**362.8**	**369.6**	**378.9**	**387.4**	**+ 2.3**	**5.0**
Austria	20.3	20.9	21.0	22.3	23.7	22.7	22.4	- 1.4	0.3
Belgium & Luxembourg	48.1	51.8	53.1	55.1	56.8	57.0	54.3	- 4.8	0.7
Denmark	18.4	18.0	16.5	16.8	19.3	17.7	18.9	+ 7.0	0.2
Finland	20.6	21.8	21.7	21.9	22.4	21.5	21.7	+ 0.9	0.3
France	192.7	203.0	214.1	219.9	232.2	233.4	233.5	+ 0.1	3.0
Germany	354.5	356.6	349.0	351.5	342.2	337.9	334.3	- 1.0	4.3
Greece	18.4	21.4	23.2	24.1	23.9	24.8	25.0	+ 0.6	0.3
Iceland	0.9	1.0	1.0	1.0	1.0	1.1	1.2	+6.0	†
Republic of Ireland	6.8	7.3	7.8	8.1	8.3	8.2	8.4	+ 2.4	0.1
Italy	132.2	144.5	148.4	151.3	153.0	152.3	150.2	- 1.4	1.9
Netherlands	69.7	74.3	74.4	76.4	79.2	78.3	79.2	+ 1.3	1.0
Norway	17.3	17.7	17.6	17.8	17.4	17.8	18.3	+3.0	0.2
Portugal	10.5	12.0	14.3	14.7	15.3	16.3	15.7	- 3.2	0.2
Spain	72.9	78.7	86.9	89.1	90.6	94.0	92.2	- 1.9	1.2
Sweden	41.9	41.8	40.7	42.2	42.9	41.2	40.4	- 1.8	0.5
Swizerland	22.2	22.6	21.6	22.8	23.2	23.9	22.6	-5.3	0.3
Turkey	28.6	47.4	49.6	49.5	50.1	54.8	58.6	+7.0	0.8
United Kingdom	201.3	208.4	209.1	211.0	215.2	213.7	215.0	+ 0.6	2.8
Total OECD Europe	**1277.3**	**1349.2**	**1370.0**	**1395.5**	**1416.7**	**1416.6**	**1411.9**	**- 0.3**	**18.1**
Former Soviet Union	1290.9	1375.7	1370.6	1411.6	1344.7	1239.1	1118.9	- 9.7	14.3
of which: Russian Federation	804.3	862.2	866.5	865.7	842.3	790.8	723.3	- 8.5	9.3
Ukraine	237.2	243.5	234.1	273.4	249.3	219.5	190.2	- 13.3	2.4
Others	249.4	269.9	270.0	272.5	253.1	228.8	205.5	- 10.2	2.6
Czech R. & Slovakia	73.7	76.0	74.7	66.5	61.4	55.3	55.9	+ 1.2	0.7
Hungary	29.6	29.6	28.9	27.2	26.2	23.6	24.3	+ 2.8	0.3
Poland	122.2	126.7	121.9	100.9	98.3	95.9	96.3	+ 0.4	1.2
Other Non-OECD Europe	143.2	149.7	151.0	141.5	113.2	98.2	92.2	- 6.0	1.2
Total Non-OECD Europe	**1659.6**	**1757.6**	**1747.1**	**1747.7**	**1643.8**	**1512.1**	**1387.7**	**- 8.2**	**17.7**
Total Middle East	**193.7**	**219.0**	**231.3**	**240.2**	**238.1**	**249.9**	**261.0**	**+ 4.5**	**3.3**
South Africa	82.4	93.2	89.6	90.8	89.9	87.4	89.9	+ 2.9	1.2
Other Africa	105.7	113.7	120.8	126.7	125.9	128.3	131.0	+ 2.1	1.7
Total Africa	**188.1**	**206.9**	**210.4**	**217.5**	**215.8**	**215.7**	**220.9**	**+ 2.4**	**2.9**
Australia	76.1	81.5	86.4	89.0	84.9	86.4	86.3	- 0.2	1.1
China	526.5	600.6	640.2	650.6	646.1	681.1	712.1	+ 4.6	9.1
India	128.8	160.5	171.2	179.0	185.5	195.7	201.8	+ 3.1	2.6
Indonesia	28.5	34.0	37.9	42.9	45.1	48.2	52.1	+ 8.2	0.7
Japan	360.7	392.7	408.0	428.1	443.2	450.7	455.8	+ 1.1	5.8
Malaysia	12.4	16.3	19.2	21.5	23.8	25.5	27.1	+ 6.1	0.3
New Zealand	9.3	11.1	11.4	11.9	12.3	13.2	13.2	†	0.2
Philipines	9.1	11.6	12.6	13.0	12.8	15.2	15.8	+ 3.9	0.2
Singapore	11.8	16.5	18.9	19.5	19.9	22.0	23.4	+6.3	0.3
South Korea	51.8	73.2	79.6	90.3	101.7	114.1	123.5	+ 8.2	1.6
Taiwan	32.0	42.3	44.0	49.4	53.4	56.6	60.3	+ 6.5	0.8
Thailand	15.5	22.2	25.4	29.5	33.2	36.2	40.7	+ 12.3	0.5
Other Asia	83.4	96.0	99.2	104.3	106.3	109.5	112.6	+ 2.7	1.4
Total Asia & Australasia	**1345.9**	**1558.5**	**1654.0**	**1729.0**	**1768.2**	**1854.4**	**1924.7**	**+ 3.8**	**24.6**
TOTAL WORLD	**6908.1**	**7544.4**	**7710.4**	**7824.4**	**7782.5**	**7789.6**	**7804.3**	**+ 0.2**	**100.0**
of which OECD	3645.5	3939.6	4015.0	4056.2	4087.4	4128.9	4177.9	+ 1.2	53.6
LDCs	1603.0	1847.2	1948.3	2020.5	2051.3	2148.6	2238.7	+ 4.2	28.7

* In this Review, Primary energy comprises commercially traded fuels only. Excluded therefore are fuels such as wood, peat and animal waste, which, though important in many countries, are unreliably docmented in terms of consumption statistics

+ Less than 0.05 Source: B.P. Statistical Review of World Energy June, 1994

P: Provisonal ** Estimated on the basis of financial year data.

COMMERCIAL PRIMARY ENERGY PRODUCTION AND CONSUMPTION BY COUNTRY GROUPS - 1970-1995

(Million b/d of oil equivalent)

COUNTRY	1970		1980		1995	
	Productin	Consumption	Production	Consumption	Production	Consumption
1	2	3	4	5	6	7
I. Industrial Market						
Economics	43.2	63.1	49.9	74.2	69.1	92.0
Petroleum	12.6	32.1	14.1	36.8	13.5	34.1
Natural Gas	13.1	13.0	13.6	14.6	14.0	17.5
Solid Fuels	12.8	13.3	14.0	14.6	24.9	23.7
Primary Electricity	4.7	4.7	8.2	8.2	16.7	16.7
II. Non-Market Industrial						
Economics	28.0	27.2	45.0	43.2	63.2	62.5
Petroleum	8.1	7.8	14.8	13.9	15.7	16.3
Natural Gas	3.9	3.9	8.4	8.0	15.9	14.8
Solid Fuels	15.0	14.5	19.7	19.2	25.9	25.7
Primary Electricity	1.0	1.0	2.1	2.1	5.7	5.7
III Capital Surplus Oil Exporters.	**11.8**	**0.7**	**17.4**	**1.6**	**15.7**	**3.0**
Petroleum	11.7	0.6	16.5	0.9	14.2	1.0
Natural Gas	0.1	0.1	0.9	0.7	1.5	1.2
Solid Fuels	-	-	-	-	-	-
Primary Electricity	-	-	-	-	-	-
IV. Developing Countries	**18.0**	**9.0**	**22.5**	**15.9**	**42.5**	**33.1**
i) Oil Exporters	**14.6**	**2.9**	**16.9**	**5.1**	**29.0**	**11.1**
Petroleum	13.6	2.0	15.0	3.6	21.9	5.9
Natural Gas	0.7	0.6	1.5	1.1	5.7	3.6
Solid Fuels	0.1	0.1	0.1	0.1	0.4	0.6
Primary Electricity	0.2	0.2	0.3	0.3	1.0	1.0
ii) Oil Importers	**3.4**	**6.1**	**5.6**	**10.8**	**13.5**	**22.0**
Petroleum	1.1	3.7	1.0	6.2	1.8	9.0
Natural Gas	0.2	0.2	0.4	0.4	1.5	1.6
Solid Fuels	1.5	1.6	2.6	2.6	5.2	6.4
Primary Electricity	0.6	0.6	1.6	1.6	5.0	5.0
TOTAL WORLD	**101.0**	**100.0**	**134.8**	**134.9**	**190.5**	**190.6**
Petroleum	47.1	46.2	61.4	61.4	67.1	67.1
Natural Gas	18.0	17.8	24.8	24.8	38.6	38.7
Solid Fuels	29.4	29.5	36.4	36.5	56.4	56.4
Primary Electricity	6.5	6.5	12.2	12.2	28.4	28.4
Bankers & Others						

AVERAGE ANNUAL GROWTH RATE OF WORLD SUPPLIES (%)

	1970-80	1980-95
Total World	2.9	2.3
Petroleum	2.7	0.6
Natural Gas	3.3	3.0
Solid Fuels	2.2	3.0
Primary Electricity	6.5	5.8

SOURCE: World Bank Development Report - 1983.

ECONOMIC INDICATORS OF OPEC NATIONS DURING 1993

Country	Mid-Year Population 1993 (Million)	GNP 1993 (Bn.$)	Per capita GNP 1993 ($)	Oil exports 1993 (Bn. $)	Total exports FOB Bn. $)	Oil exports as % of total exports	Oil re-* serves Dec. 93 (Bn. bbls)	Gas re-* serves Dec. 93 (Bn. CM)	Producing oil wells (Dec. 93)	Refining capacity Dec. 93 (000/bbls/ day)	Exports[1] of products (000 bbls/ day)
1	2	3	4	5	6	7	8	9	10	11	12
Algeria	26.98	49.22@	1824	7.98	10.38	76.9	9.20	3700	NA	474.5	374.6
Gabon	1.30	5.35	4119	1.51	1.92	78.6	2.35	104	390	20.0	5.9
Indonesia	190.06	144.32	759	5.28	38.60	13.7	5.78	1824	8615	782.8	237.6*
I.R. Iran	61.25	56.79	927	14.24	14.65	97.2	92.86	21000	740	1081.0	70.0*
Iraq	20.92	22.20	1061	0.36	0.44	81.8	100.00	3100	NA	550.0a	18.4*
Kuwait	2.43	28.44	11686	9.99	10.80	92.5	96.50	1498	710	670.0ab	419.0
Libya	5.05	22.75	4506	7.61	8.02	94.9	22.80	1296	1159	342.0	142.0*
Nigeria	125.37	31.66	253	11.02	11.14	98.9	20.99	3716	1789	400.5	32.5
Qatar	0.43	7.09	16446	2.59	3.38	76.6	2.45	6703	290	63.0	116.2
Saudi Arabia	16.24	124.51	7667	41.35	46.73	88.5	261.20	5260	1390	1750.0ac	1385.7
U.A.E.	1.71	35.85	20964	13.55	20.76	65.3	98.10	5790	1286	192.5	160.0*
Venezuela	20.71	59.18	2858	10.57	14.22	74.3	64.45	3909	13432	1224.0	635.2
TOTAL OPEC	**472.45**	**587.36**	**1243**	**126.05**	**181.04**	**69.6**	**776.68**	**57901**	**30061**	**7550.3**	**3597.1**

+ Total includes figures for Saudi Arabian-Kuwaiti Divided Zone.

* provisional or estimated figures, as of July 12, 1994

NR = Not reported; a: Pre-Gulf crisis capacity; b: According to direct communication the refining capacity for kuwait was 5,52,000 bls/day c: According to direct communication the refining capacity for Saudi Arabia is 15,50,000 bbls/day @: Gross domestic product

1) Including re-exports and exports of petroeum products from gas plants.

Note: Figures when adde up may not correspond to totals due to rounding of.

- = Not aviable

PART - II

PLAN STATISTICS

PART - II

PLAN STATISTICS

EIGHTH PLAN CRUDE OIL PRODUCTION PROFILE

(Mn. Tonnes)

Company/areas	1992-93	1993-94	1994-95	1995-96	1996-97	1992-97
1	2	3	4	5	6	7
A.ONCC						
1. ONSHORE						
Cambay	6.79	7.33	7.80	8.87	8.87	38.97
Assam	3.35	3.76	4.14	4.47	4.72	20.44
Cauvery	0.30	0.35	0.50	0.50	0.50	2.16
K-G	0.03	0.04	0.04	0.04	0.04	0.20
TOTAL ONSHORE	**10.47**	**11.48**	**12.48**	**13.19**	**14.13**	**61.77**
2. OFF SHORE						
Bombay	14.96	16.88	27.38	27.94	28.06	115.21
K-G	0.11	0.14	1.09	1.21	1.19	3.37
TOTAL OFF SHORE	**15.07**	**17.02**	**28.47**	**29.15**	**29.15**	**118.96**
TOTAL ONGC	**25.54**	**2850**	**10.95**	**42.35**	**43.35**	**180.73**
B. OIL						
Assam	2.82	3.00	3.25	3.30	3.50	15.87
Arunachal Pradesh	0.10	0.12	0.15	0.15	0.20	0.72
TOTAL OIL	**2.92**	**3.12**	**3.40**	**3.45**	**3.70**	**16.59**
GRAND TOTAL (A+B)	**28.46**	**31.62**	**44.35**	**45.80**	**47.08**	**197.32**
LATEST ESTIMATES	**(26.95)**	**(27.03)**	**32.30**	**38.37**	**44.45**	**169.09**

Note : The NGL production is included in the total crude oil production. Figures in Parenthesis pertain to actual production.

Source : Drail Report - Eight Five Year Plan.

EIGHTH PLAN NATURAL GAS PRODUCTION PROFILE

(Bn. Cub. Mtrs)

Company/areas	1992-93	1993-94	1994-95	1995-96	1996-97	1992-97
1	2	3	4	5	6	7
A.ONGC						
1.ONSHORE						
Cambay	2.35	2.76	2.98	4.03	4.09	16.21
Assam	0.93	1.05	1.19	1.23	1.28	5.68
Cauvery	0.06	0.07	0.09	0.09	0.09	0.40
K-G	0.93	1.14	1.11	0.85	0.87	4.90
Tripura	0.10	0.13	0.29	0.46	0.47	1.45
TOTAL ONSHORE	**4.37**	**5.15**	**5.66**	**6.66**	**6.80**	**28.64**
2.OFF SHORE						
Bombay	13.31	13.52	18.09	20.80	20.80	86.52
K-G	0.01	0.01	0.10	0.36	0.34	0.82
TOTAL OFFSHORE	**13.32**	**13.53**	**18.19**	**21.16**	**21.14**	**87.34**
TOTAL ONGC	**17.69**	**18.68**	**23.85**	**27.82**	**27.94**	**115.98**
B. OIL						
Assam & Arunachal Pradesh	1.59	1.69	1.89	2.03	2.24	9.44
GRAND TOTAL (A+B)	**19.28**	**20.37**	**25.74**	**29.85**	**30.18**	**125.42**

Source : Draft Report - Eight Five Year Plan.

TARGETS FOR EXPLORATION ACTIVITY IN EIGHTH PLAN (1992-97)

		Unit	ONGC	OIL	TOTAL
	(1)	(2)	(3)	(4)	(5)
1.	Geological and Gravimagnetic Survey	Sq. km.	(.....R & D WORK.....)		
2.	Seismic Survevs (SLK)				
	ON-LAND	'000' Sq. Km.	120	20	140
	OFF-SHORE	'000' sq. Km.	129	-	129
	Total	'000' Sq. Km.	249	20	269
3.	EXPLORATORY DRILLING				
	ON-LAND	'000' Metres	2053	209	2262
	OFF-SHORE	'000' Metres	768	12	780
	Total	'000' Metres	2821	221	3042
4.	DEVELOPMENT DRILLING				
	ON-LAND	'000' Metres	2707	497	3204
	OFF-SHORE	'000' Metres	605	-	605
	Total	'000' Metres	3312	497	3809

Source: Eight Five year Plan Document.

TARGETS FOR OIL SECTOR DURING TERMINAL YEAR OF EIGHTH PLAN AND ACTUALS FOR 1992-93 & 1993-94

Items		Unit	1992-93 (Actual)	1993-94 (Actual)	1996-97 (Target)
	1	2	3	4	5
1.	**Production of Crude Oil**				
	(i) Onshore	Mn. Tonnes	11.20	11.65	17.83
	(ii) Off shore	"	15.75	15.38	29.25
	TOTAL	"	**26.95**	**27.03**	**47.08**
2.	**Pproduction of Natural Gas**				
	(i) Onshore	Bn. Cub. Mtrs.	4.71	4.98	9.04
	(ii) Offshore	"	13.35	13.36	21.14
	TOTAL	"	**18.06**	**18.34**	**30.18**
3.	**Refining**				
	(i) Refining capacity (at year end)	Mn. Tonnes	52.75	53.40	73.55
	(ii) Crude throughput	"	53.48	54.30	65.12
	(iii) Production of Pol Products	"	50.36	51.08	61.20
4.	**Net Imports**				
	(a) Qty : Crude Oil	Mn. Tonnes	29.25	30.82	N.A.
	Pol. Products	"	7.56	8.04	N.A.
	TOTAL	"	**36.81**	**38.86**	**N.A.**
	(b) Value : Crude Oil and Pol. Products	Rs. Crores	15439	16223	N.A
5.	**Demand of Pol. products.**	**Mn. Tonnes**	**58.90**	**60.68**	**79.37**
6.	**LPG**				
	(i) Production	Mn. Tonnes	2.57	2.70	2.06$
	(ii) No. of consumers at year end	Million	19.22	20.73	31.7

Source : Draft Report - Eight Five Year Plan.

$: LPG production from Natural Gas.

DEMAND FOR PETROLEUM PRODUCTS 1984-85 TO 2001-02

Iteams	1984 -85	1989 -90	1990 -91	1991 -92	1992 -93	1993 -94	1996 -97	2001 -02
1	2	3	4	5	6	7	8	9
Demand for Petroleum Products (MMT)	38.80	54.10	55.04	56.97	58.90	60.81	79.37	102.51
Annual Growth Rate over the five years ending in the year (%)	5.4	6.9	6.1	5.5	4.9	3.9	6.9	5.2
Share of Middle Distillates (%)	57.8	60.0	60.2	60.4	61.4	62.7	57.7	57.8

Source: VIIIth Five Year Plan Document.

IMPORT AVAILABILITY RATIOS OF CRUDE OIL & PETROLEUM PRODUCTS 1979-80 TO 1993-94

(Million tonnes)

Items	1979 -80	1984 -85	1989 -90	1990 -91	1991 -92	1992 -93	1993 -94
1	2	3	4	5	6	7	8
A. CRUDE OIL							
i) Producton	11.77	28.99	34.09	33.02	30.34	26.95	27.03
ii) Imports	16.12	7.16	19.49	20.70	23.99	29.25	30.82
iii) Availability (Net)	27.89	36.15	53.58	53.72	54.33	56.20	57.85
iv) Items (ii) as % of Item (iii)	57.80	19.81	36.38	38.53	44.16	52.05	53.28
B. PETROLEUM PRODUCTS							
i) Production †	25.79	33.24	49.46	49.49	49.59	51.68	52.47
ii) Imports	4.72	6.09	6.56	8.66	9.45	11.28	12.08
iii) Availability (Gross)	30.51	39.33	56.02	58.15	59.03	62.96	64.55
iv) Item (ii) as % of Item (iii)	15.47	15.48	11.71	14.89	16.00	17.92	18.71

† Includes LPG Production from Natural Gas.

VALUE* OF CRUDE OIL & POL PRODUCTS IMPORTED DURING V, VI, VII AND VIII FIVE YEAR PLAN PERIODS.

PLAN / PERIOD	VALUE* (Rs./Crores)
(1)	(2)
Vth Plan (1974-79)	6977
VIth Plan (1990-85)	21388
VIIth Plan (1985-90)	19585
Annual Plan (1990-91)	9775
Annual Plan (1991-92)	11824
VIIIth Plan (1992-97)	31660

* Net of POL Imports.

PART - III

FINANCIAL PERFORMANCE/ STRUCTURE

PART - III

FINANCIAL PERFORMANCE/ STRUCTURE

CAPITAL INVESTMENT

The Capital investment defined as the sum total of paid up capital and loans has registered an increase of 17.08% from Rs. 21290.20 crores in 1992-93 to Rs. 24925.81 crores in 1993-94. The increase in the capital investment in 1993-94 was on account of increases in loans from Rs. 19380.08 crores to Rs. 22994.07 crores and marginal increase in paid up capital from Rs. 1910.12 crores to Rs. 1931.74 crores. The position of changes in total loans is as under:-

LOANS

(Rs./Crores)

	Name of the undertaking	1992-93	1993-94	% increase/ decrease
1.	Oil & Natural Gas Commission	9391.08	12074.31	28.6
2.	Oil India Limited	487.19	445.78	(-) 8.5
3.	Gas Authority of India Ltd.	952.64	866.09	(-) 9.1
4.	Indian Oil Corporation Ltd.	6216.61	6499.90	4.6
5.	Bharat Petroleum Corpn. Ltd.	325.58	405.84	24.7
6.	Madras Refineries Ltd.	699.52	851.12	21.7
7.	Hindustan Petroleum Corpon. Ltd.	613.06	918.03	49.7
8.	IBP Co. Ltd.	233.98	287.11	22.7
9.	Cochin Refineries Ltd.	172.05	260.21	51.2
10.	Indian Oil Blending Ltd.	5.08	3.36	(-) 33.9
11.	Lubrizol India Ltd.	30.23	18.80	(-) 37.8
12.	Bongaigaon Refineries & Petrochemicals Ltd.	47.59	49.70	4.4
13.	Balmer Lawrie Ltd.	137.97	144.14	4.5
14.	Engineers India Ltd.	2.00	1.73	(-) 13.5
15.	Biecco Lawrie Ltd.	57.09	59.68	4.5
16.	ONGC - V	8.41	108.27	1187.4

The position of the foreign loans during three years 1991-92,1992-93 and 1993-94 is given below:-

(Rs./Crores)

		1991-92	1992-93	1993-94
(a)	Foreign Loans	12128.58	14543.08	16047.71
(b)	Total Loans	16453.09	19380.08	22994.07
(c)	% of Foreign Loans to Total Loans	73.7	75.00	69.80

IOC and ONGC together accounts for 94.7% of total foreign loans outstanding on 31.3.94
The total loans to net worth ratio of all undertakings together decreased from 0.92 in 1992-93 to 0.91 in 1993-94

CAPITAL EMPLOYED

Capital employed defined as the sum total of net fixed assets (net block) and working capital (excluding capital work in progress and capital goods) increased by 17.2% from Rs. 25439.50 crores in 1992-93 to Rs. 29803.10 crores in 1993-94. The details of changes in Capital employed is given below:-

(A) NET FIXED ASSETS

(Rs./Crores)

Name of the Undertakings	1992-93	1993-94	% increase/ decrease
1. Oil & Natural Gas Commission	8590.85	10857.99	26.4
2. Oil India Limited	433.14	464.63	7.3
3. Gas Authority of India Limited	1526.83	1409.18	(-) 7.7
4. Indian Oil Corporation Limited	1914.82	2577.52	34.6
5. Bharat Petroleum Corporation Limited	907.21	1083.25	19.4
6. Hindustan Petroleum Corporation Limited	971.13	1210.77	24.7
7. Madras Refineries Limited	308.12	437.32	41.9
8. IBP Company Limited	75.35	136.34	80.9
9. Lubrizol India Limited	43.27	43.86	1.4
10. Indian Oil Blending Limited	14.73	16.54	12.3
11. B.R.PL.	183.80	183.03	(-) 0.4
12. Engineers India Limited	40.11	41.90	4.5
13. Balmer Lawrie Limited	42.06	48.82	16.1
14. Biecco Lawrie Limited	.70	0.84	20.0
15. Cochin Refineries	239.37	288.57	20.6

(B) WORKING CAPITAL

		1992-93	1993-94	% increase/ decrease
1.	Oil & Natural Gas Commission	3817.96	4092.11	7.2
2.	Oil India Limited	452.58	430.14	(-) 5.0
3.	Indian Oil corporation Limited	4382.67	4411.83	0.7
4.	Gas Authority of India Limited	189.31	333.73	76.3
5.	Bharat petroleum Corporation Limited	6.07	33.81	457.0
6.	Cochin Refineries Limited	121.31	103.94	(-) 14.3
7.	Madras Refineries Limited	332.50	465.60	40.0
8.	Hindustan Petroleum Corporation Limited	288.06	538.51	86.9
9.	Lubrizol India Limited	47.34	40.67	(-) 14.1
10.	IBP Company Limited	132.34	121.92	(-) 7.9
11.	Indian Oil Blending Limited	4.46	4.58	2.7
12.	B.R.P.L.	156.19	110.66	29.2
13.	Engineers Inda Limited	103.16	111.84	8.4
14.	Balmer Lawrie Limited	89.19	119.98	34.5
15.	ONGC Videsh Limited	17.84	73.92	314.3
16.	Biecco Lawrie	6.92	9.20	32.9

SALES TURNOVER

The sales turnover of all the Undertakings clubbed together increased by 4.5% from Rs. 56406.62 crores in 1992-93 to Rs. 58941.56 crores in 1993-94. The company-wise share of sales turnover showing the amount is as under:-

		1992-93	1993-94	(Rs./Crores) % Share
1.	IOC	24289.68	23700.10	40.2
2.	ONGC	8689.08	9742.15	16.5
3.	HPCL	7806.05	8284.99	14.0
4.	BPCL	5994.43	6427.91	10.9
5.	GAIL	2783.54	3120.45	5.3
6.	CRL	1811.54	2030.88	3.4
7.	MRL	1627.13	1742.42	3.0
8.	IBP Co.	1173.77	1334.89	2.3
9.	OIL	746.61	951.03	1.6
10.	BRPL	534.01	624.48	1.1
11	Others	950.78	982.26	1.7
	Total	56406.62	58941.56	100

PROFITABILITY

The adjusted gross profit which stood at Rs. 3905.35 crores during 1992-93 increased to Rs. 5901.67 crores in 1993-94. The adjusted gross profit expressed as a percentage of sales turnover went up from 6.9% in 1992-93 to 10% in 1993-94. The return on capital employed increased from 12.9% to 18.5%. The net profits, increased from Rs. 2376.92 crores in 1992-93 to Rs. 4024.76 crores in 1993-94. The net profit expressed as a percentage of paid-up Capital increased from 124.4% in 1992-93 to 208.4% in 1993-94 while that of net profits to net worth increased from 11.3% to 15.9%.

DIVIDENDS

There has been an increase in the quantum of dividends paid by the Public Sector Undertakings over the three years.

The total dividend increased from Rs. 244.45 crores in 1992-93 to Rs. 269.31 Crores in 1993-94. The highest amount of dividend was paid by Oil & Natural Gas Commission which paid Rs. 61.71 crores in 1993-94. The Indian Oil Corporation Limited paid a dividend of Rs. 49.30 crores in 1993-94. Biecco Lawrie Limited and ONGC's Videsh Limited did not declare any dividend during the year under review.

CORPORATE TAX

The contribution made to the National Exchequer by the Public Sector Undertakings by way of Corporate taxes was Rs. 799.13 crores in 1993-94 as against Rs. 709.05 crores in 1992-93.

(A) EXPLORATION & PRODUCTION

This category includes the following four enterprises and the data in respect of each undertaking is given in Table Nos. 5 to 8, while their consolidated position is provided in Table No. 4.

1.	Oil & Natural Gas Commission Ltd.	**(ONGC)**
2.	ONGCs Videsh Limited (formerly Hydro Carbons India Limited)	**(ONGC-V)**
3.	Oil India Limited	**(OIL)**
4.	Gas Authority of India Ltd.	**(GAIL)**

Summary position of these undertakings for three years is as under:-

(Rs./Crores)

	1991-92	1992-93	1993-94
1. Paid up Capital	1246.17	1246.17	1246.17
2. Loans	11104.45	10839.32	13494.45
3. Net Worth	10893.78	12591.13	15294.04
4. Capital Employed	15160.97	15028.62	17661.80
4.1 Net Fixed Assets	10021.67	10550.93	12731.90
4.2 Working Capital	5139.30	4477.69	4929.90
5. Sales Turnover	9779.87	12219.23	13813.63
6. Adjusted Gross Profil	1641.66	2079.56	3650.44
7. Net Profit	546.48	1041.37	2430.51
8. Dividends	66.19	86.19	98.43
9. Corporate Tax	134.79	6.77	148.83

The salient points of analysis are given as under:-

1. CAPITAL INVESTMENT:

There has been an increase of 22% in the Capital investment from 12085.49 crores in 1992-93 to Rs. 14740.62 crores in 1993-94. The increase in the capital investemtn was on account of increases in the loans of the undertakings noted below:-

(Rs./Crores)

		1992-93	1993-94	% increase/ decrease
1.	Oil & Natural Gas Commission	9391.08	12074.31	28.6
2.	Gas Authority of India	952.64	866.09	(-) 9.1
3.	Oil India Limited	487.19	445.78	(-) 8.5
4.	ONGC-V	8.41	108.27	1187.4

2. CAPITAL EMPLOYED:

The capital employed registered an increase of 17.5% from 15028.62 crores in 1992-93 to Rs. 17661.80 crores in 1993-94. The increase in capital employed comprised of the increases in the Net Fixed Assets and Working Capital as under:-

(A) NET FIXED ASSETS

(Rs./Crores)

		1992-93	1993-94	% increas
1.	ONGC	8590.85	10857.99	26.4
2.	Oil India Limited	433.14	464.63	7.3
3.	Gas Authority of India Limited	1526.83	1409.18	(-) 7.7
4.	ONGC Videsh Limited	0.11	0.10	(-) 9.1

(B) WORKING CAPITAL

1.	Oil & Natural Gas Commission	3817.96	4092.11	7.2
2.	Oil India Limited	452.58	430.14	(-) 5.0
3.	Oil & Natural Gas Commission-Videsh	17.84	73.92	314.3
4.	Gas Authority of India Limited	189.31	333.73	76.3

3. SALES TURNOVER:

The sales turnover under this category increased from 12219.23 crores in 1992-93 to Rs. 13813.63 crores in 1993-94 showing an increase of 13%. The sales of Oil & Natural Gas Commission went up from Rs. 8689.08 crores in 1992-93 to Rs. 9742.15 crores in 1993-94 and that of Oil India Limited increased from Rs. 746.61crores to Rs. 951.03 crores in the same period. The Sales Turnover of Gas Authority of India also increased from Rs. 2783.54 crores to Rs. 3120.45 crores during the same period.

4. PROFITABILITY:

The adjusted gross profit increased by 75.5% from Rs. 2079.56 crores in 1992-93 to Rs. 3650.44 crores in 1993-94. The gross profits expressed as a percentage of sales turnover increased form 9.4% in 1992-93 to 22.2% in 1993-94. The ratio of gross profit to capital employed went up from 7.6% to 17.3% The ratios of net profit to paid up capital and net worth were 195% and 15.9% in 1993-94 against 83.6% and 8.3% respectively in 1992-93.

5. DIVIDEND:

ONGC and OIL have been paying dividend continuously. GAIL joined the dividend paying companies in 1992-93. The dividend paid by the companies under this group during 1993-94 was Rs. 98.43 crores against Rs. 86.19 crores paid during 1992-93.

6. CORPORATE TAX:

The contribution made by companies of this group by way of taxes to the national exchequer has increased from Rs. 6.77 crores in 1992-93 to Rs. 148.83 crores in 1993-94.

(B) REFINING AND MARKETING

Financial structure and performance of the individual undertakings have been provided in the Table Nos. 10 to 17, while the consolidated position of refining and marketing group has been given in the Table NO. 9. Summary position of the undertaking for three years is as under:-

(Rs./Crores)

		1991-92	1992-93	1993-94
1.	Paid up Capital	437.54	447.13	468.75
2.	Loans	5144.47	8296.11	9244.37
3.	Net Worth	6753.44	7873.10	9382.95
4.	Capital Employed	5559.18	9788.75	11515.03
4.1	Net Fixed Assets	3547.76	4474.00	5794.17
4.2	Working Capital	2011.42	5314.75	5720.86
5.1	Sales Turnover	37729.22	43072.93	43931.72
5.2	Other Income	1001.41	644.54	664.94
	Total	38730.63	43717.47	44596.66
6.	Adjusted Gross Profit	1400.71	1726.04	2092.31
7.	Net Profit	1196.16	1263.77	1481.46
8.	Dividends	120.19	142.88	151.24
9.	Corporate Tax	566.78	645.10	582.71

An analysis of the salient features is given below:

1. CAPITAL INVESTMENT:

During the year the capital investment increased by 11.1% from Rs. 8743.24 in 1992-93 to Rs. 9713.12 crores in 1993-94. The increase in 1993-94 was mainly due to increase in loans. However, there was maraginal increase of Rs. 21.62 crores in the paid up capital due to new issue by MRL. The details of changes in the total loans of companies under this group is given below.

LOANS

(Rs. Crores)

		1992-93	1993-94	% increase/ decrease
1.	Indian Oil Corporation Ltd.	6216.61	6499.90	4.6
2.	BPCL	325.58	405.84	24.7
3.	HPCL	613.06	918.03	49.7
4.	CRL	172.05	260.21	51.2
5.	MRL	699.52	851.12	21.7
6.	IBP Co.	233.98	287.11	22.7
7.	LIL	30.23	18.80	(-) 37.8
8.	IOBL	5.08	3.36	(-) 33.9

With the significant increase in the net worth in 1993-94, the total loans/networth ratio has decreased from 1.05 in 1992-93 to 0.99 in 1993-94.

2. CAPITAL EMPLOYED:

The capital employed in the Refining and Marketing category increased by 17.6% from Rs. 9788.75 crores in 1992-93 to Rs. 11515.03 crores in 1993-94. This was due to signifcant increase in Net fixed Assets, from Rs. 4474.00 crores in 1992-93 to Rs. 5794.17 crores in 1993-94 and working capital from Rs. 5314.75 crores to Rs. 5720.86 crores during the same period.

3. SALES TURNOVER:

The sales turnover of the companies under this category has increased by 2% from Rs. 43072.93 crores in 1992-93 to Rs. 43931.72 crores in 1993-94. The details of sales turnover in respect of major companies under this category are as under:-

(Rs./Crores)

		1991-92	1992-93	1993-94
1.	IOC	20720.87	24289.68	23700.10
2.	HPCL	6862.65	7806.05	8284.99
3.	BPCL	5698.44	5994.43	6427.91
4.	CRL	1486.14	1811.54	2030.88
5.	MRL	1612.67	1627.13	1742.42
6.	IBP	1034.12	1173.77	1334.89

4. PROFITABILITY:

The % age of adjusted gross prift to sales turnover was 4.76% during 1993-94 as against 4% in 1992-93. The adjusted gross profits and net profits were Rs. 2092.31crores and Rs. 1481.46 crores in 1993-94 against Rs. 1726.04 crores and 1263.77 crores respectively in 1992-93. The return on capital employed which was 20.7% decreased to 19.7%. The ratio of net profit to paid-up capital and net worth were 316% and 15.8% in 1993-94 against 282.6% and 16.1% respectively in 1992-93.

5. DIVIDEND:

During 1993-94, the companies under Refining and marketing paid out Rs. 151.24 crores as dividend as against Rs. 142.88 crores in 1992-93. The amount paid in 1991-92 was Rs. 120.19 crores. IOC paid out the highest dividend amounting to Rs. 49.30 crores followed by HPCL amounting to Rs. 31.92 crores.

6. CORPORATE TAX:

The taxes paid by this group of companies was Rs. 582.71 crores in 1993-94 against Rs. 645.10 crores in 1992-93.

(C) PETROCHEMICAL

There is only one undertakings in this category viz., Bongaigaon Refinery & Petrochemicals Ltd. The financial structure and performance of BRPL for three years has been given in Table No. 18. The position is as under:-

(Rs/Crores)

		1991-92	1992-93	1993-94
1.	Paid-up Capital	199.82	199.82	199.82
2.	Loans	48.90	47.59	49.70
3.	Net Worth	362.13	381.18	405.21
4.	Capital Employed	363.47	339.99	293.69
4.1	Net Fixed Assets	192.95	183.80	183.03
4.2	Working Capital	170.52	156.19	110.66
5.	Sales Turnover	466.21	534.01	624.48
6.	Adjusted Gross Profit	57.12	36.25	55.93
7.	Net Profit	35.78	29.01	37.92
8.	Dividend	9.99	9.99	13.99
9.	Corporate Tax	29.20	29.01	23.78

An analysis of the salient features is as under:-

1. CAPITAL INVESTIMENT:

The capital investment increased marginally from Rs. 247.41 crors in 1992-93 to Rs. 249.52 crores in 1993-94.

This is due to increase in loans from Rs. 47.59 crores in 1992-93 to Rs. 49.70 crores in 1993-94. The total loans net worth ratio of the company during 1993-94 has remained at the last years level of 0.12

2. CAPITAL EMPLOYED :

The capital employed decreased by 13.6% from Rs. 339.99 crores in 1992-93 to Rs. 293.69 crores in 1993-94.

The decrease in capital employed was mainly due to 29.2% decrease in the working capital of the undertaking as compared to those in 1992-93.

3. SALES TURNOVER:

The Sales turnover increased by 16.9% from Rs. 534.01 crores in 1992-93 to Rs. 624.48 crores in 1993-94

4. PROFITABILITY:

The %age of adjusted gross profits to sales turnover stood at 8.96% in 1993-94 as against 6.8% 1992-93.

The return on capital employed increased from 12.2% to 23.2% in the same period. The ratio of Net Profit to paid-up Capital and net worth increased from 14.5% and 7.6% in 1992-93 to 19% and 9.4% respectively in 1993-94.

5. CORPORATE TAX

The company paid a corporate tax of Rs. 23.78 crores in 1993-94 as against Rs. 29.01 crores paid in 1992-93

(D) ENGINEERING UNITS

There are at present 3 undertakings under this category, which are:-

1.	Engineers India Limited	(EIL)
2.	Balmer Lawrie Co. Limited	(BLL)
3.	Biecco Lawrie & Co. Limited	(BCL)

The consolidated position of the three companies has been given in Table No. 19 while those of the individual companies have been provided in Table Nos. 20 to 22.

Summary of the results of these companies is as under:-

(Rs./Crores)

		1991-92	1992-93	1993-94
1.	Paid-up Capital	16.00	17.00	17.00
2.	Loans	155.27	197.06	205.55
3.	Net Worth	130.64	167.48	236.12
4.	Capital Employed	240.06	282.14	332.58
4.1	Net Fixed Assets	72.06	82.87	91.56
4.2	Working Capital	168.00	199.27	241.02
5.	Sales Turnover	447.34	580.45	571.73
6.	Adjusted Gross Profit	39.58	63.50	102.99
7.	Net Profit	32.94	42.77	74.87
8.	Dividend	4.13	5.39	5.65
9.	Corporate Tax	12.26	28.17	43.81

An analysis of the saliet features is as under

1. CAPITAL INVESTMENT:

The Capital Investment under this category increased by 4% from Rs. 214.06 crores in 1992-93 to Rs. 222.55 crores in 1993-94. The increase in the capital investment was due to increase in the loans of the under noted companies.

LOANS

(Rs./Crores)

Sl. No.	Name of the Company	1992-93	1993-94	% age increase
1.	Balmer Lawrie Company Limited	137.97	144.14	4.5
2.	Biecco Lawrie Limited	57.09	59.68	4.5
3.	Engineers India Limited	2.00	1.73	(-) 13.5

Inspite of the increase in loans, the total loans/net worth ratio has improved from 0.92 in 1992-93 to 0.87 in 1993-94 due to increase in networth.

2. CAPITAL EMPLOYED:

The capital employed by the engineering units increased by 17.9% from Rs. 282.14 crores in 1992-93 to Rs. 332.58 crores in 1993-94. The corresponding increase in the preceding year was 17.5%. The net fixed assets and working capital of the companies under this category was as under:-

(A) NET FIXED ASSETS

(Rs./Crores)

		1992-93	1993-94	% + Increase - Decrease
1.	Engineers India Limited	40.11	41.90	4.5
2.	Balmer Lawrie Limited	42.06	48.82	16.1
3.	Biecco Lawrie Limited	0.70	0.84	20.0
	TOTAL	**82.87**	**91.56**	**10.5**

(B) WORKING CAPITAL

1.	Engineers India Limited	103.16	111.84	8.4
2.	Balmer Lawrie Limited	89.19	119.98	34.5
3.	Biecco Lawrie Limited	6.92	9.20	32.9
	TOTAL	**199.27**	**241.02**	**21**

3. SALES TURNOVER:

The Sales Turnover of the Undertakings in this category decreased by 1.5% from Rs. 580.45 crores in 1992-93 to Rs. 571.73 crores in 1993-94. However, the sales during preceding year had increased by 29.8%. The ratio of adjusted gross profit to sales turnover increased from 10.9% in 1992-93 to 18% in 1993-94.

4. PROFITABILITY:

The adjusted gross profit has increased from Rs. 63.5 crores in 1992-93 to Rs. 102.99 crores in 1993-94. The ratio of net profit to paid up capital increased from 251.6% in 1992-93 to 440.4% in 1993-94. The ratio of net Profit to net worth increased from 25.5% to 31.7% during the same period.

5. DIVIDEND:

The companies under this category paid a dividend of Rs. 5.65 crores in 1993-94 against Rs. 5.39 crores paid during previous year.

6. CORPORATE TAX:

The contribution made by the companies to National Exchequer by way of taxes was Rs. 43.81 crores in 1993-94as against Rs. 28.17 crores paid during the previous year.

CONSOLIDATED FINANCIAL STRUCTURE 1993-94
ALL CATEGORIES

TABLE NO. 1

(Rs. Lakh)

	ITEM	Exploration and Production	Refining and Marketing	Petro-chemi-cals.	Engineering & other serv. units	Total
1.	Authorised Capital	1610000	61960	20000	3450	1695410
2.	i) Paid-up Capital	124617	46875	19982	1700	193174
	ii) Preference Capital	-	-	-	-	-
i	ii) Reserves & Surpluses	1579326	892252	20539	26984	2519101
3.	i) Total, loans	1349445	924437	4970	20555	2299407
	ii) of which foreign	1044389	556848	3534	-	1604771
4.	Cash credits/advances from banks/others	51021	142098	1436	8412	202967
5.	Net worth	1529404	938295	40521	23612	2531832
6.	i) Gross Block	2642056	1115325	44780	14636	3816797
	ii) Less Depreciation	1368866	535909	26477	5480	1936732
	iii) Net fixed assets	1273190	579417	18303	9156	1880066
	iv) Working Capital	492990	572086	11066	24102	1100244
	v) Capital Empl (iii+iv)	1766180	1151503	29369	33258	2980310
7.	i) Sales	1381363	4393172	62448	57173	5894156
	ii) Other income	24156	66494	1296	3582	95528
	Total	1405519	4459666	63744	60755	5989684
8.	I) Total emoluments (incl. perks)	67497	58303	2001	9990	137791
	ii) of which bonus	2584	8079	-	93	10756
	iii) Average Emol. per person	1.13	0.92	1.06	1.23	1.04
9.	Inventories	162386	670236	1.1138	7483	851243
10.	Gross Profit			-		
	a) Gross Profit before Intt. & Tax	306090	227177	6816	11995	552078
	b) Adjusted gross profit	365044	209231	5593	10299	590167
11.	Net Profit			-		
	a) Net Profit after intt. & taxes	243051	148146	3792	7487	402476
	b) Adjusted net profit	302919	130612	2568	4321	440420
12.	Dividends declared	9843	15124	1399	565	26931
13.	Corporate Tax	14883	58271	2378	4381	79913
	% age of					
	a) NP to paid-up capital	195.04	316.04	18.98	440.41	208.35
	Adj. NP to paid-up capital	243.08	278.64	12.85	254.18	227.99
	b) NP to Net Worth	15.89	15.79	9.36	31.71	15.90
	Adj. NP to Net Worth	19.81	13.92	6.34	18.30	17.40
	c) GP to capital emp.	17.33	19.73	23.21	36.07	18.52
	Adj. GP to capital emp.	20.67	18.17	19.04	30.97	19.80
	d) Sales to Capital Employed	78.21	381.52	212.63	171.91	197.77
	e) GP to Sales	22.16	5.17	10.91	20.98	9.37
	Adj. GP to Sales	26.43	4.76	8.96	18.01	10.01
	f) Loans/Net Worth Ratio	0.88	0.99	0.12	0.87	0.91

SOURCE: 1. Annual Reports of the Companies and data supplied by them.
2. Adjusted/Gross Profits, Net Profits, and other terms are as defined in the glossary of terms.

TABLE NO. 2

CONSOLIDATED FINANCIAL STRUCTURE 1992-93
ALL CATEGORIES

(Rs. Lakhs)

	ITEM	Exploration & Production	Refining & Marketing	Petro-Chemicals	Engineering & other Serv. Units	Total
1.	Authorised Capital	110000	61960	20000	1950	193910
2.	i) Paid-up Capital	124617	44713	19982	1700	191012
	ii) Preference Capital		0		0	0
	iii) Reserves & Surpluses	1345884	743076	18146	20105	2127211
3.	i) Total loans	1083932	829611	4759	19706	1938008
	ii) of which foreign	921730	532578	0		1454308
4.	Cash credits/advance from banks/other	468	134755	900	6993	143116
5.	Net worth	1259113	787310	38118	16748	2101289
6.	i) Gross Block	2280888	920030	42902	13006	3256826
	ii) Less Depreciation	1225795	472629	24522	4719	1727665
	iii) Net fixed assets	1055093	447400	18380	8287	1529160
	iv) Working Capital	447769	531475	15619	19927	1014790
	v) Capital Empl (iii+iv)	1502862	978875	33999	28214	2543950
7.	i) Sales	1221923	4307293	53401	58045	5640662
	ii) Other income i.e.intt.earned	11347	64454	2145	3136	81082
	Total	1233270	4371747	55546	61181	5721744
8.	i) Total emolument (incl. perks)	62715	58695	1851	8764	132025
	ii) of which bonus	2303	3497	9	289	6098
	iii) Average Emoluments per person p.a.	1.07	0.94	1	1.1	1.01
9.	Inventories	168753	550000	11967	6462	737182
10.	Gross Profit					
	a) Gross Profit before Intt. & Tax (Actual)	114867	202749	4135	7397	329148
	b) Adjusted Gross Profit	207956	172604	3625	6350	390535
11.	Net Profit					
	a) Net Profit after tax & Interest (Actual)	104137	126377	2901	4277	237692
	b) Adjusted Net Profit	197225	95003	2391	3230	297849
12.	Dividends declared	8619	14288	999	539	24445
13.	Corporate Tax	677	64510	2901	2817	70905
	% age of					
	a) NP to paid-up Capital	83.6	282.6	14.5	251.6	124.4
	Adjusted NP to paid-up Capital	158.3	212.5	12.0	190.0	155.9
	b) NP to Net Worth	8.3	16.1	7.6	25.5	11.3
	Adjusted NP to Net Worth	15.7	12.1	6.3	19.3	14.2
	c) GP to Capital Employed	7.6	20.7	12.2	26.2	12.9
	Adjusted GP to Capital employed	13.8	17.6	10.7	22.5	15.4
	d) Sales to Capital Employed	81.3	440.0	157.1	205.7	221.7
	e) GP to Sales	9.4	4.7	7.7	12.7	5.8
	Adjusted GP to Sales	17.0	4.0	6.8	10.9	6.9
	f) Loans/Net worth Ratio	0.86	1.05	0.12	1.18	0.92

SOURCE : 1. Annual Reports of the Companies and date supplied by them.
2. There is no authorised Capital in respect of ONGC in exploration and production category.
3. Adjusted/Gross Profits, Net Profit and other terms are as defined in the glossary of terms.

TABLE NO.3

CONSOLIDATED FINANCIAL STRUCTURE 1991-92
ALL CATEGORIES

	ITEM Production	Exploration & Marketing	Refining & Marketing	Petro - Chemicals	Engineering & Other Services	Total
1.	Authorised Capital	110000	55460	20000	1950	187410
2.	i) Paid-up Capital	124617	43753	19982	1600	189952
	ii) Preference Capital					
	iii) Reserves & Surpluses	1231269	632003	16244	16522	1896038
3.	i) Total loans	1110445	514447	4890	15527	1645309
	ii) of which foreign	913798	298882	178	-	1212858
4.	Cash credits/advances from banks/others	20893	40006	1658	4038	66595
5.	Net worth	1089378	675344	36213	13064	1813999
6.	i) Gross Block	2111278	771527	40842	11313	2934960
	ii) Less Depreciation	11-911.	416761	21647	4109	1551518
	iii) Net fixed assets	1002167	354778	19295	7206	1383444
	iv) Working Capital	513930	201142	17052	16800	748924
	v) Capital Empl. (iii+iv)	1516097	555918	36347	24006	2132368
7.	i) Sales	977897	3772922	46621	44734	4842264
	ii) Other Income i.e.Intt. earned	13811	100141	1235	2338	117525
	Total					
8.	i) Total emoluments (incl. perks)	56267	51868	1508	6751	116394
	ii) of which bonus	2282	3504	24	107	5917
	iii) Average Emol. per person	0.73	0.63	0.82	0.72	0.68
9.	Invntories	170316	430392	11312	5326	617346
10.	Gross Profit					
	a) Gross Profit before Intt. & Tax	75770	186962	5825	4893	273450
	b) Adjusted Gross Profit	16416	140071	5712	3958	313907
11.	Net Profit					
	a) Net Profit aftr Intt. & Taxes	54648	119616	3598	3294	181156
	b) Adjusted Net Profit	141843	71929	3485	2359	219616
12.	Dividends declared	6619	12019	999	413	20050
13.	Corporate Tax	13479	56678	2920	1226	74303
	% age of					
	a) NP to paid-up capital	43.9	273.4	18	205.9	95.4
	Adj. NP to paid-up Capital	113.8	164.4	17.4	147.4	115.6
	b) NP to Net Worth 5.0	17.7	9.9	25.2	10.0	
	Adj. NP to Net Worth	13.0	10.7	9.6	18.1	12.1
	c) GP to capital emp.	5.0	33.6	16	20.4	12.8
	Adj. GP to capital emp.	10.8	25.2	15.7	16.5	14.7
	d) Sales to Capital Employed	64.5	678.7	128.3	186.3	227.1
	e) GP to Sales	7.7	5.0	12.5	10.9	5.6
	Adj. GP to Sales	16.8	3.7	12.3	8.8	6.5
	i) Total Loans/Net Worth Ratio	1.02	0.78	0.14	1.19	0.91

SOURCE :
1. Annual Reports of the Companies and data supplied by them
2. There is no authorised Capital respect of ONGC in exploration and production category.
3. Adjusted/Gross Profits and Net Profits are as defined inthe glosary of terms.

TABLE NO. 4

CONSOLIDATED FINANCIAL STRUCTURE OF EXPLORATION & PRODUCTION

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	110000	110000	1610000
2.	i) Paid-up Capital	124617	124617	124617
	ii) Preference Capital	NIL	NIL	NIL
	iii) Reserves & Surpluses	1231269	1345884	1579326
3.	i) Total loans	1110445	1083932	1349445
	ii) of which foreign	913798	921730	1044389
4.	Cash credits/advances from banks/others	20893	468	51021
5.	Net worth	1089378	1259113	1529404
6.	i) Gross	2111278	2280888	2642056
	ii) Less Depreciation	1109111	1225795	1368866
	iii) Net lixed assets	1002167	1055093	1273190
	iv) Working Capital	513930	447769	492990
	v) Capital Empl. (iii+iv)	1516097	1502862	1766180
7.	i) Sales	977987	1221923	1381363
	ii) Other Income	13811	11347	24156
	TOTAL	991798	1233270	1405519
8.	i) Total Emoluments (incl. perks)	56267	62715	67497
	ii) of which bonus	2282	2303	2584
	iii) Average Emol. per person p.a.	0.73	1.07	1.13
9.	Inventories	170316	168753	162386
10.	Gross Profit			
	a) Gorss Profit before Interest & Tax (Actual)	75770	114867	306090
	b) Adjusted Gross Profit	164166	207956	365044
	11. Net Profit			
	a) Net Profit after Tax & Interst (Actual)	54648	104137	243051
	b) Adjusted Net Profit	141843	197225	302919
12.	Dividends declared	6619	8619	9843
13.	Corporate Tax	13479	677	14883
% age of:				
	a) N.P./Adjusted NP to paid-up capital	43.9/113.8	83.6/158.3	195.04/243.08
	b) N.P./Adjusted N.P. to Net Worth	5.0/13.0	8.3/15.7	15.89/19.81
	c) GP/Adjusted GP to capital Emp.	5.0/10.8	7.6/13.8	17.33/20.67
	d) Sales to Capital Emp.	64.5	81.3	78.21
	e) G.P./Adjusted GP to Sales	7.7/16.8	9.4/17.0	22.16/26.43
	f) Total Loans/Net Worth Ratio	1.02	0.86	0.88

SOURCE :
1. Annual Reports of the Companies and data supplied by them
2. There is no authorised Capital in respect of ONGC in exploration and production category. till 1992-93
3. Adjusted/Gross Profits, Net Profits and other terms are as defined in the glossary of terms.

TABLE NO. 5

FINANCIAL STRUCTURE
NAME OF THE COMPANY : OIL & NATURAL GAS CORPORATION LTD.

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	NIL	NIL	1500000
2.	i) Paid-up Capital	34285	34285	34285
	ii) Preference Capital	NIL	NIL	NIL
	iii) Reserve & Surpluses	1155125	1228080	1423082
3.	i) Total Loans	971132	939108	1207431
	ii) Of which Foreign	854730	863065	972536
4.	Cash Credits/Advances from Banks/Others	20441	0	50598
5.	Net Worth	950663	1077656	1316240
6.	i) Gross Block	1796181	1931887	2272272
	ii) Less Depreciation	973902	1072802	1186473
	iii) Net Fixed Assets	822279	859085	1085799
	iv) Working Capital	474926	381796	409211
	v) Capital Empl. (iii+iv)	1297205	1240881	1495010
7.	i) Sales	809899	868908	974215
	ii) Other Income	2685	863	8839
	Total	812584	869771	983054
8.	i) Total Emoluments (incl. perks)	48664	54586	57845
	ii) Of which Bonus	1936	1950	1950
	iii) Average Emoluments per person p.a.	1.00	1.14	1.23
9.	Inventories	145140	139001	136313
10.	a) Gross Profit before Interest & Tax	51231	82289	244073
	b) Adjusted Gross Profit	144044	175339	316308
11.	a) Net Profit affer Interest & Tax	40832	78820	200939
	b) Adjusted Net Profit After Interst & Tax	131871	171869	273174
12.	Dividends Declared	6171	6171	6171
13.	Corporate Tax.	12173	0	12146
% age of:				
	a) N.P./Adjusted NP to paid-up capital	119.1/384.6	229.9/501.3	586.08/796.77
	b) N.P./Adjusted N.P to Net Worth	4.3/13.9	7.3/15.9	15.27/20.75
	c) GP/Adjusted GP to capital Emp.	3.9/11.1	6.6/14.1	16.33/21.16
	d) Sales to Capital Emp.	62.4	70.0	65.16
	e) G.P./Adjusted GP to Sales	6.3/17.8	9.5/20.2	25.05/32.47
	f) Total Loans/Net Worth Ratio	1.02	0.87	0.92

Source: 1. Data as supplied by the company.
2. Adusted/Gross & Net Profits are as defined in the glossary of terms.
3. The data relate to Oil & Natural Gas Commission till 31-1-94 which had no authorised capital

FINANCIAL STRUCTURE
NAME OF THE COMPANY : ONGC VIDESH LIMITED

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	5000	5000	5000
2.	i) Paid-up Capital	3000	3000	3000
	ii) Preference Capital	-	-	-
	iii) Reserve & Surpluses	3733	11302	11585
3.	i) Total Loans	847	841	10827
	ii) Of which Foreign	NIL	NIL	NIL
4.	Cash Credits/Advances from Banks/Others	NIL	NIL	NIL
5.	Net Worth	2599	9924	5545
6.	i) Gross Block	18	18	19
	ii) Less Depreciation	6	7	9
	iii) Net Fixed Assets	12	11	10
	iv) Working Capital	904	1784	7392
	v) Capital Empl. {iii+iv)	916	1795	7402
7.	i) Sales	NIL	NIL	NIL
	ii) Other Income	451	591	1191
	Total	451	591	1191
8.	i) Total Emoluments (incl. perks)	28	24	32
	ii) Of which Bonus	1	1	1
	iii) Average Emoluments	1.21	1.00	1.04
9.	Inventories	780	0	NIL
10.	Gross Profit	-	-	-
	a) Gross Profit beforeinterst & Tax	389	540	1093
	b) Adjusted Gross Profit	0	540	1093
11.	Net Profit			
	a) Net Profit after tax & interest	(-)184	486	283
	b) Adjusted Net Profit	NIL	486	283
12.	Dividends Declared	NIL	NIL	NIL
13.	Corporate Tax.	570	54	NIL
% age of:				
a)	N.P./Adjusted NP to paid-up Capital	(-)6.1/0.0	16.2/16.2	9.43/9.43
b)	N.P./Adjusted N.P. to Net Worth	(-) 7.1/0.0	4.9/4.9	5.10/5.10
c)	GP/Adjusted GP to Capital Emp.	42.5/0.0	30.1/30.1	14.77/14.77
d)	Sales to Capital Emp.	0.0	NIL	NIL
e)	G.P./Adjusted GP to Sales	0.0	NIL	NIL/NIL
f)	Total Loans/Net Worth Ratio	0.33	0.08	1.95

SOURCE : 1. Annual Reports of the company and data Submitted by them
2. Adjusted/Gross Pro., Net Profits and other terms are as defined in the glossary of terms.

FINANCIAL STRUCTURE
NAME OF THE COMPANY : OIL INDIA LIMITED

TABLE NO. 7

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	5000	5000	5000
2.	i) Paid-up Capital	2800	2800	2800
	ii) Preference Capital	-	-	-
	iii) Reserve & Surpluses	70881	85919	95022
3.	i) Total Loans	44726	48719	44578
	ii) Of which Foreign	30224	29372	42290
4.	Cash Credits/Advances from Banks/Other	452	468	423
5.	Net Worth	50054	66425	74231
6.	i) Gross Block	93018	101622	111483
	ii) Less Depreciation	63555	58308	65020
	iii) Net Fxed Assets	29463	43314	46463
	iv) Working Capital	40662	45258	43014
	v) Capital Empl. (iii+iv)	70125	88572	89477
7.	i) Sales	63403	74661	95103
	ii) Other Income	4864	4551	3649
	Total	68267	79212	98752
8.	i) Total Emoluments (incl. perks)	6543	6897	8236
	ii) Of which Bonus	345	352	621
	iii) Average Emoluments	0.72	0.76	0.75
9.	Inventories	17314	23013	19014
10.	Gross Profit			
	a) Gross Profit beforeinterst & Tax	6813	6069	19586
	b) Adjusted Gross Profit	4712	6363	16504
11.	Net Profit			
	a) Net Profit after Tax & Intt. (actual)	4645	3778	9775
	b) Adjusted Net Profit After	2544	4072	6693
12.	Dividends Declared	448	448	672
13.	Corporate Tax.	736	619	2731
% age of:				
a)	N.P./Adjusted NP to paid-up Capital	165.9/90.9	134.9/145.4	349.11/239.04
b)	N.P./Adjusted N.P. to Net Worth	9.3/5.1	5.7/6.1	13.17/9.02
c)	GP/Adjusted GP to Capital Emp.	9.7/6.7	6.9/7.2	21.89/18.44
d)	Sales to Capital Emp.	90.4	84.3	106.29
e)	G.P./Adjusted GP to Sales	10.7/7.4	8.1/8.5	20.59/17.35
f)	Total Loans/Net Worth Ratio	0.89	0.73	0.60

SOURCE : 1. Annual Reports of the company and data Submitted by them
2. Adjusted/Gross Profits, Net Profits and other terms are as difined in the glossary of terms

TABLE NO. 8

FINANCIAL STRUCTURE
NAME OF THE COMPANY : GAS AUTHORITY OF INDIA LTD.

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	100000	100000	100000
2.	i) Paid-up Capital	84532	84532	84532
	ii) Preference Capital	NIL	NIL	NIL
	iii) Reserve & Surpluses	1530	20583	49637
3.	i) Total Loans	93740	95264	86609
	ii) Of which Foreign	28844	29293	29563
4.	Cash Credits/Advances from Banks/Other	NIL	NIL	NIL
5.	Net Worth	86062	105108	133388
6.	i) Gross Block	222061	247361	258282
	ii) Less Depreciation	71648	94678	117364
	iii) Net Fxed Assets	150413	152683	140918
	iv) Working Capital	-2562	18931	33373
	v) Capital Empl. (iii+iv)	147851	171614	174291
7.	i) Sales	104685	278354	312045
	ii) Other Income	5811	5342	10477
	Total	110496	283696	322522
8.	i) Total Emoluments (incl. perks)	1032	1208	1384
	ii) Of which Bonus	-	-	12
	iii) Average Emoluments	0.72	0.82	0.83
9.	Inventories	7082	6739	7059
10.	Gross Profit			
	a) Gross Profit before Tax & Intt. (Actual)	17337	25969	41338
	b) Adjusted Gross Profit	15410	25714	31139
11.	Net Profit			
	a) Net Profit after Interest & Tax (actual)	9355	21053	32054
	b) Adjusted Net Profit	7428	20798	22769
12.	Dividends Declared	-	2000	3000
13.	Corporate Tax.	-	4	6
% age of:				
a)	N.P./Adjusted NP to paid-up Capital	11.1/8.8	24.9/24.6	37.92/26.94
b)	N.P./Adjusted N.P. to Net Worth	10.9/8.6	20.0/19.8	24.03/17.07
c)	GP/Adjusted GP to Capital Emp.	11.7/10.4	15.1/15.0	23.72/17.87
d)	Sales to Capital Emp.	70.8	162.2	179.04
e)	G.P./Adjusted GP to Sales	16.6/14.7	9.3/9.2	13.25/9.98
f)	Total Loans/Net Worth Ratio	1.09	0.91	0.65

SOURCE : 1. Annual Reports of the company and data Submitted by them
2. Adjusted/Gross Profits and other terms are as difined in the glossary of terms

CONSOLIDATED FINANCIAL STRUCTURE
REFINING AND MARKETING

TABLE NO. 9

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	55460	61960	61960
2.	i) Paid-up Capital	43753	44713	46875
	ii) Preference Capital	0	0	0
	iii) Reserves & Surpluses	632003	743076	892252
3.	i) Total loans	514447	829611	924437
	ii) of which foreign	298882	532578	556848
4.	Cash credits/advances from banks/others	40006	134755	142098
5.	Net worth	675344	787310	938295
6.	i) Gross	771527	920030	1115325
	ii) Less Depreclation	416751	472629	535909
	iii) Net Fixed assets	354776	447401	579416
iv)	Working Capital	201142	531475	572086
	v) Capital Empl. (iii+iv)	555918	978875	1151503
7.	i) Sales	3772922	4307293	4393172
	ii) Other Income	100141	64454	66494
	Total	3873063	4371747	4459666
8.	i) Total Emoluments (incl. perks)	51868	58695	58303
	ii) of which bonus	3504	3497	8079
	iii) Average Emoluments per person p.a.	0.63	0.94	0.92
9.	Inventories	430392	550000	670236
10.	Gross Profit			
	a) Gorss Profit before interest & Tax (Actual)	186962	202749	227177
	b) Adjusted Gross Profit	140071	172604	209231
11.	Net Profit			
	a) Net Profit after Tax & Interst (Actual)	119616	126377	148146
	b) Adjusted Net Profit	71929	95003	130612
12.	Dividends declared	12019	14288	15124
13.	Corporate Tax	56678	64510	58271
% age of:				
	a) N.P./Adjusted NP to paid-up capital	273.4/164.4	282.6/212.5	316.04/278.64
	b) N.P./Adjusted N.P. to Net Worth	17.7/10.7	16.1/12.1	15.79/13.92
	c) GP/Adjusted GP to capital Emp.	33.6/25.2	20.7/17.6	19.73/18.17
	d) Sales to Capital Emp.	678.7	440.0	381.52
	e) G.P./Adjusted GP to Sales	5.0/3.7	4.7/4.0	5.17/4.76
	f) Total Loans/Net Worth Ratio	0.76	1.05	0.99

SOURCE : 1. Annual Reports of the Companies and data supplied by them
2. Adjusted/Gross Profits, Net Profits and other terms are as defined in the glossary of terms.

TABLE NO. 10

FINANCIAL STRUCTURE
NAME OF THE COMPANY : INDIAN OIL CORPORATION LTD.

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	15000	15000	15000
2.	i) Paid-up Capital	12327	12327	12327
	ii) Preference Capital	-	-	-
	iii) Reserve & Surpluses	419952	482720	554990
3.	i) Total Loans	362682	621661	649990
	ii) Of which Foreign	294990	529253	547145
4.	Cash Credits/Advances from Banks/Other	16998	78934	76966
5.	Net Worth	432278	495047	567316
6.	i) Gross Block	348198	428032	523919
	ii) Less Depreciation	213305	236550	266167
	iii) Net Fxed Assets	134893	191482	257752
	v) Working Capital	131254	438267	441183
	v) Capital Empl. (iii+iv)	266147	629749	698935
7.	i) Sales	2072087	2428968	2370010
	ii) Other Income	87600	50422	48640
	Total	2159687	2479390	2418650
8.	i) Total Emoluments (incl. perks)	27301	31320	34171
	ii) Of which Bonus	2533	2586	2617
	iii) Average Emoluments per person p.a.	0.82	0.93	1.0
9.	Inventories	248933	221582	392659
10.	Gross Profit			
	a) Gross Profit before Tax & Intt. (Actual)	107587	92070	99818
	b) Adjusted Gross Profit	69055	71752	93342
11.	Net Profit			
	a) Net Profit after Interest & Tax (actual)	78678	67699	77200
	b) Adjusted Net Profit	39255	45952	70724
12.	Dividends Declared	4068	4930	4930
13.	Corporate Tax.	29800	25800	19211
% age of:				
a)	N.P./Adjusted NP to paid-up Capital	638.3/318.4	549.2/372.8	626.27/573.73
b)	N.P./Adjusted N.P. to Net Worth	18.2/9.1	13.7/9.3	13.61/12.47
c)	GP/Adjusted GP to Capital Emp.	40.4/25.9	14.6/11.4	14.28/13.35
d)	Sales to Capital Emp.	778.5	385.7	339.09
e)	G.P./Adjusted GP to Sales	5.2/3.3	3.8/3.0	4.21/3.94
f)	Total Loans/Net Worth Ratio	0.84	1.26	1.15

SOURCE : 1. Annual Reports of the company and data Submitted by them
2. Adjusted/Gross Profits and other terms are as difined in the glossary of terms

TABLE NO. 11

FINANCIAL STRUCTURE
NAME OF THE COMPANY : BHARAT PETROLEUM CORPN. LTD.

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	5000	5000	5000
2.	i) Paid-up Capital	5000	5000	5000
	ii) Preference Capital	NIL	NIL	NIL
	iii) Reserves & Surpluses	74747	90104	110205
3.	i) Total loans	32299	32558	40584
	ii) of which foreign	769	643	9324
4.	Cash credits/advances from banks/others	2725	14952	13629
5.	Net worth	79747	95104	115205
6.	i) Gross	151763	177106	207763
	ii) Less Depreciation	72878	86385	99439
	iii) Net Fixed assets	78885	90721	108325
	iv) Working Capital	5831	607	3381
	v) Capital Empl. (iii+iv)	84716	91328	111706
	i) Sales	569844	599443	642791
	ii) Other Income	4112	5765	7285
	Total	573956	605208	650076
8.	i) Total Emoluments (incl. perks)	9546	9888	8372
	ii) of which bonus	582	543	5097
	iii) Average Emoluments per person p.a.	0.86	0.89	0.74
9.	Inventories	48802	123950	89255
10.	Gross Profit			
	a) Gorss Profit before Interest & Tax (Actual)	29235	32156	39789
	b) Adjusted Gross Profit	26976	27007	33906
11.	Net Profit			
	a) Net Profit after Tax & Interest (Actual)	14846	17007	21326
	b) Adjusted Net Profit	12588	11858	15655
12.	Dividends declared	1500	1650	1650
13.	Corporate Tax	10700	12200	14913
% age of:				
	a) N.P./Adjusted NP to paid-up capital	296.9/251.8	340.1/237.2	426:52/313.10
	b) N.P./Adjusted N.P. to Net Worth	18.6/15.8	17.9/12.5	18.51/13.59
	c) GP/Adjusted GP to capital Emp.	34.5/31.8	35.2/29.6	35.62/30.35
	d) Sales to Capital Emp.	672.7	656.4	575.43
	e) G.P./Adjusted GP to Sales	5.1/4.7	5.4/4.5	6.19/5.27
	f) Total Loans/Net Worth Ratio	0.41	0.34	0.35

SOURCE : 1. Annual Reports of the Companies and data supplied by them
2. Adjusted/Gross Profits, Net Profits and other terms are as defined in the glossary of terms.

FINANCIAL STRUCTURE

NAME OF THE COMPANY : HINDUSTAN PETROLEUM CORPORATION LTD.

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	10000	10000	10000
2.	i) Paid-up Capital	6384	6384	6384
	ii) Preference Capital	-	-	-
	iii) Reserves & Surpluses	83753	103913	131418
3.	i) Total loans	47656	61306	91803
	ii) of which foreign	628	505	379
4.	Cash credits/advances from banks/others	7803	21062	32878
5.	Net worth	90137	110297	137802
6.	i) Gross	162698	191886	229734
	ii) Less Depreciation	84118	94773	108657
	iii) Net Fixed assets	78580	97113	121077
	iv) Working Capital	18484	28806	53851
	v) Capital Empl. (iii+iv)	97064	125919	174928
7.	i) Sales	686265	780605	828499
	ii) Other Income	5079	4545	5937
	Total	691344	785150	834436
8.	i) Total Emoluments (incl. perks)	9385	10631	9237
	ii) of which bonus	140	55	14
	iii) Average Emoluments per person p.a.	0.89	0.99	0.83
9.	Inventories	77233	89079	92253
10.	Gross Profit			
	a) Gross Profit before interest & Tax (Actual)	25065	42486	51575
	b) Adjusted Gross Profit	21853	40143	48913
11.	Net Profit			
	a) Net Profit after Tax & Interst (Actual)	12977	22714	30697
	b) Adjusted Net Profit	9860	20337	28035
12.	Dividends declared	1915	2554	3192
13.	Corporate Tax	7597	15661	15807
% age of:				
	a) N.P./Adjusted NP to paid-up capital	203.3/154.4	355.8/318.6	480.84/439.14
	b) N.P./Adjusted N.P. to Net Worth	14.4/10.9	20.6/18.4	22.28/20.34
	c) GP/Adjusted GP to capital Emp.	25.8/22.5	33.7/31.9	29.48/27.96
	d) Sales to Capital Emp.	707.0	619.9	473.62
	e) G.P./Adjusted GP to Sales	3.7/3.2	5.4/5.1	6..23/5.90
	f) Total Loans/Net Worth Ratio	0.53	0.56	0.67

SOURCE : 1. Annual Reports of the Companies and data supplied by them
2. Adjusted/Gross Profits, Net Profits and other terms are as defined in the glossary of terms.

TABLE NO. 13

FINANCIAL STRUCTURE
NAME OF THE COMPANY : COCHIN REFINERIES LIMITED.

(Rs./Lakhs)

ITEM	1991-92	1992-93	1993-94
(1)	(2)	(3)	(4)
1. Authorised Capital	7500	7500	7500
2. i) Paid-up Capital	6893	6893	6893
ii) Preference Capital	-	-	-
iii) Reserves & Surpluses	22444	29502	34534
3. i) Total loans	14350	17205	26021
ii) of which foreign	2495	2177	-
4. Cash credits/advances from banks/others	61	1369	648
5. Net worth	29338	36396	41428
6. i) Gross	42245	42919	50059
ii) Less Depreciation	16131	18982	21202
iii) Net Fixed assets	26114	23937	28857
iv) Working Capital	12950	12131	10394
v) Capital Empl. (iii+iv)	39064	36068	39251
7. i) Sales	148614	181154	203088
ii) Other Income	84	196	159
Total	148698	181350	203247
8. i) Total Emoluments (incl. perks)	1062	1090	1189
ii) of which bonus	43	46	5
iii) Average Emoluments per person p.a.	0.84	0.85	0.98
9. Inventories	13428	17077	16602
10. Gross Profit			
a) Gross Profit before interest & Tax (Actual)	10486	15540	13763
b) Adjusted Gross Profit	10508	15337	13701
11. Net Profit			
a) Net Profit after Tax & Interst (Actual)	5604	8712	6825
b) Adjusted Net Profit	5626	8509	6763
12. Dividends declared	1448	1654	1792
13. Corporate Tax	4200	6650	5902
% age of:			
a) N.P./Adjusted NP to paid-up capital	81.3/81.6	126.4/123.4	99.01/98.11
b) N.P./Adjusted N.P to Net Worth	19.1/19.2	23.9/23.4	16.47/16.32
c) GP/Adjusted GP to capital Emp.	26.8/26.9	43.1/42.5	35.06/34.91
d) Sales to Capital Emp.	380.4	502.3	517.41
e) G.P./Adjusted GP to Sales	7.1/7.1	8.6/8.5	6.78/6.75
f) Total Loans/Net Worth Ratio	0.49	0.47	0.63

SOURCE : 1. Annual Reports of the Companies and data supplied by them
2. Adjusted/Gross Profits, Net Profits and other terms are as defined in the glossary of terms.

TABLE NO. 14

FINANCIAL STRUCTURE
NAME OF THE COMPANY : MADRAS REFINERIES LIMITED

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	13500	20000	20000
2.	i) Paid-up Capital	11413	11413	13575
	ii) Preference Capital	-	-	-
	iii) Reserves & Surpluses	17301	21542	42355
3.	i) Total loans	40070	69952	85112
	ii) of which foreign	-	-	-
4.	Cash credits/advances from banks/others	6228	8995	3062
5.	Net worth	28313	32494	55114
6.	i) Gross	49544	61169	77413
	ii) Less Depreciation	25789	30356	33681
	iii) Net Fixed assets	23755	30812	43732
iv)	Working Capital	21636	33250	46560
	v) Capital Empl. (iii+iv)	45391	64062	90292
7.	i) Sales	161267	162713	174242
	ii) Other Income	1051	1248	1806
	TOTAL	162318	163961	176048
8.	i) Total Emoluments (incl. perks)	1480	1630	1248
	ii) of which bonus	90	97	110
	iii) Average Emoluments per person p.a.	1.04	1.12	0.78
9.	Invntories	32384	84633	61771
10.	Gross Profit			
	a) Gross Profit before interest & Tax (Actual)	8121	12166	12366
	b) Adjusted Gross Profit	7727	11910	11997
11.	Net Profit			
	a) Net Profit after Tax & Interst (Actual)	4537	7094	7939
	b) Adjusted Net Profit	4143	6838	7570
12.	Dividends declared	2397	2853	2853
13.	Corporate Tax	3000	2068	274
% age of:				
	a) N.P./Adjusted NP to paid-up capital	39.8/36.3	62.2/59.9	58.48/55.76
	b) N.P./Adjusted N.P. to Net Worth	16.0/14.6	21.8/21.0	14.40/13.74
	c) GP/Adjusted GP to capital Emp.	17.9/17.0	19.0/18.6	13.70/13.29
	d) Sales to Capital Emp.	355.3	254.0	192.98
	e) G.P./Adjusted GP to Sales	5.0/4.8	7.5/7.3	7.10/6.89
	f) Total Loans/Net Worth Ratio	1.42	2.15	1.54

SOURCE : 1. Annual Reports of the Companies and data supplied by them
2. Adjusted/Gross Profits, Net Profits and other terms are as defined in the glossary of terms.

TABLE NO. 15

FINANCIAL STRUCTURE
NAME OF THE COMPANY : IBP CO. LIMITED

(Rs./Lakhs)

ITEM	1991-92	1992-93	1993-94
(1)	(2)	(3)	(4)
1. Authorised Capital	2500	2500	2500
2. i) Paid-up Capital	736	736	736
ii) Preference Capital	-	-	-
iii) Reserves & Surpluses	7713	8808	10478
3. i) Total loans	13829	23398	28711
ii) of which foreign	-	-	-
4. Cash credits/advances from banks/others	5203	7734	14202
5. Net worth	8438	9525	11198
6. i) Gross	8218	9662	16362
ii) Less Depreclation	1712	2127	2728
iii) Net Fixed assets	6506	7535	13634
iv) Working Capital	7043	13234	12192
v) Capital Empl. (iii+iv)	13549	20769	25826
7. i) Sales	103412	117377	133489
ii) Other Income	1997	2088	2360
Total	105409	119465	135849
8. i) Total Emoluments (incl. perks)	1813	2517	2695
ii) of which bonus	116	118	182
iii) Average Emoluments per person p.a.	0.70	0.94	0.99
9. Inventories	5273	6387	9029
10. Gross Profit			
a) Gross Profit before interest & Tax (Actual)	3027	4447	5300
b) Adjusted Gross Profit	565	2666	3037
11. Net Profit			
a) Net Profit after Tax & Interst (Actual)	1426	1283	1889
b) Adjusted Net Profit	(-) 1036	(-) 264	(-) 174
12. Dividends declared	177	199	221
13. Corporate Tax	0	584	200
% age of:			
a) N.P./Adjusted NP to paid-up capital	193.8/-140.8	174.3/-35.9	256.66/-23.64
b) N.P./Adjusted N.P. to Net Worth	16.9/-12.3	13.5/-2.8	16.87/-1.55
c) GP/Adjusted GP to capital Emp.	22.3/4.2	21.4/12.8	20.52/11.76
d) Sales to Capital Emp.	763.2	565.2	516.88
e) G.P./Adjusted GP to Sales	2.9/0.5	3.8/2.3	3.97/2.28
f) Total Loans/Net Worth Ratio	1.64	2.46	2.56

SOURCE : 1. Annual Reports of the Companies and data supplied by them
2. Adjusted/Gross Profits, Net Profits and other terms are as defined in the glossary of terms.

TABLE NO. 16

FINANCIAL STRUCTURE

NAME OF THE COMPANY : LUBRIZOL INDIA LIMITED

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	1920	1920	1920
2.	i) Paid-up Capital	960	1920	1920
	ii) Preference Capital	-	-	-
	iii) Reserves & Surpluses	4875	4985	6420
3.	i) Total loans	2874	3023	1880
	ii) of which foreign	-	-	-
4.	Cash credits/advances from banks/others	988	1709	713
5.	Net worth	5835	6905	8340
6.	i) Gross	6536	6654	7044
	ii) Less Depreciation	1937	2327	2658
	iii) Net Fixed assets	4599	4327	4386
	iv) Working Capital	3683	4734	4067
	v) Capital Empl. (iii+iv)	8282	9061	8453
7.	i) Sales	29315	35009	39031
	ii) Other Income	182	157	235
	Total	29497	35166	39266
8.	i) Total Emoluments (incl. perks)	658	886	639
	ii) of which bonus	0	0	2
	iii) Average Emoluments per person p.a.	1.06	1.28	0.96
9.	Inventories	4265	7200	8580
10.	Gross Profit			
	a) Gross Profit before Interest & Tax (Actual)	2598	3154	3945
	b) Adjusted Gross Profit	2520	3037	3794
11.	Net Profit			
	a) Net Profit after Tax & Interst (Actual)	1258	1512	1914
	b) Adjusted Net Profit	1179	1395	1763
12.	Dividends declared	442	442	480
13.	Corporate Tax	951	1237	1714
% age of:				
	a) N.P./Adjusted NP to paid-up capital	131.0/122.8	78.8/72.7	99.69/91.82
	b) N.P./Adjusted N.P. to Net Worth	21.6/20.2	21.9/20.2	22.95/21.14
	c) GP/Adjusted GP to capital Emp.	31.4/30.4	34.8/33.5	46.67/44.88
	d) Sales to Capital Emp.	354.0	386.4	461.74
	e) G.P./Adjusted GP to Sales	8.9/8.6	9.0/8.7	10.11/9.72
	f) Total Loans/Net Worth Ratio	0.49	0.44	0.23

SOURCE : 1. Annual Reports of the Companies and data supplied by them
2. Adjusted/Gross Profits, Net Profits and other terms are as defined in the glossary of terms.

TABLE NO. 17

FINANCIAL STRUCTURE
NAME OF THE COMPANY : INDIAN OIL BLENDING LIMITED

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	40	40	40
2.	i) Paid-up Capital	40	40	40
	ii) Preference Capital	-	-	-
	iii) Reserves & Surpluses	1218	1502	1852
3.	i) Total loans	687	508	336
	ii) of which foreign	-	-	-
4.	Cash credits/advances from banks/others	-	-	-
5.	Net worth	1258	1542	1892
6.	i) Gross Block	2325	2602	3031
	ii) Less Depreciation	881	1129	1377
	iii) Net Fixed assets	1444	1473	1654
	iv) Working Capital	261	446	458
	v) Capital Empl. (iii+iv)	1705	1919	2112
7.	i) Sales	2118	2024	2022
	ii) Other Income	36	33	72
	Total	2154	2057	2094
8.	i) Total Emoluments (incl. perks)	623	733	752
	ii) of which bonus	-	52	52
	iii) Average Emoluments per person p.a.	0.91	1.08	N.A.
9.	Inventories	74	92	87
10.	Gross Profit			
	a) Gross Profit before interest & Tax (Actual)	843	730	621
	b) Adjusted Gross Profit	867	752	541
11.	Net Profit			
	a) Net Profit after Tax & Interst (Actual)	290	356	356
	b) Adjusted Net Profit	314	378	276
12.	Dividends declared	72	6	6
13.	Corporate Tax	430	310	250
% age of:				
	a) N.P./Adjusted NP to paid-up capital	725.0/785.0	890.0/945.0	890.0/690.0
	b) N.P./Adjusted N.P. to Net Worth	23.1/25.0	23.1/24.5	18.82/14.59
	c) GP/Adjusted GP to capital Emp.	49.4/50.9	38.0/39.2	29.40/25.62
	d) Sales to Capital Emp.	124.2	105.5	95.74
	e) G.P./Adjusted GP to Sales	39.8/40.9	36.1/37.2	30.71/26.76
	f) Total Loans/Net Worth Ratio	0.55	0.33	0.18

SOURCE : 1. Annual Reports of the Companies and data supplied by them
2. Adjusted/Gross Profits, Net Profits and other terms are as defined in the glossary of terms.

FINANCIAL STRUCTURE

NAME OF THE COMPANY : BONGAIGAON REFINERY & PETRO-CHEMICALS LIMITED

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	20000	20000	20000
2.	i) Paid-up Capital	19982	19982	19982
	ii) Preference Capital	-	-	-
	iii) Reserves & Surpluses	16244	18146	20539
3.	i) Total loans	4890	4759	4970
	ii) of which foreign	178	0	3534
4.	Cash credits/advances from banks/others	1658	900	1436
5.	Net worth	36213	38118	40521
6.	i) Gross Block	40842	42902	44780
	ii) Less Depreclation	21547	24522	26477
	iii) Net Fixed assets	19295	18380	18303
	iv) Working Capital	17052	15619	11066
	v) Capital Empl. (iii+iv)	36347	33999	29369
7.	i) Sales	46621	53401	62448
	ii) Other Income	1235	2145	1296
	Total	47856	55546	63744
8.	i) Total Emoluments (incl. perks)	1508	1851	2001
	ii) of which bonus	24	9	-
	iii) Average Emoluments per person p.a.	0.82	1.00	1.07
9.	Inventories	11312	11967	11138
10.	Gross Profit			
	a) Gorss Profit before interest & Tax (Actual)	5825	4135	6816
	b) Adjusted Gross Profit	5712	3625	5593
11.	Net Profit			
	a) Net Profit after Tax & Interst (Actual)	3598	2901	3792
	b) Adjusted Net Profit	3485	2391	2568
12.	Dividends declared	999	999	1399
13.	Corporate Tax	2920	2901	2378
% age of:				
	a) N.P./Adjusted NP to paid-up capital	18/18.4	14.5/12	18.98/12.85
	b) N.P./Adjusted N.P. to Net Worth	9.9/9.6	7.6/6.3	9.36/6.34
	c) GP/Adjusted GP to capital Emp.	16/15.7	12.2/10.7	23.21/19.04
	d) Sales to Capital Emp.	128.3	157.1	212.63
	e) G.P./Adjusted GP to Sales	12.5/12.3	7.7/6.8	10.91/8.96
	f) Total Loans/Net Worth Ratio	0.14	0.12	0.12

SOURCE : · 1. Annual Reports of the Companies and data supplied by them
2. Adjusted/Gross Profits, Net Profits and other terms are as defined in the glossary of terms.

TABLE NO.19

FINANCIAL STRUCTURE

NAME OF THE COMPANY : ENGINEERING SERVICES AND OTHER UNITS

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	1950	1950	3450
2.	i) Paid-up Capital	1600	1700	1700
	ii) Preference Capital	-		-
	iii) Reserves & Surpluses	16522	20105	26984
3.	i) Total loans	15527	19706	20555
	ii) of which foreign	-	-	-
4.	Cash credits/advances from banks/others	4038	6993	8412
5.	Net worth	13064	16748	23612
6.	i) Gross Block	11313	13006	14636
	ii) Less Depreclation	4109	4719	5480
	iii) Net Fixed assets	7209	8287	9156
	iv) Working Capital	16800	19927	24102
	v) Capital Empl. (iii+iv)	24006	28214	33258
7.	i) Sales	44734	58045	57173
	ii) Other Income	2338	3136	3582
	Total	47072	61181	60755
8.	i) Total Emoluments (incl. perks)	6751	8764	9990
	ii) of which bonus	107	289	93
	iii) Average Emoluments per person p.a.	0.72	1.1	1.23
9.	Inventories	5326	6462	7483
10.	Gross Profit			
	a) Gross Profit before interest & Tax (Actual)	4893	7397	11995
	b) Adjusted Gross Profit	3958	6350	10299
11.	Net Profit			
	a) Net Profit after Tax & Interst (Actual)	3294	4277	7487
	b) Adjusted Net Profit	2359	3230	4321
12.	Dividends declared	413	539	565
13.	Corporate Tax	1226	2817	4381
% age of:				
	a) N.P./Adjusted NP to paid-up capital	205.9/147.4	251.6/190.0	440.41/254.18
	b) N.P./Adjusted N.P. to Net Worth	25.2/18.1	25.5/19.3	31.71/18.30
	c) GP/Adjusted GP to capital Emp.	20.4/16.5	26.2/22.5	36.07/30.97
	d) Sales to Capital Emp.	186.3	205.7	171.91
	e) G.P./Adjusted GP to Sales	10.9/8.8	12.7/10.9	20.98/18.01
	f) Total Loans/Net Worth Ratio	1.19	1.18	0.87

SOURCE : 1. Annual Reports of the Companies and data supplied by them
2. Adjusted/Gross Profits, Net Profits and other terms are as defined in the glossary of terms.

TABLE NO.20

FINANCIAL STRUCTURE
NAME OF THE COMPANY : ENGINEERS INDIA LIMITED

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	200	200	200
2.	i) Paid-up Capital	100	200	200
	ii) Preference Capital	-	-	-
	iii) Reserves & Surpluses	11358	13959	19790
3.	i) Total loans	275	200	173
	ii) of which foreign	-	-	-
4.	Cash credits/advances from banks/others	-	-	48
5.	Net worth	11458	14159	19990
6.	i) Gross Block	5551	6170	6769
	ii) Less Depreciation	1825	2159	2579
	iii) Net Fixed assets	3726	4011	4190
	iv) Working Capital	8000	10316	11184
	v) Capital Empl. (iii+iv)	11726	14327	15374
7.	i) Sales	9870	14953	20938
	ii) Other Income	1259	1663	1979
	Total	11129	16616	22917
8.	i) Total Emoluments (incl. perks)	3853	5555	6689
	ii) of which bonus	3	199	3
	iii) Average Emoluments per person p.a.	1.12	1.56	1.77
9.	Inventories	119	337	178
10.	Gross Profit			
	a) Gross Profit before interest & Tax (Actual)	2580	3936	8532
	b) Adjusted Gross Profit	2226	3771	8047
11.	Net Profit			
	a) Net Profit after Tax & Interst (Actual)	2592	2935	6031
	b) Adjusted Net Profit	2238	2770	4066
12.	Dividends declared	100	200	200
13.	Corporate Tax	826	2417	3981
% age of:				
	a) N.P./Adjusted NP to paid-up capital	2592.0/2238.0	1467.5/1385.0	3015.50/2033.0
	b) N.P./Adjusted N.P. to Net Worth	22.6/19.5	20.7/19.6	30.17/20.34
	c) GP/Adjusted GP to capital Emp.	22.0/19.0	27.5/26.3	55.5/52.34
	d) Sales to Capital Emp.	84.2	104.4	136.19
	e) G.P./Adjusted GP to Sales	26.1/22.6	26.3/25.2	40.75/38.43
	f) Total Loans/Net Worth Ratio	0.02	0.01	0.01

SOURCE : 1. Annual Reports of the Companies and data supplied by them
2. Adjusted/Gross Profits, Net Profits and other terms are as defined in the glosary of terms.

TABLE NO.21

FINANCIAL STRUCTURE

NAME OF THE COMPANY : BALMER LAWRIE & COMPANY LIMITED.

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	1500	1500	3000
2.	i) Paid-up Capital	1303	1303	1303
	ii) Preference Capital	-	-	-
	iii) Reserves & Surpluses	5159	6141	7189
3.	i) Total loans	9815	13797	14414
	ii) of which foreign	-	-	-
4.	Cash credits/advances from banks/others	4013	6993	8364
5.	Net worth	6462	7444	8492
6.	i) Gross Block	5424	6493	7500
	ii) Less Depreciation	2019	2287	2618
	iii) Net Fixed assets	3406	4206	4882
	iv) Working Capital	8386	8919	11998
	v) Capital Empl. (iii+iv)	11792	13125	16880
7.	i) Sales	33505	41058	34185
	ii) Other Income	1075	1468	1599
	Total	34580	42526	35784
8.	i) Total Emoluments (incl. perks)	2384	2616	2717
	ii) of which bonus	89	76	76
	iii) Average Emoluments per person p.a.	0.72	0.78	0.81
9.	Inventories	4906	5826	6392
10.	Gross Profit			
	a) Gross Profit before interest & Tax (Actual)	2390	3380	3328
	b) Adjusted Gross Profit	1809	2498	2128
11.	Net Profit			
	a) Net Profit after Tax & Interst (Actual)	873	1321	1413
	b) Adjusted Net Profit	292	439	213
12.	Dividends declared	313	339	365
13.	Corporate Tax	400	400	400
% age of:				
	a) N.P./Adjusted NP to paid-up capital	67.0/22.4	101.4/33.7	108.44/16.35
	b) N.P./Adjusted N.P. to Net Worth	13.5/4.5	17.7/5.9	16.64/2.51
	c) GP/Adjusted GP to capital Emp.	20.3/15.3	25.8/19.0	19.72/12.61
	d) Sales to Capital Emp.	284.1	312.8	202.52
	e) G.P./Adjusted GP to Sales	7.1/5.4	8.2/6.1	9.74/6.22
	f) Total Loans/Net Worth Ratio	1.52	1.85	1.70

SOURCE : 1. Annual Reports of the Companies and data supplied by them
2. Adjusted/Gross Profits, Net Profits and other terms are as defined in the glossary of terms.

FINANCIAL STRUCTURE
NAME OF THE COMPANY : BIECCO LAWRIE LTD.

(Rs./Lakhs)

	ITEM	1991-92	1992-93	1993-94
	(1)	(2)	(3)	(4)
1.	Authorised Capital	250	250	250
2.	i) Paid-up Capital	197	197	197
	ii) Preference Capital	-	NIL	NIL
	iii) Reserves & Surpluses	5	5	5
3.	i) Total loans	5437	5709	5968
	ii) of which foreign	-	-	-
4.	Cash credits/advances from banks/others	25	-	-
5.	Net worth	(-) 4856	(-) 4855	(-) 4870
6.	i) Gross Block	338	343	367
	ii) Less Depreclation	265	273	283
	iii) Net Fixed assets	74	70	84
	iv) Working Capital	414	692	920
	v) Capital Empl. (iii+iv)	488	762	1004
7.	i) Sales	1359	2034	2050
	ii) Other Income	4	5	4
	Total	1363	2039	2054
8.	i) Total Emoluments (incl. perks)	514	593	584
	ii) of which bonus	15	14	14
	iii) Average Emoluments per person p.a.	0.48	0.58	0.58
9.	Inventories	301	299	913
10.	Gross Profit			
	a) Gross Profit before interest & Tax (Actual)	(-)77	81	135
	b) Adjusted Gross Profit	(-)77	81	124
11.	Net Profit			
	a) Net Profit after Tax & Interst (Actual)	(-)171	21	43
	b) Adjusted Net Profit	(-)171	21	42
12.	Dividends declared	-	-	-
13.	Corporate Tax	-	-	-
% age of:				
	a) N.P./Adjusted NP to paid-up capital	-86.8/(-)86.8	10.7/10.7	21.83/21.32
	b) N.P./Adjusted N.P. to Net Worth	3.5/3.5	(-) 0.4/(-) 0.4	(-) 0.88/(-) 0.86
	c) GP/Adjusted GP to capital Emp.	-15.8/-15.8	10.6/10.6	13.45/12.35
	d) Sales to Capital Emp.	278.5	266.9	204.18
	e) G.P./Adjusted GP to Sales	-5.7/(-)5.7	4.0/4.0	6.59/6.05
	f) Total Loans/Net Worth Ratio	(-)1.12	(-)1.18	(-) 1.23

SOURCE : 1. Annual Reports of the Companies and data supplied by them
2. Adjusted/Gross Profits, Net Profits and other terms are as defined in the glossary of terms.

CAPITAL INVESTMENT OF THE PUBLIC SECTOR UNDERTAKINGS UNDER THE PURVIEW OF MINISTRY OF PETROLEUM & NATURAL GAS AS ON 1.4.93 AND 1.4.94

(Rs. Crores)

Name of the Undertaking	1.4.93				1.4.94			
	Paid-up Capital	Loans	Total	Govt. Share	Paid-up Capital	Loans	Total	Govt. Share
A. EXPLORATION & PRODUCTION	1246.2	10839.3	12085.5	2361.5	1246.2	13494.5	14740.7	2549.4
1. ONGC	342.9	9391.1	9734.0	1220.1	342.9	12074.3	12417.2	1479.4
2. ONGC Videsh Ltd.	30.0	8.4	38.4	-	30.0	108.3	138.3	-
3. OIL	28.0	487.2	515.2	199.8	28.0	445.8	473.8	152.5
4. GAIL	845.3	952.6	1797.9	941.5	845.3	866.1	1711.4	917.5
B. REFINING & MARKETING	447.1	8296.1	8743.3	501.4	468.8	9244.4	9713.1	471.2
5. IOC	123.3	6216.6	6339.9	123.3	123.3	6499.9	6623.2	123.3
6. BPCL	50.0	325.6	375.6	86.2	50.0	405.8	455.8	80.1
7. HPCL	63.8	613.1	676.9	103.1	63.8	918.0	981.8	89.7
8. CRL	68.9	172.1	241.0	62.9	68.9	260.2	329.1	56.5
9. MRL	114.1	699.5	813.6	110.0	135.8	851.1	986.9	105.6
10. IBP Co. Ltd.	7.4	234.0	241.4	4.4	7.4	287.1	294.5	4.4
11. Lubrizol	19.2	30.2	49.4	11.5	19.2	18.8	38.0	11.5
12. IOB	0.4	5.1	5.5	-	0.4	3.4	3.8	-
C. PETROCHEMICALS	199.8	47.6	247.4	149.1	199.8	49.7	249.5	149.1
13. BRPL	199.8	47.6	247.4	149.1	199.8	49.7	249.5	149.1
D. ENGINEERING UNITS	17.0	197.1	214.1	45.7	17.0	205.6	222.5	45.7
14 EIL	2.0	2.0	4.0	2.0	2.0	1.7	3.7	2.0
15. Balmer Lawrie	13.0	138.0	151.0	-	13.0	144.1	157.1	-
16. Biecco Lawrie	2.0	57.1	59.1	43.7	2.0	59.7	61.7	43.7
GRAND TOTAL (A+B+C+D)	1910.1	19380.1	21290.3	3057.7	1931.7	22994.1	24925.8	3215.3
				14%				13%

GLOSSARY OF TERMS USED FOR TABLES ON FINANCIAL STATISTICS

1.	Loans	:	These include both secured and unsecured loans but exclude interest accured, if any, included in the loans.
2.	Net Worth	:	This represents paid-up capital plus free reserves less accumulated losses (deficit) and deferred revenue expenditure remaining unamortised.
3.	Capital Employed	:	This means gross block less accumulated depreciation there-on plus working capital.
4.	Working Capital	:	Means all current assets, loans & advances, deposits, investment (Other than non trade investments) less current liabilities and provisions (excluding cash credit & bank overdrafts and provision for gratuity.
5.	Sales	:	Means Net sales turnover i.e. after excluding trade discounts and products used for internal consumption.
6.	Adjusted Gross Profit	:	Represents exces of income over expenditure before providing for interest on loans, taxes, appropriation to reserves, charges pertaining to previous years, donation, exchange fluctuation, loss on disposal of Assets, Dividends etc.
7.	Adjusted Net Profit	:	Represents the figure arrived at after deducting from the adjusted gross profit interest On loans bad debts and taxes but before appropriation to reserves.
8.	Dividend Declared	:	Includes also preference dividend, if any.
9.	Gross Profits & Net Profit	:	They are as given in the Annual Accounts of the Companies.

APPENDIX

APPENDIX

(III) PREFIXES USED IN METRIC TABLES

Prefix		Meaning	
Milli	:	One Thousandth	(1/1000=.001).
Centi	:	One Hundredth	(1/100=.01).
Deci	:	One Tenth	(1/10=.1).
Unit	:	One	(1).
Deka	:	Ten	(10)
Hecto	:	One Hundred	(100).
Kilo	:	One Thousand	(1,000).
Mega	:	One Million	(1000,000).

(IV) OTHERS

API	:	American Petroleum Institute.
AFRA	:	Average Freight Rate Assessment.
CIF	:	Cost, Insurance and Freight.
Crores	:	10 million/100 Lakhs.
DWT	:	Dead Weight Tonnage.
FOB	:	Free on Board.
GP	:	General Purpose (16,500-24,999 dwt).
LV	:	Low Viscosity.
HV	:	High Viscosity.
HVI	:	High Viscosity Index
KL	:	Kilolitre
LR I	:	Large Range I (45,000-79, 999 dwt).
LR II	:	Large Range II (80,000-159,999 dwt).
LVI	:	Medium Range (25,000-49,999 dwt).
MT	:	Metric Ton.
MTPA	:	Million Tonnes Per Annum.
MV	:	Medium Viscosity.
MVI	:	Medium Viscosity Index.
R&D	:	Research & Development.
ULCC	:	Ultra Large Crude Carrier (320,000-549,999 dwt).
VLCC	:	Very Large Crude Carrier (160,000 dwt and more).
NA	:	Not available.
-	:	Nil
Neg	:	Negligible.
Billion	:	10^9 or one thousand Million.
Trillion	:	10^{12} or one million million.
P	:	Provisional.

METRIC UNITS

LINEAR

10 Millimetres	=	1 Centimetre.
10 Centimetres	=	1 Decimetre
10 Decimetres	=	1 Metre.
10 Metres	=	1 Decametre.
10 Decametres	=	1 Hectometre.
10 Hectometres	=	1 Kilometre.

AREA

100 Sq. Millimetres	=	1 Sq. Centimetre.
100 Sq. Centrimetres	=	1 Sq. Decimetre.
100 Sq. Decimetres	=	1 Sq. Metre.
100 Sq. Metres	=	1 Sq. Decametre -1Acre.
100 Sq. Acres	=	1 Sq. Hectometre - Hectare.
100 Hectares	=	1 Sq. Kilometre.

WEIGHT

10 Milligrams	=	1 Centigram.
10 Centigrams	=	1 Decigram.
10 Decigrams	=	1 Gram.
10 Grams	=	1 Decagram.
10 Decagrams	=	1 Hectogram.
10 Hectograms	=	1 Kilogram.
100 Kilograms	=	1 Quintal.
1000 Kilograms	=	1 Metric Tonne.

CAPACITY

10 Millilitres	=	1 Centilitre.
10 Centilitres	=	1 Decilitre.
10 Decilitres	=	1 Litre.
10 Litres	=	1 Decalitre.
10 Decalitre	=	1 Hectolitre.
10 Hectorlitres	=	1 Kilolitre.

VOLUME

1000 Cubic Millimetres	=	1 Cubic Centimetre.
1000 Cubic Centimetres	=	1 Cubic Decimetre.
1000 Cubic Decimetres	=	1 Cubic Metre.

CONVERSION FACTORS USED IN THE OIL TRADE LINEAR AND SQUARE MEASURES.

LENGTH

1 INCH	=	25.4 Millimetres (mm)
	=	0.0254 Metre.
1 Foot	=	12 Inches.
	=	0.333333 Yard.
	=	0.3048 Metre (m).
1 Yard	=	36 Inches.
	=	3 Feet.
	=	0.9144 Metre (m).
1 Metre	=	39.3701 Inches.
	=	3.28084 Feet.
	=	1.09361 Yards.
	=	0.001 Kilometre (km).
1 Kilometre	=	1000 Metre (m).
	=	0.621371 Mile.
1 Mile	=	1760 Yards.
	=	1.60934 Kilometres (km).
1 International Nautical Mile	=	6076.12 Feet.
	=	1.852 Kilometres (km).
	=	1.5152 Statute mile

AREA

1 Square Inch	=	645.16 Square Millimetres (mm2).
1 Square Foot	=	0.0929030 Square Metre (m2).
1 Square Yard	=	9 Square Feet.
	=	0.836127 Square Metre (m2).
1 Square Metre	=	10,7639 Square Feet.
	=	1.19599 Square Yards.
1 Acre	=	4840 Square Yards.
	=	4046.86 Square Metres (m2).
	=	0.404686 Hectares.
1 Hectare	=	10,000 Square Metres (m2).
	=	2.47105 Acres.
	=	0.01 Square Kilometre (km2).
1 Square Kilometre	=	100 Hectares.
	=	0.386102 Square Mile.
1 Square Mile	=	640 Acres.
	=	258.999 Hectares
	=	2.58999 Square Kilometres (km2).

MASS		WEIGHTS
1 Ounce	=	28.3495 Grams (g).
1 Pound	=	0.453592 Kilogram (kg.)
	=	0.00892857 Hundred Weight.
1 Kilogram	=	2.20462 Pounds.
	=	0.01 Quintal.
1 Hundred Weight (cwt)	=	112 Pounds.
	=	50.8023 Kilograms (kg.).
1 American (Short) Ton	=	2000 Pounds.
	=	0.97185 Tonnes.
	=	0.892857 Long Ton.
1 Tonne (Metric Ton)	=	2204.62 Pounds.
	=	1000 Kilograms (kg.).
	=	1.10231 Short Tons.
	=	0.984207 Long Ton.
1 Imperial (Long) Ton	=	2240 Pounds.
	=	1.12 Short Tons.
	=	1.01605 Tonnes.

ENERGY AND POWER

1 International Table (IT) Calorie	=	4.1868 Joules (J).
115 C calorie	=	4.1855 Joules (J).
1 Thermochemical Calorie	=	4.184 Joules (J).
1 Kilo Calorie (IT)	=	1000 Calories.
	=	3.96832 British Thermal Units.
	=	1.163 Watt Hours.
	=	1 Thermie.
1 Kilowatt Hour	=	3412.14 British Thermal Units
	=	859.845 Kilocalories.
	=	3.6 Megajoules (MJ).
	=	1.34102 Horse Power Hours.
1 Therm	=	100,000 British Thermal Units. (BTU).
	=	105.506 Megajoules (MJ).
	=	29.3071 Kilowatt Hours.
	=	25.1996 Thermies.
	=	25200 Kilocalories.
1 Metric Horsepower	=	735.499 Watts (W).
(Pferdestaerke or	=	542.476 Foot Pounds Force/Second.
Cheval Vapeur)	=	0.986320 Imperial Horse Power.
1 Imperial Horsepower	=	745.700 Watts (W).
	=	550Foot Pounds Force/Second.
	=	1.01387 Metric Horse Power.
1 Kilowatt	=	737.562 Foot Pounds Force/Second.
	=	1.35962 Metric Horsepower.
	=	1.34102 Imperia Horsepower.
	=	1000 Watts.
1 BTU	=	0.252 Kilocalories.
	=	1.055 Kilojoules.

CUBIC MEASURES

VOLUME

1 Cubic Inch	=	16.3871 Cubic Centimetres (cm3)
1 Pint	=	0.568261 Cubic Decimetres (dm3) or Litres.
1 Litre	=	61.024 Cubic Inches.
	=	1.75975 Pints.
	=	1 Cubic Decimetre (dm3)
	=	0.264172 American Gallons.
	=	0.219963 Imperial Gallons.
	=	0.0353147 Cubic Foot.
1 Hectolitre	=	100 Cubic Decimetres (dm3) or
	=	100 Litres.
1 American Gallon	=	231 Cubic Inches.
	=	3.78541 Cubic Decimetres or Litres.
	=	0.832674 Imperial Gallon.
	=	0.133681 Cubic Foot.
	=	0.0238095 American Barrel.
	=	0.00378541 Cubin Metre (m3).
1 Imperial Gallon	=	277.420 Cubic Inches.
	=	4.54609 Cubic Decimetres (dm3) or Litres.
	=	1.20095 American Gallon.
	=	0.160544 Cubic Foot.
	=	0.02894 American Barrel.
	=	0.00454609 Cubic Metre (m3).
1 Cubic Foot	=	28.3168 Cubic Decimetres (dm3) or Litres.
	=	7.48052 American Gallons.
	=	6.22883 Imperial Gallons.
	=	0.17811 American Barrel.
	=	0.0283168 Cubic Metre (m3).
1 American Barrel	=	9702 Cubic Inches.
	=	158.987 Cubic Decimetres (dm3) or Litres.
	=	42 American Gallons.
	=	34.9726 Imperial Gallons.
	=	5.6146 Cubic Feet.
	=	0.158987 Cubic Metre (m3).
1 Cubic Metre	=	1000 Litres.
	=	264.172 American Gallons.
	=	219.969 Imperial Gallons.
	=	35.3147 Cubic Feet.
	=	6.28981 American Barrels.
1 Kilolitre	=	1000 Cubic Decimetres (dm3) or Litres.
	=	6.28981 American Barrels.
1 Gross Ton (Shipping)	=	2.83168 Cubic Metres or 100 cubic. Feet or Permanently Enclosed Space.
1 Ton of Liquified	=	Approx. 16 Barrels.
Methane	=	Approx. 1400 Cubic Metres of Natural Gas Depending Upon Methane Content.

PRODUCT CONVERSION FACTOR

(Conversion Factor From Volume To Tonnes At Natural Temp.)

PRODUCTS	Litres to Metric Tonnes	Tonnes per K.L.	American Barrels to Metric Tonnes
1	2	3	4
Aviation Spirit 100/130	1421	0.7034	8.94
Aviation Spirit 144/145	1449	0.6901	9.11
Aviation Spirit 73 ON	1432	0.6983	9.01
Motor Spirit 79 ON	1427	0.7008	8.98
Motor Spirit 80 ON	1427	0.7008	8.98
Motor Spirit 93 ON	1386	0.7215	8.72
Motor Spirt 95 ON	1359	0.7358	8.55
Motor Spirit 83 ON/87 ON	1411	0.7087	8.88
JP-4	1384	0.7225	8.71
JP-5	1273	0.7855	8.01
Aviation Turbine	1288	0.7764	8.10
Naphtha	1467	0.6817	9.23
Power Alcohol	1286	0.7776	8.09
Benzol	1154	0.8666	7.26
SBP Spirit/Hexane	1457	0.6863	9.16
Mineral Turpentine (Laws 140/205)	1302	0.7680	8.19
Liquified Petroleum Gas	1785	0.5602	11.23
Superior Kerosene	1285	0.7782	8.08
Inferior Kerosene	1265	0.7905	7.96
Power Kerosene (Vap. Oil)	1251	0.7994	7.87
High Speed Diesel	1210	0.8263	7.61
Light Diesel Oil	1172	0.8532	7.37
Malarial Oil	1172	0.8532	7.37
Special Larvicides	1175	0.8511	7.39
Furnace Oil	1071	0.9337	6.74
Tea Drier Oil	1071	0.9337	6.74
Hot Heavy Stock/LSHS	1017	0.9833	6.40
Refinery Gas/Ref. Boiler Fuel	1071	0.9337	6.74
Lubricants/Greases	1114	0.8977	7.01
Jute Batching Oil/Wash Oils	1167	0.8569	7.34
Bitumen	1002	0.9980	6.30
SBP/Alcohol Mixture	1414	0.7072	8.89
Methanol Mixture	1106	0.9042	6.96
Carbon Black Feed Stock	1134	0.8818	7.13
Carburetter TEsting Fluid	1388	0.7205	8.73
Benzene	1131	0.8812	7.05
Toluene	1148	0.8711	7.19
Demineralised Water	1002	0.9930	6.30
S. Glass Kleanzit	1003	0.9970	6.31
Miscellaneous	1114	0.8977	7.01
Wax/P. Coke/Chemicals	1114	0.8977	7.01
Aromex	1221	0.8190	7.68
Linear Alkyl Benzen Feed Stock	1205	0.8239	7.88

VOLUME PER METRIC TON OF PETROLEUM PRODUCTS

PRODUCTS	Kilolitre	Imperial Gallon	U.S. Gallon	Barrel
1	2	3	4	5
Liquified Pet. Gas.	1.8519	407.365	489.213	11.648
Aviation Spirit	1.3699	301.332	361.873	8.613
Natural Gasoline	1.3514	297.265	356.990	8.496
Motor Spirit	1.3514	297.265	356.990	8.496
Kerosene	1.2346	271.569	326.137	7.764
Jet Fuel	1.2346	271.569	326.137	7.764
Distillate Fuel Oil	1.1494	252.415	293.522	6.988
Lubricating Oil	1.1111	252.845	303.647	7.231
Fuel Oil N.O.S.	1.0939	241.727	290.301	6.911
Residuel Fuel Oils	1.0526	231.551	278.071	6.623
Asphalt and Bitumen	0.9615	211.515	254.013	6.050
Crude Oil	1.1856	260.910	313.340	7.441

CONVERSION FACTORS FOR DUTY REDUCTION FROM 15°c TO 29.5°c

	Product	Conversion Factor
1.	Aviation Spirit 100/130	0.9827
2.	Aviation Spirit 114/145	0.9820
3.	Aviation Spirit 73 Clear	0.9824
4.	Aviation Turbine Fuel	0.9862
5.	Motor Spirit 83	0.9830
6.	Motor Spirit 93	0.9836
7.	H.S.D.O.	09879
8.	Kerosene	0.9864
9.	Light Diesel Oil	0.9877
10.	Furnace Oil	0.9899
11.	Special Boiling Point Spirit 55/115	0.9820
12.	Special Boiling Point Spirit 64/69	0.9806
13.	Solvent 1425	0.9820
14.	Hexane	0.9806

PETROLEUM SPECIFIC GRAVITIES.

Degrees A.P.I.	Specific Gravity	Barrels per tonne*	Long Ton*
25	0.9042	6.98	7.09
26	0.8984	7.02	7.13
27	0.8927	7.06	7.18
28	0.8871	7.10	7.22
29	0.8816	7.15	7.27
30	0.8762	7.19	7.31
31	0.8708	7.24	7.36
32	0.8654	7.28	7.40
33	0.8602	7.33	7.45
34	0.8550	7.37	7.49
35	0.8499	7.42	7.54
36	0.8448	7.46	7.58
37	0.8398	7.51	7.63
38	0.8348	7.55	7.67
39	0.8299	7.60	7.72
40	0.8251	7.64	7.76
41	0.8203	7.69	7.81
42	0.8156	7.73	7.85

* Approximate figure at 15.6 degrees C or 60 degree F.

PRODUCT SPECIFIC GRAVITY RANGES

PRODUCTS	Specific Gravity	Barrels per tonne
Crude Oils	0.80-0.97	8.0-6.6
Aviation gasolines	0.70-0.78	9.1-8.2
Motor gasolines	0.71-0.79	9.0-8.1
Kerosene	0.78-0.84	8.2-7.6
Gas Oils	0.82-0.90	7.8-7.1
Diesel Oils	0.82-0.92	7.8-6.9
Lubricating Oils	0.85-0.95	7.5-6.7
Fuel Oils	0.92-0.99	6.9-6.5
Asphaltic bitumens	1.00-1.10	6.4-5.8

CRUDE OIL CONVERSIONS@

To convert these into these	Metric Tons	Barrels	Kilo litres	1,000 Imp. Gallon	1,000 U.S.Gallon
Metric Tons	1	7.33	1.16	0.256	0.308
Barrels	0.136	1	0.159	0.035	0.042
Kilolitres	0.863	6.29	1	0.220	0.264
1,000 Imp. Gallons	3.91	28.6	4.55	1	1.201
1,000 U.S.Gallons	3.25	23.8	3.79	0.833	1

@ = Based on World Average gravity (Excluding Natural Gas liquids)

TO CONVERT ONE METRIC TONNE OF PETROLEUM PRODUCTS TO ONE TONNE OF OIL EQUIVALENT MULTIPLY BY

PRODUCTS	MULTIPLIER
L.P.G.	1.130
Naphtha	1.075
Aviation gasoline	1.070
Motor gasoline	1.070
Jet Fuel	1.065
Kerosene	1.045
Gas/diesel	1.035
Residuel Fuel Oils	0.985
Others	0.960

AVERAGE INTERNATIONAL CALORIFIC VALUE OF DIFFERENT FUELS

		K Cals/Kg. M cals/Tonne	BTUS/Kg.
	1	2	3
A.	**Oil Equivalence:**		
	Average Crude Oil/NGLS (a)	10,300	40,870
	United Nations	10,175	40,375
B.	**Oils Products**		
	NGL	12,135	48,150
	Motor Gasoline	11,135	44,190
	Kerosene	10,638	42,210
	Jet Fuel	11,790	46,790
	Gas Oil	10,790	42,820
	Fuel Oil	10,440	41,430
C.	**Coal Equvalence:**		
	Average Hard Coal (b)	7,000	27,775
D.	**INDIA:**		
	Hard Coal	5,000	19,840
	Lignite-Brown Coal	2,310	9,16
	Firewood @	4,750	18,848
	Charcoal @	6,900	27,379
			K cals/Cu. Metre
E.	**Natural Gas-Production: (Average) India**		**8,000-9,480**
F.	**Electricity:**		
	Output Basis(c)		860
	Fuel Input basis(d)		2,500-2,700

a) Represent average global factor for crude oil/NGL production. For a specific curde oil relevant conversion factor may have to be used.
(b) Facator used by United Nations to represent average calorific value of hard coals for purposes of standardising coal production to hard coal equivalent base.
(c) Calorific value of 1 kwh of electricity.
(d) Represents K cals of hydro-carbon energies required to produce 1 kwh of electricity.
@ = as per Report of Fuel Policy Commitee 1974.
Conversion Factor : 1K cal = 4.19 K Joules.

COEFFICIENTS USED TO CONVERT FROM ORIGINAL UNITS INTO STANDARD COAL EQUIVALENTS.

Products		Hard Coal	Lignite Brown Coal	Fuel wood
1		2	3	4
A.	**PRIMARY SOLIDS**			
1.	Standard Foactor	1.000	0.385	0.333
2.	India	0.714	0.330	
B.	**OTHERS**		**Hydrocarbons**	
1.	Petroleum Crude		1.454	
2.	Natural Gas Liquids (wf.av.)		1.542	
3.	Gasolines		1.500	
4.	Kerosene & Jet Fuel		1.474	
5.	Gas-Diesel Oil		1.450	
6.	Residuel Fuel Oil		1.416	
7.	Liquified Petroleum Gases		1.554	
8.	Natural Gasoline		1.532	
9.	Condensate		1.512	
10.	Other Natural Gas Liquids		1.512	
11.	Natural Gas (in Terajouls)*		34.121	
12.	Other Gases (" " ")*		34.121	
13.	Hydro, Nuclear and Geothermal Electricity (in 1,000 kwh)		0.123	

* = The average calorific value of gas is measured in K cal/m3 (st.) i.e. in K cal per cubic metre of gas under standard conditions of 15°c, 013.25 mbar, dry.

COAL REPLACEMENT AND EQUIVALENTS OF DIFFERENT FUELS

Fuels	Original Unit	Unit million tonnes of coal equivalent (mtce)	Unit million tonnes of coal replacement (mtcr)
1	2	3	4
Coal (coking 6640 K cal/kg., Non-coking coal Used in steam generation (5000 K cal/Kg.)	1 mt	1.0	1.0
Hard Coke	1 mt	1.3	1.3
Soft Coke	1 mt	1.5	1.3
Firewood (4750 K cal/Kg.)	1 mt	0.95	0.95
Char Coal (6900 K cal/Kg.)	1 mt	1.0	1.0
2. OIL PRODUCTS : 10,000 K cal/Kg.			
Black Products (i.e. Fuel Oil; F.O.; Refinery Fuel, LSHS, HHS).	1 mt	2.0	2.0
Kerosene & LPG	1 mt	2.0	8.0
HSDO & LDO	1 mt	2.0	9.0
Motor Spirit & Jet Fuel	1 mt	2.0	7.5
Natural Gas (9000 K cal/Kg.)	109xm3	1.8	3.6
Electricity	109 kwh	1.0	1.0

m	=	Million
mt	=	Million Tonnes
Source	=	Fuel Policy Commitee 1974
mtce	=	Million Tonnes of Coal Equivalent
mtcr	=	Million Tonnes of Coal Replacement

APPROXIMATE CALORIFIC EQUIVALENTS
(Oil = 10,000 K Cal/Kg.)

	Items		Million Tonnes of Oil equals
1.	Heat Units	=	40 million BTU
		=	397 million therms
		=	10,000 teracalories
2.	Solid Fuels	=	1.5 million tonnes of Coal
		=	3.0 million tonnes of lignite
3.	Natural Gas (1 cub. ft. = 1000 BTU)	=	(1 Cub metre=9000 K cal).
		=	1.111 thousand million cub metres
		=	39.2 thousand million cub. feet
		=	107 million cubic feet/day of a year
4.	Electricity (1 Kwh = 3412 BTU) (1 Kwh = 860 K cal)	=	12 thousand million KWH

Heat Units and others Expressed in Terms of million Tonnes of Oil

	Itmes	Million tonnes of oil equals
1.	**Heat Units**	
	10 million million BTU	0.25
	100 million therms	0.25
	10.000 teracalories	1.00
2.	**Solid Fuels**	
	1 million tonnes of coal	0.67
	1 million tonnes of lignite approximates to	0.33
3.	**Natural Gas**	
	1 thousand million cub. metres (BCM)	0.90
4.	**Town Gas**	
	1 thousand million cub. metres (BCM)	0.42
5.	**Electricity**	
	12 thousand million KWH	0.86

One million tonnes of oil produces about 4000 million units (KWH) of electricity in a modern power station.
Source : BP Statistical Review of World Energy.

EXCHANGE RATE : 1946/1991-92 1993-94

(Rs. per U.S. Dollar)

year	Calendar Year					Financial Year	
	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Average for the year	Year	average for the year
1	2	3	4	5	6	7	8
1946	n.a.	n.a.	n.a.	3.30852	3.30852	1946-47	n.a.
1947	3.30852	3.30852	3.30852	3.30852	3.30852	1947-48	3.30852
1948	3.30852	3.30852	3.30852	3.30852	3.30852	1948-49	3.30852
1949	3.30852	3.30852	4.76190	3.71792	3.71792	1949-50	4.08127
1950	4.76190	4.76190	4.76190	4.76190	4.76190	1950-51	4.76190
1951	4.76190	4.76190	4.76190	4.76190	4.76190	1951-52	4.76190
1952	4.76190	4.76190	4.76190	4.76190	4.76190	1952-53	4.76190
1953	4.76190	4.76190	4.76190	4.76190	4.76190	1953-54	4.76190
1954	4.76190	4.76190	4.76190	4.76190	4.76190	1954-55	4.76190
1955	4.76190	4.76190	4.76190	4.76190	4.76190	1955-56	4.76190
1956	4.76190	4.76190	4.76190	4.76190	4.76190	1956-57	4.76190
1957	4.76190	4.76190	4.76190	4.76190	4.76190	1957-58	4.76190
1958	4.76190	4.76190	4.76190	4.76190	4.76190	1958-59	4.76190
1959	4.76190	4.76190	4.76190	4.76190	4.76190	1959-60	4.76190
1960	4.76190	4.76190	4.76190	4.76190	4.76190	1960-61	4.76190
1961	4.76190	4.76190	4.76190	4.76190	4.76190	1961-62	4.76190
1962	4.76190	4.76190	4.76190	4.76190	4.76190	1962-63	4.76190
1963	4.76190	4.76190	4.76190	4.76190	4.76190	1963-64	4.76190
1964	4.76190	4.76190	4.76190	4.76190	4.76190	1964-65	4.76190
1965	4.76190	4.76190	4.76190	4.76190	4.76190	1965-66	4.76190
1966	4.76190	5.51413	7.50000	7.50000	6.31901	1966-67	7.00353
1967	7.50000	7.50000	7.50000	7.50000	7.50000	1967-68	7.50000
1968	7.50000	7.50000	7.50000	7.50000	7.50000	1968-69	7.50000
1969	7.50000	7.50000	7.50000	7.50000	7.50000	1969-70	7.50000
1970	7.50000	7.50000	7.50000	7.50000	7.50000	1970-71	7.50000

EXCHANGE RATES : 1946/1993-94

(Rs. per U.S. Dollar)

year	Calendar Year					Financial Year	
	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Average for the year	Year	average for the year
1	2	3	4	5	6	7	8
1971	7.500	7.500	7.500	7.500	7.500	1971-72	7.44950
1972	7.298	7.297	7.759	8.023	7.594	1972-73	7.73025
1973	7.842	7.499	7.651	7.976	7.742	1973-74	7.86275
1974	8.325	7.912	8.073	8.096	8.102	1974-75	7.97550
1975	7.821	8.053	8.716	8.913	8.376	1975-76	8.65325
1976	8.931	9.063	8.967	8.881	8.960	1976-77	8.93850
1977	8.843	8.814	8.733	8.565	8.739	1977-78	8.56250
1978	8.138	8.465	8.051	8.118	8.193	1978-79	8.20625
1979	8.191	8.176	7.998	8.138	8.126	1979-80	8.07625
1980	7.993	7.921	7.747	7.791	7.863	1980-81	7.89278
1981	8.112	8.410	8.984	9.128	8.659	1981-82	7.92925
1982	9.195	9.354	9.570	9.702	9.455	1982-83	9.62850
1983	9.888	10.008	10.148	10.352	10.099	1983-84	10.31225
1984	10.741	10.972	11.579	12.158	11.363	1984-85	11.88675
1985	12.838	12.498	12.048	12.091	12.369	1985-86	12.23725
1986	12.312	12.500	12.592	13.039	12.611	1986-87	12.78650
1987	13.015	12.781	13.049	13.000	12.962	1987-88	12.96825
1988	13.043	13.429	14.276	14.920	13.917	1988-89	14.47650
1989	15.281	16.105	16.605	16.911	16.226	1989-90	16.66250
1990	17.029	17.344	17.554	18.087	17.504	1990-91	17.94850
1991	18.809	20.526	25.757	25.878	22.742	1991-92	24.51125
1992	25.914	25.890	25.890	25.979	25.918	1992-93	27.55250
1993	27.887	31.345	31.371	31.370	30.493	1993-94	31.36425
1994	31.371	31.370	31.371	31.388	31.375		

Notes: (1) A new value of the Indian Re. of 7.50 per U.S. Dollar was agreed upon with the Fund effective June 6, 1966. Previously the year value was 4.7619 rupees per U.S. Dollar from September 22,1949 to June 5, 1966 and 3.30852 rupees per U.S. Dollar from December 18, 1946 to September 21, 1949.

(2) Exchange rate for the years 1970 and 1971 are based on 'Trade conversion Factors .

(3) Exchange rate for the year 1972 onwards are based on Par rates/market rates.

e = estimated

Source : International Financial Statistics.