

INDIAN PETROLEUM & NATURAL GAS STATISTICS

1991-1992

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

PREFACE

The present publication is the twenty-sixth of the annual series brought out by the Economics & Statistics Division which gives detailed petroleum and natural gas statistics. This publication, in line with our previous annual publications, provides petroleum and natural gas statistics both on financial as well as calendar year basis, the former to meet the requirements of national planning and administration and the latter to meet various obligations to U.N. and other international bodies and for purposes of maintaining historical continuity.

2. While we have taken all possible care to ensure accuracy in presentation of data in various tables, we would welcome suggestions from users for rectification of any error or omission noticed by them.

3. We express our sincere thanks to Oil Industry Development Board for meeting the cost of printing of this publication.

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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 relevant data on international developments in respect of the said industries has also been presented in the publication.

2. **Coverage:** The statistics presented in the publication covers the exploration, production, refining, marketing, etc. activities 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 on voluntary basis under the directives issued by the Ministry to the said companies from time to time.

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

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 companies 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 include 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.

SELECTED ECONOMIC INDICATORS OF THE INDIAN ECONOMY.

Indicator	Unit/ Base	1980-81	1984-85	1985-86	1986-87	1987-88	1988 89	1989-90	1991-91	1991 92*
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11
1. Geographical Area	**M.Sq.km.**	**3.29**	**3.29**	**3.29**	**3.29**	**3.29**	**3.29**	**3.29**	**3.29**	**3.29**
2. Population	**Million**	690	751	766	781	797	812	827	844	850
3. Gross National Product at factor cost										
i) At current prices	Rs. Crores	122772	207109	232370	258225	292146	347573	397396	468426	N.A.
ii) At 1980-81 prices	"	122772	149256	155365	161535	168004	185616	196874	208380	N.A.
4. Net National Product at factor cost:										
i) At current prices	Rs. Crores	110685	185018	206133	228402	258805	308662	351850	416349	N.A.
ii) At 1980-81 prices	"	110685	133808	139025	144242	149670	166148	176159	186429	N.A.
5. Per capita Net National Product:										
i) At current prices	Rupees	1630	2507	2734	2962	3289	3844	4291	4974	N.A.
ii) At 1980-81 prices	"	1630	1813	1844	1871	1902	2069	2148	2227	N.A.
6. oreign Exchange Reserves:										
i) Gold +	Rs.Crores	225.6	245.8	274.3	274.3	274.3	274.3	280.7	6828.3	9038.8
ii) SDR	Mn.of SDRS	490.5	146.5	115.1	139.4	69.7	79.5	81.9	75.9	65.7
iii) Foreign Exchange **	Rs. Cr.	4822.1	6816.8	7384.4	7645.2	7287.1	6604.6	5787.2	4388.1	14578.0
7. oreign Trade:										
i) Import	Rs.Crores	12544	18680	21164	22669	22244	28235	35412	43193	47797
ii) Export	"	6576	11959	11578	13315	15674	20231	27681	32553	43828
iii) Balance of Trade	"	-5968	-6721	-9586	-9354	-6570	-8004	-7731	-10640	-3969
8. Index of Production:										
i) Agricultural	@	135.3	154.6	158.4	152.5	151.3	183.2*	187.0	191.8	NA
ii) Industrial	1980-81=100	100.0	130.7	142.1	155.1	166.4	180.9	196.4	213.1	NA
9. Wholesale Price Index:	1981-82=100	-	120.1	125.4	132.7	143.6	154.3	165.7	182.7	207.8
10. Consumer Price Index:										
i) Industrial Workers	1960=100	401	582	620	674	736	803	853	951	1057
ii) Agricultural Labourers	1960-61=100	395	537	546	572	629	708	746	803	900
iii) Urban Non-manual Workers	1960=100	369	532	568	613	668	724	771	857	941
11. Employment:										
i) Organised Sector:										
a) Public Sector	Million	15.48	17.27	17.68	18.03	18.32	18.52*	N.A.	N.A.	N.A.
b) Private Sector	"	7.40	7.31	7.37	7.36	7.39	7.47*	N.A.	N.A.	N.A.
TOTAL:	"	22.88	24.58	25.05	25.39	25.71	25.99*	N.A.	N.A.	N.A.
ii) No. of persons on life register of employment exchange @@	Million	16.20	23.92	27.03	30.48	29.57	30.30	33.25	34.89	36.55
12. Energy Generation(Gross)										
Coal	Mn. Tonnes	113.91	147.41	154.20	165.77	179.72	194.60	200.89	211.73	229.26
Lignite	"	5.11	7.80	8.05	9.43	11.16	12.40	12.80	13.77	14.68
Natural Gas	(Mn.Cub.Metre)	2358	7241	8134	9853	11467	13217	16983	17998	18645
Crude Oil	Mn.Tonnes	10.5	29.0	30.2	30.5	30.4	32.0	34.08	33.02	30.35
Petroleum Products	"	25.35	35.27	42.37	45.37	47.25	48.49	51.37	51.28	50.98
13. Electricity:										
i) Utilities:										
Hydel	B.Kwh.	46.5	53.9	51.0	53.8	47.5	57.9	62.1	71.7	72.5
Thermal	"	61.3	98.8	114.4	128.9	149.6	157.7	178.7	186.8	208.6
Nuclear	"	3.0	4.1	5.0	5.0	5.0	5.8	4.6	6.1	5.6
TOTAL	"	110.8	156.9	170.4	187.7	202.1	221.4	245.4	264.6	286.7
ii) Non-Utilities:	"	8.4	12.3	13.0	13.6	16.9	19.9	23.0	24.1	27.2
GRAND TOTAL:	"	119.3	169.2	183.4	201.3	219.0	241.3	268.4	288.7	313.9

SOURCE: (1) RGI's Ist March estimates. (2) Economic Survey 1991-92 (3) Foreign Trade Statistics of India (1987-88 to 91-92) (4) Selected Economic Indicators, Ministry of Industry.

N.A. = Not Available.

@ : Triennium ending 1969-70= 100

@@ : As at end of March. * = Provisional

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

** Include Foreign assets of the Reserve Bank of India and Govt. balances held abroad upto 1955-56.

SELECTED ECONOMIC INDICATORS OF THE INDIAN ECONOMY.

Indicator	Unit/ Base	1980-81	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92(P)
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
1. Reserves@ (Balance recoverable)									
i) Crude Oil	Mn.Tonnes	366	500	558	581	638	726	739	806
ii) Natural Gas	Bn.Cub Mtrs.	352	479	497	541	579	648	686	730
2. Consumption:									
i) Crude Oil (in terms of refinery crude throughput)	Mn.Tonnes	25.84	42.91	45.7	47.75	48.8	51.94	51.77	51.42
ii) Petroleum Products (excl.RBF)	"	30.90	40.87	43.66	46.42	50.09	54.10	55.04	56.81
3. Production:									
i) Crude Oil	"	10.51	30.17	30.48	30.36	32.04	34.09	33.02	30.35
ii) POL Products	"	24.12	39.88	42.76	44.73	45.70	48.69	48.56	48.35
4. Imports & Exports:									
(a) Gross Imports	Mn.Tonnes								
i) Qty. : Crude Oil	"	16.25	15.15	15.48	17.73	17.81	19.49	20.70	23.99
POL Products	"	7.29	3.86	3.04	4.15	6.50	6.56	8.66	9.45
TOTAL - (i)	"	**23.54**	**19.01**	**18.52**	**21.88**	**24.31**	**26.05**	**29.36**	**33.44**
ii) Value: Crude Oil	Rs./Crores	3349	3687	2120	2986	2861	4089	6118	7820
POL Products	"	1917	1274	653	1024	1560	2255	4660	5218
TOTAL- (ii)	"	**5266**	**4961**	**2773**	**4010**	**4421**	**6344**	**10778**	**13038**
(b) Exports:									
i) Qty.:Crude Oil	Mn.Tonnes	--	0.53	--	--	--	--	--	--
POL Products	"	0.04	1.96	2.49	3.41	2.30	2.59	2.65	2.94
TOTAL-(i)	"	**0.04**	**2.49**	**2.49**	**3.41**	**2.30**	**2.59**	**2.65**	**2.94**
ii) Value :Crude Oil	Rs/Crores	--	135	--	--	--	--	--	--
POL Products	"	8	510	411	649	524	696	1004	1215
TOTAL-(ii)	"	**8**	**645**	**411**	**649**	**524**	**696**	**1004**	**1215**
(c) Net Imports:									
i) Qty.:Crude Oil	Mn.Tonnes	16.25	14.62	15.48	17.73	17.81	19.49	20.70	23.99
POL Products	"	7.25	1.90	0.55	0.74	4.20	3.97	6.01	6.51
TOTAL-(i)	"	**23.50**	**16.52**	**16.03**	**18.47**	**22.01**	**23.46**	**26.71**	**30.50**
ii)Value.:Crude Oil	Rs/Crores	3349	3552	2120	2986	2861	4089	6118	7820
POL Products	"	1909	764	242	375	1036	1559	3656	4004
TOTAL (ii)	"	**5258**	**4316**	**2362**	**3361**	**3897**	**5648**	**9774**	**11824**
(d) Unit Value of crude oil imports (Gross)	**Rs/MT**	2061	2435	1370	1684	1606	2098	2956	3260
5. India's total Exports	Rs/Crores	6711	10895	12452	15674	20231	27681	32553	43828
6. POL Imports as percentage of India's total exports									
i)Gross Imports	%	78.5	45.5	22.3	25.6	21.9	22.9	33.1	29.7
ii)Net Imports	%	78.3	39.6	19.0	21.4	19.3	20.4	30.0	27.0
7. Contribution of Oil Sector to Centre/State Resources									
i) Royalty from Crude Oil	Rs/Crores	41	379	1091	570	602	656	2028	869
ii) Royalty from Gas	"	3	22	46	78	101	120	138	214
iii) Oil Development Cess	"	60	866	989	1513	2014	2914	2782	2517
iv) Excise & Custom duties	"	1512	2886	3165	4419	4879	5311	6786	7323
v) Sales Tax	"	628	1564	1888	1871	2107	2824	3653	4727
vi) Generation of internal resources	"	359	2358	2792	2199	3126	4524	3021	2822
vii) Corporate Tax	"	76	740	792	797	763	764	646	748
8. Natural Gas:									
i) Gross Production	Mn.Cu.Metres	2358	8134	9853	11467	13217	16983	17998	18645
ii) Utilisation	"	1522	4950	7072	7968	9250	11167	12766	14430

N.A.=Not Available. (P)=Provisional. @=As on Ist January of First Year.

PART - I

PETROLEUM STATISTICS

PART - I

PETROLEUM STATISTICS

During 1991-92 the marketing activities of the petroleum industry have also been expanded. Hydraulic Brake Fluid and certain grades of industrial lube oils were introduced by IBP Ltd., Black Oil Depot with allied facilities was completed in Karnataka; LPG plants were commissioned at Calicut & Silchar; a 14" diameter Lube Oil pipeline was laid from Trombay Jetty to indian Oil Blending Ltd.; eight new grades of lubes wee developed and five grades of lube oil introduced by IOC against imported products; a 14 km long 6" dia heat traced insulated LSHS pipeline from Visakh terminal to Visakh Steel plant was commissioned; LSHS depot at Kota with tank wagon decanting and siding facilities was commissioned and storage depots were completed at Barauni (33,930 KL), Rajamundry (11,740 KL) by IOC and Irumpanam (72,000 KL), Miraj (17,085 KL) and Shankari (12,400 KL) by BPCL.

During the year 1991-92, the oil companies opened 86 new retail outlets, 22 new SKO/LDO dealerships and 108 new LPG dealerships. About 11.55 lakhs new LPG consumers were enrolled during the year. With this the number of domestic consumers increased to over 181.40 lakhs at the end of the year 1991-92.

II. CHRONOLOGY OF IMPORTANT EVENTS IN THE INDIAN PETROLEUM INDUSTRY DURING 1991-92.

A. EXPLORATION AND PRODUCTION

1. Oil India Limited, Duliajan. Assam

1991 In April, Oil flowed from an Eocene Sand Stone reservoir of well No. Kathaloni - 1, the first exploratory well drilled on the Kathaloni structure, heralding discovery of a new oil field. OIL received the prestigious National Safety Award for lowest injury frequency rate for Moran mines from the President of India.

In June, early production set up at Kathaloni Well No. 1 was commissioned. During the period April to June 1991 the development of NHK-463, Hapjan-12 and Hapjan-13 led to increase in oil and oil equivalent of gas-in-place by 1.7607 mm tonnes.

In July, 28 KM long Shalmari-Moran crude oil line was commissioned.

In August, heavy oil was discovered in multiple horizon in Bikaner-Nagaur Basin in Rajasthan and 4 KM long gas line from Shalmari to AGC gas offtake point was commissioned.

In September, the first underground gas storage facility was put into operation. During the period July to Sept. 1991 two new development wells NHK-467 and NHK-468 led to increase in oil and oil equivalent gas-in-place by 0.8120 mm tonnes.

In November, early production set up at Hatiali well No. NHK-286 was commissioned. During the period Oct. to Dec. 1991, production testing of NHK-286 well led to discovery of oil from Eocene Sand in Hatiali Structure of Dibrugarh district. This has resulted in additional oil in place by 2.16 mm tonnes. Drilling of NHK-466 Dhulijan structure has led to discovery of oil in number of Eocene/Palenocene sands. The deepest zone at 4486 metres now under testing is producing 30^{o} API crude.

1992 In January, presence of oil has been established in well No. NHK-466 in East Lankashi structure of Jorajan oil field.

In March, presence of oil has been established in lower Eocene sand in well NHK-321.

During the period January to March 1992 a new development well Hapjan-16 and establishment of hydrocarbons by workover in an existing well NHK-321 led to increase in oil and oil equivalent of gas-in-place by 1.3344 mm tonnes.

2. Oil & Natural Gas Commission, Dehradun, U.P.

1991 In April, EPS at Mori structure in K.G. Basin commenced oil production on 8.4.1991. Nine new structures (5 onshore and 4 offshore) taken up for drilling. Oil was struck at Kamalapuram structure in Cauvery Basin. New ONGC owned BHEL rig E-2000-7 in Dhansiri Valley Project (ERBC) commissioned.

In May, solar distillation plants have been successfully installed at Sobhasan CTF to conserve energy and promote development of non-conventional energy sources. EPS at Kamalapuram structure in Cauvery Basin commissioned. Oil production from this structure commenced from May, 1991. Five new structures (3 in Cauvery, 2 in Bombay offshore) taken up for drilling. Oil was struck at structure Kim-6 in Cauvery Basin and gas struck at structure Perumadam in Krishna-Godavari Basin.

In June, crude production commenced from the new structure South Mewad in Cambay Basin.

In July, ETP at Nawagam commissioned in Cambay Basin. Five new structures Vinnakota and Angalur in Krishna Godavari, Kadavasal in Cauvery, Pon-1 and Pon-2 in Cauvery offshore taken up for drilling. Gas was struck at Bandamuralanka structure in Krishna Godavari Basin.

In August, crude production commenced from new structure Motera in Cambay Basin. GGS-IV (EPS Pakhajan) at Gandhar and GGS-III at Balol in Mehsana Project were commissioned. The third well in Adiyakkamangalam structure in Cauvery Basin was put on production from 6.7.91. Two new structures - poduru in Krishna Godavari and Kavalakudi in Cauvery, taken up for drilling. Oil was struck at structure RBC-1 and B-192A in Bombay offshore.

In September, crude production commenced from new structure KIM in Cambay Basin. Three new structures, Mantripalem in Krishna Godavari, Rajamangalam and Kesanapalli in Cauvery taken up for drilling. Gas was struck at structure C-26 A.

In October, crude production commenced from the new structure Jambusar in Cambay Basin. Five new structures, one in onshore and four in offshore taken up for drilling. Oil was struck at Jambusar structure in Cambay Basin.

In November, Gas grid compressors in Lakwa in Assam commissioned. Seven new onshore structures, 3 in Krishna Godavari, 4 in Cauvery and 3 new offshore structures, two in Bombay offshore and one in Kutch offshore taken up for drilling.

In December, EPS-II at Becharaji structure in Mehsana project in Cambay Basin commissioned. LPG compressors at Ankleshwar GGS-II commissioned resulting in

reduction in gas flaring of gas by 30,000 SCMD. Three new structures Veddaterru in Cauvery, Hak-1 in Dhansiri Valley (ER) and Shahjahanpur in Uttar Pradesh taken up for drilling. Five new ONGC owned rigs, BHEL rigs E-760-17 in Ahmedabad project, E-760-18 in Ankleshwar project (all in WRBC), BHEL rigs E-1400-21 in Galeki and TBA in Dhansiri valley project (both in ERBC) were commissioned.

1992 In January, Sulpur Recovery unit & Gas Sweetening Plant PH-II at Hazira commissioned. Four new structures two in Cauvery, one in Karimpur, West Bengal and KB-1 in K G offshore taken up for drilling. Oil was struck at structure Kesanapalli in Krishna Godavari Basin.

In February, three new structures Khubal in Tripura, KB-4 in KG offshore and B-59 in Bombay offshore taken up for drilling. Oil was struck at structure Kesanapalli in Krishna Godavari Basin and gas was struck at structure Medapadu in Krishna Godavari Basin.

In March, GGS-3 in Gandhar in Cambay Basin commissioned. In Bombay offshore, N 8-NQD and N 1-BHN lines commissioned. This would help in augmenting additional production from N8 & N1 platform. Two new structures one in D-30 in Bombay offshore and one in Quilon-1 in Kerala Konkan offshore taken up for drilling.

3. ONGC Videsh Limited (ONGC Overseas), New Delhi.

1991 In April, blow-out occured at second exploratory well (No. 06-D-1X) in Vietnam and drilling comes to an end.

1992 In February, Govt. of India approves assignment of 45% of ONGC-VL's interest in the blocks in Vietnam to the alliance comprising BP Exploration, UK and Statoil, Norway. MOU was signed between ONGC-VL, BP Exploration and Statoil regarding assignment of ONGC-VL's interest in Vietnam.

4. Gas Authority Of India Limited.

1991 In July, the 2 kms 18" dia pipeline for supply of gas to GSFC, Baroda was commissioned in record time of 6 weeks.

In October, phase II of LPG recovery project, Vijaipur was mechanically completed as per the approved schedule. This phase has the capacity of 23,000 tonnes per annum of production of LPG.

1992 In February, phase II of the LPG recovery plant at Vijaipur was commissioned successfully on 11.2.1992. With this, GAIL has commissioned India's largest LPG recovery project having a capacity of 4,06,000 tonnes of LPG per annum.

B. REFINING

1. Bharat Petroleum Corporation Ltd., Bombay

1991 In August, Badin crude (Pakistan origin) was processed at BPCL refinery for the first time.

In September, special cut Naphtha unit at BPCL refinery was commissioned.

In October, Aromatics (Benzene & Toluene) production of 9,600 tonnes was highest so far for any month.

In December, MS Production of 62,500 tonnes was the highest ever so far for a month.

1992 In January, Memorandum of Understanding (MOU) for 1991-92 was signed between BPCL and Ministry of Petroleum & Natural Gas.

2. Bongaigaon Refinery & Petrochemicals Limited, Assam.

1991 The proposal for expanding the refining capacity by 1.0 MTPA from existing 1.35 MTPA was approved by the Govt. on 30.12.1991. The expansion also covers recovery of LPG from the incremental crude throughput and debottlenecking of the Reformer Unit in the Xylene plant. This is estimated to cost Rs. 223 crores. The project is scheduled for completion in 36 months from 1.1.1992.

3. Cochin Refineries Limited. Cochin

1991 The capacity utilisation during the year was 107.6% and for the fourth consecutive year, the refinery could achieve a capacity utilisation of over 100%.

The Aromatics production in 1991-92 was 81,574 MT which is highest since the commissioning of the Aromatics Recovery Unit. The previous highest was 76,820 MT in 1990-91.

In May, CRL was selected for the prestigious International "Award of Honour" by the National Safety Council, Chicago.

For the second year in succession, Kerala State Pollution Control Board has adjudged CRL as the best large scale industry in the category of heavy organic in Kerala in 1990-91 for the pollution control measures adopted by CRL.

In July, filling of 1,014 LPG trucks during the month is also a record, the previous record filling being 957 trucks in December, 1990.

In August, the refinery completed 754 days (4.70 million manhours) of continuous operation without a disabling injury. This surpasses the previous record of 745 days achieved in December, 1981.

In October, cheque for Rs. 8.85 crores, being 21% dividend for the financial year 1990-91, was presented to Shri B.Shankranand, Hon'ble Minister for Petroleum & Natural Gas. Similarly, dividend cheque for Rs. 73.50 lakhs was presented to Shri K.Karunakaran, Hon'ble Chief Minister of Kerala.

In November, the Company signed a Memorendum of Understanding with the Ministry of Petroleum & Natural Gas, Government of India specifying performance targets for the year 1991-92. CRL has been selected for receipt of the "Sword of Honour" award from the British Safety Council for the second consecutive year for safety awareness and attitude to safety management.

1992 In March, the refinery processed 4,66,106 tonnes of crude which is the highest ever processed in any month, the previous best being 4,61,159 tonnes. The Advanced Control Process Optimisation Technology (ACPOT) software was installed and all the six ACPOT controllers were commissioned by 15.3.1992.

4. Hindustan Petroleum Corporation Ltd. Bombay and Visakh

1991 In April, Government of India accorded approval for setting up 3 million tonnes per annum refinery at Mangalore under Joint Sector with Indian Rayon Industries Ltd. This project is expected to be completed by 1996 at a cost of Rs. 2,090 crores.

In September, Visakh refinery commissioned the Captive Power Plant. This has minimised the plant shutdowns due to frequent power failures. Bombay refinery started the supply of low lead HAN to BPCL refinery for their Aromatic Plant for first time.

In November, MOU was signed for the first time between HPCL and Ministry of Petroleum & Natural Gas.

In December, Propane Dewaxing Unit at Bombay refinery was recommissioned and production of lubes commenced after the severe fire in June 1991. Bombay refinery received the first prize in the petroleum refining sector in recognition of its excellent performance in the field of Energy Conservation in 1991 from the Ministry of Energy, Government of India.

1992 In January, Visakh refinery achieved the highest ever annual Bitumen production of 52,400 tonnes after the commissioning of VREP.

During 1991-92, Visakh refinery achieved the lowest ever energy consumption of 183 MBTU/BBL/NRGF.

During 1991-92, Bombay Pune pipeline has achieved the highest ever throughput of 2.36 million tonnes against installed capacity of 2.00 million tonnes.

The dividend on the share capital has been increased to 30% in 1991-92 from 20% in the year 1990-91.

5. Indian Oil Corporation Ltd.

(A) REFINERIES

(i) Assam Oil Division, Digboi, Assam

1991 Digboi refinery turned out a crude throughput of 5,46,281 MT during 1991-92 achieving a capacity utilisation of 109.3%. Two new slow speed D.G. sets (SKODA MAKE) of 3.3 K.V. 1600 KVA each were commissioned in Sept./Oct., 1991.

(ii) Guwahati Refinery, Guwahati, Assam

1991 In May, desalter was commissioned.

In December, new LPG Horton sphere of 400 M^3 capacity was commissioned.

(iii) Barauni Refinery, Barauni, Bihar

1991 In June, feasibility report (stage I) on hydrotreatment on coker products submitted to Govt. of India for approval.

1992 In March, revised cost estimates for Catalytic Reformer Unit submitted to the Government for approval and two Nos. 10,000 KL new HSD tanks were mechanically completed.

(iv) Gujarat Refinery, Koyali, Gujarat

Gujarat refinery is the first oil company in India which has won the safety award "Sword of Honour" from British Safety Council for the year 1990. It also bagged the National Safety Award from British Safety Council for the year 1991.

1991 In September, ENCON scheme implemented in FPU which has also resulted in capacity increase from 1.86 to 2.07 MMTPA.

In October, regular use of ZSM-5 additive started in FCCU to increase the LPG/Gasolene yield.

In November, Distributed Digital Control System in Gujarat refinery - expansion units viz. (AU-4, VDU & VBU) was commissioned.

(v) Haldia Refinery, Haldia, West Bengal

The refinery bagged the Jawahar Lal Nehru Centenary award for best energy conservation for the year 1990-91. Modernisation jobs of LPG Bottling plant were completed.

(vi) Mathura Refinery, Mathura, U.P.

1992 In February, one 30,000 KL HSD tank and two 10,000 KL tanks for Naphtha and ATF were mechanically completed.

(B) PIPELINES DIVISION

1991 In July, Back-up consultancy contract signed with Bechtel International for KBPL project.

In August, second Oil Jetty piping laid and commissioned at Haldia.

1992 In February, a comprehensive operations and maintenance contract signed with M/s British Gas, to be financed by World Bank.

In March, State-of-the art computer aided design and drafting package (CADPIPE & CADELEC) installed and commissined. Highest overall throughput of 22.056 MMT achieved for 1991-92, an increase of 11.95 percent over MOU target.

6. Madras Refineries Limited. Tamil Nadu

1991 In April, MRL received "Best Pavilion Award" among the Central public sector pavilions in "All India Tourist and Industrial Fair 1992" In Madras. The theme of the pavilion was "Oil Conservation". MRL also signed agreement with IBP Co. Ltd. for marketing petroleum products manufactured by MRL's Cauvery Crude Distillation Unit.

In August, approval for the Rs. 40 crore project of MRL to put-up facilities for separation of LPG from the associated gas available at Narimanam was received.

In September, MRL signed agreement with M/s Balmer & Lawrie Co. Limited for marketing AOFA feedstock. MRL's Rs. 19.5 crore Tertiary Treatment plant at Manali was inaugurated.

In October, MRL received Best Pavilion Award from the Governor of Tamil Nadu for the MRL staff put-up in the Energy '91 Exhibition, Madras on the theme of "Energy Conservation".

1992 In February, MRL Cauvery Basin refinery conducted Solar Cooker and improved Chullahs demonstration at Muttam, Nagapattinam and also MRL project to use Compressed Natural Gas in transport sector was demonstrated at Madras.

7. IBP Company Limited

1991 In August, implementation of Cherapalli Depot Project was commenced.

In November, Memorendum of Understanding (MOU) was signed with Ministry of Petroleum & Natural Gas for the first time.

1992 The environmental clearance for the Assam refinery project at Numaligarh was received on 31.5.91. Project office was opened at Nagapattinam on 23.3.92 for setting up the marketing terminal for the Cauvery project of MRL.

C. MARKETING

1. Bharat Petroleum Corporation Ltd., Bombay

1992 In February, as a part of Energy Conservation Week, Ministry of Petroleum & Natural Gas organised joint surveys of the furnaces/boilers at all refineries in India through Centre for High Technology (CHT). BPCL refinery was declared winners in the area of "Furnace instrumentation and Control".

In March, new installations were commissioned at Mathura (Tankage of 28097 Kls) and at Irupanam (72000 Kls). New Depots were commissioned at Miraj (17085 Kls.) and Shankari (12400 Kls).

2. Hindustan Petroleum Corporation Ltd., Bombay

1991 During the fiscal year 1991-92, HPCL registered an all time high sales of 11.048 million tonnes representing growth of 4.4% over the previous year.

1992 In February, a 14 km long 6" dia heat traced insulated LSHS pipeline from Visakh terminal to Visakh Steel plant was commissioned.

In March, LSHS depot at Kota with tank wagon decanting and siding facilities was commissioned.

3. IBP Company Limited

Petroleum product sales for the year 1991-92 crossed the 2.5 million metric tonne mark.

Hydraulic Brake Fluid and certain grades of Industrial Lube oils were introduced.

4. Indian Oil Corporation Limited

(a) Indian Oil Corporation Limited, Bombay

1991 In April, Aviation Fuel Station commissioned at Arkonam (Tamil Nadu).

In July, Black Oil depot with allied facilities completed at Yllahanka (Karnataka) (Tankage 10178 KL).

In September, LPG bottling plants at Calicut & Silchar were commissioned and 14" diameter Lube Oil pipeline from Trombay Jetty to Indian Oil Blending Ltd. (IOBL) completed.

In October, MOU signed with J.K. Petrochemicals for supply of 3,00,000 metric tonnes per annum of special cut Naphtha from Mathura refinery and Aviation Fuel Station at Dimapur (Assam) was commissioned.

In December, a depot at Rajpura (Punjab) was commissioned.

1992 In January, LPG Bottling plant at Calicut was dedicated to the nation. MOU signed with M/s Vam Petro Products for supply of C4 intermediates from Mathura refinery.

In February, multigrade engine oils in 4 litre disposable packs launched at Madras/ Bangalore and 85 locations won British Safety Council National Safety awards for 1991.

In March, a new depot at Barauni with tankage of 33.930 KL and resitement of Nidodavole depot at Rajamundry (A.P.) with a tankage of 11,740 KL were completed.

During 1991-92, eight new grades of Lube Oil developed & five grade of Lube oil introduced against imported products.

(b) Assam Oil Division, Digboi (Assam)

With the commissioning of direct entry at TSK terminal the movement of T/Ws have been streamlined. 37,000 KL of additional tankage was added to the existing tankage of TSK terminal during 1991-92 as a part of the modernisation plan. The new fire hydrant system was commissioned in Sep. 1991.

Three new SKO tanks were construcced at Imphal during 1991-92. Each tank has a capacity of 85.8 KL.

With a view to buffer tankage for Meghalaya and its neighbouring areas the grassroot depot at Barapani, Meghalaya was commissioned on 30.3.91 at a total cost of about Rs. 300 lakhs.

In view of strategic importance of Manipur and Nagaland states, its difficult terrain & demand pattern, a divisional office was set up in Dimapur on July, 1991.

D. R. & D. Activities

1. Indian Institute of Petroleum, Dehradun

1991 In July, a Memorendum of Understanding was signed with Lubrizol india Limited (LIL), Bombay for the transfer of know-how to manufacture hot rolling oil.

In August, an agreement was signed with Graphite India Ltd., Calcutta for the development of electrode pitches.

In September, an agreement for the transfer of know-how for the manufacture of IIP-Large Nutan Wick Stove was signed.

In October, an agreement signed with the Gas Authority of India Ltd., for building up of infrastructural facilities for evaluation of Compressed Natural Gas (CNG) conversion kits for passenger cars and automotive diesel engines and development of a 2-stroke engine for CNG.

In November, an agreement was signed with Tusharmatic, Dehradun for transfer of technology on Smoke Meter.

An agreement was signed with Oxide India Ltd., Durgapur for making Alumina Catalyst for dehydration of alcohols to olefins.

An agreement was signed with Cadila Laboratories Ltd., Ahmedabad for developing a process for the manufacture of Tetra-Methylene Sulphone.

In December, an agreement was signed with Gujarat Auto Projects and Services Ltd., Vadodara for transfer of technology on Petrofit kit for Dual Fund operation of Diesel Vehicles with Alcohol.

2. Indian Oil Corporation Ltd.
Research & Development Centre, Faridabad

Formulation of 84 products in the categories of automotive oils, industrial oils, metal working oils, greases and specialities were developed during 1991-92.

A high performance friction modified energy efficient industrial gear oil meeting US steel 224 specification was subjected to field trial in gear boxes at ACC Jamul. Trial data indicates a reduction in friction and energy savings of 1.85%.

New high performance lithium complex grease has been developed to meet specific requirements of steel plants. Also a high temp. grease with new chemistry, developed at R&D Centre and offered for trials to various customers.

Ship launching lubricants. required by Indian Navy have been developed and cleared by Indian Navy for regular use.

In order to simulate and optimise commercial FCC plant performance, a steady process simulator called FCC MOD has been developed specifically suited to low conversion/distillate mode of Indian FCC units. First version of FCC MOD was installed in Mathura refinery during September 1991. After receiving feedback, model was further optimised so that the model predictions match closely with the plant performance. The modified version has also been installed.

Facility for measuring the exhaust emissions from two stroke engines supplied by Horiba, Japan has been fully commissioned. Base line data for the CO, CO2 hydrocarbons and oxides of nitrogen has been generated on TVS-50 moped.

III. INDIAN PETROLEUM INDUSTRY PROGRESS AT A GLANCE (1947-48 - 1991-92)

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	7.99	5.71 (39)	2.22 (35)	7.71	43	68	NA	NA	NA	124	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%	1222	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%	1279	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%	1480	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%	1620	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%	1512	30%
1981-82	469	411	16.19	3.9	30.15	28.18	32.52	15.30 (3736)	4.88 (1453)	19.29	4978	2442	13608	7806	66.5%	1582	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%	1664	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%	1649	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%	2077	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%	2895	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%	3165	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%	4419	61%
1988-89	638	579	32.04	13.2	48.80	45.70	50.09	17.81 (2861	6.50 (1560)	22.02	3897	1606	28235	20231	21.9%	4879	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%	5311	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%	6786	56%
1991-92 (P)	806	730	30.34	18.6	51.42	48.35	56.81	24.00 (7820)	9.44 (5218)	30.50	11824	3260	47797	43828	29.7%	7323	50%

NA = Not available (P) = Provisional
@ = As on 1st January of initial years * = 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*
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19
I. 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
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
(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
(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	18.9
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
4. Exports	-	-	-	-	-	-	-	0.8	4.5	5.5	6.5	0.5	-	-	-	-	-	-
5. Net Imports (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
II. PRODUCTS																		
1. Domestic Consumption@	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	56.8
of which																		
(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	3.3
(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
(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
(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
2. Domestic Production	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
of which																		
(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
(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
(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
(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
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
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
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

* Provisional Neg. Negligible

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

V. GROWTH OF PETROLEUM INDUSTRY IN INDIA

(Calendar 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	47440	44583	48048
1988	31580	47896	44730	51308
1989	33685	51974	48724	55801
1990	33311	51671	48402	57943
1991(P)	31007	50954	47916	58462

(Rs. Crores)

Year	GROSS IMPORTS			EXPORTS/RE-EXPORTS			NET POL IMPORTS (col. 8-11)
	Crude Oil	Products	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	102.36	30.53	132.89	-	5.72	5.72	127.17
1971	139.88	43.49	183.37	-	2.55	2.55	180.82
1972	144.25	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(P)	6827.56	5600.96	12428.52	-	1041.13	1041.13	11387.39

* = 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	30168	42910	39881	43363
1986-87	30480	45699	42761	46274
1987-88	30357	47744	44728	48938
1988-89	32040	48803	45699	52882
1989-90	34087	51942	48690	56779
1990-91	33021	51772	48562	57745
1991-92(P)	30346	51423	48349	59436

(Rs./Crores)

Financial Year	GROSS IMPORTS			EXPORTS/RE-EXPORTS			NET POL IMPORTS
	Crude Oil	Products	Total	Crude Oil	Products	Total	
1	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	1197.16	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(P)	7820.05	5218.27	13038.32	--	1214.65	1214.65	11823.67

* = including Refinery Fuel (P) = Provisional. (e) = Estimated.

VI. PETROLEUM ENERGY

PETROLEUM ENERGY IN INDIA 1982 - 1991 (Calendar Years)

PRODUCTS	AVAILABILITY						
	1982	1984	1986	1988	1989	1990	1991(P)
1	2	3	4	5	6	7	8
	IN ORIGINAL UNITS @ (MILLION TONNES)						
Kerosene	5.19	5.96	6.77	7.26	8.19	8.64	8.90
ATF	1.31	1.42	1.64	1.66	1.87	1.74	1.68
HSD	11.77	13.42	15.96	17.13	20.94	20.90	22.68
LDO	1.11	1.21	1.17	1.23	1.51	1.53	1.50
Fuel Oils	7.21	7.78	7.91	7.98	8.89	9.31	9.42
Others*	3.97	4.88	6.55	7.02	8.14	8.66	8.70
Total	**30.56**	**34.67**	**40.00**	**42.28**	**49.54**	**50.78**	**52.88**
	IN MILLION TONNES OF COAL EQUIVALENT UNITS @						
Kerosene	10.38	11.92	13.54	14.52	16.38	17.28	17.80
ATF	2.62	2.84	3.28	3.32	3.74	3.48	3.36
HSD	23.54	26.84	31.92	34.26	41.88	41.80	45.36
LDO	2.22	2.42	2.34	2.46	3.02	3.06	3.00
Fuel Oils	14.42	15.56	15.82	15.96	17.78	18.62	18.84
Others*	7.94	9.76	13.10	14.04	16.28	17.32	17.40
Total	**61.12**	**69.34**	**80.00**	**84.56**	**99.08**	**101.56**	**105.76**
	IN MILLION TONNES OF COAL REPLACEMENT UNITS @						
Kerosene	41.52	47.69	54.16	58.08	65.52	69.12	71.20
ATF	9.83	10.62	12.30	12.45	14.02	13.05	12.60
HSD	105.93	120.74	143.64	154.17	188.46	188.10	204.12
LDO	9.99	10.91	10.53	11.07	13.59	13.77	13.50
Fuel Oils	14.42	15.56	15.82	15.96	17.78	18.62	18.84
Others*	21.09	26.61	32.51	36.04	47.44	51.30	52.15
Total	**202.78**	**232.13**	**268.96**	**287.77**	**346.81**	**353.96**	**372.41**

PRODUCTS	CONSUMPTION(#)						
	1982	1984	1986	1988	1989	1990	1991(P)
1	2	3	4	5	6	7	8
	IN ORIGINAL UNITS (MILLION TONNES)						
Kerosene	5.13	5.84	6.52	7.59	8.09	8.42	8.41
ATF	1.13	1.30	1.59	1.69	1.75	1.73	1.56
HSD	11.64	13.31	15.70	18.40	20.33	21.18	21.98
LDO	1.05	1.18	1.15	1.38	1.49	1.51	1.43
Fuel Oils	7.13	7.79	8.02	8.32	8.70	9.10	8.95
Others*	3.84	4.93	6.47	7.32	8.23	8.68	8.77
Total	**29.92**	**34.35**	**39.45**	**44.70**	**48.59**	**50.62**	**51.10**
	IN MILLION TONNES OF COAL EQUIVALENT UNITS @						
Kerosene	10.26	11.68	13.04	15.18	16.18	16.84	16.82
ATF	2.26	2.60	3.18	3.38	3.50	3.46	3.12
HSD	23.28	26.62	31.40	36.80	40.66	42.36	43.96
LDO	2.10	2.36	2.30	2.76	2.98	3.02	2.86
Fuel Oils	14.26	15.58	16.04	16.64	17.40	18.20	17.90
Others*	7.68	9.86	12.94	14.64	16.46	17.36	17.54
Total	**59.84**	**68.70**	**78.90**	**89.40**	**97.18**	**101.24**	**102.20**
	IN MILLION TONNES OF COAL REPLACEMENT UNITS @						
Kerosene	41.04	46.72	52.16	60.72	64.72	67.36	67.28
ATF	8.48	9.75	11.93	12.68	13.13	12.98	11.70
HSD	104.76	119.79	141.30	165.60	182.97	190.62	197.82
LDO	9.45	10.62	10.35	12.42	13.41	13.59	12.87
Fuel Oils	14.26	15.58	16.04	16.64	17.40	18.20	17.90
Others*	20.44	26.38	34.95	38.06	48.08	51.45	52.64
Total	**198.43**	**228.84**	**266.73**	**306.12**	**339.71**	**354.20**	**360.21**

(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: 1982-1983 TO 1991-92 (Financial Years)

AVAILABILITY

PRODUCTS	1982-83	1984-85	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92
1	2	3	4	5	6	7	8	9
IN ORIGINAL UNITS (MILLION TONNES)								
Kerosene	5.27	5.93	6.76	7.29	7.95	8.30	8.81	8.71
ATF	1.38	1.41	1.64	1.74	1.79	1.84	1.83	1.56
HSD	12.34	13.59	16.13	17.54	19.00	20.79	21.87	22.73
LDO	1.12	1.25	1.16	1.26	1.47	1.54	1.51	1.48
Fuel Oils	7.29	7.89	7.91	7.86	9.31	9.17	9.43	9.64
Others*	4.13	5.15	6.59	7.14	7.82	8.26	8.75	8.75
Total	**31.58**	**35.22**	**40.19**	**42.83**	**47.34**	**49.90**	**52.20**	**52.87**
IN MILLION TONNES OF COAL EQUIVALENT UNITS @								
Kerosene	10.54	11.86	13.52	14.58	15.90	16.60	17.62	17.42
ATF	2.76	2.82	3.28	3.48	3.58	3.68	3.66	3.12
HSD	24.68	27.18	32.26	35.08	38.00	41.58	43.74	45.46
LDO	2.24	2.50	2.32	2.52	2.94	3.08	3.02	2.96
Fuel Oils	14.58	15.78	15.82	15.72	18.62	18.34	18.86	19.28
Others*	8.26	10.30	13.18	14.28	15.64	16.52	17.50	17.50
Total	**63.06**	**70.44**	**80.38**	**85.66**	**94.68**	**99.80**	**104.40**	**105.74**
IN MILLION TONNES OF COAL REPLACEMENT UNITS @								
Kerosene	42.16	47.44	54.08	58.32	63.60	66.40	70.48	69.68
ATF	10.35	10.58	12.30	13.05	13.43	13.80	13.72	11.70
HSD	111.06	122.31	145.17	157.86	171.00	187.11	196.83	204.57
LDO	10.08	11.25	10.44	11.34	13.23	13.86	13.59	13.32
Fuel Oils	14.58	15.78	15.82	15.72	18.62	18.34	18.86	19.28
Others*	21.99	27.95	33.11	36.86	40.35	48.33	51.93	52.51
Total	**210.22**	**235.31**	**270.92**	**293.15**	**320.23**	**347.84**	**365.41**	**371.06**

CONSUMPTION(#)

PRODUCTS	1982-83	1984-85	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92
1	2	3	4	5	6	7	8	9
IN MILLION TONNES UNITS (MILLION TONNES)								
Kerosene	5.21	5.96	6.65	7.23	7.73	7.38	8.42	8.40
ATF	1.15	1.34	1.60	1.65	1.71	1.78	1.68	1.53
HSD	12.01	13.70	16.01	17.66	18.60	20.69	21.14	22.68
LDO	1.07	1.20	1.16	1.24	1.44	1.46	1.51	1.47
Fuel Oils	7.30	7.94	8.05	8.14	8.46	8.64	8.99	9.17
Others*	4.08	5.07	6.62	7.14	7.80	8.42	8.68	8.85
Total	**30.82**	**35.21**	**40.09**	**43.06**	**45.94**	**48.37**	**50.42**	**52.10**
IN MILLION TONNES OF COAL EQUIVALENT UNITS @								
Kerosene	10.42	11.92	13.30	14.46	15.46	14.76	16.84	16.80
ATF	2.30	2.68	3.20	3.30	3.42	3.56	3.36	3.16
HSD	24.02	27.40	32.02	35.32	37.60	41.38	42.28	45.36
LDO	2.14	2.40	2.32	2.48	2.88	2.92	3.02	2.94
Fuel Oils	14.60	15.88	16.10	16.28	16.92	17.28	17.98	18.34
Others*	8.16	10.14	13.24	14.28	15.60	16.84	17.36	17.70
Total	**61.64**	**70.42**	**80.18**	**86.12**	**91.88**	**96.74**	**100.84**	**104.30**
IN MILLION TONNES OF COAL REPLACEMENT UNITS @								
Kerosene	41.68	47.67	53.20	57.84	61.84	59.04	67.36	67.20
ATF	8.63	10.02	12.00	12.38	12.83	13.35	12.60	11.48
HSD	108.09	123.26	144.09	158.94	169.20	186.21	190.26	204.12
LDO	9.63	10.78	10.44	11.16	12.96	13.14	13.59	13.23
Fuel Oils	14.60	15.88	16.10	16.28	16.92	17.28	17.98	18.34
Others*	21.61	27.82	38.02	39.85	40.56	43.78	51.41	53.24
Total	**203.24**	**234.93**	**271.85**	**296.45**	**314.31**	**332.80**	**353.20**	**367.61**

(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.

VII. EXPLORATION

AREA WISE DEPLOYMENT OF DEEP DRILLING RIGS, WELLS & METREAGE DRILLED BY ONGC & OIL FROM 1970-71 TO 1991-92.

YEAR	ONSHORE			OFFSHORE			TOTAL		
	Rigs (Nos.)	Wells (Nos.)	Metreage ('000')	Rigs (Nos.)	Wells (Nos.)	Metreage ('000')	Rigs (Nos.)	Wells (Nos.)	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
(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
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	146	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

EXPLORATORY & DEVELOPMENT DRILLING BY ONGC & OIL.

YEAR	Exploratory		Development		Total	
	Wells (Nos.)	Metreage ('000')	Wells (Nos.)	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+1P	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	128+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
			(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
			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

(P) -Partly Drilled. * Provisional

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

(Numbers)

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	370	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
			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
			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
			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	1815	200	385	1036	7417

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

STATE-WISE ACHIEVEMENT OF GEOLOGICAL FIELD PARTIES IN INDIA BY ONGC/OIL SINCE INCEPTION UPTO MARCH, 1992.

(Provisional)

STATE	Detailed mapping (Sq.Km.)	Semi-detailed mapping (Sq.Km)	Traver-sing (Line/Kms)	Reconna-issance (Sq.Km)	Special Studies (Sq.Km)	Geotec-tonic studies (Sq.Km)	Reconna-tory Trave-rsing (Sq.Km)
1	2	3	4	5	6	7	8
1. Andhra Pradesh	-	5017	-	5295	-	45000	-
2. Tamil Nadu	2860	6955	271	11160	GC 595	-	-
3. Assam (including Meghalaya, Nagaland Mizoram, Tripura, Arunachal Pradesh, Manipur & Nefa)	8005	48974	11440	4979	CW 740 Photo-1100 geolo-gical	-	167
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 and Gondawana 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**	**26393**	**81799**	**5729 +CW 740 +Photo-1100 geological +GC 595 +CH 372**	**50400**	**497 200(RM)**

Abbreviations: RM-Road Mapping, CW-Compilation Works. CH-Checking lines. GC-Ground Checking.

STATE-WISE ACHIEVEMENT OF PHYSICAL FIELD PARTIES IN INDIA BY ONGC & OIL SINCE INCEPTION UPTO MARCH, 1992

(Provisional)

State	Departmental			Contract		S.Km.
	Line Kms.	SSKm. 3-D	SLK	Line Kms.	SLK	3-D
1	2	3	4	5	6	7
1. Andhra Pradesh	7108	-	43928	5111	-	-
2. Assam (Including Tripura, Mizoram, Arunachal Pradesh, Meghalaya and Nagaland)	14707	265	69967	250	2708	-
3. Gujarat	43202	957	106108	10557	-	-
4. Bihar	2426	-	4146	-	-	-
5. Haryana	-	-	1536	-	-	-
6. Himachal Pradesh and Punjab	5400	-	2528	-	549	-
7. Tamil Nadu	9639	407	30554	8447	-	-
8. Jammu & Kashmir	1937	-	-	99	-	-
9. Orissa	1644	-	-	-	3814	-
10. Uttar Pradesh	12190	-	28236	-	546	-
11. Rajasthan	3554	-	31504	4105	10810	-
12. West Bengal	16051	-	16102	2946	-	67
13. Madhya Pradesh	73	-	3128	-	-	-
Total Onshore	**117931**	**1629**	**337737**	**31515**	**18427**	**67**
Offshore	**291191**	**-**	**-**	**149085**	**14000**	**-**
GRAND TOTAL	**381958**	**1629**	**337737**	**180600**	**32427**	**67**

SLK: Standard Line Kilometre.

STATE-WISE ACHIEVEMENT OF DRILLING BY ONGC/OIL SINCE INCEPTION UPTO MARCH, 1992

Sl. No.	State	Drilling achievement since inception	
		Wells (Nos)	Metreage ('000 M)
	1	2	3
A.	**ONLAND**		
1.	Andhra Pradesh (Including Kerala)	105	366.81
2.	Assam, Andaman & Nicobar (Including Tripura, Mizoram, Meghalaya, West Bengal, Nagaland and Arunachal Pradesh)	1727	5638.48
3.	Gujarat (Including Kutch, Maharashtra and Madhya Pradesh)	3035	4981.94
4.	Bihar	5	29.23
5.	Himachal Pradesh (Including Punjab)	13	52.67
6.	Tamil Nadu and Pondichery	147	393.57
7.	Jammu & Kashmir	4	12.02
8.	Orissa	4	8.70
9.	Uttar Pradesh	6	21.40
10.	Rajasthan	59	123.97
	Total Onland	**5105**	**11628.79**
B.	**OFFSHORE**		
1.	West Coast	1052	2389.43
2.	East Coast	136	448.73
	Total Offshore	**1188**	**2838.16**
	Grand Total (A+B)	**6293**	**14466.95**

VIII. CRUDE OIL

State wise Reserves of Crude Oil @

(Million Tonnes)

YEAR	ON SHORE				OFF SHORE	Grand Total
	Gujarat	Assam	Rajasthan	Total	Bombay High	
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	366.33
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

@ Proved & Indicated Balance Recoverable Reserves.

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

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.

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

('000' Tonnes)

YEAR	ON SHORE				OFFSHORE	GRAND TOTAL	CUMULA-TIVE PROD-UCTION
	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	4097	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

(a) = After takeover 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, thereafter the same have been merged with OIL.

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

('000' Tonnes)

YEAR	ON SHORE				OFFSHORE	GRAND	CUMULA-TIVE PRO-DUCTION SINCE INCEPTION
	AOC	OIL	ONGC	TOTAL	ONGC	TOTAL	
(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 *	--	2530	8853	11383	18963	30346	454577

* 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	Grand Total
	Arunachal Pradesh	Tamil Nadu/ Andhra Pradesh	Assam	Gujarat	Total	Bombay High	
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	4276	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
FINANCIAL YEARS							
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
1986-87	51	5	5239	4561	9862	20618	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

* Provisional.

IX. STATE-WISE RESERVES OF NATURAL GAS @

(Bn. Cubic Metres)

YEAR	ON SHORE				OFF SHORE	Grand Total
	Gujarat	Assam	Rajasthan	Total	Bombay High	
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	-	63.24
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	447.47	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

@ Proved & Indicated Balance Recoverable Reserves.

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

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.

STATE-WISE GROSS PRODUCTION OF NATURAL GAS IN INDIA

(Million Cubic Metres)

YEAR	ON SHORE					OFF SHORE	GRAND TOTAL
	Arunachal Pradesh	Assam	Tripura/ T. Nadu & Andhra Pradesh	Gujarat	Total	Bombay High	
1	2	3	4	5	6	7	8
CALENDAR YEARS							
1970	-	996	-	458	1424	-	1424
1971	-	993	-	516	1509	-	1509
1972	-	1031	-	533	1564	-	1564
1973	-	1155	-	519	1674	-	1674
1974	-	1328	-	590	1918	-	1918
1975	-	1550	-	760	2310	-	2310
1976	-	1595	-	815	2410	28	2438
1977	-	1677	-	888	2565	161	2726
1978	-	1527	-	903	2430	340	2770
1979	-	1709	-	843	2552	532	3084
1980	-	621	-	868	1489	588	2077
1981	-	1605	-	761	2366	1120	3486
1982	-	1855	-	741	2596	2065	4661
1983	1	1903	-	760	2664	3104	5768
1984	1	2027	-	758	2786	4034	6820
1985	4	2049	-	884	2937	4971	7908
1986	12	2105	17	980	3114	6350	9464
1987	13	2149	33	940	3135	7771	10906
1988	17	2150	53	1183	3403	9381	12784
1989	21	2172	77	1559	3829	12097	15926
1990	27	2014	158	1645	3844	14146	17990
1991*	31	2062	251	1855	4199	14450	18649
FINANCIAL YEARS							
1970-71	-	980	-	465	1445	-	1445
1971-72	-	1012	-	523	1535	-	1535
1972-73	-	1034	-	531	1565	-	1565
1973-74	-	1195	-	518	1713	-	1713
1974-75	-	1388	-	653	2041	-	2041
1975-76	-	1595	-	773	2368	-	2368
1976-77	-	1558	-	822	2380	48	2428
1977-78	-	1717	-	893	2610	229	2839
1978-79	-	1518	-	908	2426	386	2812
1979-80	-	1385	-	840	2225	542	2767
1980-81	-	843	-	842	1685	673	2358
1981-82	-	1748	-	758	2506	1345	3851
1982-83	-	1829	-	750	2579	2357	4936
1983-84	Neg.	1954	-	748	2702	3259	5961
1984-85	2	2056	-	775	2833	4408	7241
1985-86	6	2029	-	919	2954	5180	8134
1986-87	13	2142	22	971	3148	6705	9853
1987-88	13	2147	43	1005	3208	8259	11467
1988-89	18	2160	50	1258	3486	9731	13217
1989-90	23	2159	101	1613	3896	13087	16983
1990-91	29	2011	180	1696	3916	14082	17998
1991-92*	31	2051	271	1898	4251	14393	18644

* = Provisional.

STATE-WISE GROSS AND NET PRODUCTION OF NATURAL GAS

(Mn. Cubic Metres)

PERIOD	Gross Prodn.	Re-Injected	Flarred	Net Production
1	2	3	4	5
		ONSHORE		
GUJARAT				
1970-71	465	-	155	310
1971-72	523	-	143	380
1972-73	531	-	117	414
1973-74	518	-	144	374
1974-75	653	-	121	532
1975-76	773	-	136	637
1976-77	822	-	131	691
1977-78	893	-	147	746
1978-79	908	-	164	744
1979-80	840	-	178	662
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	-	356	902
1989-90	1613	-	478	1135
1990-91	1696	-	402	1294
1991-92*	1898	-	318	1580
ASSAM				
1970-71	980	36	607	337
1971-72	1012	49	625	338
1972-73	1034	141	536	357
1973-74	1195	115	692	388
1974-75	1388	139	830	419
1975-76	1595	162	946	487
1976-77	1558	190	678	690
1977-78	1717	184	818	715
1978-79	1518	148	607	763
1979-80	1385	127	616	642
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	2177**	63	871	1243
1987-88	2203**	54	738	1411
1988-89	2228**	84	740	1404
1989-90	2283**	96	740	1447
1990-91	2220**	102	681	1437
1991-92*	2353**	132	737	1484

** - Includes Tripura/Tamil Nadu/Nagaland/Andhra Pradesh and Arunachal Pradesh.

STATE-WISE GROSS AND NET PRODUCTION OF NATURAL GAS

(Mn. Cubic Metres)

PERIOD	Gross Prodn.	Re-Injected	Flarred	Net Production
1	2	3	4	5
		OFFSHORE		
1970-71	-	-	-	-
1971-72	-	-	-	-
1972-73	-	-	-	-
1973-74	-	-	-	-
1974-75	-	-	-	-
1975-76	-	-	-	-
1976-77	48	-	48	-
1977-78	229	-	226	3
1978-79	386	-	182	204
1979-80	542	-	170	372
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*	14393	-	3016	11377
		TOTAL		
1970-71	1445	36	762	647
1971-72	1535	49	768	718
1972-73	1565	141	653	771
1973-74	1713	115	836	762
1974-75	2041	139	951	951
1975-76	2368	162	1082	1124
1976-77	2428	190	857	1381
1977-78	2839	184	1191	1464
1978-79	2812	148	953	1711
1979-80	2767	127	964	1676
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	16983	96	5720	11167
1990-91	17998	102	5130	12766
1991-92*	18644	132	4071	14441

* Provisional

STATE-WISE UTILISATION OF NATURAL GAS IN INDIA

(Mn.Cubic Metres)

YEAR	ON-SHORE			OFFSHORE	GRAND TOTAL
	Gujarat	Assam	Total	BOMBAY HIGH	
1	2	3	4	5	6
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	1243	2030	5042	7072
1987-88	737	1411	2148	5820	7968
1988-89	902	1404	2306	6944	9250
1989-90	1135	1447	2582	8585	11167
1990-91	1294	1437**	2731	10035	12766
1990-91	1580	1484**	3064	11377	14441

* = Provisional.

** = Includes Arunachal Pradesh, Tripura, Tamil Nadu, Nagaland and Andhra 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	1521	4475	6578	29	85	6692	11167
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

Neg. = Negligible * = Provisional

X. REFINING

Petroleum Refining Capacity in India as on 1.4.1992

(Million Tonnes Per Annum)

Refinery		Year of Commissioning	Installed Capacity as on 1.4.1992	Capacity after expansion under consideration/Implementation	Likely date of Commissioning
1.		2.	3.	4.	5.
	A. Refineries in Operation:				
01.	IOC, Digboi	1901	0.50		
02.	BPCL,Bombay	1955	6.00		
03.	HPCL,Bombay	1954	5.50*		
04.	HPCL, Visakh	1957	4.50		
05.	IOC, Guwahati	1962	0.85		
06.	IOC, Barauni	1964	3.30		
07.	IOC, Koyali	1965	9.50		
08.	IOC, Haldia	1974	2.75		
09.	IOC, Mathura	1982	7.50		
10.	CRL, Cochin	1966	4.50		
11.	MRL, Madras	1969	5.60		
12.	BR & PL, Assam	1979	1.35		
	Total		**51.85**		
	B. Refineries Under Expansion				
01.	IOC, Digboi		0.50	0.65	
02.	IOC, Guwahati		0.85	1.00	These projects
03.	IOC, Barauni		3.30	3.80	are still in
04.	IOC, Koyali		9.50	12.50	the various
05.	CRL, Cochin		4.50	7.00-7.50	stages of
06.	MRL, Madras		5.60	6.50	approval/
07.	BR & PL, Assam		1.35	2.35	Implementation.
	C. Projects Under Advance Stage of Implementation				
01.	Karnal			6.00	
02.	HPCL, (Mangalore)			3.00	8th Plan
03.	Assam (Numaligarh)			3.00	

* Includes 2 MTPA of Swing Refinery Capacity available of HPCL, Bombay

REFINERY CRUDE THROUGHPUT AND PRODUCTION OF PETROLEUM PRODUCTS 1961 TO 1991

('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	47440	-	47440	44583	-	44583
1988	47896	-	47896	44730	-	44730
1989	51974	-	51974	48724	-	48724
1990	51671	-	51671	48402	-	48402
1991(P)	50954	-	50954	47916	-	47916

(P) = Provisional

REFINERY CRUDE THROUGHPUT AND PRODUCTION OF PETROLEUM PRODUCTS 1961-62 TO 1991-92

('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	48690	-	48690
1990-91	51772	-	51772	48562	-	48562
1991-92(P)	51423	--	51423	48349	-	48349

(P) = Provisional

REFINERY-WISE CRUDE RUN AND TOTAL PRODUCTION OF POL PRODUCTS 1970-71 TO 1991-92*

('000' Tonnes)

YEAR	AOC/ AOD	BSR/ BPCL	ESSO/ HPCL	CORIL/ HPC (VMU)	GUWA- HATI	BARAUNI
1	2	3	4	5	6	7
1970-71:						
Total Production	452	3333	2275	1085	631	1996
Crude Run	476	3541	2367	1175	686	2191
1975-76:						
Total Production	489	3438	2635	1007	762	2722
Crude Run	527	3630	2830	1081	827	2949
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	2860
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

* Provisional

Contd. .....

REFINERY-WISE CRUDE RUN AND TOTAL PRODUCTION OF POL PRODUCTS 1970-71 TO 1991-92*

('000' Tonnes)

YEAR	GUJARAT	HALDIA	MATHURA	CRL	MRL	BRPL	TOTAL
1	2	3	4	5	6	7	8
1970-71:							
Total Production	3208	-	-	2346	1784	-	17110
Crude Run	3463	-	-	2498	1982	-	18379
1975-76:							
Total Production	3854	1295	-	2187	2435	-	20829
Crude Run	4107	1348	-	2294	2690	-	22283
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

* Provisional

TRENDS IN DOMESTIC PRODUCTION OF PETROLEUM PRODUCTS DURING THE PERIOD 1980-81 TO 1991-92

(Qty. '000'Tonnes)

Products	1980-81	1981-82	1982-83	1983 84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92(P)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. Light Distillates: of which	**4101**	**5138**	**5313**	**6134**	**6315**	**8253**	**9069**	**9245**	**9451**	**10021**	**10023**	**9673**
LPG*	366	410	406	514	596	867	995	1026	1034	1179	1221	1250
Mogas	1519	1614	1797	1937	2144	2306	2515	2662	2822	3328	3552	3420
Naphtha	2115	3004	2986	3578	3470	4955	5437	5462	5378	5227	4859	4546
2. Middle Distillates : of which	**12115**	**14134**	**15625**	**16873**	**17226**	**21613**	**23324**	**24563**	**25362**	**26867**	**26344**	**26371**
Kerosene	2396	2907	3393	3528	3364	4030	4912	5104	5201	5700	5471	5339
ATF	1001	1009	1137	1195	1297	1519	1553	1695	1753	1575	1801	1539
HSD	7371	9042	9761	10862	11086	14624	15450	16296	16656	17737	17185	17404
LDO	1108	949	1121	1081	1253	1177	1172	1259	1468	1540	1509	1482
3. Heavy Ends of which	**7907**	**8910**	**10135**	**9919**	**9694**	**10015**	**10368**	**10870**	**10886**	**11802**	**12195**	**12305**
F.O.	4041	4015	4829	4588	4095	3791	3865	4563	4243	4543	4879	5430
LSHS/HHS/RFO	2079	2893	3135	3412	3791	4164	4146	3903	4614	4409	4550	4207
Total Fuel Oils	6120	6908	7964	8000	7886	7955	8011	8466	8857	8952	9429	9637
Lube Oils	426	407	434	470	414	501	491	478	497	547	561	390
Bitumen	1082	1298	1397	1069	944	1107	1224	1370	1548	1671	1603	1710
Petroleum Coke	86	141	149	136	181	192	264	257	275	275	229	216
Paraffin wax											49	44
Other Waxes											46	46
TOTAL PRODUCTION :	**24123**	**28182**	**31073**	**32926**	**33236**	**39881**	**42761**	**44728**	**45699**	**48690**	**48562**	**48349**
Crude Throughput	**25836**	**30146**	**33156**	**35263**	**35556**	**42910**	**45699**	**47754**	**48803**	**51942**	**51772**	**51423**
LPG Production from Natural Gas	-	73	169	223	277	363	494	558	726	769	929	1235
NGL PRODN.	-	-	25	50	58	83	186	264	414	589	606	NA

(P) - Provisional

* Excludes LPG production from Natural Gas.

PRODUCTION OF PETROLEUM PRODUCTS 1986 TO 1991

('000' Tonnes)

PRODUCT	PRODUCTION						% Variation	
	1986	1987	1988	1989	1990	1991 (P)	1990 1989	1991 1990
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
			(a) From Crude Oil:					
1. Light Distillates :	**8859**	**9318**	**9285**	**10086**	**9846**	**9544**	**-2.4**	**-3.1**
Of which								
L.P. Gas	963	1021	1010	1163	1215	1229	+4.5	+1.2
Mogas	2464	2789	2700	3242	3536	3453	+9.1	-2.3
Naphtha	5300	5574	5361	5422	4730	4423	-12.8	-6.5
SBPS/Hexane	40	48	74	85	122	133	+43.5	+9.0
2. Middle Distillates:	**22825**	**24332**	**24951**	**26949**	**26503**	**26295**	**-1.7**	**-0.8**
Of which								
Kerosene	4735	5113	5116	5507	5686	5270	+3.3	-7.3
ATF/Jet A-1	1510	1647	1756	1654	1649	1656	-0.3	+0.4
H.S.D.	15166	16106	16399	17979	17121	17259	-4.8	+0.8
L.D.O.	1176	1242	1424	1512	1525	1499	+0.9	-1.7
J.B.O.	70	63	61	77	80	83	+3.9	+3.8
M.T.O.	104	110	110	130	136	148	+4.6	+8.8
3. Heavy Ends:	**10193**	**10933**	**10494**	**11689**	**12053**	**12076**	**+3.1**	**+0.2**
Of which								
F.O.	3738	4659	4155	4491	4856	4982	+8.1	+2.6
LSHS/HHS/RFO	4190	3957	3689	4395	4454	4434	+1.3	-0.4
Total Fuel Oils	7928	8616	7844	8886	9310	9416	+4.8	+1.1
Lube Oils	478	507	577	556	548	410	-1.4	-25.2
Bitumen	1247	1351	1556	1595	1598	1676	+0.2	+4.9
Pet. Coke*	249	267	272	277	246	229	-11.2	-6.9
Paraffin wax					49	45	-	-8.2
Other waxes					44	44	-	0.0
Total waxes	84	75	85	95	93	89	-2.1	-4.3
4. Total Production	**41877**	**44583**	**44730**	**48724**	**48402**	**47916**	**-0.7**	**-1.0**
5. Crude Run	**44940**	**47445**	**48803**	**51974**	**51671**	**50954**	**-0.6**	**-1.4**
			(b) From Natural Gas:					
6. L.P.G.	465	542	706	764	860	1173	+12.6	+36.4
7. N.G.L.	173	236	386	518	621	-	+19.9	-

* Includes Calcined pet. Coke

PATTERN OF REFINERY PRODUCTION

PRODUCTS	1984	1986	1987	1988	1989	1990	1991(P)
Light Distillates @	17.7	19.7	19.6	19.0	19.4	19.1	18.7
Middle Distillates	48.3	50.8	51.3	51.1	51.8	51.3	51.6
Total Fuel Oils	22.4	17.6	18.2	16.1	17.1	18.0	18.5
Lubes	1.3	1.1	1.1	1.2	1.1	1.1	0.8
Bitumen	2.6	2.8	2.8	3.2	3.1	3.1	3.3
Others	1.2	1.2	1.0	1.0	1.2	1.1	1.1
Total Production	**93.5**	**93.2**	**94.0**	**91.7**	**93.7**	**93.7**	**94.0**
RBF & Losses/Inventories	6.5	6.8	6.0	8.3	6.3	6.3	6.0
Crude Run	100	100	100	100	100	100	100

(@) = Includes gases.
(P) = Provisional

PRODUCTION OF PETROLEUM PRODUCTS-1986-87 TO 1991-92(P)

('000'Tonnes)

PRODUCT	PRODUCTION						% Variation	
	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92(P)	1990-91 1989-90	1991-92 1990-91
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
				(a) From Cride Oil				
1. Light Distillates:	**9069**	**9245**	**9451**	**10021**	**10023**	**9673**	**0.0**	**-3.5**
of which								
L.P. Gas	995	1026	1034	1179	1221	1250	+3.6	+2.4
Mogas	2515	2662	2822	3328	3552	3420	+6.7	-3.7
Naphtha	5437	5462	5378	5227	4859	4546	-7.0	-6.4
SBPS/Hexane	32	74	72	96	125	135	+30.2	+8.0
2. Middle Distillates:	**23324**	**24563**	**25362**	**26867**	**26344**	**26371**	**-1.9**	**+0.1**
of which								
Kerosene	4912	5104	5201	5700	5471	5339	-4.0	-2.4
ATF/Jet A-1	1553	1695	1753	1575	1801	1539	+14.3	-14.5
H.S.D.	15450	16296	16656	17737	17185	17404	-3.1	+1.3
L.D.O.	1172	1259	1468	1540	1509	1482	-2.0	-1.8
J.B.O.	67	63	72	74	82	82	+10.8	0.0
M.T.O.	105	109	115	128	146	143	+14.1	-2.1
3. Heavy Ends :	**10368**	**10870**	**10886**	**11802**	**12195**	**12305**	**+3.3**	**+0.9**
of which								
F.O.	3865	4563	4243	4543	4879	5430	+7.4	+11.3
LSHS/HHS/RFO	4146	3903	3928	4409	4550	4207	+3.2	-7.5
Total Fuel Oils	8011	8466	8171	8952	9429	9637	+5.3	+2.2
Lube Oils	491	478	497	547	561	390	+2.6	-30.5
Bitumen	1224	1370	1548	1671	1603	1710	-4.1	+6.7
Pet. Coke*	264	257	275	275	229	216	-16.7	-5.7
Paraffin wax					49	44	-	-10.2
Other waxes					46	46	-	0.0
Total waxes	79	75	88	95	95	90	0.0	-5.3
4. Total Production	**42761**	**44728**	**45699**	**48690**	**48562**	**48349**	**-0.3**	**-0.4**
5. Crude Run	**45699**	**47754**	**48803**	**51942**	**51772**	**51423**	**-0.3**	**-0.7**
				(b) From Natural Gas				
6. L.P.G.	494	558	726	769	929	1235	+19.9	+32.9
7. N.G.L.	186	264	414	589	606	N.A.	+2.9	-

(P) Provisional. * Includes Calcined pet. Coke

PATTERN OF REFINERY PRODUCTION

(Percentages)

PRODUCTS	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92(P)
Light Distillates @	19.9	19.4	19.4	19.3	19.4	18.8
Middle Distillates	51.0	51.4	52.0	51.7	51.9	51.3
Total Fuel Oils	17.5	17.7	16.7	17.2	18.2	18.7
Lubes	1.1	1.0	1.0	1.1	1.1	0.8
Bitumen	2.7	2.9	3.2	3.2	3.1	3.3
Others	1.4	1.3	1.3	1.2	1.1	1.1
Total Production	**93.6**	**93.7**	**93.6**	**93.7**	**93.8**	**94.0**
RBF & Losses/Inventories	6.4	6.3	6.4	6.3	6.2	6.0
Crude Run	100	100	100	100	100	100

@ = Includes gases (P) = Provisional.

XI. CONSUMPTION/SALES

TOTAL SALES/CONSUMPTION OF PETROLEUM PRODUCTS

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

(Qty. '000' Tonnes)

Year	Total Consumption	% 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	1966-67	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
1975	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(P)	58462	+0.9	1991-92(P)	59436	+2.9

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.
(P) Provisional e = Estimated.

TRENDS IN SALES/CONSUMPTION OF PETROLEUM PRODUCTS DURING THE PERIOD 1975-76 TO 1991-92 (P)

('000' Tonnes)

PRODUCT	1975 -76	1980 -81	1981 -82	1982 -83	1983 -84	1984 -85	1985 -86	1986 -87	1987 -88	1988 -89	1989 -90	1990 -91	1991 -92 (P)	% Share of the total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1. LIGHT DISTILLATES:	**3596**	**4388**	**5187**	**5420**	**5600**	**6318**	**6776**	**7412**	**7547**	**8619**	**9412**	**9801**	**9988**	**16.8**
of which:														
LPG	336	405	492	601	746	953	1241	1497	1686	1962	2268	2415	2650	4.4
Mogas	1275	1522	1599	1722	1891	2084	2275	2505	2810	3052	3491	3545	3573	6.0
Naphtha	1836	2325	2963	2958	2804	3125	3106	3249	2852	3364	3350	3446	3334	5.6
2. MIDDLE DISTILLATES:	**11653**	**17056**	**17919**	**19660**	**20651**	**22429**	**23948**	**25656**	**28005**	**29955**	**32484**	**33106**	**34398**	**57.9**
of which:														
Kerosene	3104	4228	4693	5214	5524	5959	6229	6645	7231	7731	8239	8423	8396	14.1
ATF/Jet A-1	897	1125	1128	1145	1208	1336	1453	1603	1654	1713	1775	1677	1530	2.6
HSD	6595	10345	10832	12013	12600	13696	14886	16009	17657	18795	20706	21139	22679	38.2
LDO	878	1122	1036	1067	1097	1198	1123	1156	1245	1437	1486	1506	1472	2.5
3. HEAVY ENDS:	7198	9452	9417	9577	9590	10048	10148	10594	10864	11518	12199	12128	12421	20.9
FO/TDO	4279	5406	4306	4208	4207	4256	3806	3793	4191	4605	4490	4462	4927	8.3
LSHS/HHS	1502	2067	2878	3093	3351	3688	4094	4254	3953	3851	4330	4524	4241	7.1
Total Fuel Oils	5781	7473	7184	7301	7558	7944	7900	8047	8144	8456	8820	8986	9168	15.4
Lube Oils	425	570	567	577	590	634	658	721	756	811	888	857	896	1.5
Greases	16	23	25	28	27	30	42	34	35	36	38	35	37	0.1
Lubes & Greases (Total)	441	593	592	605	617	664	700	755	791	847	926	892	933	1.6
Bitumen	690	1064	1292	1379	1050	935	1126	1309	1379	1498	1695	1581	1705	2.9
Petroleum Coke	151	137	174	103	114	234	163	208	246	316	383	290	266	0.4
Paraffin wax												70	69	0.1
Other waxes												47	45	0.1
Other Misc	135	185	175	189	251	271	259	275	304	401	375	262	235	0.4
Total (1+2+3)	**22447**	**30896**	**32523**	**34657**	**35841**	**38795**	**40872**	**43662**	**46416**	**50092**	**54095**	**55035**	**56807**	**95.6**
Refinery Fuel	**1226**	**1365**	**1584**	**1738**	**1935**	**2033**	**2491**	**2612**	**2522**	**2790**	**2684**	**2710**	**2629**	**4.4**
GRAND TOTAL	**23673**	**32261**	**34107**	**36395**	**37776**	**40828**	**43363**	**46274**	**48938**	**52882**	**56779**	**57745**	**59436**	**100.0**

P = Provisional

PRODUCT-WISE SALES/CONSUMPTION OF PETROLEUM PRODUCTS DURING THE YEARS 1985 TO 1991

(Qty. '000' Tonnes)

PRODUCT	1985	1986	1987	1988	1989	1990	1991	% change 1991/1990
1.	2.	3.	4.	5.	6.	7.	8.	9.
1. Light Distillates:	**6683**	**7213**	**7415**	**8286**	**9259**	**9750**	**10005**	**2.6**
L.P. Gas	1175	1431	1629	1887	2181	2396	2565	7.0
Mogas	2247	2428	2735	2974	3370	3583	3587	0.1
Naphtha	3107	3194	2875	3258	3421	3397	3418	0.6
SBP/Haxane	54	62	65	75	105	127	141	11.0
Others	100	98	111	92	181	247	294	19.0
2. Middle Distillates:	**21855**	**23714**	**25208**	**27318**	**31926**	**33201**	**33715**	**1.5**
Kerosene	6168	6522	7088	7595	8089	8423	8412	(-)0.1
ATF/Jet A-1	1431	1588	1627	1691	1752	1734	1563	(-)9.9
HSD	14713	15703	17165	18325	20329	21176	21976	3.8
LDO/MDO	1145	1149	1220	1379	1491	1512	1432	(-)5.3
JBO	81	75	62	65	74	83	83	0.0
MTO	100	101	103	107	118	133	136	2.3
Others	76	70	53	54	73	140	113	(-)19.3
3. Heavy Ends:	**10186**	**10456**	**10811**	**11352**	**11938**	**12286**	**12121**	**(-)1.3**
F.O./TDO	3933	3761	4024	4696	4353	4672	4535	(-)2.9
LSHS/HHS	4022	4255	4126	3664	4347	4424	4415	(-)0.2
Fuel Oils (total)	7955	8016	8150	8360	8700	9096	8950	(-)1.6
Lubes & Greases	696	736	794	832	884	904	877	(-)3.0
Bitumen/Asphalt	1103	1216	1357	1512	1597	1609	1662	3.3
Pet.Coke	180	199	212	280	369	309	281	(-)9.1
Wax	75	86	78	84	110	120	111	(-)7.5
Others	177	203	222	284	278	248	240	(-)3.2
Total (1+2+3)	**40583**	**42877**	**45544**	**48854**	**53123**	**55237**	**55841**	**1.1**
Refinery Fuel@	2390	2606	2504	2454	2678	2706	2621	(-)3.1
GRAND TOTAL:	**42973**	**45483**	**48048**	**51308**	**55801**	**57943**	**58462**	**0.9**

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

PRODUCT-WISE SALES/CONSUMPTION OF PETROLEUM PRODUCTS DURING THE YEARS 1985-86 TO 1991-92(P)

(Qty. '000' Tonnes)

	PRODUCT	1985 -86	1986 -87	1987 -88	1988 -89	1989 90	1990 -91	1991 -92 (P)	% change 1991-92/ 1990-91
	1.	2.	3.	4.	5.	6.	7.	8.	9.
1.	**Light Distillates:**	**6776**	**7412**	**7547**	**8619**	**9412**	**9801**	**9988**	**1.9**
	L.P. Gas	1241	1497	1686	1962	2268	2415	2650	9.7
	Mogas	2275	2505	2810	3052	3491	3545	3573	0.8
	Naphtha	3106	3249	2852	3364	3350	3446	3334	- 3.3
	SBP/Haxane	54	64	66	86	112	134	142	6.0
	Others	100	97	128	155	191	261	289	10.7
2.	**Middle Distillates:**	**23948**	**25656**	**28005**	**29955**	**32484**	**33106**	**34398**	**3.9**
	Kerosene	6229	6645	7231	7731	8239	8423	8396	-0.3
	ATF/Jet A-1	1453	1603	1654	1713	1775	1677	1530	-8.8
	HSD	14886	16009	17657	18795	20706	21139	22679	+7.3
	LDO/MDO	1123	1156	1245	1437	1486	1506	1472	-2.3
	JBO	85	70	62	72	77	82	74	-9.8
	MTO	100	102	104	110	118	140	136	-2.9
	Others	72	71	52	97	83	139	111	-20.1
3.	**Heavy Ends:**	**10148**	**10594**	**10864**	**11518**	**12199**	**12128**	**12421**	**2.4**
	F.O./TDO	3806	3793	4191	4605	4490	4462	4927	10.4
	LSHS/HHS	4094	4254	3953	3851	4330	4524	4241	-6.3
	Fuel Oils (total)	7900	8047	8144	8456	8820	8986	9168	2.0
	Lubes & Greases	700	755	791	847	926	892	933	4.6
	Bitumen/Asphalt	1126	1309	1379	1498	1695	1581	1705	7.8
	Pet.Coke	163	208	246	316	383	290	266	-8.3
	Wax	76	82	81	106	116	117	114	-2.6
	Others	183	193	223	295	259	262	235	-10.3
	Total (1+2+3)	**40872**	**43662**	**46416**	**50092**	**54095**	**55035**	**56807**	**3.2**
	Refinery Fuel@	2491	2612	2522	2790	2684	2710	2629	-3.0
	GRAND TOTAL:	**43363**	**46274**	**48938**	**52882**	**56779**	**57745**	**59436**	**2.9**

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

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. 1960-61 TO 1991-92(P)

(Qty. '000' Tonnes)

YEAR		I.O.C	B.Shall/ BPCL	Esso/ HPCL	Caltex/@ HPCL(VMU)	IBP	Others	TOTAL
1.	2.	3.	4.	5.	6.	7.	8.	9.
1960-61	S/C	38	3722	2302	1270	155	498	7985
(E)	%	0.5	46.6	28.8	15.9	2.0	6.2	100
1965-66	S/C	2812	4270	2816	1390	168	461	11917
(E)	%	23.6	35.8	23.6	11.7	1.4	3.9	100
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
1983-84	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
1987-88	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(P)	S/C	32271	10688	10971		2498	379	56807
	%	56.8	18.8	19.3		4.4	0.7	100

S/C = Sales / Consumption E = Estimated

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

Source : M16 for the year 1991-92

DELIVERIES* MADE TO INTERNATIONAL/COASTAL BUNKERS DURING THE YEARS 1980-81 TO 1991-92

(Qty. '000' Tonnes)

ITEMS	1980 -81	1981 -82	1982 -83	1983 -84	1984 -85	1985 -86	1986 -87	1987 -88	1988 -89	1989 -90	1990 -91	1991- -92(P)
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
Shipping International Bunkers:												
F.O.	148.7	67.1	85.0	104.4	154.9	64.3	110.2	165.1	101.9	143.2	107.6	74.5
H.S.D.	15.4	16.8	14.5	17.0	12.4	10.1	6.4	12.0	7.2	8.6	10.7	11.5
L.D.O.	50.4	52.3	41.7	42.3	36.6	31.5	33.7	44.7	38.6	36.0	32.2	29.8
TOTAL	**214.5**	**136.2**	**141.2**	**199.7**	**203.9**	**105.9**	**150.3**	**221.8**	**147.7**	**187.8**	**150.5**	**115.8**
Coastal Bunkers:												
F.O.	128.9	149.6	172.2	142.0	143.2	167.7	197.6	200.0	200.0	208.4	208.0	194.4
H.S.D.	42.0	61.4	81.0	86.3	86.7	98.3	134.0	140.0	134.3	120.7	129.5	122.3
L.D.O.	32.4	36.8	47.8	47.1	49.0	39.9	35.6	32.6	38.3	38.0	34.2	34.0
TOTAL	**204.3**	**247.8**	**301.0**	**275.4**	**278.9**	**305.9**	**367.2**	**372.6**	**372.6**	**367.1**	**371.7**	**350.7**
Total Bunkers:												
F.O.	277.6	216.7	257.2	282.4	298.1	232.0	307.8	365.1	301.9	351.6	315.6	268.9
H.S.D.	58.4	78.2	95.5	103.3	99.1	108.4	140.4	152.0	141.5	129.3	140.2	133.8
L.D.O.	82.8	89.1	89.5	89.4	85.6	71.4	69.3	77.3	76.9	74.0	66.4	63.8
TOTAL	**418.8**	**384.0**	**442.2**	**475.1**	**482.8**	**411.8**	**517.5**	**594.4**	**520.3**	**554.9**	**522.2**	**466.5**

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

STATE-WISE CONUMPTION OF MAJOR PETROLEUM PRODUCTS DURING 1991-92 (PROV.)

(Including International Bunkers)

('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	14
A. States													
1. Andhra Pradesh	53	202	220	565	39	1875	31	166	92	52	--	149	**3444**
2. Arunachal Pradesh	-	2	9	13	2	39	Neg.	-	-	2	--	5	**72**
3. Assam	-	41	53	265	48	334	10	99	42	10	--	84	**986**
4. Bihar	87	70	136	469	7	1258	153	400	100	51	--	115	**2846**
5. Goa	266	14	24	31	24	117	5	88	51	4	--	48	**672**
6. Gujarat	664	234	283	779	35	1458	268	328	1547	50	--	412	**6058**
7. Haryana	-	82	112	153	24	852	47	320	134	22	--	60	**1806**
8. Himachal Pradesh	-	12	22	35	Neg.	115	2	4	4	3	--	11	**208**
9. Jammu & Kashmir	-	20	30	86	11	151	7	2	1	5	--	21	**334**
10. Karnataka	137	123	221	441	58	1148	22	239	82	36	--	72	**2579**
11. Kerala	177	92	144	256	26	745	10	153	165	25	--	181	**1974**
12. Madhya Pradesh	-	128	169	372	22	1344	18	259	57	46	--	137	**2552**
13. Maharashtra	568	502	576	1501	473	2691	326	915	1120	180	--	429	**9281**
14. Meghalaya	-	3	15	16	-	70	Neg.	Neg.	-	2	--	2	**108**
15. Manipur	-	5	10	20	1	25	-	-	-	1	--	3	**65**
16. Mizoram	-	2	5	7	-	14	-	Neg.	-	Neg.	--	-	**28**
17. Nagaland	-	3	11	10	1	20	-	Neg.	-	1	--	3	**49**
18. Orissa	92	23	55	155	12	471	17	239	35	16	--	82	**1197**
19. Punjab	48	108	207	328	68	1258	49	572	155	27	--	126	**2946**
20. Rajasthan	180	91	130	271	43	1333	31	69	130	30	--	125	**2433**
21. Sikkim	-	1	3	5	Neg.	5	Neg.	1	-	Neg.	--	1	**16**
22. Tamil Nadu	493	220	241	642	58	2097	53	621	255	67	--	270	**5017**
23. Tripura	-	3	6	20	2	30	-	Neg.	-	1	--	-	**62**
24. Uttar Pradesh	559	290	345	928	65	2979	145	120	170	91	-	278	**5970**
25. West Bengal	9	135	144	736	111	1321	195	236	65	59	--	311	**3322**
Total (A)	**3333**	**2406**	**3171**	**8104**	**1130**	**21750**	**1389**	**4831**	**4205**	**781**	**--**	**2925**	**54025**

Contd.....

STATE-WISE CONUMPTION OF MAJOR PETROLEUM PRODUCTS DURING 1991-92 (PROV.)
(Including International Bunkers)

('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	14
B. Union Territories													
1. Andaman & Nikobar	-	Neg.	2	4	4	34	Neg.	Neg.	-	Neg.	--	2	**46**
2. Chandigarh	-	15	29	29	19	37	4	3	5	2	--	42	**185**
3. Dadra & Nagar Haveli	-	Neg.	2	5	-	9	3	1	Neg.	Neg.	--	1	**21**
4. Daman & Diu	-	1	1	5	-	4	Neg.	1	-	Neg.	--	2	**14**
5. Delhi	1	221	356	231	379	747	61	76	29	60	--	98	**2259**
6. Lakshadweep	-	-	-	Neg.	-	4	-	Neg.	-	-	--	-	**4**
7. Pondicherry	-	6	9	13	-	80	6	11	-	1	--	4	**130**
Total (B)	**1**	**243**	**399**	**287**	**402**	**915**	**74**	**92**	**34**	**63**	**--**	**149**	**2659**
C. Outside Territories													
Bhutan	-	1	2	5	1	14	1	2	-	Neg.	--	5	**31**
Total (C)	**-**	**1**	**2**	**5**	**1**	**14**	**1**	**2**	**-**	**Neg.**	**--**	**5**	**31**
D. Adjustment (+)/(-)	**-**	**-**	**+1**	**-**	**(-)3**	**-**	**+2**	**+2**	**+2**	**-**	**--**	**+88**	**+92**
Grand Total(A+B+C+D)	**3334**	**2650**	**3573**	**8396**	**1530**	**22679**	**1466**	**4927**	**4241**	**844**	**--**	**3167**	**56807**

Note: Minor oil Companies Consumption has been shown in the Adjustment
Source: M5 Report.

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

(Kgs.)

State/ Territory	1980-81	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92(P)
A. STATES								
Andhra Pradesh	33.3	38.8	40.0	42.4	46.5	51.1	50.4	51.9
Arunachal Pradesh							76.9	84.3
Assam	26.6	33.7	35.4	37.7	40.5	42.9	46.2	44.2
Bihar	20.5	26.1	28.5	30.0	33.0	33.2	33.1	33.0
Goa							527.1	574.9
Gujarat	114.6	127.8	133.0	134.6	139.1	137.4	138.4	147.1
Haryana	64.7	80.0	88.2	94.4	86.5	99.3	104.2	110.7
Himachal Pradesh	19.9	24.7	27.0	31.5	35.0	37.1	36.4	40.6
Jammu & Kashmir	27.7	33.1	37.3	41.1	42.1	41.4	37.7	43.2
Karnataka	34.1	42.6	47.0	47.5	51.4	52.7	54.9	57.5
Kerala	44.9	48.5	52.0	54.9	60.3	60.6	65.9	68.0
Madhya Pradesh	21.6	31.7	32.8	35.0	38.3	39.7	37.2	38.6
Maharashtra	92.4	101.2	101.5	106.3	117.4	121.4	120.0	117.9
Manipur	29.2	30.6	32.7	35.7	41.7	38.1	34.5	35.6
Meghalaya	20.2	40.9	42.4	43.5	53.4	57.4	57.9	61.2
Mizoram							58.3	41.1
Nagaland	28.4	40.4	40.4	44.1	53.9	49.1	43.6	40.7
Orissa	20.5	26.5	27.5	30.4	33.2	35.1	35.7	38.0
Punjab	84.0	96.5	113.8	126.8	115.5	128.3	133.5	145.9
Rajasthan	31.8	39.4	42.1	43.2	55.9	56.4	51.6	55.4
Sikkim	36.7	38.9	33.3	26.2	38.1	30.2	37.2	40.7
Tamil Nadu	66.8	72.8	74.7	77.1	85.2	88.2	86.5	90.2
Tripura	13.1	18.8	20.6	23.5	27.2	30.4	24.0	22.5
Uttar Pradesh	23.1	31.8	34.8	35.9	39.7	41.7	40.0	43.0
West Bengal	39.8	45.1	45.9	47.6	51.2	52.5	50.4	48.9
B. OTHER AREAS								
Chandigarh	209.3	226.9	246.8	250.8	275.4	261.1	249.7	289.5
Delhi	187.6	214.9	216.6	229.9	236.0	257.1	243.5	241.1
Goa. (incl. Daman & Diu Dadra & Ngr.Haveli)	290.6	368.0	393.4	400.7	719.7	438.4	141.7*	146.4*
Others	52.0	69.5	79.1	83.5	92.9	114.5	155.5	160.7
TOTAL ALL-INDIA @	**48.2**	**55.9**	**59.7**	**62.0**	**63.7**	**69.1**	**68.4**	**70.4**

ESTIMATED PER CAPITA CONSUMPTION OF SELECTED PETROLEUM PRODUCTS - 1980-81 TO 1991-92 (INCL. BUNKERS).

(Kgs)

PRODUCT	1980-81	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92(P)
Naphtha	3.5	4.2	4.2	3.6	4.3	4.1	4.1	4.0
M.S.	2.3	3.0	3.2	3.6	3.9	4.2	4.2	4.2
SKO	6.3	8.3	8.6	9.1	9.8	10.0	10.0	9.9
HSDO	15.5	19.7	20.6	22.3	23.8	25.2	25.0	26.9
LDO	1.7	1.5	1.5	1.6	1.8	1.8	1.8	1.7
F.O. (Regular)	8.1	5.0	4.9	5.3	5.8	5.5	5.3	5.8
LSHS/HHS	3.1	5.3	5.5	5.0	4.9	5.3	5.4	5.0
TOTAL ALL-INDIA @ SALES CONSUMPTION	**48.2**	**57.3**	**59.3**	**62.0**	**63.7**	**69.1**	**68.4**	**70.4**

Note: i) Based on Expert Committee's population projections as on Ist March each year and projections 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 in 1983-84 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 1988-89 TO 1991-92.

(Qty.'000' Tonnes)

SECTOR	1988-89		1989-90		1990-91		1991-92	
	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.
			L.P. GAS:					
1. Domestic	1592	81.2	1810	79.8	1894	78.4	2133	80.5
2. Commercial/Industry	326	16.6	422	18.6	487	20.2	487	18.4
3. Others	44	2.2	36	1.6	34	1.4	30	1.1
TOTAL (1+2+3):	**1962**	**100.0**	**2268**	**100.0**	**2415**	**100.0**	**2650**	**100.0**
			NAPHTHA.					
1. Fertilizers	2395	71.2	1835	54.8	1842	53.5	1661	49.8
2. Petrochemicals	902	26.8	842	25.1	766	22.2	840	25.2
3. Others	67	2.0	673	20.1	838	24.3	833	25.0
TOTAL (1+2+3) :	**3364**	**100.0**	**3350**	**100.0**	**3446**	**100.0**	**3334**	**100.0**
			HSDO					
1. Transport								
i) Road Transport	-	-	1936	9.3	1864	8.8	1966	8.7
ii) Aviation	-	-	11	0.1	11	0.1	11	0.1
iii) Shipping	151	0.8	184	0.9	193	0.9	191	0.8
iv) Railways	1447	7.7	1455	7.0	1453	6.9	1461	6.4
v) Other Transport (incl.Agri.Retail Trade)	15224	81.0	14755	71.3	15292	72.3	16659	73.5
Sub-total (1) :	**16822**	**89.5**	**18341**	**88.6**	**18813**	**89.0**	**20288**	**89.5**
2. Plantation/Food								
i) Sugar Mills	56	0.3	69	0.3	99	0.5	96	0.4
ii) Others (incl. Plan. of Food)	94	0.5	201	1.0	219	1.0	250	1.1
Sub-total (2) :	**150**	**0.8**	**270**	**1.3**	**318**	**1.5**	**346**	**1.5**
3. Power Generation (utilities)	132	0.7	126	0.6	104	0.5	110	0.5
4. Industry								
i) Iron & Steel	56	0.3	63	0.3	69	0.3	73	0.3
ii) Textile & fibre	188	1.0	201	1.0	173	0.8	165	0.7
iii) Cement	188	1.0	154	0.7	155	0.7	165	0.7
iv) Ceramic & Glass	19	0.1	27	0.1	26	0.1	24	0.1
v) Chemicals & Allied	94	0.5	115	0.6	77	0.4	87	0.4
vi) Aluminium	3	Neg	4	Neg	3	Neg	4	Neg
vii) Mining & quarrying	545	2.9	569	2.7	556	2.6	552	2.4
viii) Engg. (Mech & Elec)	150	0.8	159	0.8	160	0.8	151	0.7
ix) Fertilizers	19	0.1	17	0.1	13	0.1	19	0.1
x) Other Industries & Construction	38	0.2	203	1.0	199	1.0	174	0.8
Sub-total (4)	**1300**	**6.9**	**1512**	**7.3**	**1431**	**6.8**	**1414**	**6.2**
5. Misc.Services (incl. DGS&D)	391	2.1	457	2.2	473	2.2	521	2.3
Total (1+2+3+4+5)	**18795**	**100.0**	**20706**	**100.0**	**21139**	**100.0**	**22679**	**100.0**

ESTIMATED SECTOR-WISE (END-USE) INDUSTRY CONSUMPTION OF LDO, FO(Regular) & LSHS/HHS DURING 1988-89 TO 1991-92.

(Qty.'000' Tonnes)

SECTOR	1988-89 Consum-ption	1988-89 % to Total	1989-90 Consum-ption	1989-90 % to Total	1990-91 Consum-ption	1990-91 % to Total	1991-92 Consum-ption	1991-92 % to Total
1.	2.	3.	4.	5.	6.	7.	8.	9.
				LDO				
1. Transport								
i) Road Transport			2	0.1	1	0.1	1	0.1
ii) Aviation			1	0.1	1	0.1	1	0.1
iii) Shipping	78	5.4	76	5.1	67	4.5	61	4.1
iv) Railways	11	0.8	5	0.3	4	0.2	3	0.2
v) Other Transport (incl. Agr.Retail Trade)	7	0.5	14	0.9	13	0.9	14	1.0
Sub - Total : 1	**96**	**6.7**	**98**	**6.5**	**86**	**5.8**	**80**	**5.5**
2. Plantation/Food (incl. Processing)								
i) Sugar Mills	1	0.1	2	0.1	4	0.2	1	0.1
ii) Others (incl. Plan & Food)	33	2.3	35	2.4	37	2.5	36	2.4
Sub - Total : 2	**34**	**2.4**	**37**	**2.5**	**41**	**2.7**	**37**	**2.5**
3. Power Generation (utilities)	346	24.1	325	22.0	282	18.8	230	15.7
4. Industry								
i) Iron & steel	43	3.0	45	3.0	51	3.4	46	3.1
ii) Textile & Fibre	40	2.8	39	2.6	44	2.9	46	3.1
iii) Cement	10	0.7	8	0.5	10	0.7	14	1.0
iv) Ceramic & Glass	47	3.3	49	3.3	51	3.4	55	3.8
v) Chemicals & Allied	119	8.3	110	7.4	129	8.6	128	8.7
vi) Aluminium	6	0.4	10	0.7	6	0.4	12	0.8
vii) Mining & quarrying	9	0.6	10	0.7	10	0.7	10	0.7
viii) Engg. (Mech & Elec)	109	7.6	112	7.6	128	8.5	120	8.2
ix) Fertilizers	7	0.5	7	0.5	6	0.4	6	0.4
x) Other Industries & Construction	214	14.9	187	12.7	203	13.5	210	14.3
Sub - Total . 4	**604**	**42.0**	**577**	**39.0**	**638**	**42.5**	**647**	**44.1**
5. Misc.Services (incl. DGS&D)	357	24.8	443	30.0	454	30.2	472	32.2
TOTAL : (1+2+3+4+5)	**1437**	**100.0**	**1480**	**100.0**	**1501**	**100.0**	**1466**	**100.0**
				F.O.(Regular)				
1. Transport								
i) Road Transport			9	0.2	45	1.0	8	0.2
ii) Aviation			3	0.1	4	0.1	1	Neg
iii) Shipping	281	6.1	346	7.7	300	6.7	245	5.0
iv) Railways	32	0.7	24	0.5	22	0.5	21	0.4
v) Other Transport (Incl. Agr. Retail Trade)	147	3.2	79	1.8	76	1.7	76	1.5
Sub - Total : 1	**460**	**10.0**	**461**	**10.3**	**447**	**10.0**	**351**	**7.1**
2. Plantation/Food (incl. Processing)								
i) Sugar Mills	14	0.3	14	0.3	14	0.3	18	0.4
ii) Others (incl.Plan.& Food)	152	3.3	147	3.3	122	2.8	146	2.9
Sub - Total : 2	**166**	**3.6**	**161**	**3.6**	**136**	**3.1**	**164**	**3.3**
3. Power Generation (utilities)	617	13.4	692	15.4	531	11.9	527	10.7

Contd.....

ESTIMATED SECTOR-WISE (END-USE) INDUSTRY CONSUMPTION OF LDO, FO (Regular) and LSHS/HHS DURING 1988-89 TO 1991-92.

(Qty. '000' Tonnes)

SECTOR	1988-89		1989-90		1990-91		1991-92	
	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.
F.O. (Regular) Contd.....								
4. Industry								
i) Iron & steel	267	5.8	310	6.9	311	7.0	363	7.4
ii) Textile & Fibre	276	6.0	333	7.4	289	6.5	318	6.5
iii) Cement	46	1.0	51	1.1	64	1.5	78	1.6
iv) Ceramic & Glass	92	2.0	70	1.6	73	1.6	87	1.8
v) Chemicals & Allied	640	13.9	591	13.2	613	13.7	636	12.9
vi) Aluminium	101	2.2	88	2.0	95	2.1	114	2.3
vii) Mining & quarrying	64	1.4	74	1.6	55	1.2	43	0.9
viii) Engg. (Mech & Elec)	152	3.3	151	3.4	146	3.3	140	2.8
ix) Fertilizers	1137	24.7	841	18.7	1058	23.7	1403	28.5
x) Other Industries & Construction	417	9.0	468	10.4	446	10.0	504	10.2
Sub-Total : 4	**3192**	**69.3**	**2977**	**66.3**	**3150**	**70.6**	**3686**	**74.9**
5. Misc.Services (incl.DGS&D)	170	3.7	199	4.4	198	4.4	199	4.0
TOTAL : (1+2+3+4+5)	**4605**	**100.0**	**4490**	**100.0**	**4462**	**100.0**	**4927**	**100.0**
LSHS/HHS								
1. Transport	4	0.1	8	0.2	13	0.3	39	0.9
2. Plantation/Food (incl. Processing)								
i) Sugar Mills	1	Neg	2	Neg	2	0.1	1	Neg
ii) Others (incl.Plan.& Food)	34	0.9	42	1.0	47	1.0	28	0.7
Sub - Total : 2	**35**	**0.9**	**44**	**1.0**	**49**	**1.1**	**29**	**0.7**
3. Power Generation (utilities)	1571	40.8	1630	37.6	1835	40.6	1781	42.0
4. Industry								
i) Iron & steel	189	4.9	181	4.2	174	3.8	170	4.0
ii) Textile & Fibre	177	4.6	237	5.5	332	7.3	293	6.9
iii) Cement	27	0.7	33	0.8	42	0.9	36	0.8
iv) Ceramic & Glass	89	2.3	113	2.6	136	3.0	122	2.9
v) Chemicals & Allied	504	13.1	395	9.1	360	8.0	310	7.3
vi) Aluminium	54	1.4	83	1.9	62	1.4	33	0.8
vii) Mining & quarrying	23	0.6	28	0.6	14	0.3	4	0.1
viii) Engg. (Mech & Elec)	23	0.6	29	0.7	40	0.9	40	0.9
ix) Fertilizers	951	24.7	1298	30.0	1184	26.2	1046	24.7
x) Other Industries & Construction	196	5.1	232	5.4	261	5.8	284	6.7
Sub - Total : 4	**2233**	**58.0**	**2629**	**60.8**	**2605**	**57.6**	**2338**	**55.1**
5. Misc. Services (incl. DGS&D)	8	0.2	19	0.4	22	0.4	54	1.3
TOTAL : (1+2+3+4+5)	**3851**	**100.0**	**4330**	**100.0**	**4524**	**100.0**	**4241**	**100.0**

CONSUMPTION OF DIESEL OIL IN INDIAN RAILWAYS DURING 1960-61 TO 1991-92.

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(P)	3905	1731473	443.4

Source : Railway Board (P) : Provisional

INDUSTRY/PLANT-WISE OFFTAKE OF NAPHTHA

(Qty. '000' Mts)

Category and Plant	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92(P)
1	2	3	4	5	6	7	8
I. Fertilizer Plants:							
Madras Fertilizer Ltd.	209	234	105	205	196	201	206
HFC, Durgapur	88	94	95	55	41	74	95
FCI, Gorakhpur	95	98	88	108	98	22	0
HFC, Barauni	151	115	131	99	73	101	71
SFC, Kota	172	158	139	152	166	176	169
ICI, kanpur	290	305	253	292	319	254	291
RFP, Rourkela	84	82	75	99	103	105	93
GSFC, Baroda	130	125	118	126	132	128	119
FACT, Cochin	95	123	105	138	112	129	121
ZAC, Goa	220	227	224	212	220	238	265
IFFCO, Phulpur	205	251	216	299	264	348	256
IFFCO, Kalol	42	46	49	47	44	55	62
MCFL, Manglore	127	162	103	151	111	140	137
SPIC, Tuticorin	260	270	234	269	270	261	287
GNFC, Bharuch	1	1	NEG.	NEG.	NEG.	1	NEG.
FACT, Alwaye	62	65	61	76	61	56	57
FCI, Bombay	-	-	13	--	--	--	-
Coromandal Ferts.Vizag	84	73	66	66	64	76	67
NFL Nangal					16	49	48
Others	45	59	--	--	8	2	1
Sub-Total Fertilizer	**2360**	**2488**	**2075**	**2392**	**2298**	**2416**	**2345**
II. Petrochemical Plants:							
BRPL, Bongaigaon	3	-	24	16	25	21	17
HCC, Rasayani	4	4	4	4	-	-	-
IPCL, Baroda	406	444	451	455	417	416	464
NOCIL, Bombay	222	259	264	299	287	275	272
RCF, (Mathanol) Bombay	14	13	-	15	9	4	0
UCIL, Bombay	69	4	-	-	-	-	-
Rama Petro Chemicals	-	-	-	48	41	44	33
Reliance Ind. Ltd.	-	-	-	59	179	182	185
National Peroxide					2	2	2
Oswal Agro					19	71	61
Others	-	-	-	1	-	2	2
Sub-Total (Petro-Chem.)	**718**	**724**	**743**	**897**	**979**	**1017**	**1036**
III. Others.							
HOC Rasayani	-	-	-	-	5	5	5
FCI Talchar	-	-	-	4	2	0.0	-
DESU	-	-	-	56	59	0.0	1
BSL, Bhilai etc.	28	37	34	11	2	0.0	-
HCL, Khetri	-	-	-	4	4	4	5
Others						5	34
Sub-Total (others)	**28**	**37**	**34**	**75**	**72**	**14**	**45**
GRAND TOTAL: (I + II + III)	**3106**	**3249**	**2852**	**3364**	**3349**	**3447**	**3426**

Source: Industry Performance Review, March, 1992. P : Provisional

PLANT/CUSTOMER-WISE OFFTAKE OF FO/LSHS

(Qty. '000' Tonnes)

Category and Plant	1988-89	1989-90	1990-91	1991-92(P)
	(I) POWER			
A. Northern:				
OBRA Thermal	20.7	22.9	19.9	28.0
HSEB Hardwaganj	8.3	0.0	6.3	3.7
BTPS Bhadrapur	20.3	20.8	20.7	18.2
GNTP Bhatinda	11.2	16.5	3.9	2.6
TPS Paricha	4.5	6.4	6.5	5.8
TPS Singaroli	8.4	22.2	5.4	1.5
TPS Rihand	-	5.6	19.7	4.1
TPS Kota	-	51.9	36.3	22.7
DESU Delhi BPC	36.0	37.5	39.7	50.8
Faridabad	-	3.6	2.7	3.5
TPS Ropar	26.4	37.4	11.3	15.1
TPS Panipat	30.9	35.2	38.0	41.8
HWP Rawatbhatta	-	-	9.1	31.4
Sub-total (A)	**166.7**	**260.0**	**219.5**	**229.2**
B. Eastern:				
ASEB Chandrapura	40.4	73.3	71.1	70.2
CTPS Chadrapur	23.0	34.2	36.1	38.3
DTPS Durgapur	-	0.0	0.0	2.8
DPL Durgapur	1.5	0.0	0.0	0.0
NTPC Farrakka	11.3	0.0	0.0	0.0
BTPS Barauni	31.3	23.4	23.8	18.2
NTPC Kanti (Muzzafarpur)	4.0	0.0	0.0	0.0
TPS Patratu	8.0	0.0	0.0	0.0
TTPS Talcher	11.4	9.4	7.6	7.2
BTPS Salakati	-	28.2	24.8	39.1
Sub-Total (B)	**130.9**	**168.5**	**163.4**	**175.8**
C. Western:				
DPH Dhuwaran	710.8	750.2	756.2	726.7
GEB Ukai	29.6	6.9	16.6	26.3
GEB Gandhinagar	36.2	16.7	13.0	21.4
AECO Sabarmati	15.9	13.4	0.0	5.9
GEB Wanakbari	56.9	44.5	55.0	80.7
MPEB Sarani	87.0	139.1	107.5	71.5
MSEB Koradi	42.5	39.1	24.0	28.7
MSEB Chandrapur	24.6	18.7	14.8	16.6
MPEB Darri	16.9	11.3	13.5	18.8
MSEB Nasik	41.0	24.9	29.9	17.5
TPS Bhusawal	24.7	15.8	12.4	6.4
TPS Paras	1.8	2.2	1.9	0.9
MPEB Parli	22.1	52.1	34.5	14.8
NTPC Korba	50.6	33.0	21.3	16.8
MPEB Korba	29.3	22.2	19.1	18.5
GEB Kandla	6.7	-	-	-
TATA Thermal	543.0	554.4	718.3	640.6
MPEB Chachai	12.9	12.1	14.6	11.6.
NTPC Waidhan	-	22.6	23.0	28.7
MSEB Khaparkheda	-	0.0	13.9	16.0
Sub-Total (C)	**1752.5**	**1779.2**	**1889.5**	**1768.4**

Contd....

PLANT/CUSTOMER-WISE OFFTAKE OF FO/LSHS

(Qty. '000' Tonnes)

Category and Plant	1988-89	1989-90	1990-91	1991-92(P)
D. Southern:				
TTPS Tuticorin	10.9	12.2	11.2	18.6
KTPS Polancha	7.1	11.2	5.1	10.6
RTPS Raichur	4.5	3.1	3.6	0.0
MTPS Mettur Dam	17.6	27.1	13.4	9.0
NTPC Ramagundam	23.3	34.7	26.0	10.3
ETPS Ennore	9.8	8.8	7.6	4.0
NLC Thermal	-	0.0	9.5	39.8
HWP Manuguru	-	-	8.7	7.8
Sub-Total (D)	**73.2**	**97.1**	**85.1**	**100.1**
Total : Power (A+B+C+D)	**2123.3**	**2304.8**	**2357.5**	**2273.5**
	(II) Fertilizer Plants:			
A. Northern:				
NFL Nangal	270.6	287.1	294.1	296.1
NFL Bhatinda	260.4	302.0	248.0	322.1
NFL Panipat	277.2	301.2	315.7	296.5
IFFCO Phulpur	24.5	21.6	18.7	29.9
SFC Kota	-	-	0.0	27.0
Sub-Total (A)	**832.7**	**911.9**	**876.5**	**971.6**
B. Eastern:				
HFC Holida	-	0.0	0.0	0.0
HFC Durgapur	10.2	8.3	18.0	18.1
FCI Sindri	204.9	193.0	169.5	163.0
HFC Barauni	10.5	25.5	24.0	23.6
FCI Talcher	8.8	8.7	11.4	11.8
Sub-Total (B)	**234.4**	**235.5**	**222.9**	**216.5**
C. Western:				
ZAC Goa	79.6	80.6	92.5	98.0
IFFCO Kalol	36.2	34.9	37.4	36.4
GSFC Baroda	71.1	78.4	115.9	122.5
GNFC Bharuch	408.4	438.2	414.9	498.0
Sub-Total (C)	**595.3**	**632.1**	**660.7**	**754.9**
D. Southern:				
MFL Madras	77.8	78.2	83.3	77.7
MCFL Mangalore	44.6	54.3	70.4	70.7
FACT Cochin	97.6	92.0	101.7	110.5
NLC Neyveli	100.1	108.6	69.9	88.1
SPIC Tuticorin	185.2	193.0	173.0	187.8
FCI Ramagundam	11.4	11.5	12.4	15.6
Coramandal Fert.	36.9	33.1	36.3	34.8
Sub-Total (D)	**553.6**	**570.7**	**547.0**	**585.2**
Total:Fertilizer (A+B+C+D)	**2216.0**	**2350.2**	**2307.1**	**2528.2**

Contd.....

PLANT/CUSTOMER-WISE OFFTAKE OF FO/LSHS

(Qty. '000' Tonnes)

Category and Plant	1988-89	1989-90	1990-91	1991-92(P)
		(III) Petrochemical Plants		
C. Western:				
IPCL Baroda	253.4	103.3	41.3	34.1
NOCIL Bombay	0.9	0.0	0.2	0.0
Reliance Industry,Bombay	22.5	154.2	155.4	146.1
Sub-Total (C)	**276.8**	**257.5**	**196.9**	**180.2**
D. Southern:				
FACT Udyogmandal	-	0.3	54.6	4.6
TNPL Madras	24.5	40.2	48.8	43.9
Mysore Petrochemicals	-	-	-	-
Sub-Total (D)	**24.5**	**40.5**	**103.4**	**48.5**
Total:Petrochemical (C+D)	**301.3**	**298.0**	**300.3**	**228.7**
		(IV) Steel Plants		
B. Eastern:				
TISCO Burnapur	3.0	1.5	1.4	0.0
RSP Rourkela	84.1	85.7	66.2	80.9
DSP Durgapur	94.5	73.2	67.2	66.7
ASP Durgapur	17.0	22.5	24.1	12.5
PCBL Durgapur	-	-	-	-
TISCO Jamshedpur	64.2	59.8	47.2	58.6
BSP Bokaro	21.8	49.6	65.3	99.4
BASL Patratu	3.4	5.0	2.1	1.2
HCL Ghatsila	2.3	9.0	5.5	8.8
Sub-Total (B)	**290.3**	**306.3**	**279.0**	**328.1**
C. Western:				
HSL Bhillai	37.1	35.5	23.0	25.9
SAIL Bhillai	8.8	-	-	-
Sub-Total (C)	**45.9**	**35.5**	**23.0**	**25.9**
D. Southern				
S.Viscose	-	-	27.7	21.3
Vizag Steel Plant	-	-	28.8	11.4
FACT ASCL	-	-	22.5	16.8
Sub-Total (D)	-	-	79.0	49.5
Total Steel Plants (B+C+D)	336.2	341.8	381.0	403.5
		(V) Others		
A. Northern:				
Hindalco	23.6	17.2	28.3	30.5
Sub-Total (A)	**23.6**	**17.2**	**28.3**	**30.5**
B. Eastern:				
IRE Chatrapur	9.2	10.3	3.5	0.0
NELCO Damanjodi	11.4	77.2	23.9	43.4
OCL Rajgangapur	12.9	13.1	11.3	6.8
TELCO Jamshedpur.	4.3	10.9	11.4	10.2
Sub-Total (B)	**37.8**	**111.5**	**50.1**	**60.4**

Contd.....

PLANT/CUSTOMER-WISE OFFTAKE OF FO/LSHS

(Qty. '000' Tonnes)

Category and Plant	1988-89	1989-90	1990-91	1991-92(P)
C. Western:				
HOC Rasayani	11.8	12.0	14.5	14.1
Sub-Total (C)	**11.8**	**12.0**	**14.5**	**14.1**
D. Southern:				
INDAL BELGAUM	-	-	13.3	0.0
TEX MACO	-	-	0.0	0.0
Ballarpur Indus	-	-	3.4	0.0
Nelco Angul	-	-	12.1	2.5
Chem. Plast	-	-	0.0	21.6
HOC, Cochin	17.3	12.9	3.2	2.3
Kudramukh Iron & Ore Company	0.4	47.6	44.3	36.2
Sub-Total (D)	**17.7**	**60.5**	**76.3**	**62.6**
Total others(A+B+C+D)	**90.9**	**201.2**	**169.2**	**167.6**
	(VI)	**General Trade**		
A. Northern Region	528.6	529.9	533.7	569.5
B. Eastern Region	448.9	384.2	471.1	425.6
C. Western Region	1524.0	1465.0	1573.0	1592.0
D. Southern Region	886.7	945.0	893.0	943.3
Total:General Trade (A+B+C+D)	**3388.2**	**3324.1**	**3470.8**	**3530.4**
GRAND TOTAL (I+II+III+IV+V+VI)	**8455.9**	**8820.1**	**8985.9**	**9131.9**

P : Provisional Source : Industry Performance Review.

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 1989-90.

STATE/UT	Gas Stations			Diesel & Wind Station		
	Natural Gas(Mn. Cub. Mtrs)	Oil (Kl)	Genera-tion (GWH)	Diesel Oil (Kl)	Genera-tion (GWH)	Average Oil Consumption (Lts/KWH)
1.	2.	3.	4.	5.	6.	7.
Assam	195.24	-	425.20	-	-	-
Gujarat	50.75	-	65.04	120	0.31+1.86(W)	0.39
Himachal Pradesh	-	-	-	-	-	-
Manipur	-	-	-	2500(E)	7.86	0.32
Nagaland	-	-	-	1389(E)	6.50	0.21
Sikkim	-	-	-	200(E)	0.53	0.38
Tripura	22.39	-	36.34	574	1.64	0.35
West Bengal	-	20201	44.31	250(E)	0.49	0.51
Maharashtra	864.83	-	2475.73	-	-	-
Tamil Nadu	-	-	-	-	4.25(W)	-
Jammu & Kashmir	10(E)	-	47.00	-	-	-
D.V.C.	-	18000	61.64	-	-	-
Goa	-	-	-	-	0.06(W)	-
UNION TERRITORIES						
A & N Islands	-	-	-	12796	35.11	0.36
Arunachal Pradesh	-	-	-	2300(E)	10.51	0.22
Chandigarh	-	-	-	-	-	-
Lakshadweep	-	-	-	3133	8.33	0.38
Delhi	98+0.97+93*	-	510.01	-	-	-
Mizoram	-	-	-	5517	13.69	0.40
Central Sector	890.00	-	2297.00	-	-	-
All India Total	**2131.21+ 93.97 ***	**38201**	**5962.27**	**28779**	**84.97+ 6.17(W)**	**0.34**

(E) = Estimated * : HSD / Naphtha (W) :Windmill generation

SOURCE : Central Electricity Authority.

STATE WISE CONSUMPTION OF FOSSIL FUELS FOR ELECTRICITY GENERATION FROM THERMAL POWER STATIONS IN INDIA DURING 1989-90.

STATE/UT	Consumption in Steam Power Stations						Heat Input (K.Cal x 10^9)	Gross Generation (GWH)	Average Heat Input (K.Cal/KWH)
	Fuel Coal	Lignite	FO	HSD/ LDO	LSHS/ HHS	Natural Gas (MCM)			
	<---'000' Tonnes --->		<---------- '000' KL---------->						
1	2	3	4	5	6	7	8	9	10
Andhra Pradesh	5461	-	13	4+225*	-	-	18690.00	7221.77	2588
Assam	281	-	62	2	50	-	2443.34	721.95	3384
Bihar	3125	-	-	107	27	-	12217.60	3669.27	3330
Gujarat	9596	-	779	7	63	134.90	50947.96	18668.25	2729
Haryana	2008	-	4	6	42	-	9690.57	2380.43	4071
Karnataka	2012	-	3	Neg.	-	-	6552.64	2826.54	2318
Madhya Pradesh	9744	-	129	24	51	-	35834.28	12464.25	2875
Maharashtra	15953	-	97	27+341*	601	710TMT(B)	77339.90	27077.87	2856
Orissa	1235	-	10	5	-	-	5168.38	1458.37	3544
Punjab	4433	-	61	3	-	-	18864.81	6514.14	2896
Rajasthan	1607	-	57	3	-	-	5453.73	2488.57	2192
Tamil Nadu	6406	-	39	4	11	-	23398.82	8514.51	2748
Uttar Pradesh	11021	-	56	43	2(A)	-	38175.90	13804.52	2765
West Bengal	5327	-	57	24	-	-	28195.25	8374.20	3367
Central Sector	28304	9399	168	10	-	-	132087.77	49871.73	2649
D.V.C.	3749	-	127		-	-	18841.24	5096.82	3697
UNION TERRITORIES									
A & N Islands	-	-	-	-	-	-	-	-	-
Delhi	996	-	60	3	-	-	5033.51	1489.85	3379
All India Total	**111258**	**9399**	**1722**	**272+566***	**847**	**134.90+ 710TMT(B)**	**488935.70**	**172643.04**	**2832**

* : Superior Kerosene Oil (in Kl).
(B) : Refinery Gas.
Source : Central Electricity Authority.

(A) : HPS - Heavy Petroleum Stock.
Neg. : Negligible
TMT : Thousand Metric Tonnes.

XII. FOREIGN TRADE

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS 1970 TO 1991

(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	5432.41
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(P)	20793	5929.62	7454	3541.64	28247	9471.26
1991(P)	21813	6827.56	9746	5600.96	31559	12428.52
			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	389.32	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(p)	-	-	2605	941.40	2605	941.40
1991(P)	-	-	2477	1041.13	2477	1041.13
			NET IMPORTS			
1970	11665	102.36	558	24.81	12223	127.17
1975	13600	992.02	2125	185.63	15725	1177.65
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(P)	20793	5929.62	4849	2600.24	25642	8529.86
1991(P)	21813	6827.56	7269	4559.83	29082	11387.39

(P) Provisional.

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS 1970-71 TO 1991-92.

(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	17732	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(P)	20699	6118.42	8660	4660.21	29359	10778.63
1991-92(P)	23994	7820.05	9445	5218.27	33439	13038.32
			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(P)	--	--	2648	1003.92	2648	1003.92
1991-92(P)	--	--	2936	1214.65	2936	1214.65
			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(P)	20699	6118.42	6012	3656.29	26711	9774.71
1991-92(P)	23994	7820.05	6509	4003.62	30503	11823.67

P = Provisional

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS

1985 TO 1991

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

ITEM	985		986		987		988		989		990 (P)		99 (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	14811	3808.74	14481	2069.65	17977	3105.25	17712	2811.28	18919	3718.63	20793	5929.62	21813	6827.57
B. Petroleum Products														
I. Light Distillates	**175**	**57.45**	**37**	**7.25**	**116**	**35.63**	**215**	**64.10**	**294**	**91.80**	**346**	**147.67**	**265**	**185.45**
1. Naphtha	100	30.42	17	1.85	16	3.89	--	--	--	--	--	--	--	--
2. Others	75	27.03	20	5.40	100	31.74	215	64.10	294	91.80	346	147.67	265	185.45
II. Middle Distillates	**3913**	**1275.03**	**3083**	**710.14**	**3346**	**765.77**	**4551**	**1000.41**	**5854**	**1818.79**	**6826**	**3186.89**	**9039**	**4871.63**
1. ATF	121	40.25	150	30.32	26	6.23	78	17.78	213	69.19	94	31.09	24	10.10
2. SKO	2466	824.41	2078	496.06	2215	512.00	2407	552.80	2685	870.57	2953	1549.02	3495	1993.84
3. HSDO	1326	410.37	855	183.76	1101	245.81	2066	429.83	2956	879.03	3779	1606.78	5520	2867.69
4. LDO	--	--	--	--	--	--	--	--	--	--	--	--	--	--
III. Heavy Ends	**204**	**108.22**	**242**	**100.67**	**197**	**83.29**	**788**	**208.85**	**341**	**195.74**	**282**	**207.08**	**418**	**476.47**
1. FO	20	4.39	--	--	--	--	465	52.19	--	--	--	--	--	--
2. Lubes	184	103.75	218	80.36	184	70.81	303	134.51	321	174.57	262	178.56	371	424.93
3. Waxes	Neg.	0.08	24	21.31	13	12.48	20	22.15	20	21.17	20	28.52	21	42.21
4. Others	--	--	--	--	--	--	--	--	--	--	--	--	26	9.33
Total (B)	**4292**	**1440.70**	**3362**	**818.06**	**3659**	**884.69**	**5554**	**1273.36**	**6489**	**2106.33**	**7454**	**3541.64**	**9722**	**5533.55**
Grand Total (A+B)	**19103**	**5249.44**	**17843**	**2887.71**	**21636**	**3989.94**	**23266**	**4084.64**	**25408**	**5824.96**	**28247**	**9471.26**	**31535**	**12361.12**
EXPORTS @														
A. Crude Oil	2044	503.88	--	--	--	--	--	--	--	--	--	--	--	--
B. Petroleum Products														
I. Light Distillates	**1448**	**410.58**	**2200**	**336.65**	**2637**	**532.11**	**2024**	**410.78**	**2384**	**627.07**	**2247**	**840.87**	**1906**	**828.47**
1. Naphtha	1433	404.19	2184	330.19	2619	527.08	2002	403.87	2014	560.14	1608	617.27	1234	549.66
2. Others	15	6.39	16	6.46	18	5.03	22	6.91	310	66.93	639	223.60	672	278.81
II. Middle Distillates	**128**	**46.55**	**146**	**47.90**	**172**	**44.91**	**193**	**55.86**	**60**	**17.28**	**85**	**35.44**	**221**	**137.58**
1. HSD/LDO	67	22.81	75	24.22	88	22.42	99	27.67	28	8.16	43	16.93	124	74.26
2. Others	61	23.74	71	23.68	84	22.49	94	28.19	32	9.12	42	18.51	97	63.32
III. Heavy Ends	**119**	**24.93**	**18**	**4.77**	**646**	**85.05**	**50**	**6.21**	**87**	**10.49**	**273**	**65.09**	**350**	**75.08**
1. FO	110	21.97	16	3.76	644	84.02	49	5.43	84	9.52	272	64.82	347	73.08
2. Others	9	2.96	2	1.01	2	1.03	1	0.78	3	0.97	1	0.27	3	2.00
Total (B)	**1695**	**482.06**	**2364**	**389.32**	**3455**	**662.07**	**2267**	**472.85**	**2531**	**654.84**	**2605**	**941.40**	**2477**	**1041.13**
Grand Total (A+B)	**3739**	**985.94**	**2364**	**389.32**	**3455**	**662.07**	**2267**	**472.85**	**2531**	**654.84**	**2605**	**941.40**	**2477**	**1041.13**
NET IMPORTS														
A. Crude Oil	12767	3304.86	14481	2069.65	17977	3105.25	17712	2811.28	18919	3718.63	20793	5929.62	21813	6827.57
B. Petroleum Products	2597	958.64	998	428.74	204	222.62	3287	800.51	3958	1451.49	4849	2600.24	7245	4492.42
Total (Net Imports)	**15364**	**4263.50**	**15479**	**2498.39**	**18181**	**3327.87**	**20999**	**3611.79**	**22877**	**5170.12**	**25642**	**8529.86**	**29058**	**11319.99**

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

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS
During 1986-87 To 1991-92

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

ITEM	1986-87		1987-88		1988-89		1989-90		1990-91		1991-92*	
	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	**15476**	**2120.19**	**17732**	**2986.31**	**17815**	**2861.08**	**19490**	**4089.35**	**20699**	**6118.42**	**23994**	**7820.05**
B. Pol. Products												
I. Light Distillates	**55**	**9.90**	**169**	**50.26**	**245**	**71.79**	**310**	**103.34**	**334**	**164.26**	**262**	**200.37**
1. Naphtha	33	5.73	-	-	-	-	-	-	-	-	-	-
2. LPG	22	4.17	149	44.98	241	70.26	302	98.07	329	160.26	215	148.38
3. Others	-	-	20	5.28	4	1.53	8	5.27	5	4.00	47	51.99
II. Middle Distillates	**2758**	**550.29**	**3767**	**878.67**	**5469**	**1271.69**	**5912**	**1941.18**	**8047**	**4253.60**	**8720**	**4485.25**
1. ATF	108	18.08	39	9.64	43	11.21	268	87.98	27	7.98	24	10.10
2. SKO	1900	383.78	2287	547.49	2924	709.08	2596	888.78	3340	1963.37	3367	1824.50
3. HSD	750	148.43	1425	317.97	2502	551.40	3048	964.42	4680	2282.25	5329	2650.65
III. Heavy Ends	**234**	**92.50**	**246**	**98.96**	**781**	**216.36**	**342**	**210.19**	**279**	**242.35**	**463**	**532.65**
1. Furnace Oil	-	-	-	-	465	53.58	-	-	-	-	-	-
2. Lubes	219	80.64	231	85.31	292	135.81	322	183.24	256	207.91	412	467.75
3. Waxes	15	11.86	15	13.65	24	26.97	20	26.95	23	34.44	25	55.56
4. R.P. Coke	-	-	-	-	-	-	-	-	-	-	26	9.34
TOTAL(B)	**3047**	**652.69**	**4151**	**1024.32**	**6495**	**1559.84**	**6564**	**2254.71**	**8660**	**4660.21**	**9445**	**5218.27**
GRAND TOTAL(A+B)	**18523**	**2772.88**	**21883**	**4010.63**	**24310**	**4420.92**	**26054**	**6344.06**	**29359**	**10778.63**	**33439**	**13038.32**
EXPORTS @@												
A. Crude Oil**	-	-	-	-	-	-	-	-	-	-	-	-
B. Pol. Products												
I. Light Distillates	**2237**	**353.07**	**2637**	**522.94**	**2067**	**456.67**	**2378**	**668.41**	**2124**	**847.90**	**2117**	**944.18**
1. Naphtha	2220	347.07	2618	517.59	1984	440.87	1932	561.91	1520	621.87	1423	644.30
2. Others	17	6.00	19	5.35	83	15.80	446	106.50	604	226.03	694	299.88
II. Middle Distillates	**154**	**45.77**	**176**	**46.21**	**215**	**63.17**	-	-	**161**	**65.96**	**232**	**161.02**
1. HSD/LDO	80	23.30	89	22.20	100	28.98	-	-	82	31.54	125	86.00
2. Others	74	22.47	87	24.01	115	34.19	-	-	79	34.42	107	75.02
III. Heavy Ends	**100**	**12.39**	**599**	**79.60**	**13**	**3.79**	**215**	**27.15**	**363**	**90.06**	**587**	**109.45**
1. FO/LSHS	99	11.68	598	78.71	10	2.12	215	27.15	357	88.50	583	106.93
2. Others	1	0.71	1	0.89	3	1.67	-	-	6	1.56	4	2.52
TOTAL(B)	**2491**	**411.23**	**3412**	**648.75**	**2295**	**523.63**	**2593**	**695.56**	**2648**	**1003.92**	**2936**	**1214.65**
GRAND TOTAL(A+B)	**2491**	**411.23**	**3412**	**648.75**	**2295**	**523.63**	**2593**	**695.56**	**2648**	**1003.92**	**2936**	**1214.65**
NET IMPORTS												
A. Crude Oil	15476	2120.19	17732	2986.31	17815	2861.08	19490	4089.35	20699	6118.42	23994	7820.05
B. Pol. Products	557	241.47	739	375.57	4200	1036.21	3971	1559.15	6012	3656.29	6509	4003.62
GRAND TOTAL	**16033**	**2361.66**	**18471**	**3361.88**	**22015**	**3897.29**	**23461**	**5648.50**	**26711**	**9774.71**	**30503**	**11823.67**

* = Provisional. @ : Includes NOC Imports. @@ : Includes supplies of POL Products of Nepal.

** : Including export of BH Crude Consigned under processing arrangements.

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	-1188	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	35.6	6.0	15.7	22.1
1976-77	5142	5074	+72	27.4	-3.6	707	1296	589	11.7	11.2	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	7.7	12.0	27.6
1982-83	8803	14293	-5490	12.8	5.0	820	3899	-3079	-12.8	3.5	9.8	27.2
1983-84	9771	15832	-6061	11.0	10.8	882	3225	-2343	-7.6	16.3	9.0	20.6
1984-85	11744	17134	-5390	20.2	8.2	944	3326	2282	7.0	0.6	8.0	19.0
1985-86	10895	19658	-8763	(-)7.2	14.7	835	3420	-2585	-9.6	4.2	7.7	17.4
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	20231	28235	-8004	29.1	26.9	1207	3681	-2474	23.2	10.9	6.0	13.0
1989-90	27681	35412	-7731	36.8	25.4	1841	5074	-3233	52.5	37.8	6.7	14.3
1990-91(P)	32553	43193	-10640	17.6	22.0	1831	7041	-5210	-0.5	38.8	5.6	16.3
1991-92(P)	43828	47797	-3969	34.6	10.7	3815	9522	-5707	108.4	35.2	8.7	19.9

(P) = Provisional

Source ; Ministry of Commerce / Economic Survey.

INDIA'S FOREIGN EXCHANGE RESERVES (1970-71 TO 1991-92)

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(P)	65.7	9038.80	14578.0

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

* 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 market price w.e.f. October 17, 1990.

** Include Foreign assests of Reserve Bank of India and Govt. balances held abroad upto 1955-56.

INDIA'S IMPORTS AS A PROPORTION TO OVERALL EXPORTS FROM THE COUNTRY 1970-71 TO 1991-92.

(Rs. Crores)

YEAR	POL Imports		India's Total Exports		Gross POL Imports as % age of total Gross Exports	Net POL Imports as % age of total Net Exports
	Gross	Net	Gross	Net of POL 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	20231	19707	21.9	19.8
1989-90	6344	5649	27681	26985	22.9	20.9
1990-91	10779	9775	32553	31549	33.1	31.0
1991-92(P)	13038	11824	43828	42613	29.7	27.7

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	1970	1975	1980	1985	1989	1990	1991	1992
	1.	2.	3.	4.	5.	6.	7.	8.	9.
1.	Exploration & Production	26051	27067	31413	48700	55656	56477	58187	58627
2.	Refining	10715	12327	15334	23074	24188	25751	26479	29656
3.	Marketing	20362	19072	19920	27717	34615	36261	33074	35353
4.	Pipelines	1276	1388	2215	2901	3019	3189	3579	3711
5.	Others	588	2616	3415	4480	4362	8268	8359	8446
	Grand Total	**58992**	**62470**	**72297**	**106872**	**121840**	**129946**	**129676**	135793

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

(Number)

	CATEGORY	1970	1975	1980	1985	1989	1990	1991	1992
	1.	2.	3.	4.	5.	6.	7.	8.	9.
1.	Executive/ Managerial	4793	6461	9311	21108	28588	31178	32446	35848
2.	Supervisory	6205	6659	6512	10432	11067	12229	12744	11713
3.	Clerical	11457	11723	12403	15878	16407	17254	15993	17511
4.	Workmen	36437	37611	44057	59313	63617	65475	63795	65479
5.	TOTAL	58892	61454	72283	106731	119679	126136	124978	130551
6.	Expatriates/ Foreign Experts/ On Contract	100	16	14	141	2161	3810	4700	5242
	GRAND TOTAL	**58992**	**62470**	**72297**	**106872**	**121840**	**129946**	**129678**	**135793**

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	1970	1975	1980	1985	1989	1990	1991	1992
1.	2.	3.	4.	5.	6.	7.	8.	9.
EXPLORATION AND PRODUCTION								
1. Executive/ Managerial	1765	1967	3394	10183	14432	15864	17473	18944
2. Supervisory	2774	3538	1994	4537	5092	5594	6040	4992
3. Clerical	3764	3538	3795	5438	4938	4749	4728	4689
4. Workmen	17704	18013	22216	28401	29423	28712	28610	28628
5. TOTAL	26007	27056	31399	48559	53885	54919	56851	57253
6. Expatriates/ Foreign Experts/ Contract	44	11	14	141	1771	1558	1336	1374
GRAND TOTAL	**26051**	**27067**	**31413**	**48700**	**55656**	**56477**	**58187**	**58627**
PETROLEUM REFINING @								
1. Executive/ Managerial	258	818	2055	3878	4602	5009	5287	6261
2. Supervisory	1076	1313	1050	1648	1071	1216	1471	1653
3. Clerical	1219	1568	1791	2728	3265	3427	3256	4514
4. Workmen	7857	8626	10438	14820	14942	14995	14856	15649
5. TOTAL	10677	12325	15334	23074	23880	24647	24870	28077
6. Expatriates/ Foreign Experts/ Contract	38	2	-	-	308	1104	1609	1579
GRAND TOTAL	**10745**	**12327**	**15334**	**23074**	**24188**	**25751**	**26479**	**29656**
MARKETING								
1. Executive/ Managerial	2367	3519	3318	6047	8320	8586	7884	8644
2. Supervisory	2081	910	1591	1441	2163	2222	2041	1851
3. Clerical	6220	5870	5820	6533	7106	7030	5746	5984
4. Workmen	9680	8770	9191	13696	16964	17302	15716	16644
5. TOTAL	20348	19069	19920	27717	34553	35140	31387	33123
6. Expatriates/ Foreign Experts/ Contract	14	3	-	-	62	1121	1687	2230
GRAND TOTAL	**20362**	**19072**	**19920**	**27717**	**34615**	**36261**	**33074**	**35353**

@ = Includes IOC's Head Office, Regional office and R & D Centre.

XIV. WHOLE SALE 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.D.O.	FO	Lubri-cants	Naph-tha	Bitu-men	Coal Mining	Coke	Lig-nite	Elec-tri-city	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

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		2	3	4	5	6	7	8	9	10	11	12
						(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
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
3.	Base Price	Rs/MT	**270.04	**245.42	203.41	203.41	1021.00	1021.00	1021.00	1021.00	1021.00	1021.00
4.	Oil Development Cess	Rs/MT	@	60.00	60.00	60.00	100.00	300.00	300.00@@	600.00	600.00	900.00
5.	Royalty	Rs/MT	@	@	42.00	61.00	61.00#	61.00#	192.00	192.00	314.00	314.00
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
						(ii) Offshore 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
2.	Conversion factor	Bbl/MT			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
4.	Oil Development Cess	Rs/MT			60.00	60.00	100.00	300.00	300.00	600.00	600.00	900.00
5.	Royalty	Rs/MT			42.00	61.00	61.00	61.00	192.00	192.00	314.00	314.00
6.	Total Price (including Cess & Royalty)	Rs/MT			433.65	452.65	1182.00#	1382.00#	1513.00	1813.00	1935.00	2235.00

* Inclusive of royalty @ Rs. 15/MT and Oil Development Cess @ Rs. 60/MT

** Inclusive of royalty @ Rs. 42/MT

@ : Included in the base price.

@@ : Fixed retrospectively w.e.f. 1.4.1984.

\# Shows price fixed by the Government inclusive of royalty and Oil Development Cess.

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.

DEVELOPMENT OF BASIC CEILING SELLING PRICES (EX-STORAGE POINT BOMBAY) OF PETROLEUM PRODUCTS SINCE 13.1.1981.

(Rs./selling Unit)

PRODUCT	Selling Unit	EFFECTIVE DATE											
		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
1	2	3	4	5	6	7	8	9	10	11	12	13	14
ATF	KL	3537	3872	4122	4740	5240	5240	5240	5240	5240	6560	8200	9840
MS 83/87	"	4908	5438	5438@	6369	6869	6769	6769	7694	7845	8944	11180	13416
MS 93	"	5063	5593	5593	6421	6424	6824	6824	7749	7901	10944	13680	16416
HSDO	"	2330	2650	2850	3078#	3188	3116	3116	3096	3096	3634	4542	4542
SKO	"	1395	1545	1545	1822#	2047	1957	1957	1957	1957	1957	2446	2202
LDO	"	2227	2506	2656	3054	3054	3054	3054	3054	3054	3054	3817	4199
Furnace Oil													
For non-ferts	"	2189	2424	2524	2903	2903	2903	2903	2903	2903	2903	3629	3992
For ferts*	"	1039	1274	1274+	1320	1320	1320	1320	1320	1320	1320	1650	1815
Bitumen St. Gr.													
Bulk	MT	2061	2323	2196	2575	2575	2575	2575	2575	2575	2575	3219	3540
Packed	"	2346	2608	2696	3100	3100	3100	3100	3100	3100	3100	3875	4262
Naphtha													
For non-ferts*	MT	2792	2792	2792	3211	3211	3211	3211	3211	3211	3211	4014	4415
For ferts.*	"	1371	1723	1723	1982	1982	1982	1982	1982	1982	1982	2478	2726
JBO*	"	1999	2358	2358	2712	2712	2712	NA	NA	2712	2712	NA	NA
SBPS 64/69*	KL	3331	3629	3629	4173	4173	4173	NA	NA	4173	4173	NA	NA
Hexane*	"	3331	3629	3629	4173	4173	4173	NA	NA	4173	4173	NA	NA
MTO 140/205*	"	2044	2348	2348	2700	2700	2700	NA	NA	2700	2700	NA	NA
MTO Laws*	"	2126	2430	2430	2794	2794	2794	NA	NA	2794	2794	NA	NA
LPG:													
Domestic	MT	2301	2634	2634	3029	3729	3449	3449	3449	3449	3449	3449	4139
Bulk	"	2595	2928	2928	3978	3978	3978	5001	5001	5001	5001	6251	6877
Industrial	"	--	--	--	5128	5128	5128	6151	6151	6151	6151	7689	8458

NOTE: Prices have been rounded to the nearest Rupee.

*= 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.

NA = 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.

PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS AS ON 1.4.1992

(Rs./Kl)

	DELHI	CALCUTTA	BOMBAY	MADRAS	KANPUR
MOTOR SPIRIT 87 ON					
EX-MI PRICE	13416.11	13416.11	13416.11	13416.11	13416.11
P'LINE CH/B. TAX/	-	-	-	-	-
FRT. DIFF./SHRINKAGE	-	-	-	-	-
RLY FREIGHT (INCL. OF SDG/SHU	74.98	29.87	-	-	223.10
STATE SURCHARGE	25.00	262.54	155.45	560.68	25.00
OCTROI/T. TAX	-	20.00	211.12	-	-
TOLL TAX/GOODS TAX/E.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 CHARGE FDZ	-	-	-	-	-
SUBTOTAL	13587.45	13802.76	13854.04	14048.15	13735.57
CST/ENTRY TAX	-	-	-	-	-
SHRINKAGE	-	-	-	-	-
SALES TAX	951.12	1380.28	2770.81	2528.67	1373.56
SC ON S.T.	-	-	-	379.30	-
ADDL. TAX	-	207.04	-	126.43	-
DEALERS COMM.	80.00	80.00	80.00	80.00	80.00
TOTAL Rs/KL	14618.57	15470.08	16704.85	17162.55	15189.13
R.S.P. Rs/LTR	14.62	15.48	16.71	17.17	15.19
RATE OF SALES TAX (%)	7	10	20	18	10
RATE OF S.C. ON ST (%)				15	
RATE OF ADDL. TAX (%)		15		5	
HIGH SPEED DIESEL OIL					
EX-MI PRICE	4541.91	4541.91	4541.91	4541.91	4541.91
P'LINE CH/B.TAX/	-	-	-	-	-
FRT. DIFFERENTIAL	-	-	-	-	-
RLY FREIGHT (INCL. OF SDG/	76.79	21.93	-	-	227.02
STATE SURCHARGE	25.00	88.88	54.45	189.81	5.00
OCTROI/T.TAX	4.68	20.00	71.47	-	-
TOLL TAX/GOODS TAX	-	-	-	-	-
R.P.O. CHARGES	7.27	7.27	7.27	7.27	7.27
R.P.O. SURCHARGE	20.00	20.00	20.00	20.00	20.00
DELIVERY CHARGE FDZ	-	2.88	-	-	-
SUBTOTAL	4675.65	4702.87	4695.10	4758.99	4801.20
CST/ENTRY TAX	-	-	-	-	-
SHRINKAGE	-	-	-	-	-
SALES TAX	327.30	564.34	939.02	761.44	576.14
SC ON S.T./ADDL. TAX	-	-	-	114.22	-
DEALERS COMM.	40.00	40.00	40.00	40.00	40.00
SUBTOTAL					
SHRINKAGE/ADD. TAX					
R.S.P. Rs/KL	5042.95	5307.21	5674.12	5712.72	5417.34
R.S.P. Rs/LTR	5.05	5.31	5.68	5.72	5.42
RATE OF SALES TAX (%)	7	12	20	16	12
RATE OF S.C. ON ST (%)				15	
RATE OF ADDL. TAX (%)					

PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS AS ON 1.4.1992.

(Rs./Kl)

	DELHI	CALCUTTA	BOMBAY	MADRAS	KANPUR
LIGHT DIESEL OIL					
EX-MI PRICE	4199.21	4199.21	4199.21	4199.21	4199.21
STATE SURCHARGE	25.00	82.17	55.20	175.49	5.00
RLY FRT/FRT DIFFERENTIAL	97.29	22.60	-	-	288.93
OCTROI/T. TAX	4.82	20.00	66.08	-	-
TOTAL	4326.32	4323.98	4320.49	4374.70	4493.14
DEPOT RATE RS/KL	4326.32	4323.98	4320.49	4374.70	4493.14
RATE OF ST	7%	12%	8%	16%	12%
RATE OF SC ON ST				15%	
RATE OF ADDL. SC ON ST				5%	
SUPERIOR KEROSENE OIL					
EX-MI PRICE	2201.54	2201.54	2201.54	2201.54	2201.54
RLY FREIGHT/DIFFERENTIAL	61.76	20.81	-	-	186.34
STATE SURCHARGE	25.00	43.08	29.51	92.01	92.01
OCTROI	-	-	34.64	-	-
SUBTOTAL	2288.30	2265.43	2265.69	2293.55	2387.88
ENTRY TAX/TOLL TAX/SSB T.	15.00	-	-	-	-
SUBTOTAL	2303.30	2265.43	2265.69	2293.55	2387.88
SALES TAX	69.10	113.27	EXEMPTED	91.74	238.79
SC ON SALES TAX	-	-	-	13.76	-
ADDL. SC ON ST	-	-	-	4.59	-
TRANSPORTATION	58.24	30.00	-	32.00	50.00
WHOLESALERS/DEALERS COMM.	14.08	30.30	30.30	8.00	30.30
OCTROI	-	-	58.25	-	-
LEAKAGE, EXT. ORD. ALLO.	-	-	19.50	48.04	-
OTHER EXPENSES	-	-	6.26	-	-
SUBTOTAL	2444.72	2439.00	2380.00	2491.68	2706.97
RETAILERS COMM.	75.27	39.70	39.70	308.35	50.00
LOCAL TRANSPORTATION	-	221.30	-	-	20.00
LEAKAGE, EXT. ORD. ALLO.	-	-	19.00	-	-
ROUNDED OFF TO	0.05	-	1.30	-	-
R.S.P. RS/KL	2520.04	2700.00	2440.00	2800.03	2776.97
R.S.P. RS/LTR	2.52	2.70	2.44	2.80	2.78
FUEL OIL					
EX-MI PRICE	3991.71	3991.71	3991.71	3991.71	-
STATE SURCHARGE	25.00	78.11	52.60	166.82	-
RLY FRT/FRT DIFFERENTIAL	128.41	24.31	-	-	-
OCTROI/SSB T.TAX	5.18	20.00	62.81	-	-
SUBTOTAL	4150.30	4114.13	4107.12	4158.53	-
ENTRY TAX	-	-	-	-	-
SUBTOTAL	4150.30	4114.13	4107.12	4158.53	-
DEPOT RATE RS/KL	4150.30	4114.13	4107.12	4158.53	-
RATE OF ST	7%	8%	8%	10%	
RATE OF SC ON ST				15%	
RATE OF ADDL. SC				5%	

PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS AS ON 1.4.1992.

(Rs./Kl)

	DELHI	CALCUTTA	BOMBAY	MADRAS	KANPUR
LIQUIFIED PETROLEUM GAS (Rs./14.2 Kg. Cyl.)					
PRICE AT PRICING POINT	63.97	64.18	62.08	62.08	64.78
STATE SURCHARGE	-	1.21	0.81	2.59	-
FRT/LOCAL DELIVERY CHARGE	0.75	0.75	0.75	0.75	0.75
OCTROI	0.38	0.54	0.98	-	-
SUBTOTAL	65.10	66.68	64.62	65.42	65.53
SALES TAX	3.26	10.00	2.58	5.23	5.24
SC ON ST	-	1.50	-	0.78	-
ADDL. SC ON ST	-	-	-	0.26	-
BILLABLE RATE	68.36	78.18	67.20	71.69	72.08
DIST. COMM.	3.37	3.37	3.37	3.37	3.37
R.S.P. FOR 15 KG. CYL.	71.73	81.55	70.57	75.06	75.45
R.S.P. FOR 14.2 KG. CYL.	67.90	77.20	66.81	71.06	71.43
RATE OF SALES TAX	5%	15%	4%	8%	8%
RATE OF SC ON SALES TAX	-	15%	-	15%	25%
RATE OF ADDL. SC ON SALES TAX				5%	
ATF (DOMESTIC AIRLINES)					
EX-MI PRICE	9840.46	9840.46	9840.46	9840.46	-
STATE SURCHARGE	-	192.57	117.97	411.25	-
FRT. DIFFERENTIAL	-	20.39	-	-	-
RLY. FRT.	96.33	-	-	-	-
BMC OCTROI/LOCAL LEVY	-	-	154.85	-	-
ENTRY TAX	-	201.56	-	-	-
SHAKURBASTI T. TAX	15.00	-	-	-	-
STATE SURCHARGE	25.00	-	-	-	-
AIR FIELD CHARGE	24.44	24.44	24.44	24.44	-
POSTED AIR FIELD PRICE	10001.23	10279.42	10137.72	10276.15	-
ATF (INTERNATIONAL AIRLINES) US$/KL					
BASIC PRICE	232.47	232.47	232.47	232.47	-
ENTRY TAX/LOCAL LEVIES	0.48	4.65	-	-	-
SALES TAX	16.31	59.28	69.74	46.49	-
SC ON SALES TAX	-	8.89	-	6.97	-
ADDL. SC ON ST	-	-	-	2.32	-
TOTAL FOR NON-SCH. AIRLINES	249.26	305.29	302.21	288.25	-
TOTAL FOR SCH. FOREIGN AIR NON-SCH. PASSENGER AIRCRAFT	232.95	237.12	232.47	232.47	-
RATE OF SALES TAX	7%	25%	30%	20%	
ADDL. TAX		15%	-	15%	

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
15.02.1983	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
06.02.1986/01.04.1986	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
		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

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	0.85	0.86
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	1.30	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
17.08.1979	1.46	1.56	1.61	1.62	1.66
11.09.1979	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
11.07.1981	1.60	1.76	1.81	1.84	1.90
01.04.1982	1.66	1.80	1.81	1.78	1.90
15.02.1983 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	2.050
01.06.1984	1.85	1.92	1.92	1.88	2.05
17.03.1985	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	2.26	2.36	2.34	2.34	2.50
06.02.1986/01.04.1986	2.17	2.27	2.25	2.25	2.40
01.04.1987	2.17	2.27	2.25	2.25	2.50
01.04.1988	2.17	2.27	2.25	2.25	2.500
01.04.1989	2.17	2.27	2.25	2.27	2.500
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
		LIQUIFIED PETROLEUM GAS (Rs./Cylinders)			
	14.2 Kg.cyl	**15 Kg. cyl**	**15 Kg. cyl**	**15 Kg. cyl**	**15 Kg. cyl.**
01.01.1975	22.10	27.79	27.36	23.94	27.610
01.01.1976	26.75	33.31	32.61	29.36	32.85
01.01.1979	26.94	37.06	34.98	31.90	35.42
17.08.1979	33.96	42.93	40.23	37.32	40.82
08.06.1980	33.96	42.93	40.23	37.81	40.82
13.01.1981	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	53.060
1.09.1982	43.14	51.93	44.58@	47.17	49.41
01.04.1983	43.14	52.71	45.09@	47.17	50.41
01.04.1984	43.14	52.71	45.09@	44.65@	47.72@
01.06.1984	44.11	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@

@ = For : 14.2 Kg. Cylinder.

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

EFFECTIVE FROM	Slab of Annual Volumes of Sales (KL / Annual)							Slab of Annual Volumes of Sales (KL/Annual)							LPG Rs./ Cylinder
	Prior to .1.7.1982			Effective From 1.7.1982				Prior to 1.7.1982			Effective from 1.7.1982				
	0- 480	481- 1080	Over 1080	0- 360	361- 600	601- 1080	Over 1080	0- 600	601- 1200	Above 1200	0- 630	361- 600	601- 1080	above 1080	
	(MOTOR SPIRIT)			(Rs./KL)				(HIGH SPEED DIESEL OIL)			(Rs./KL)				
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
1.4.1977	80*	50*	35*	--	--	--	--	50	25	20	--	--	--	--	Prior to
15.7.1980	100	70	50	--	--	--	--	55	30	25	--	--	--	--	1st March
1.3.1981	107	75	55	--	--	--	--	58	33	28	--	--	--	--	1982
16.8.1981	114	82	61	--	--	--	--	60	35	30	--	--	--	--	3.37
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	--	--	--	311	233	206	174	--	--	--	--	--	--	--	5.70

* = The minimum rate of commission was Rs. 50/KL.

** = The increase in Commission of LPG will be borne by OCC/Pool A/c in ratio 50:50.

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

REALISATION OF EXCISE & CUSTOM DUTIES FROM CRUDE OIL & PETROLEUM PRODUCTS DURING 1970-71 TO 1990-91, (RE) FOR 1991-92 AND (BE) FOR 1992-93.

(Rs. Crores)

Products	1970-71	1980-81	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92 (RE)	1992-93 (BE)
	<- - - - - - - - - - ACTUALS - - - - - - - - - - >									
1	2	3	4	5	6	7	8	9	10	11
A. EXCISE DUTIES										
1. Mogas	173	493	749	814	903	1034	1200	1202	1350	1450
2. Kerosene Oil	121	124	203	233	250	241	268	255	250	260
3. Refined Diesel Oil & Vaporising Oil	232	280	563	596	646	683	731	693	730	750
4. Diesel Oil (NES)	23	20	23	27	28	29	38	35	33	34
5. Furnace Oil	33	45	39	37	34	46	53	49	55	60
6. Asphalt/Bitumen & Tar	9	16	32	-	-	-	-	-	-	-
7. Blended or Compounded Lubes & Greases	-	-	-	-	-	-	-	-	-	-
8. Pol. Products (Nos.)	17	175	203	277	280	314	359	421	468	550
9. Calcined Pet Coke		5		<----------		(included in item no.6 above)				------->
10. Petroleum Gas	-	-	33	50	58	59	66	66	75	82
TOTAL (A)	**608**	**1158**	**1845**	**2034**	**2199**	**2406**	**2715**	**2721**	**2901**	**3186**
B. CUSTOMS DUTIES										
1. Petroleum Crude	-	16	874	857	1862	1917	2149	3145	3492	4025
2. Mogas	5	8	6	-	-	-	-	-	-	-
3. Kerosene Oil	10	83	101	218	274	396	282	555	600	740
4. Batching lubricating & other mineral oils	9	103	35	-	-	-	-	-	-	-
5. HSD & Vap. Oils	1	127	33	56	84	160	165	365	330	410
6. Indl. Fuel Oil	5	17	1	-	-	-	-	-	-	-
TOTAL (B)	**30**	**354**	**1050**	**1131**	**2220**	**2473**	**2596**	**4065**	**4422**	**5175**
GRAND TOTAL (A+B)	**638**	**1512**	**2895**	**3165**	**4419**	**4879**	**5311**	**6786**	**7323**	**8361**

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

Note : Budget heads for custom duties have been changed from 1986-87, following the introduction of new custom tariff, hence no details.

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	1110	6.3	1.7	26.3
1977-78	79671	4448	1152	5.9	1 5	25.9
1978-79	85255	5194	1290	6.4	1.6	24.0
1979-80	92314	6148	1407	6.9	1.6	22.9
1980-81	110685	6500	1158	5.9	1.0	17.8
1981-82	128797	7421	1294	5.8	1.0	17.4
1982-83	141875	8059	1408	5.7	1.0	17.5
1983-84	166550	10222	1430	6.2	0.9	14.0
1984-85	185018	11151	1605	6.0	0.9	14.4
1985-86	206133	13008	1845	6.3	0.9	14.2
1986-87	228402	14489	2034	6.3	0.9	14.0
1987-88	258805	16347	2199	6.3	0.8	13.5
1988-89	308662	18825	2406	6.1	0.8	12.8
1989-90	351850	22290	2715	6.3	0.8	12.2
1990-91	416349	24451	2721	5.9	0.7	11.1
1991-92@	NA	27696	2901	NA	NA	10.5

SOURCE : i) Government of India's Economic Survey for N.N.P.
ii) Budget papers of Central Government.
@ National Accounts Statistics,1992.

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	20071	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	1110	112	1222	507.03
1977-78	25539	1152	127	1279	500.80
1978-79	28241	1290	190	1480	524.06
1979-80	29883	1407	213	1620	542.10
1980-81	30896	1158	354	1512	489.38
1981-82	32523	1294	288	1582	486.42
1982-83	34657	1408	256	1664	480.13
1983-84	35841	1430	219	1649	460.1
1984-85	38795	1605	472	2077	535.4
1985-86	40872	1845	1050	2895	708.3
1986-87	43662	2034	1131	3165	724.9
1987-88	46416	2199	2220	4419	952.0
1988-89	50092	2406	2473	4879	974.0
1989-90	54095	2715	2596	5311	981.8
1990-91	55035	2721	4065	6786	1233.0
1991-92(P)	56807	2901	4422	7323	1289.1

(P) = Provisional

ROYALTY AND OIL DEVELOPMENT CESS PAID BY OIL COMPANIES ON PRODUCTION OF CRUDE OIL AND NATURAL GAS SINCE 1973-74 TO 1991-92.

(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 Off Shore	Total	Western Region	Eastern Region	Southern Region	B.High 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*	11723	15282	964	33969	52885	86854	1910	428	216	18859	21413	251693

NOTE:1 Figures for 1984-85 & 1985-86 have undergone revision due to increase in Royalty rate from Rs.61/- pmt to192/-pmt.

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 condonsate and NGL.

3. Figures of Crude Oil Royalty for 1990-91 included arrears 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.

* = 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. 1.3.79	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 No Change upto 25.7.91
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
1. Av. gas 100/130	KL	2702.43	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89
2. Av. gas115/145	KL	2700.50	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32
3. Av. gas 73	KL	2701.60	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2326.79
4. M.S. 87 @@	KL	2703.25	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2327.50
5. M.S. 93	KL	2704.90	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2328.92
6. A.T.F.	KL	493.10	402.56	402.56	333.52@	333.52	333.52	333.52	333.52	333.52	333.52	352.07
7. S.K.O.	KL	493.20	402.63	333.59	333.59@	333.59	333.59	333.59	333.59	333.59	333.59	330.44
8. H.S.D.O.	KL	493.95	399.15	330.00	330.00@	330.00	330.00	330.00	330.00	330.00	330.00	347.49
9. L.D.O.	KL	74.15	153.96	153.96	153.96	153.96	153.96	153.96	153.96	153.96	153.96	160.91
10. F.O. (Fert. Use)*	KL	125.82	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	125.82	150.71
12. Bitumen (Bulk)	MT	157.55	110.30	110.30	110.30	110.30	110.30	110.30	110.30	110.30	110.30	115.50
13. Bitumen' (Packed)	MT	157.55	157.55	157.55	157.55	157.55	157.55	157.55	157.55	157.55	157.55	168.00
14. LPG(Domes. Packed)	MT	400.00	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	273.00
15. LPG (Indust.) Bulk	MT	400.00	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	273.00
16. Naphtha* (Fert. Use)	KL	4.50	4.50	4.36	4.36	4.36	4.36	-	-	4.40	4.40	4.00
17. Naphtha* (For Non-Fert. Use)	KL	26.50	26.50	26.50	26.50	26.50	26.50	-	-	26.25	26.25	26.25

* 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.

EXCISE AND CUSTOM DUTIES IN THE BASIC CEILING SELLING PRICES (BCSP) OF POL PRODUCTS EX-STORAGE POINT EFFECTIVE FROM 25.07.1991

(Rs./Selling Unit)

PRODUCT	Selling Unit	Price Ex-Storage Point (Bombay) (Rs.) @	Excise/Custom Duties (Rs.)	Col.4 as % of Col.3
1.	2.	3.	4.	5.
A.T.F	KL	9840.46	352.07	3.6
Motor Spirit 87	KL	13416.11	2327.50	17.3
Motor Spirit 93	KL	16416.11	2328.92	14.2
H.S.D.O.	KL	4541.91	347.49	7.7
S.K.O.	KL	2201.54	330.44	15.0
L.D.O.	KL	4199.21	160.91	3.8
F.O. (Non-Fertilizers)	KL	3991.71	150.71	3.8
F.O. (Fertilizers) *	KL	1815.33	--	--
Bitumen St.Grade (Bulk)	MT	3540.42	115.50	3.3
Bitumen St.Grade (Packed)	MT	4262.38	168.00	3.9
Naphtha for non-Ferts.*	MT	4415.13		
Naphtha for Ferts. *	MT	2725.68		
L.P.G. (Domestic Packed)	MT	4138.78	273.00	6.6
L P.G. (Industrial) (Bulk Essential)	MT	6876.52	273.00	4.0
L.P.G. Industrial Bulk (Non-Essential)	MT	8458.16	273.00	3.2

* = Prices shown against these products are exclusive of Custom/Excise duties chargeable extra at applicable rates.

@ = Based on the Basic ceiling selling prices for all refinery points (Primary pricing points) applicable as at Bombay w.e.f. 6.2.1986.

Note : Effective 1.10.1986, the supply of FO/Naphtha to fertilisers units for purposes other than feedstock will be charged at the rates applicable to general category.

SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS AS ON 1.4.1992.

SNo.	PRODUCTS	<1 Andhra Pradesh	Arunachal Pradesh	Assam	Bihar	Goa	Gujarat	Haryana
		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	14.48%	No Tax	8%	--	--	19%	--
B.	**PETROLEUM PRODUCTS**							
3.	Aviation Spirit	27.31%	No Tax	25%	25%	15%	30% Bonded & duty paid 9%	6%
4.	Aviation Turbine Fuel	27.31%	No Tax	25%	25%	15%	30% Bonded & duty paid 23%	6%
5.	Motor Spirit	27.31%	Do	12%	9%	15%	20%	6%
6.	H.S.D.	17.44%	Do	11%	14%	15%	18%	6%
7.	L.D.O.	17.44%	Do	11%	14%	15%	8%	8%
8.	M.L.O.	17.44%	Do	8%	9%	7%	12%	8%
9.	S.K.O.	6.44%	Do	2%	6%	Exempt	@	8%
10.	I.K.O.	6.44%	Do	2%	5%	Exempt	@@	8%
11.	F.O.	6.44%	Do	8%	8%	15%	12%	8%
12.	M.T.O.	6.44%	Do	8%	9%	7%	12%	8%
13.	Lubes	14.48%	Do	10%	9%	7%	14%	8%
14.	Greases	14.48%	Do	10%	9%	7%	14%	8%
15.	Petroleum Naphtha	14.48%	Do	8%	9%	15%	15%	8%
16.	Bitumen	14.48%	Do	8%	9%	7%	12%	8%
17.	Petroleum Coke	4.00%	Do	4%	4%	4%	4%	4%
18.	Indane (LPG)	14.48%	Do	8%	9%	7%<2	17%	8%
19.	Transformer Oil	6.44%	Do	8%	9%	7%	12%	8%
20.	H.B. Fluid	14.48%	Do	10%	9%	7%	14%	8%
21.	L.S.H.S.	6.44%	Do	8%	9%	7%	15%	8%

<1 These rates are inclusive of :

1. Turnover Tax @ 1.5% on taxable turnover.
2. Surcharge @ 10% on Sales Tax.

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<2 LPG for household purpose is exempted.

@ Kerosene for domestic use @ 3.60%

@@ Kerosene for Industrial use @ 8%

SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS AS ON 1.4.1992.

SNo.	PRODUCTS	Himachal Pradesh	J & K	Karna-taka	Kerala	Madhya Pradesh	Mahara-shtra	Manipur
		8	9	10	11	12	13	14
A.	**CRUDE OIL & GAS**							
1.	Crude Oil	8%	--	4%	4%	4%	4%	4%
2.	Natural Gas	--	--	--	--	--	8%#	7%
B.	**PETROLEUM PRODUCTS**							
3.	Aviation Spirit	5%	8%	20%	12.5%	14%	9% Duty paid	10%
4.	Aviation Turbine Fuel	5%	8%	20%	12.5%	14%	Bonded 30% Duty paid 23%	10%
5.	Motor Spirit	5%	4%	20%	20%	18%	20%	10%
6.	H.S.D.O.	5%	8%	20%	25%	18%	20%	7%
7.	L.D.O.	8%	8%	20%	25%	16%	8%	7%
8.	M.L.O.	8%	8%	10%	12.5%	14%	8%	7%
9.	S.K.O.	8%	Exempted	5%	5%	3%	Exempted	3%
10.	I.K.O.	8%	-Do-	5%	5%	3%	-Do-	3%
11.	F.O.	8%	8%	13%	12.5%	4%	8%	7%
12.	M.T.O.	8%	8%	--	12.5%	14%	8%	7%
13.	Lubes	8%	8%	15%	15%	12%	8%	4%
14.	Greases	8%	8%	15%	15%	12%	8%	4%
15.	Petroleum Naphtha	8%	8%	10%	7%	14%	8%	7%
16.	Bitumen	8%	8%	10%	12.5%	14%	8%	7%
17.	Petroleum Coke	4%	--	4%	4%	4%	4%	4%
18.	Indane (LPG)	8%	8%	15%	20%	16%	4%<3	7%
19.	Transformer Oil	8%	8%	13%	15%	14%	8%	--
20.	H.B. Fluid	8%	8%	10%	15%	12%	10%	--
21.	L.S.H.S.	8%	8%	10%	12.5%	14%	--	7%

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

6% ST is payable in case of supplies to electricity Companies. Additional sales tax of 12% on sales tax is required to be borne by the Supplier.

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SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS AS ON 1.4.1992.

SNo.	PRODUCTS	Megha-laya	Mizo-ram	Naga-land	Orissa	Punjab **	Rajas-than	Tamil-Nadu
		15	16	17	18	19	20	21
		Rs. KL/MT*	Rs. KL	Rs. KL/MT*				
A.	**CRUDE OIL & GAS**							
1.	Crude Oil	--	2%	3%	4%	4%	4%	4%
2.	Natural Gas	7%+ 2% S/C	10%	6%	-	-	-	8% + 8% Surcharge
B.	**PETROLEUM PRODUCTS**							
3.	Aviation Spirit	--	--	300	16%	7%	10%	20%
4.	Aviation Turbine Fuel	--	--	300	12%	8.8%	10%	20%
5.	Motor Spirit	340+ 6.80 S/c	200	300	12%	7%	18%	18%
6.	H.S.D.O.	150+ 3.00 S/c	80	90	16%	4%	16%	16%
7.	L.D.O.	--	--	90	16%	8.8%	16%	16%
8.	M.L.O.	--	--	--	12%	8.8%	10%	10%
9.	S.K.O.	30	--	30	Exempted	8.8%	10%	4%
10.	I.K.O.	--	--	30	-Do-	8.8%	10%	4%
11.	F.O.	--	--	--	12%	8.8%	10%	10%
12.	M.T.O.	--	--	--	12%	8.8%	15%	10%
13.	Lubes	150+ 3.00 S/c	150	110	16%	8.8%	10%	10%
14.	Greases	110*+ 2.20 S/c	150	500	16%	8.8%	10%	10%
15.	Petroleum Naphtha	--	--	--	12%	8.8%	10%	10%
16.	Bitumen	--	--	--	12%	8.8%	10%	8%
17.	Petroleum Coke	--	2%	--	4%	4%	4%	4%
18.	Indane (LPG)	--	10%	--	12%	8.8%	10%	8%
19.	Transformer Oil	--	--	--	--	8.8%	10%	--
20.	H.B. Fluid	--	--	--	--	8.8%	10%	8%
21.	L.S.H.S.	--	--	--	--	8.8%	--	10%

** Rates are inclusive of additional tax @ 10% on tax wherever applicable.

* Rupees per Tonnes.

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SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS AS ON 1.4.1992.

SNo.	PRODUCTS	Tripura	Uttar@@ Pradesh	West Bengal	Chandi-garh	Delhi	Daman & Diu
		22	23	24	25	26	27
A.	**CRUDE OIL & GAS**						
1.	Crude Oil	4%	4%	4%	--	4%	--
2.	Natural Gas	12%	--	--	--	--	--
B.	**PETROLEUM PRODUCTS**						
3.	Aviation Spirit	12%	10%	9.9%	15 PPL	7%	12%
4.	Aviation Turbine Fuel	12%	10%	25%	15 PPL	7%	12%
5.	Motor Spirit	8%	10%	10%	15 PPL	7%	--
6.	H.S.D.	5%	12%	12%	10 PPL	7%	--
7.	L.D.O.	5%	12%	12%	6%	7%	--
8.	M.L.O.	--	10%	8%	--	7%	--
9.	S.K.O.	5%	10%	5%	6%	3%	Exempted
10.	I.K.O.	4%	10%	Exempted	--	3%	Exempted
11.	F.O.	5%	6.25%	8%	6%	7%	--
12.	M.T.O.	--	10%	8%	--	7%	7%
13.	Lubes	12%	10%	11%	6%	7%	--
14.	Greases	12%	10%	11%	6%	7%	--
15.	Petroleum Naphtha	5%	10%	8%	6%	7%	--
16.	Bitumen	5%	10%	8%	--	7%	--
17.	Petroleum Coke	4%	4%	4%	--	4%	--
18.	Indane (LPG)	12%	10%	15%	6%	5%	--
19.	Transformer Oil	--	10%	8%	--	7%	--
20.	H.B. Fluid	--	10%	11%	--	7%	--
21.	L.S.H.S.	--	6.25%	8%	6%	7%	--

@@ : Rates are inclusive of additional tax @ 25% on Sales Tax wherever applicable.

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

Contd.....

IN ADDITION TO THE SALES TAX PAYABLE THE FOLLOWING TAX AMOUNTS ARE ALSO PAYABLE/RECOVERABLE W.E.F. 1.4.1992.

1. Andhra Pradesh :
   1. Turnover tax @ 1.5% on taxable turnover above Rs. 1 crore. This is recoverble from the customers.
   2. Surcharge @ 10% on tax is payable. This is recoverable from the customers.

   Above levies are already included in the billable rates.

2. 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 applicalbe on MS, HSD, LDO, SKO, Furnace Oil, Av.Gas, ATF and Declared goods.)

3. Goa : Addl. Sales Tax @ 10% of Sales Tax is payable but same is not recoverable from the customers.

4. Gujarat :
   1. Turnover Tax :- at the following rate is payable, but not recoverable from the customers.

      a) Up to taxable turnover of Rs. 50 lakhs ..... Nil

      b) On taxable turnover exceeding Rs.50 lakhs but less than Rs. 2 crores. ..... @ 1% of taxable turnover in excess of Rs. 50 Lakhs

      c) on taxable turnover between Rs. 2 crores & Rs. 4 crores ..... Rs. 1.5 Lakhs plus @ 1.25% of taxable turnover in excess of Rs. 2.00 crores.

      d) On Taxable Turnover exceeding Rs. 4 crores. ..... Rs. 4 Lakhs plus @ 1.5% on taxable turnover in excess of Rs. 4 crores.

   2. Addl. Sales tax at @20% on Tax on MS, HSD, ATF and Av. Spirit.

5. Haryana : Surcharge at 10% on Sales Tax on all products. This is recoverable from the customers.

6. J & K : Surcharge @ 5% of Sales Tax is payable. This is recoverable from the customers. This does not apply to product falling under Motor Spirit Tax Act. (i.e. Motor Spirit, HSD).

7. Karnataka : 2.5% Turnover Tax on the turnover. This is payable but same is not recoverable from the customers.

8. Kerala :
   1. Surcharge at 8% of Sales Tax is payable, but not recoverable from the customers.
   2. 4% Turnover Tax is payable but not recoverable from the customers.

Contd.....

9.	Mahara-shtra	: 1.	Addl. Sales Tax @ 12% on Sales Tax is payable but the same is not recoverable from customers. This is not payable on Kerosene, declared goods, ATF/Av. Spirit, MS and HSD.
		2.	Turnover tax @ 1.25% on net turn over in Maharashtra, 1.5% in Gujarat, 2.5% in Tamil Nadu and 0.25% in Agartala is also required to be borne by the producer.
10.	Meghalaya	:	Surcharge @ 1% on tax on MS, HSD, LPG and F.O. This is recoverable from the customers.
11.	Orissa	:	Surcharge @ 10% on Sales Tax - This cannot be recovered from the customers.
12.	Punjab	:	Additional tax at 10% of the Sales Tax on products under General Sales Tax Act is payable. This is recoverable from the customers. (Not payable on MS, Av.Spirit & HSD). This is included in billable rates.
13.	Tamil Nadu	: 1.	Surcharge : @ 15% on Sales tax is payable on all product . This is recoverable from the customers.
		2.	Additional Tax
			i @ 2% on taxable turnover between Rs. 1 crore and Rs. 5 crores.
			ii 2.25% on taxable turnover between Rs.5 crore and Rs.10 crores.
			iii 2.5% on Taxable turnover if taxable turnover is above Rs.10 crores.
			This is payable but not recoverable from the customers.
		3.	Additional Surcharge : @ 5% on tax on the sale of products in Municipal Corporation of Madras and within 32 KMs from outer perepheral limits of Municipal Corporation of Madras. This is recoverable from the customers.
14.	Tripura	:	Additional tax @ 0.25% on taxable turnover. This cannot be recovered from the customers.
15.	Uttar Pradesh	:	25% Surcharge on Sales Tax. This is recoverable from the Customers. This is included in the billable rates.
16.	West Bengal	: 1.	Turnover Tax @ 1.5% of the gross turnover of the bill is payable, but same is not recoverable from the customer.
		2.	Addl. tax @ 15% on tax is payable on all products except kerosene, HSD, & LDO. 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 YEAR 1985-86 TO 1991-92

(Rs. in lakhs)

STATE	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92
1. Crude Oil							
Assam	2550	3456	3407	3537	4290	4611	4428
Gujarat	2248	2965	3334	3627	4731	6195	5038
Arunachal Pradesh	32	40	21	22	30	32	43
Nagaland	31	54	45	71	83	87	48
Maharashtra	6965	9220	10924	6835	7428	15500	13950
Tamil Nadu	-	3	9	20	152	257	257
Total (1)	**11826**	**15738**	**17741**	**14112**	**16714**	**26682**	**23764**
2. Natural Gas							
Assam	114	48	366	326	422	429	417
Gujarat	341	347	4052	7280	11199	9952	13136
Maharashtra* (Bombay High)	1356	4046	4537	4319	6204	5628	5361
Arunachal Pradesh	-	-	Neg.	17	48	82	-
Tamil Nadu	-	-	Neg.	3	6	17	18
Tripura	-	3	15	18	17	53	59
Andhra Pradesh	-	-	-	-	-	-	317
Total(2)	**1811**	**4444**	**8970**	**11963**	**17895**	**16161**	**19308**
3. POL Products							
(a) States							
Andhra Pradesh	10758	12764	13597	14883	22318	25062	37812
Assam	2688	2463	3350	3519	4509	3654	5228
Bihar	7078	7936	7328	8334	10326	11239	16122
Gujarat	15042	19045	21030	26328	34430	39456	54531
Haryana	2026	2341	2251	2557	3764	4584	6123
Himachal Pradesh	81	341	179	186	181	261	303
Jammu & Kashmir	483	571	542	570	686	759	1065
Karnataka	10531	12311	11439	12256	16748	21801	30930
Kerala	10737	13543	11642	14304	8617	27512	30518
Madhya Pradesh	5061	6468	5488	7040	10160	13168	18784
Maharashtra	18762	24447	20556	24245	37124	52978	72518
Manipur	44	81	163	179	183	164	277
Meghalaya	Neg.	Neg.	1	1	1	1	1
Mizoram	-	1	15	18	20	19	39
Nagaland	Neg.	1	13	37	68	69	59
Orissa	1781	2032	1559	1931	2915	3958	5540
Punjab	2345	3410	3474	3615	5152	6326	8059
Rajasthan	5768	6332	5624	7592	11681	13508	17136
Tamil Nadu	19766	21818	19083	21673	31130	39450	51775
Tripura	107	115	203	256	287	264	293
Uttar Pradesh	13373	15269	16334	17680	22682	28995	36339
West Bengal	10883	11322	10447	11524	16624	18991	23671
Goa	1507	1717	1568	1373	2005	2367	3502
(b) Union Territories							
Chandigarh	28	39	41	67	61	61	62
Delhi	3923	4259	4420	4497	6160	7829	8914
Pondicherry/Mane	-	-	17	20	--	2	39
Total (3)	**142772**	**168626**	**160364**	**184685**	**247832**	**322478**	**429640**
GRAND TOTAL	**156409**	**188808**	**187075**	**210760**	**282441**	**365321**	**472712**

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

(xvi) TRANSPORTATION

Tonnage of Indian Tankers Fleet

(DWT IN '000' Mts.)

	COASTAL OIL TANKER				TOTAL		OFFSHORE		SPECIALISED		TOTAL OFFSHORE		OVERSEAS								OVERSEAS		TOTAL ALL	
	PRODUCT CARRIERS		CRUDE OIL CARRIERS		COASTAL OIL TANKER		SUPPLY VESSELS		VESSELS FOR OFFSHORE		SUPPLY VESSELS & SPECIALISED VESSELS FOR OFFSHORE		ORE OIL BULK		CRUDE OIL CARRIERS		PRODUCT CARRIERS		LPG CARRIERS		(TOTAL)		TANKER	
Year *	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

* As on 31st December of each year.

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

Source : Ministry of Transport

INDIAN TANKER FLEET OFFSHORE SUPPLY VESSELS AS ON 31.03.1992
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 Kala	1972	3827	6700
8. m.t. Nand Kishore	1981	13906	19600
9. m.t. Nand Hari	1981	11135	19600
10. m.t. Nand Kavita	1970	15098	25600
11. m.t. Nand Prakriti	1975	18307	30865
		62273	**102365**
D. M/s. Sagar Lines (India) Pvt.Ltd., Calcutta			
12. m.t. Sagar Tarani	1965	497	712
E. M/s Seatrans Shipping Co. Ltd., Bombay			
13. m.t. Raj Sevak	1966	750	1356
F. The Shipping Credit & Investment Co.of India Ltd.,Bombay.			
14. m.t. Nand Smiti	1982	4275	6600
G. Jaisu Shipping (P) Ltd.			
15. m.t. Al-Nions	1976	298	508
Total 15 Vessels		**134699**	**216951**
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	499	993
11. m.v. Malaviya Six	1981	499	980
12. m.v. Malaviya Seven	1982	985	1035
13. m.v. Malaviya Eight	1982	985	1035
		6876	**8693**
C. M/s.Essar Shipping Ltd., Bombay			
14. m.v. Nand Godavari	1984	1313	1750
15. m.v. Nand Panna	1984	1313	1750
16. m.v. Nand Krishna	1984	1313	1750
17. m.v. Nand Heera	1984	1313	1750
		5252	**7000**
D. M/s India Securities Ltd., Madras			
18. m.v. Nand Cauvery	1984	1299	1868
E. VNS Offshore Services Company, Bombay			
19. m.v. Kansi Namrata	1969	487	737
F. M/s.Hede Ferromina Pvt.Ltd., Goa.			
20. m.v. Ferromina Harvest	1971	629	759
G. M/s.Varun Shipping Co.Ltd., Bombay.			
21. m.v. Neel Kamal	1983	999	1084
22. m.v. Neel Akash	1984	999	1086
23. m.v. Neel Nidhi	1983	1577	1085
24. 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.			
25. m.v. Feroze Gandhi	1984	1310	1391
26. m.v. O.P.Srivastava	1984	1310	1406
27. m.v. SCI-01	1984	1310	1408
28. m.v. SCI-02	1984	1310	1410
29. m.v. SCI-03	1984	1310	1404
30. m.v. SCI-04	1984	1310	1445
31. m.v. SCI-05	1984	1310	1452
32. m.v. SCI-06	1984	1310	1451
33. m.v. Capt. F.V.Jusale (Ex-SCI-07)	1985	1310	1442
34. m.v. Dr.Nagendra Singh	1985	1310	1450
		13100	**14259**
I. The Oil & Natural Gas Commission, Bombay.			
35. m.v. Sindhu-01	1984	1310	1450
36. m.v. Sindhu-02	1985	1310	1450
37. m.v. Sindhu-03	1985	1310	1450
38. m.v. Sindhu-04	1986	1310	1450
39. m.v. Sindhu-06	1985	1302	1457
40. m.v. Sindhu-07	1985	1302	1400
41. m.v. Sindhu-08	1985	1302	1400
42. m.v. Sindhu-09	1985	1302	1400
43. m.v. Sindhu-10	1985	1302	1400
44. m.v. Sindhu-11	1985	1302	1400
45. m.v. Sindhu-16	1987	1323	1450
46. m.v. Samudrika - 01	1986	949	950
47. m.v. Samudrika - 02	1986	949	950
48. m.v. Samudrika - 03	1986	949	950
49. m.v. Samudrika - 05	1986	951	1240
50. m.v. Samudrika - 06	1986	949	950
51. m.v. Samudrika - 07	1986	949	950
52. m.v. Samudrika - 08	1986	949	950
53. m.v. Samudrika - 09	1986	949	950
54. m.v. Samudrika - 10	1986	949	950
55. m.v. Samudrika - 11	1986	949	950
56. m.v. Samudrika - 12	1986	949	950
57. m.v. Samudrika - 14	1985	954	950
58. m.v. Samudrika - 15	1985	954	950
59. m.v. Samudrika - 16	1985	954	950
60. m.v. Samudrika - 17	1985	954	950
61. m.v. Samudrika - 18	1985	954	950
62. m.v. Sagarika - 01	1976	736	818
63. m.v. Sagarika - 02	1976	671	933
		30993	**32948**
Total 63 Vessels		**68193**	**75854**

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.			
1. m.v. Nand Rewant (MSV)	1984	3966	2067
2. m.v. Nand Shamik (MSV)	1982	3963	2067
3. m.v. Essar Discoverer (Drillship)	1977	5971	5326
4. m.v. Essar Stona-I (DSV) Ex.Dynamic Constructor	1981	4485	2965
		18385	**12425**
C. M/s.Underwater Services Co.Pvt.Ltd. Bombay.			
6. m.v. Ocean Pearl (SRSM)	1966	482	670
D. 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 (Survey Launch)	1983	4207	1096
16. m.v. Sagar Samrat	1973	4186	6398
		48277	**38799**
E. M/s.Bombay Offshore Supplies & Services, Bombay.			
17. m.v. BOSS-1 (AHT)	1982	491	516
18. m.v. Bossvishwa (D/S)	1981	11625	8141
		12116	**8657**
F. M/s.Aditi Shipping Co., Bombay.			
19. m.v. Adishakti (Tug)	1976	457	279
G. M/s.South India Corpn.(Agencies)Ltd., Madras			
20. m.v. Sagar Sevak	1972	490	860
H. M/s Jaisu Shipping Co. (P) Ltd.			
21. m.v. Noorani Sea Horse	1970	99	99

Contd.....

Owner/Name of the Ship	Year of Built	G.R.T. (Tonnes)	D.W.T. (Tonnes)
1	2	3	4
I. The Director General of Lighthouses & Lightships			
22. m.v. Paradeep (Steel/Buoy Tender)	1984	602	162
23. m.v. Sagar Deep	1983	2775	1568
		3377	**1730**
J. The Geological Survey of India.			
24. m.v. Samudra Manthan (S. Research)	1985	2374	1825
25. m.v. Samudra Kaustubh	1985	284	94
26. m.v. Samudra Saudhikama	1985	284	94
		2942	**2013**
K. The Council of Scientific & Industrial Research			
27. m.v. Gaveshani	1964	1634	873
28. m.v. Sagar Sampada	1984	2661	800
		4295	**1673**
L. M/s.Goa Diving & Salvage Co.Pvt.Ltd.			
29. m.v. Malacca (Tug)	1963	167	210
30. m.v. Orinoco (Tug)	1964	617	NA
		784	**210**
M. M/s.Pearless Drive			
31. DSV Drive Ocean	1983	1563	2000
N. M/s VNS Offshore Services Co., Bombay			
32. Kansi Gouri (Tug)	1956	132	192
Total 32 Vessels		**94947**	**70807**
OVERSEAS			
ORE OIL BULK CARRIERS			
A. The Shipping Corpn.of India.Ltd., Bombay.			
1. m.v. Vallabhai Patel	1977	62563	113926
2. m.v. Vallathol	1976	62563	114152
3. m.v. Maharshi Dayanand	1978	66926	123450
4. m.v. Maharshi Karve	1978	66926	123450
		258978	**474978**
B. The Great Eastern Shipping Co.Ltd., Bombay.			
5. m.v. Jag Laxmi	1976	66723	122146
6. m.v. Jag Leela	1976	66723	122146
		133446	244292

Contd.....

Owner/Name of the Ship	Year of Built	G.R.T. (Tonnes)	D.W.T. (Tonnes)
1	2	3	4
C. The Shipping Credit & Investment Co.of India Ltd., Bombay.			
7. m.v. Jag Lata	1973	57793	104754
D. Essar Shipping Ltd.,Bombay			
8. m.v. Nand Shivchand	1982	37813	65000
Total 8 Vessel		**488030**	**889024**
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	67162
4. m.t. Company Havildar Major Piru S.PVC	1984	37855	67161
5. m.t. Capt.Gurbachan Singh Salaria PVC	1984	37855	67167
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	1985	37855	67185
10. m.t. Col.Ardshir Burzorji Tarapore	1985	37855	67124
11. m.t. Lt.Rama Raghoba Rane,	1984	37855	67227
12. m.t. Vivekananda	1974	51717	89371
13. m.t. Satyamurthi Chawra	1975	51733	89351
14. m.t. Netaji Subhas Bose	1973	51525	89392
15. m.t. Lok Manya Tilak	1975	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. Zakir Hussain	1975	63460	115853
20. m.t. Kanchanjunga	1975	139820	276755
21. m.t. Koyali	1976	139820	276800
22. m.t. Motilal Nehru	1990	51778	85200
		1184689	**2145711**
B. M/s.Ratnakar Shipping Co.Ltd., Calcutta.			
23. m.t. Ratna Abha	1982	40414	60704
Total 23 Vessels		**1225103**	**2206415**
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

Contd.....

Owner/Name of the Ship	Year of Built	G.R.T. (Tonnes)	D.W.T. (Tonnes)
1	2	3	4
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
		159951	**255133**
B. The Great Eastern Shipping Co.Ltd., Bombay.			
8. m.t. Jag Prakash	1974	15849	25080
9. m.t. Jag Palak	1985	18542	26970
10. m.t. Jag Preeti	1981	21206	28679
11. m.t. Jag Pari	1982	20991	28679
12. m.t. Jag Priya	1975	20415	32360
13. m.t. Jag Prabhat	1985	18542	26967
14. m.t. Jag Pragati	1985	18542	26970
15. m.t. Jag Prabhu	1978	4357	7261
		138444	**202966**
C. M/s.Varun Shipping Co.Ltd., Bombay.			
16. m.t. Vijaydoot	1984	4462	7313
17. m.t. Vishwadoot	1982	18959	29999
18. m.t. Hansdoot	1983	4462	7344
19. m.t. Shaktidoot	1982	17751	29999
		45634	**74655**
D. M/s.Essar Shipping Ltd., Bombay.			
20. m.t. Nand Ekta	1982	4309	6603
E. M/s.Century Shipping., Bombay.			
21. m.t. Aditya Vikram	1981	3850	7070
22. m.t. Aditya Vardhan	1983	4749	7985
23. m.t. Aditya Vaibhav	1983	6481	10885
24. m.t. Aditya Vijay	1981	16899	29990
		31979	**55930**
F. M/s.Continental Shipping Corpn.Ltd., Bombay.			
25. m.t. Continental Bose (Ex.Sunny Crane)	1984	3462	6157
Total 25 Vessels		**383779**	**601444**
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**

SHARE OF TRAFFIC IN PETROLEUM PRODUCTS IN THE TOTAL TRAFFIC HANDLED AT MAJOR PORTS DURING 1969-70 TO 1990-91.

(Million Tonnes)

Name of the Port	Year	Total Traffic	POL Traffic	POL as %age of total Ttraffic 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	15.96	7.66	48.0
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	27.50	20.08	73.0
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	25.04	10.12	40.4
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
	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	7.46	5.83	78.2

Contd.....

(Million Tonnes)

Name of the Port	Year	Total Traffic	POL Traffic	POL as %age of total Ttraffic at the port
1	2	3	4	5
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
J.N.P.T.	1989-90	0.70	--	--
	1990-91	2.03	--	--
	1991-92	2.80	--	--
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
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	15.09	1.86	12.3
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	-	-

Contd.....

(Million Tonnes)

Name of the Port	Year	Total Traffic	POL Traffic	POL as %age of total Ttraffic at the port
	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
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
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
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	157.81	69.58	44.1

SOURCE : Ministry of Surface Transport, Ports Study Cell.
NOTE : Trafic Handled Includes Transhipment Cargo.
* = Kandla Pol traffic includes traffic handled at vadinar

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(P)	25555	10264888	606	66.3	401.68

SOURCE : Railway Board. (P) : Provisional

RAIL FREIGHT 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)				
1.4.1982	71.4	143.3	207.6	357.2	425.5	584.4	729.2	828.0
1.4.1983	78.0	175.2	267.0	393.9	478.5	655.5	796.5	919.5
15.4.1985	78.0	175.2	267.0	433.3	526.4	721.1	876.2	1011.5
1.12.1986	84.3	203.4	326.6	522.1	639.6	814.6	1123.2	1284.2
1.4.1988	89.4	215.6	346.2	553.4	678.0	969.5	1190.6	1361.8
1.4.1989	99.2	239.3	384.3	614.3	752.6	1076.1	1321.6	1511.6
1.4.1990	106.1	256.1	411.2	567.3	805.3	1151.4	1414.1	1617.4
1.10.1990	109.1	263.2	422.7	675.7	827.9	1183.7	1453.8	1662.8
16.8.1991	120.0	289.5	465.0	743.3	910.7	1302.1	1599.20	1829.1
				NON - DANGEROUS (POL - PRODUCTS)				
1.6.1982	53.5	106.3	153.5	263.6	313.5	430.4	530.5	609.0
1.6.1983	59.2	130.5	197.8	290.9	352.9	482.7	586.1	676.3
1.6.1984	63.9	141.7	215.1	316.6	384.3	525.9	638.7	737.1
15.4.1985	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
1.4.1988	78.5	188.5	301.4	481.0	588.9	841.6	1033.2	1181.6
1.4.1989	87.2	208.7	334.5	533.9	653.7	934.2	1146.8	1311.6
1.4.1990	93.3	223.3	357.9	571.3	699.5	999.6	1227.1	1403.4
1.10.1990	95.9	229.6	368.0	587.3	719.1	1027.6	1261.5	1442.8
16.8.1991	105.5	252.6	404.8	646.0	791.0	1130.4	1387.7	1587.1

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 1.4.1992

Pipelines	Owned by	Length in KMS	Diametre in Inches/mm
1	2	3	4
I. CRUDE PIPELINES (ONSHORE)			
Ankleshwar - Koyali (Baroda)	ONGC	94.77	16"
Kalol - Nawaga	ONGC	48.9	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 Baloi	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	450 mm
GGS-I to GGS-XI Kalol	ONGC	4.55	200 mm
IPS of KNK pipeline to IVP of 18"dia Nawagam-Koyali pipeline	ONGC	1.50	350 mm
Lanwa-INSITU project to Lanwa GGS-I	ONGC	4.50	300 mm
Narimanam-Nagapattinam	ONGC	14.00	206.40 mm
Tondiarpet to Madras Refinery	ONGC	5.00	206.40 mm
Becharaji Gas 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"
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 Bordumsa	OIL	23.00	6"
Shalmari to Moran	OIL	28.00	200 mm
Hapjan to Kathalguri OCS	OIL	10.00	200 mm
Nararabet to Salaya Tank Farm 2 lines	IOC	5.70 each	42"
Salaya-Viramgam	IOC	275.00	28"
Viramgam-Koyali	IOC	141.00	18"
Viramgam-Mathura	IOC	803.00	24"
Total Onshore		**3425.26**	

Contd.....

CRUDE OIL, NATURAL GAS & PRODUCT PIPELINES IN INDIA AS ON 1.4.1992

Pipelines	Owned by	Length in KMS	Diametre in Inches/mm
1	2	3	4
II. CRUDE PIPELINES (OFFSHORE)		**530.54**	
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	5.27	42"
III. GAS PIPELINES(ONSHORE)		**2975.97**	
Cambay-Dhauwaran	ONGC	25.00	14"
Ankleshwar-Uttaran	ONGC	38.25	16"
Ankleshwar-Baroda	ONGC	96.55	14"
Nawagam-Calico Mills	ONGC	24.50	8-5/8"
Sanand-Kalol	ONGC	12.67	6-5/8"
Kalol-IFFCO(FG)	ONGC	2.51	8-5/8"
Kalol-IFFCO(AS)	ONGC	2.51	12-3/4"
Subhashan-Dubh Sagar Dairy	ONGC	9.20	8-5/8"
Dabka GCS Sarasvani Valve Platform	ONGC	10.50	4-1/2"
North Kadi CTF to S.Kadi CTF Kadi GIDC	ONGC	16.40	8-5/8"
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 Ajkleshwar CTF	ONGC	2.89	8-5/8"
Kalol GCS - Kadi GIDC	ONGC	19.40	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
Uttram Mawas	ONGC	24.50	12-3/4"
Hazira-Karibhco	ONGC	4.00	16"
Uran-Hazira	ONGC	14.00	36"
ASEB Gas Pipeline	ONGC	16.15	12-3/4"
Lakwa to Maibella Dhiku Junction PT - Lakwa CTF	ONGC	23.50	12-3/4"
Narimanam-Nagapattinam	ONGC	14.00	4"
Narsapur-Palakollu	ONGC	12.20	8"
Naraspur-Karvur	ONGC	72.00	8"
Naraspur-Tatipaka	ONGC	26.60	14"
Gandhar-Dabka	ONGC	47.00	12"
South Santhal CTF to Lanwa EPS-I	ONGC	27.50	4"
Sanand GGS-I to GGS-2	ONGC	5.00	8"
Dahej to Gandhar Via Pakhajan	ONGC	26.50	8"
GIPCO to Chokari Via Undera	ONGC	32.00	12"
Chokari-T point to M/s GIPCO	ONGC	32.19	300 mm
Gandhar GGS to M/s GNFC	ONGC	42.00	450 mm

Contd.....

CRUDE OIL, NATURAL GAS & PRODUCT PIPELINES IN INDIA AS ON 1.4.1992

Pipelines	Owned by	Length in KMS	Diametre in Inches/mm
1	2	3	4
Kalol GGS-I to GGS-XI	ONGC	4.55	200 mm
Kalol GGS-I to XI	ONGC	4.55	100 mm
Kalol-CTF to tap-off point Chankheda from T-connection at Ranasan to AE Co.	ONGC	35.20	200 mm
Kalol GGS-I to Kalol GCS cum CTF	ONGC	5.00	300 mm
GSS to GCS	ONGC	11.00	350 mm
Bharuch City Gas line	ONGC	5.00	100 mm
ND Gas pipeline for M/s GACL	ONGC	5.00	100 mm
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"
Chandkheda tap off point to Ramason tap off point	ONGC		
(a) Main line		14.00	4"
(b) Submerged river crossing across river sabarmati		0.41	4"
Kalol GGS-1 to GGS-7	ONGC	3.30	8"
Digboi - Duliajan	OIL	42.00	10"
Hapjan to Kathalguri GGS	OIL	10.00	200 mm
Hajira - Bijaupur	GAIL	641.00	36"
Bijaupur - Bureru	GAIL	110.00	18"
Bureri - Anta	GAIL	20.00	12"
Bijaypur - Auraiya	GAIL	351.00	30"
Auraiya - Jagdishpur	GAIL	217.00	18"
Auraiya - Delhi	GAIL	466.00	18" - 24"
Auraiya - NTPC Auraiya	GAIL	2.00	12"
Hazira - HTPC Kawas	GAIL	8.00	12"
Vagodia - IPCL Baroda	GAIL	32.00	18"
Ghaziabad Spur II of HBJ	GAIL	10.00	6/4
Tatipaka - Kakinada	GAIL	76.00	18"
Kakinada - NFCL	GAIL	20.00	12"
Delhi - Sonepat - Bahadurgarh	GAIL	80.00	8"/4"
Dadri - Sikandrabad	GAIL	14.00	4"
Vagodia IPCL - GSFC	GAIL	1.10	18"
IV. GAS PIPELINES (OFFSHORE)		**566.91**	
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-II	ONGC	6.00	12"
Uran-Thal	ONGC	21.00	26"
South Bassein to Umrat	ONGC	216.00	36"
BPB - Bassein Hazira B	ONGC	9.98	30"
Heera - Uran	ONGC	80.93	26"
Total Gas Pipelines (III + IV)		**3542.88**	

Contd.....

CRUDE OIL, NATURAL GAS & PRODUCT PIPELINES IN INDIA AS ON 1.4.1992

Pipelines	Owned by	Length in KMS	Diametre in Inches/mm
1	2	3	4
V. PRODUCT PIPELINES			
Digboi-Tinsukia (WOL)	IOC (AOD)	35.48	8-5/8"
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	147.00	16"
Delhi-Ambala	IOC	202.00	14"
Ambala-Jallandhar	IOC	164.00	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) to 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		**2713.48**	
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)		**10260.16**	

* Presently not in operation, due to leakages/damages on the line.

XVII. MARKETING NET WORK

Retail outlets in India as on Ist 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	11873
	%	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	14624
	%	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

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 1.4.1992

State/Union Territories	Retail outlets	MPDC	LDO/SKO dealers	LPG distributors
1	2	3	4	5
STATES				
1. Andhra Pradesh	1193	20	600	340
2. Arunachal Pradesh	26	2	28	13
3. Assam	324	1	340	108
4. Bihar	913	21	389	143
5. Goa	65	1	17	29
6. Gujarat	965	13	458	294
7. Haryana	492	20	137	120
8. Himachal Pradesh	77	1	24	46
9. Jammu & Kashmir	115	1	30	56
10. Karnataka	926	4	301	239
11. Kerala	699	1	233	171
12. Madhya Pradesh	870	18	347	217
13. Maharashtra	1527	16	651	550
14. Manipur	28	3	34	9
15. Meghalaya	49	-	34	15
16. Mizoram	13	1	15	10
17. Nagaland	26	1	18	14
18. Orissa	330	7	168	84
19. Punjab	947	17	230	166
20. Rajasthan	896	28	236	166
21. Sikkim	10	-	8	2
22. Tamil Nadu	1408	-	454	307
23. Tripura	29	1	39	11
24. Uttar Pradesh	1910	72	649	450
25. West Bengal	1006	16	430	225
UNION TERRITORIES :				
26. A.N. Islands	3	-	1	1
27. Chandigarh	20	-	11	26
28. D.N. Haveli	3	-	1	1
29. Delhi	241	1	96	217
30. Daman & Diu	4	-	5	2
31. Pondicherry	27	-	8	5
32. Lakshdweep	-	-	-	1
33. Bhutan	13	-	2	-
GRAND TOTAL	**15155**	**266**	**5994**	**4038**

STATE-WISE NUMBER OF LPG DOMESTIC CONSUMERS AS ON 1.4.1992

(Lakh in Numbers)

SR. NO.	STATES/UNION TERRITORIES	IOC	AOD	BPCL	HPCL	TOTAL
1	2	3	4	5	6	7
STATES						
1.	Andhra Pradesh	5.23	-	2.21	7.21	14.65
2.	Arunachal Pradesh	0.05	0.10	-	0.00	0.15
3.	Assam	1.19	1.53	-	0.00	2.72
4.	Bihar	4.41	-	0.27	0.67	5.35
5.	Goa	0.01	-	0.47	0.74	1.22
6.	Gujarat	10.12	-	3.33	3.39	16.84
7.	Haryana	3.28	-	1.39	0.64	5.31
8.	Himachal Pradesh	1.06	-	0.02	0.19	1.27
9.	Jammu & Kashmir	0.55	-	0.12	1.06	1.73
10.	Karnataka	3.22	-	1.91	3.98	9.11
11.	Kerala	3.97	-	1.34	0.65	5.96
12.	Madhya Pradesh	5.67	-	1.41	2.91	9.99
13.	Maharashtra	1.48	-	15.71	14.31	31.50
14.	Manipur	0.10	0.25	-	0.00	0.35
15.	Meghalaya	0.11	0.13	-	0.00	0.24
16.	Mizoram	0.08	0.10	-	0.00	0.18
17.	Nagaland	0.09	0.12	-	0.00	0.21
18.	Orissa	1.04	-	0.10	1.20	2.34
19.	Punjab	4.45	-	1.47	0.83	6.75
20.	Rajasthan	3.24	-	1.48	1.72	6.44
21.	Sikkim	0.08	-	-	0.00	0.08
22.	Tamil Nadu	10.94	-	2.31	1.64	14.89
23.	Tripura	0.12	0.14	-	0.00	0.26
24.	Uttar Pradesh	14.88	-	3.66	1.59	20.13
25.	West Bengal	6.58	-	0.53	2.05	9.16
	TOTAL	**81.95**	**2.37**	**37.73**	**44.78**	**166.83**
UNION TERRITORIES						
1.	Andaman & Nocobar	0.05	-	-	0.00	0.05
2.	Chandigarh	0.92	-	0.10	0.29	1.31
3.	Dadra & Nagar Haveli	0.00	-	-	0.03	0.03
4.	Delhi	8.58	-	2.59	1.64	12.81
5.	Daman	0.00	-	-	0.07	0.07
6.	Lakshdweep	0.00	-	-	0.00	0.00
7.	Pondicherry	0.22	-	0.04	0.04	0.30
8.	Diu	0.00	-	-	0.00	0.00
	TOTAL	**9.77**	**-**	**2.73**	**2.07**	**14.57**
	GRAND TOTAL	**91.72**	**2.37**	**40.46**	**46.85**	**181.40**

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	35161	98770	53785	4078	156633
1985-86	154.20	8.05	162.25	8134	30168	41156	114119	50933	4985	170037
1986-87	165.77	9.43	175.20	9853	30480	45373	128820	53760	5020	187610
1987-88	179.75	11.16	190.91	11467	30357	47277	149464	47396	5034	201894
1988-89	194.57	12.40	206.97	13217	32040	49505	157510	57793	5822	221125
1989-90	200.89	12.80	213.69	16983	34087	53505	178522	61996	4623	245141
1990-91	211.73	13.77	225.50	17998	33021	51280	186452	71535	6244	264231
1991-92*	229.26	14.68	243.94	18645	30345	50980	208551	72599	5561	286711

* = Provisional @ = Includes RBF

Source = i) Central Electricity Authority and Economic Survey 1991-92
ii) Coal Statistics - Coal Controller's Organization, Department of Coal.

TRENDS IN PRODUCTION OF PRIMARY COMMERCIAL ENERGY

Energy From	Unit	Production				
		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	1960-60	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

Sector	Percentage share in Consumption				
	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 Liqnite at current prices.

(Rs.Lakhs)

Year	Crude Petroleum & Natural Gas	Coal & Lignite
1	2	3
1976-77	18978	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

XIX - GENERAL

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

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1984-85 (Revised)	319546	217644

XX. INTERNATIONAL PETROLEUM STATISTICS

World Proved Reserves of Crude oil at End 1991

Country	Thousand million tonnes	Thousand million barrels	Share of total	R/P ratio
1	2	3	4	5
North America				
USA	4.3	33.8	3.4%	10.1
Canada	1.0	7.9	0.8%	10.5
Total North America	**5.3**	**41.7**	**4.2%**	**10.2**
Latin America				
Argentina	0.2	1.6	0.2%	9.3
Brazil	0.3	2.8	0.3%	10.4
Ecuador	0.2	1.6	0.2%	13.4
Mexico	7.2	51.3	5.1%	48.0
Venezuela	8.5	59.1	5.9%	63.9
Others	0.5	3.4	0.3%	12.3
Total Latin America	**16.9**	**119.8**	**12.0%**	**43.1**
OECD Europe				
Norway	1.0	7.6	0.8%	10.7
United Kingdom	0.5	4.0	0.4%	5.8
Others	0.4	2.9	0.3%	13.2
Total OECD Europe	**1.9**	**14.5**	**1.5%**	**9.0**
Non-OECD Europe				
Ex-USSR	7.8	57.0	5.6%	15.1
Others	0.2	1.8	0.2%	16.2
Total Non-OECD Europe	**8.0**	**58.8**	**5.8%**	**15.1**
Middle East				
Abu Dhabi	12.1	92.2	9.2%	*
Dubai & Northern Emirates	0.8	5.9	0.6%	32.9
Iran	12.7	92.9	9.3%	78.2
Iraq	13.4	100.0	10.0%	*
Kuwait	12.9	94.0	9.4%	*
Neutral Zone	0.7	5.0	0.5%	*
Oman	0.6	4.3	0.4%	16.5
Qatar	0.5	3.7	0.4%	23.8
Saudi Arabia	35.1	257.8	25.8%	83.6
Syria	0.2	1.7	0.1%	10.0
Yemen	0.4	4.0	0.4%	37.7
Others	+	0.1	+	4.9
Total Middle East	**89.4**	**661.6**	**66.1%**	*
Africa				
Algeria	1.2	9.2	0.9%	21.2
Angola	0.3	1.8	0.2%	10.3
Egypt	0.6	4.5	0.4%	13.5
Gabon	0.1	0.7	0.1%	6.8
Libya	3.0	22.8	2.3%	41.7
Nigeria	2.4	17.9	1.8%	26.0
Tunisia	0.2	1.7	0.1%	42.7
Others	0.2	1.8	0.2%	15.0
Total Africa	**8.0**	**60.4**	**6.0%**	**24.5**
Asia & Australasia				
Brunei	0.2	1.4	0.1%	33.2
China	3.2	24.0	2.4%	22.6
India	0.8	6.1	0.6%	25.6
Indonesia	0.9	6.6	0.7%	12.2
Japan	+	0.1	+	11.6
Malaysia	0.4	3.0	0.3%	12.5
Other Asia	0.2	1.2	0.1%	17.9
Australia	0.2	1.5	0.2%	8.0
New Zealand	+	0.2	+	11.1
Total Asia & Australasia	**5.9**	**44.1**	**4.4%**	**18.3**
TOTAL WORLD	**135.4**	**1000.9**	**100.0%**	**43.4**
Of which OECD	7.4	58.0	5.8%	9.8
Of which OPEC	104.5	769.4	76.9%	86.6

*Over 100 years + Less than 0.05 Source: BP Statistical Review of World Energy June, 1992.

WORLD PROVED RESERVES OF NATURAL GAS AT END 1991

Country	Trillion cubic feet	Trillion cubic metres	Share of total	R/P ratio
1	2	3	4	5
North America				
USA	169.3	4.8	3.9%	9.5
Canada	96.7	2.7	2.2%	25.9
Total North America	**266.0**	**7.5**	**6.1%**	**12.3**
Latin America				
Argentina	20.4	0.6	0.5%	23.9
Ecuador	3.9	0.1	0.1%	*
Mexico	71.5	2.0	1.6%	71.8
Trinidad	8.9	0.3	0.2%	59.3
Venezuela	110.0	3.1	2.5%	*
Others	23.7	0.7	0.5%	43.6
Total Latin America	**238.4**	**6.8**	**5.4%**	**69.2**
OECD Europe				
Germany	8.8	0.3	0.2%	13.7
Netherlands	69.6	2.0	1.6%	28.5
Norway	60.7	1.7	1.4%	62.9
United Kingdom	19.2	0.5	0.4%	10.0
Others	20.3	0.6	0.5%	20.7
Total OECD Europe	**178.6**	**5.1**	**4.1%**	**25.7**
Non-OECD Europe				
Ex-USSR	1750.0	49.5	40.0%	61.4
Others	16.4	0.5	0.4%	11.2
Total Non-OECD Europe	**1766.4**	**50.0**	**40.4%**	**58.9**
Middle East				
Abu Dhabi	182.8	5.2	4.2%	*
Bahrain	6.0	0.2	0.1%	26.9
Dubai & Northern Emirates	16.5	0.5	0.4%	92.7
Iran	600.4	17.0	13.7%	*
Iraq	95.0	2.7	2.2%	*
Kuwait	48.0	1.4	1.1%	*
Qatar	162.0	4.6	3.7%	*
Neutral Zone	1.0	+	+	*
Saudi Arabia	184.0	5.2	4.2%	*
Others	23.4	0.6	0.5%	94.2
Total Middle East	**1319.1**	**37.4**	**30.1%**	*
Africa				
Algeria	116.5	3.3	2.7%	65.9
Egypt	12.4	0.4	0.3%	38.6
Gabon	0.5	+	+	*
Libya	43.0	1.2	1.0%	*
Nigeria	104.7	3.0	2.4%	*
Others	33.2	0.9	0.7%	*
Total Africa	**310.3**	**8.8**	**7.1%**	*
Asia & Australasia				
Bangladesh	25.6	0.7	0.6%	*
Brunei	11.2	0.3	0.3%	32.7
China	35.4	1.0	0.8%	67.3
India	25.8	0.7	0.6%	48.8
Indonesia	64.8	1.8	1.5%	36.2
Japan	1.0	+	+	13.3
Malaysia	59.1	1.7	1.3%	73.8
Pakistan	22.6	0.7	0.5%	42.6
Other Asia	35.3	1.0	0.7%	70.1
Australia	15.1	0.4	0.3%	19.3
New Zealand	3.4	0.1	0.1%	21.3
Total Asia & Australasia	**299.3**	**8.4**	**6.8%**	**48.2**
TOTAL WORLD	**4378.1**	**124.0**	**100.0%**	**58.7**
Ofwhich OECD	464.1	13.1	10.6%	15.7
Of which OPEC	1733.1	49.1	39.7%	*

*Over 100 years + Less than 0.05 Source: BP Statistical Review of World Energy June, 1992.

WORLD ESTIMATED CRUDE OIL PRODUCTION 1981-1991*

(Million Tonnes)

Country	1981	1985	1987	1988	1989	1990	1991(P)	% age change 1991 over 1990.	% age share of Total 1991
1	2	3	4	5	6	7	8	9	10
North America									
USA	482.8	500.8	471.3	461.9	433.0	420.6	424.8	+1.0	13.6
Canada	75.9	86.2	90.9	95.4	93.2	93.7	93.9	+0.2	3.0
Total North America	**558.7**	**587.0**	**562.2**	**557.3**	**526.2**	**514.3**	**518.7**	**+0.9**	**16.6**
Latin America									
Argentina	25.5	24.0	22.3	23.5	22.9	24.0	24.0	+0.2	0.8
Brazil	10.7	28.1	29.7	31.0	30.9	33.0	32.7	-1.1	1.0
Colombia	6.8	8.9	19.6	19.3	20.1	21.9	21.2	-3.2	0.7
Equador	10.3	13.5	8.8	15.0	14.5	15.0	15.5	+3.5	0.5
Mexico	126.3	149.7	141.8	140.6	138.9	142.0	148.9	+4.8	4.8
Trinidad	10.1	8.8	8.3	7.6	7.4	7.4	7.3	-1.4	0.2
Venezuela	112.5	87.6	89.0	99.4	105.6	123.0	135.7	+10.3	4.3
Others	13.6	13.6	12.0	10.6	10.3	10.2	9.9	-2.9	0.3
Total Latin America	**317.8**	**334.2**	**331.5**	**347.0**	**350.6**	**376.5**	**395.2**	**+5.0**	**12.6**
OECD Europe									
Denmark	0.8	2.9	4.6	4.7	5.5	5.9	7.4	+25.4	0.2
Norway	24.9	40.3	49.1	56.7	74.9	81.9	93.4	+14.0	3.0
United Kingdom	89.4	126.2	123.3	114.4	91.8	91.6	91.6	+	2.9
Others	14.4	20.7	22.6	23.2	22.1	22.3	23.0	+3.1	0.7
Total OECD Europe	**129.5**	**192.1**	**199.6**	**199.0**	**194.3**	**201.7**	**215.4**	**+6.8**	**6.8**
Non-OECD Europe									
Ex-USSR	613.1	592.3	624.2	624.3	607.3	570.8	515.2	-9.7	16.5
Others	21.5	21.7	21.0	20.7	20.0	18.0	15.0	-16.9	0.5
Total Non-OECD Europe	**634.6**	**614.0**	**645.2**	**645.0**	**627.3**	**588.8**	**530.2**	**-9.9**	**17.0**
Middle East									
Abu Dhabi	54.5	41.6	56.1	60.0	73.7	85.7	100.3	+17.0	3.2
Dubai & N. Emirates	18.3	22.5	24.3	24.3	23.5	23.3	24.2	+3.8	0.8
Iran	65.8	110.0	114.7	112.5	141.1	155.3	162.0	+4.3	5.2
Iraq	44.0	70.6	102.4	127.4	138.6	98.2	11.3	-88.5	0.4
Kuwait	48.2	45.7	53.5	66.6	81.1	51.8	4.4	-91.5	0.1
Neutral Zone	19.5	17.0	20.2	16.6	19.3	16.3	6.8	-58.4	0.2
Oman	16.4	25.4	29.1	29.8	29.4	34.1	35.3	+3.4	1.1
Qatar	20.2	15.9	15.9	16.9	19.3	21.2	20.5	-3.4	0.6
Saudi Arabia	491.3	173.1	212.2	256.6	257.3	326.1	419.4	+28.6	13.4
Syra	8.7	9.4	12.2	14.5	17.3	21.0	24.5	+16.6	0.8
Yemen	-	-	0.1	8.5	9.7	9.5	10.9	+14.7	0.3
Others	2.4	2.2	2.5	2.2	2.2	2.3	2.1	-8.7	0.1
Total Middle East	**789.3**	**533.4**	**643.2**	**735.9**	**812.5**	**844.8**	**821.7**	**-2.7**	**26.2**
Africa									
Algeria	46.3	47.7	48.9	47.2	51.5	55.2	56.4	+2.1	1.8
Angola	7.1	11.8	17.9	23.1	23.1	24.1	25.0	+3.8	0.8
Cameroon	4.4	8.0	8.4	9.0	8.5	7.9	7.5	-5.1	0.2
Congo	3.6	5.6	5.7	6.6	7.5	7.6	7.5	-1.3	0.2
Egypt	34.1	45.3	45.9	44.0	44.5	45.5	46.0	+1.1	1.5
Gabon	7.6	7.7	7.8	8.7	10.6	13.6	14.8	+8.8	0.5
Libya	58.7	52.7	47.9	50.6	55.5	64.8	72.2	+11.4	2.3
Nigeria	71.0	72.9	63.7	67.6	80.6	87.8	93.6	+6.6	3.0
Others	6.6	7.1	6.8	6.6	6.8	6.1	6.7	+9.8	0.2
Total Africa	**239.4**	**258.8**	**253.0**	**263.4**	**288.6**	**312.6**	**329.7**	**+5.5**	**10.5**
Asia & Australasia									
Brunei	8.6	7.4	7.0	7.0	7.0	7.0	8.0	+13.3	0.3
China	101.0	124.9	132.9	137.0	137.6	138.3	139.6	+0.9	4.5
India	14.9	29.9	30.1	31.6	33.7	33.3	31.0	-6.9	1.0
Indonesia	82.2	63.9	63.3	63.8	67.9	70.1	72.9	+3.9	2.3
Malaysia	12.4	21.3	24.6	26.7	28.8	30.6	32.1	+4.9	1.0
Other Asia	3.0	5.3	6.5	5.7	7.5	10.5	9.9	-5.7	0.3
Australasia	19.0	29.6	28.8	27.9	26.5	28.5	27.2	-4.4	0.9
Total Asia & Australasia	**241.1**	**282.3**	**293.5**	**300.0**	**309.5**	**318.9**	**321.6**	**+**	**10.3**
TOTAL WORLD	**2910.4**	**2801.8**	**2928.2**	**3047.6**	**3109.0**	**3157.6**	**3132.5**	**-0.8**	**100.0**
Of which OECD	707.6	809.2	791.2	784.8	747.5	745.1	761.9	+2.3	24.3
Of which OPEC	1150.4	842.4	928.7	1033.2	1140.1	1207.4	1210.0	+0.2	38.6

* 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 1992.

CRUDE OIL PRODUCTION BY OPEC MEMBER COUNTRIES (1975-1991)

(Million Tonnes)

OPEC Countries	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991(P)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Algeria	48	52	46	46	43	46	48	49	49	47	52	55	56
Ecuador	8	10	10	10	12	13	14	14	9	15	15	15	16
Gabon	11	9	8	8	8	8	8	8	8	9	11	14	15
Indonesia	65	78	82	69	65	69	64	67	63	64	68	70	73
Iran	268	74	66	120	122	109	110	95	115	113	141	155	162
Iraq	111	130	44	50	54	60	71	85	102	127	139	98	11
Kuwait	94	72	48	35	45	49	46	62	54	67	81	52	4
Libya	71	88	59	55	53	53	53	50	48	51	56	65	72
Nigeria	89	102	71	64	61	69	73	72	64	68	81	88	94
Qatar	21	22	20	16	15	20	16	17	16	17	19	21	21
Saudi Arabia	344	493	491	328	256	233	173	251	212	257	257	326	419
U.A.E.	107	112	92	75	72	78	78	91	100	99	114	125	131
Venezuela	125	116	113	101	97	98	88	93	89	99	106	123	136
TOTAL	**1362**	**1358**	**1150**	**977**	**903**	**905**	**842**	**954**	**929**	**1033**	**1140**	**1207**	**1210**

P = Provisional.

Source : BP Statistical Review of World Energy June 1992.

WORLD PRODUCTION OF NATURAL GAS 1981-1991*

(Million Tonnes Oil equivalent)

Country	1981	1985	1987	1988	1989	1990	1991(P)	% change 1991 over 1990	% share of total 1991
1	2	3	4	5	6	7	8	9	10
North America									
USA	492.5	422.7	426.2	436.1	441.4	454.2	455.6	+0.3	25.1
Canada	67.4	68.9	70.7	81.7	87.0	89.4	95.1	+6.3	5.2
Total North America	**559.9**	**491.6**	**496.9**	**517.8**	**528.4**	**543.6**	**550.7**	**+1.3**	**30.3**
Latin America									
Argentina	7.5	12.7	16.8	19.3	21.8	20.7	21.8	+5.5	1.2
Bolivia	2.3	2.2	2.4	2.5	2.6	2.7	2.7	-0.3	0.2
Colombia	2.6	3.7	3.7	4.4	4.3	4.7	4.8	+2.1	0.3
Mexico	23.3	25.3	23.7	23.5	24.1	25.5	25.4	-0.4	1.4
Trinidad	2.2	2.9	3.5	4.0	3.9	3.7	3.8	+2.8	0.2
Venezuela	15.0	15.6	16.7	16.9	16.8	19.5	22.9	+17.5	1.3
Others	3.0	5.7	5.9	5.9	5.9	6.1	6.4	+4.3	0.3
Total Latin America	**55.9**	**68.1**	**72.7**	**76.5**	**79.4**	**82.9**	**87.8**	**+5.9**	**4.9**
OECD Europe									
France	6.6	4.5	3.2	2.6	2.7	2.8	3.2	+14.2	0.2
Germany	17.2	15.7	19.1	17.3	16.3	16.6	16.3	-1.8	0.9
Italy	11.6	12.4	14.7	14.9	15.3	15.6	15.6	+	0.9
Netherlands	67.6	64.4	56.1	49.9	54.1	54.5	62.2	+14.1	3.4
Norway	23.5	22.8	26.7	26.8	27.7	25.1	24.6	-1.9	1.3
United Kingdom	31.9	37.1	40.8	39.3	38.3	42.5	48.8	+14.9	2.7
Others	2.2	4.1	4.5	5.0	5.8	5.7	6.2	+8.6	0.3
Total OECD Europe	**160.6**	**161.0**	**165.1**	**155.8**	**160.2**	**162.8**	**176.9**	**+8.7**	**9.7**
Non-OECD Europe									
Ex-USSR	389.7	531.7	586.3	619.5	640.4	655.4	652.3	-0.5	35.9
Others	37.8	41.4	40.4	36.9	36.4	30.8	28.2	-8.2	1.6
Total Non-OECD Europe	**427.5**	**573.1**	**626.7**	**656.4**	**676.8**	**686.2**	**680.5**	**-0.8**	**37.5**
Middle East									
Abu Dhabi	6.5	11.0	14.3	14.7	16.7	15.5	17.3	+11.7	1.0
Iran	6.5	13.1	14.4	18.0	19.5	21.5	26.0	+20.7	1.4
Saudi Arabia	14.7	16.9	24.1	26.2	26.8	27.5	29.9	+8.8	1.6
Others	13.2	15.8	21.3	26.1	29.3	29.4	25.9	-11.9	1.4
Total Middle East	**40.9**	**56.8**	**74.1**	**85.0**	**92.3**	**93.9**	**99.1**	**+5.5**	**5.4**
Africa									
Algeria	22.1	30.9	35.6	37.5	40.2	42.5	45.1	+6.1	2.5
Egypt	1.2	4.6	5.7	6.2	7.0	7.3	8.2	+12.2	0.5
Libya	3.6	4.7	6.0	5.1	5.4	6.0	6.1	+2.1	0.3
Nigeria	1.6	1.3	3.3	3.4	3.9	3.8	4.2	+10.3	0.2
Others	0.7	1.0	0.8	0.8	0.9	0.9	0.9	+10.1	+
Total Africa	**29.2**	**42.5**	**51.4**	**53.0**	**57.4**	**60.5**	**64.5**	**+6.5**	**3.5**
Asia & Australasia									
Brunei	8.2	7.6	7.9	7.8	7.5	8.5	8.7	+2.5	0.5
China	11.6	11.5	12.5	12.6	12.9	13.2	13.4	+1.4	0.7
Japan	1.9	2.0	2.0	1.9	1.9	1.8	1.9	+5.2	0.1
Indonesia	17.3	27.3	32.9	34.2	39.9	42.7	45.7	+7.0	2.5
Malaysia	-	9.2	14.0	14.8	16.8	17.3	20.4	+17.6	1.1
Other East Asia	0.2	4.6	5.0	6.5	6.8	7.0	7.7	+9.8	0.4
India	3.5	7.9	10.9	12.8	15.9	18.0	18.6	+3.3	1.0
Pakistan	6.1	9.3	10.7	11.3	11.2	12.9	13.5	+4.6	0.8
Other South Asia	4.4	5.7	6.8	7.3	7.9	9.3	9.5	+2.8	0.5
Australasia	11.9	15.3	17.3	18.0	20.1	22.8	24.0	+5.3	1.3
Total Asia & Australasia	**63.8**	**99.6**	**117.6**	**124.4**	**136.2**	**148.5**	**158.3**	**+6.5**	**8.7**
TOTAL WORLD	**1337.8**	**1492.7**	**1604.5**	**1668.9**	**1730.7**	**1778.4**	**1817.8**	**+2.2**	**100.0**
Of which OECD	734.3	669.9	681.3	693.5	710.6	731.0	753.5	+3.1	41.4
Of which LDCs	176.0	249.7	296.5	319.0	343.3	361.2	383.8	+6.2	21.1

Excluding gas flared or recycled

P : Provisional

\+ Less than 0.05

Source : BP Statistical Review of World Energy June 1992.

WORLD CONSUMPTION OF NATURAL GAS 1981-1991*

(Million Tonnes Oil equivalent)

Country	1981	1985	1987	1988	1989	1990	1991 (P)	% Change 1991 over 1990	% share of Total 1991
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
North America									
USA	498.2	449.4	447.2	467.5	488.4	486.3	507.7	+4.4	28.7
Canada	47.8	44.8	41.2	52.8	57.5	55.6	57.2	+2.9	3.2
Total North America	**546.0**	**494.2**	**488.4**	**520.3**	**545.9**	**541.9**	**564.9**	**+4.2**	**31.9**
Latin America									
Argentina	10.0	14.9	14.8	17.8	19.0	18.1	19.0	+5.0	1.1
Brazil	1.2	3.1	3.1	3.1	3.2	3.6	3.7	+1.6	0.2
Mexico	24.4	24.6	24.0	24.1	25.1	30.6	33.4	+9.2	1.9
Venezuela	14.0	15.4	16.7	17.0	17.1	17.6	18.6	+5.7	1.0
Others	6.8	8.0	8.5	8.7	8.7	8.8	9.6	+8.8	0.5
Total Latin America	**56.4**	**66.0**	**67.1**	**70.7**	**73.1**	**78.7**	**84.3**	**+7.1**	**4.7**
OECD Europe									
Austria	3.9	4.5	4.6	4.4	4.7	5.2	5.7	+11.3	0.3
Belgium & Luxembourg	9.5	8.4	8.5	8.4	9.4	9.5	8.6	-10.0	0.5
Denmark	-	0.6	1.3	1.6	1.7	1.8	2.0	+9.6	0.1
Finland	0.6	0.8	1.4	1.4	1.9	2.3	2.4	+5.5	0.1
France	24.5	23.3	25.0	23.6	24.4	26.4	27.6	+4.5	1.6
Germany	49.4	49.1	53.2	52.4	53.5	53.9	56.8	+5.2	3.2
Greece	-	0.1	0.1	0.1	0.1	0.1	0.2	+7.9	+
Iceland	-	-	-	-	-	-	-	-	-
Republic of Ireland	0.9	1.8	1.0	1.2	1.5	1.3	1.4	+4.6	0.1
Italy	22.8	27.2	32.2	34.1	36.9	39.1	41.4	+5.9	2.4
Netherlands	30.0	32.5	33.6	30.6	31.3	31.0	33.5	+8.2	1.9
Norway	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Spain	2.1	2.1	2.7	3.5	4.5	5.0	5.5	+9.3	0.3
Sweden	-	0.1	0.3	0.4	0.6	0.6	0.7	+10.6	+
Switzerland	0.8	1.0	0.9	1.1	1.3	1.3	1.5	+14.0	0.1
Turkey	-	-	0.6	1.0	2.7	3.0	3.8	+24.1	0.2
United Kingdom	42.4	48.4	50.5	47.9	47.4	49.0	54.2	+10.7	3.1
Total OECD Europe	**186.9**	**199.9**	**215.9**	**211.7**	**221.9**	**229.5**	**245.3**	**+6.8**	**13.9**
Non-OECD Europe									
Ex-USSR	346.7	479.7	508.9	539.3	548.0	557.4	560.0	+0.5	31.7
Czechoslovakia	7.3	8.1	9.4	9.5	9.9	10.9	10.2	-6.3	0.6
Hungary	7.8	9.5	10.0	9.9	10.1	9.4	9.2	-2.8	0.5
Poland	8.3	8.9	9.8	9.7	9.5	8.9	8.1	-8.8	0.5
Others	34.5	41.1	42.1	38.8	42.7	38.5	32.4	-15.8	1.8
Total Non-OECD Europe	**404.6**	**547.3**	**580.2**	**607.2**	**620.2**	**625.1**	**619.9**	**-0.8**	**35.1**
Middle East									
Total Middle East	**36.8**	**51.0**	**68.6**	**76.4**	**77.5**	**75.3**	**79.9**	**+6.2**	**4.5**
Africa									
Total Africa	**21.3**	**26.2**	**27.6**	**29.0**	**31.0**	**32.7**	**32.9**	**+0.8**	**1.8**
Asia & Australasia									
Australia	10.6	12.4	14.0	14.3	15.7	16.5	16.5	+	0.9
China	10.4	11.5	12.8	12.7	12.9	13.2	13.4	+1.4	0.8
India	2.4	5.4	10.9	10.1	11.8	14.4	13.9	-3.5	0.8
Indonesia	3.1	5.4	5.8	6.0	6.8	7.7	8.1	+4.9	0.5
Japan	24.2	35.9	37.3	39.6	42.4	45.4	49.5	+9.2	2.8
Malaysia	0.3	2.4	4.8	5.6	6.7	6.8	8.1	+17.9	0.5
New Zealand	1.0	3.3	3.8	4.2	4.0	4.0	4.1	+3.0	0.2
Phillippines	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-
South Korea	-	-	2.1	2.7	2.6	2.9	3.5	+21.1	0.2
Taiwan	1.3	1.0	0.9	1.0	1.0	1.3	1.9	+46.4	0.1
Thailand	0.3	2.6	3.5	5.2	4.6	5.6	6.8	+20.9	0.4
Others	10.9	11.5	13.1	13.9	15.5	16.3	17.8	+8.7	1.0
Total Asia & Australasia	**63.7**	**89.5**	**103.8**	**111.8**	**121.8**	**130.9**	**142.5**	**+8.7**	**8.1**
TOTAL WORLD	**1315.7**	**1474.1**	**1551.6**	**1627.1**	**1691.4**	**1714.1**	**1769.7**	**+3.2**	**100.0**
Of which OECD	768.7	745.7	759.4	790.1	829.9	837.3	880.3	+5.1	49.7
Of which LDCs	142.4	181.1	212.0	229.8	241.3	251.7	269.5	+7.1	15.2

* The discrepancy between these consumption and production statistics includes gas consumed in field operations, material impurities and statistical measurement deviations

\+ Less than 0.05 P : Provisional Source : BP Statistical Review of World Energy June 1992

PRODUCTIVITY OF PRODUCING WELLS IN SELECTED FIELDS IN OPEC MEMBER COUNTRIES-1991.

(AS AT YEAR END)

COUNTRY	Average Depth (Feet)	WELLS			AV-Daily Production (000'bbl)	t/w/d
		Flowing	Pumping	Total		
1.	2.	3.	4.	5.	6.	7.
Algeria	7843	727	242	969	803	113
Divided Zone	5250	73	-	73	N.A.	N.A.
Ecuador	9626	81	1001	1082	309	39
Gabon	4699	170	196	366	295	110
Indonesia	3588	1244	6640	7884	1472	25
I.R.Iran	9615	688	-	688	3432	681
Iraq	N.A.	N.A.	-	N.A.	273	N.A.
Kuwait	4800	295	-	295	193	89
S.P. Libyan A.J.	9392	525	553	1078	1493	189
Nigeria	9137	351	1344	1695	1893	152
Qatar	6749	209	20	229	391	233
Saudi Arabia	7098	1400	-	1400	8116	791
U.A.E.	7966	1148	333	1481	2389	220
Venezuela	4810	7035	10352	17387	2286	18
Total OPEC	5432	13946	20681	34627	23345	92

t/w/d = Tonne/Well/Day.

N.A. = Not Available.

Source = OPEC Annual Statistical Bulletin - 1991

WORLD OIL REFINING CAPACITIES AT END 1981 TO 1991

(Million Tonnes Per Annum)

COUNTRY/AREA.	1981	1985	1986	1987	1988	1989	1990	1991 (P)	% change 1991 over 1990	% Share of Total 1991
1	2	3	4	5	6	7	8	9	10	11
North America	**1015**	**870**	**871**	**874**	**887**	**871**	**866**	**855**	**-1.3**	**22.3**
USA	908	767	768	772	793	779	772	761	-1.4	19.8
Canada	107	103	103	102	94	92	94	94	-	2.5
Latin America	**450**	**369**	**372**	**376**	**377**	**394**	**392**	**387**	**-1.3**	**10.1**
Argentina	34	33	33	34	34	34	34	34	-	0.9
Brazil	76	65	65	70	70	73	70	70	-0.4	1.8
Mexico	76	89	89	89	88	96	99	92	-7.1	2.4
Netherlands Antill	39	16	16	16	16	16	16	23	43.8	0.6
Trinidad	22	13	15	15	15	15	12	12	-	0.3
Venezuela	70	61	61	59	60	60	58	58	-	1.5
Others	133	92	93	93	94	100	103	98	-4.9	2.6
OECD Europe	**1000**	**754**	**738**	**730**	**724**	**706**	**709**	**714**	**0.7**	**18.6**
Belgium	48	36	35	35	35	35	35	35	-	0.9
France	160	108	101	94	90	84	84	84	-	2.2
Germany	171	113	110	108	108	100	101	110	8.9	2.9
Italy	198	128	127	123	117	116	114	115	0.9	3.0
Netherlands	88	68	69	69	69	69	69	69	-	1.8
Spain	77	71	70	70	71	71	70	70	-	1.8
United Kingdom	117	93	91	90	91	91	92	92	-	2.4
Others	141	137	135	141	143	140	144	139	-3.5	3.6
Non-OECD Europe	**697**	**717**	**734**	**736**	**742**	**758**	**758**	**757**	**-0.1**	**19.7**
Ex-USSR	576	596	609	609	610	610	610	610	-	15.9
Others	121	121	125	127	132	148	148	147	-0.7	3.8
Middle East	**161**	**189**	**191**	**207**	**217**	**222**	**249**	**248**	**-0.4**	**6.5**
Bahrain	12	13	12	13	12	12	12	12	-	0.3
Iran	31	26	26	26	26	26	36	36	-	0.9
Iraq	13	16	16	16	16	16	16	16	-	0.4
Kuwait	26	31	31	31	41	41	41	41	-	1.1
Saudi Arabia	33	55	56	68	68	74	92	92	-	2.4
Others	46	48	50	53	54	53	52	51	-1.9	1.4
Africa	**101**	**127**	**126**	**131**	**140**	**141**	**142**	**139**	**-2.1**	**3.6**
Asia & Australasia	**630**	**637**	**632**	**626**	**623**	**628**	**701**	**735**	**4.9**	**19.2**
China	90	107	108	111	117	123	143	143	-	3.7
Indonesia	25	39	39	39	39	39	41	41	-	1.1
Japan	282	247	233	227	217	209	217	229	5.5	6.0
Singapore	51	51	48	43	46	50	53	54	1.9	1.4
South Asia	44	57	61	64	64	65	67	67	-	1.8
Of which India*	31.8	37.8	45.6	46.7	48.7	51.8	51.8	51.8	-	1.4
Other Asia	98	101	106	106	103	105	140	161	15.0	4.2
Australasia	40	35	37	36	37	37	40	40	-	1.0
TOTAL WORLD	**4054**	**3663**	**3664**	**3680**	**3710**	**3720**	**3819**	**3836**	**0.4**	**100.0**

* : As on Ist April each year (P) = Provisional.

SOURE: BP Statistical review of World Energy June 1992.

WORLD REFINERY CRUDE THROUGHPUT : 1980 TO 1991

(Million Tonnes Per Annum)

COUNTRY/AREA.	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 (P)	% age change 1991 over 1990	% Share of total 1991
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
U.S.A.	673	619	585	580	599	596	631	638	659	665	666	660	-0.9	22.0
Canada	95	88	75	72	73	71	69	73	76	77	79	74	-6.3	2.5
Latin America	328	333	308	296	291	277	279	281	299	306	312	304	-2.6	10.1
OECD Europe	635	565	522	504	510	494	522	515	534	576	590	604	2.4	20.1
Middle East	122	109	112	125	133	139	146	148	156	159	159	136	-14.5	4.5
Africa	73	76	86	95	98	100	104	108	110	113	122	124	1.6	4.1
China	71	69	75	79	88	88	93	97	101	105	107	113	5.6	3.8
Japan	200	180	167	162	167	155	148	144	149	158	171	179	4.7	5.9
South Asia	35	39	42	44	44	51	56	57	57	61	61	62	1.6	2.1
Of which India	25	30	32	34	35	41	44	47	48	52	52	51	-1.9	1.7
Other Asia	119	125	117	120	124	133	139	138	157	167	178	193	8.4	6.4
Australasia	32	33	31	30	31	29	29	32	34	35	35	37	5.7	1.2
Non-OECD Europe	563	606	609	608	597	582	595	597	601	593	558	519	-7.0	17.3
TOTAL WORLD:	**2946**	**2842**	**2729**	**2715**	**2755**	**2715**	**2811**	**2828**	**2933**	**3015**	**3038**	**3004**	**-1.1**	**100.0**
Of which OECD & LDCs	**2304**	**2159**	**2037**	**2020**	**2062**	**2036**	**2115**	**2125**	**2332**	**2422**	**2480**	**2485**	**0.2**	**82.7**

SOURCE: BP Statistical Review of the World Energy, 1992.

P : Provisional

COUNTRY-WISE WORLD OIL CONSUMPTION 1981-91*

(Million Tonnes)

COUNTRY/AREA.	1981	1985	1987	1988	1989	1990	1991 (P)	% Change 1991 over 1990	% Share of total 1991
1	2	3	4	5	6	7	8	9	10
North America									
USA	746.0	721.7	767.3	793.4	792.6	781.5	774.4	-0.9	24.6
Canada	81.7	68.5	73.1	76.8	80.3	77.7	74.8	-3.8	2.4
Total North America	**827.7**	**790.2**	**840.4**	**870.2**	**872.9**	**859.2**	**849.2**	**-1.2**	**27.0**
Latin America									
Argentina	25.8	21.5	24.6	24.2	22.3	20.7	20.1	-2.8	0.6
Brazil	52.5	52.1	59.1	60.3	60.4	63.3	63.3	+0.1	2.0
Mexico	57.9	60.0	61.4	61.6	64.9	69.6	72.6	+4.3	2.3
Venezuela	20.8	18.4	18.3	18.0	16.5	16.9	17.3	+2.5	0.6
Others	71.4	71.0	75.0	77.7	80.7	79.1	79.0	-0.1	2.5
Total Latin America	**228.4**	**223.0**	**238.4**	**241.8**	**244.8**	**249.6**	**252.3**	**+1.1**	**8.0**
OECD Europe									
Austria	11.0	9.8	10.7	10.6	10.4	10.8	11.2	+4.0	0.4
Belgium & Luxembourg	24.5	20.8	23.7	24.4	24.4	24.8	25.9	+4.6	0.8
Denmark	12.8	10.7	9.6	9.5	9.2	9.0	9.1	+1.5	0.3
Finland	12.3	10.8	11.2	11.0	11.0	11.0	10.6	-3.5	0.3
France	99.0	84.3	86.6	86.0	88.4	89.4	94.4	+5.6	3.0
Germany	133.4	126.3	129.5	129.4	121.6	127.2	133.4	+4.8	4.3
Greece	11.9	12.0	13.2	13.7	15.0	15.7	15.5	-1.0	0.5
Iceland	0.5	0.5	0.6	0.6	0.7	0.6	0.6	-6.9	+
Republic of Ireland	5.1	4.0	4.1	3.9	4.0	4.4	4.6	+4.2	0.1
Italy	95.7	84.4	90.1	91.7	93.8	93.6	91.7	-2.0	2.9
Netherlands	35.7	29.2	32.4	34.5	33.9	35.0	35.4	+1.3	1.1
Norway	8.7	9.0	9.7	9.2	9.0	9.2	8.9	-3.4	0.3
Portugal	8.8	8.8	8.9	8.7	11.3	11.1	11.4	+3.4	0.4
Spain	50.4	42.9	43.8	44.7	46.7	47.2	46.1	-2.2	1.5
Sweden	22.4	18.3	17.1	16.3	16.4	15.7	14.6	-6.9	0.5
Switzerland	11.9	12.0	12.4	12.4	11.9	12.8	13.0	+1.7	0.4
Turkey	15.4	16.8	21.0	22.3	20.8	22.1	22.0	-0.7	0.7
United Kingdom	74.7	77.4	75.2	79.2	81.7	82.3	82.9	+0.7	2.6
Total OECD Europe	**634.2**	**578.0**	**599.8**	**608.1**	**610.2**	**621.9**	**631.3**	**+1.6**	**20.1**
Non-OECD Europe									
Ex-USSR	452.4	442.4	445.7	439.6	437.6	425.3	420.1	-1.2	13.4
Czechoslovakia	18.4	17.2	17.1	16.6	17.1	15.4	13.2	-14.5	0.4
Hungary	10.5	10.3	9.7	8.9	8.3	8.4	7.4	-12.0	0.2
Poland	13.8	14.3	14.5	15.2	15.5	14.1	13.5	-3.9	0.4
Others	50.9	47.5	52.2	53.4	53.7	49.4	33.0	-33.2	1.1
Total Non-OECD Europe	546.0	531.7	539.2	533.7	532.2	512.6	487.2	-4.9	15.5
Middle East									
Total Middle East	104.9	129.4	130.1	135.1	138.2	150.3	153.1	+1.8	4.9
Africa									
Total Africa	**73.8**	**83.0**	**85.5**	**88.0**	**92.2**	**95.8**	**97.4**	**+1.7**	**3.1**
Asia & Australasia									
Australia	29.2	27.0	28.7	29.9	31.1	31.6	31.1	-1.5	1.0
China	84.8	90.3	105.3	110.2	112.3	110.3	117.9	+6.9	3.8
India	29.5	41.2	47.4	47.9	52.0	51.7	51.0	-1.4	1.6
Indonesia	21.5	22.0	24.1	25.2	26.9	31.0	32.4	+4.4	1.0
Japan	223.9	206.3	209.2	224.7	232.9	242.9	247.3	+1.8	7.9
Malaysia	8.3	9.0	8.6	9.0	9.5	10.5	11.3	+8.0	0.4
New Zealand	4.0	3.8	4.3	4.4	4.5	4.8	4.7	-1.2	0.1
Philippines	10.2	7.4	8.9	9.8	10.9	11.4	11.1	-3.2	0.4
Singapore	10.9	11.8	14.2	16.5	18.9	19.5	19.9	+2.0	0.6
South Korea	24.3	24.7	29.0	34.7	39.8	48.5	56.1	+15.7	1.8
Taiwan	13.5	15.9	19.0	22.9	25.0	26.2	27.9	+6.7	0.9
Thailand	11.0	11.0	12.8	14.5	17.2	19.3	21.1	+9.0	0.7
Others	22.6	25.8	27.1	28.4	29.5	31.4	32.1	+2.1	1.0
Total Asia & Australasia	**498.2**	**498.3**	**538.2**	**581.7**	**614.3**	**645.3**	**670.9**	**+3.9**	**21.4**
TOTAL WORLD	**2913.2**	**2833.6**	**2971.6**	**3058.6**	**3104.8**	**3134.7**	**3141.4**	**+0.2**	**100.0**
Of which OECD	1719.0	1605.3	1682.4	1737.3	1751.6	1760.4	1763.6	+0.2	56.1
Of which LDCs	648.2	696.6	750.0	787.6	821.0	861.7	890.6	+3.4	28.4

* 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'

P: Provisional

Source : BP Statistical Review of World Energy, June 1992.

PRODUCT-WISE REGIONAL CONSUMPTION OF MAIN PETROLEUM PRODUCTS DURING 1981-91

(Million Tonnes)

COUNTRY	1981	1985	1987	1988	1989	1990	1991 (P)	% change 1991 over 1990	% share of total 1991
1	2	3	4	5	6	7	8	9	10
USA									
Gasolines	297.9	305.4	325.2	333.8	334.1	327.1	326.4	-0.2	42.1
Middle distillates	199.2	204.8	218.7	229.7	231.3	230.5	225.1	-2.3	29.1
Fuel oil	110.6	67.3	69.2	75.7	73.3	66.7	62.3	-6.6	8.0
Others	138.3	144.2	154.2	154.2	153.9	157.2	160.6	+2.2	20.8
Total USA	**746.0**	**721.7**	**767.3**	**793.4**	**792.6**	**781.5**	**774.4**	**-0.9**	**100.0**
Canada.									
Gasolines	31.3	27.7	29.2	28.3	28.7	28.4	27.4	-3.7	36.6
Middle distillates	25.0	22.2	22.8	24.2	25.1	24.0	22.4	-6.6	30.0
Fuel oil	11.2	5.6	7.1	7.7	9.4	8.7	7.7	-12.5	10.2
Others	14.2	13.0	14.0	16.6	17.1	16.6	17.3	+4.2	23.2
Total Canada	**81.7**	**68.5**	**73.1**	**76.8**	**80.3**	**77.7**	**74.8**	**-3.8**	**100.0**
OECD Europe									
Gasolines	134.4	139.5	149.1	154.4	156.9	163.3	165.3	+1.2	26.2
Middle distillates	224.3	228.1	240.9	243.9	241.7	247.0	255.9	+3.6	40.5
Fuel oil	182.8	120.6	114.1	109.5	110.9	110.5	109.7	-0.8	17.4
Others	92.7	89.8	95.7	100.3	100.7	101.1	100.4	-0.3	15.9
Total OECD Europe	**634.2**	**578.0**	**599.8**	**608.1**	**610.2**	**621.9**	**631.3**	**+1.6**	**100.0**
Japan									
Gasolines	39.8	41.5	44.4	46.7	49.4	51.0	52.6	+3.1	21.3
Middle distillates	60.6	63.6	69.5	76.8	79.2	78.7	82.0	+4.1	33.1
Fuel oil	91.2	62.4	56.9	61.8	62.9	70.6	69.2	-2.0	28.0
Others	32.3	38.8	38.4	39.4	41.4	42.6	43.5	+2.1	17.6
Total Japan	**223.9**	**206.3**	**209.2**	**224.7**	**232.9**	**242.9**	**247.3**	**+1.8**	**100.0**
Australasia									
Gasolines	13.1	13.5	13.5	14.0	14.5	14.7	14.6	-0.4	40.8
Middle distillates	9.8	10.4	11.5	12.1	12.6	12.9	12.8	-0.5	35.8
Fuel oil	5.6	2.9	2.5	2.5	2.7	2.4	2.3	-3.6	6.5
Others	4.7	4.0	5.5	5.7	5.8	6.4	6.1	-6.3	16.9
Total Australasia	**33.2**	**30.8**	**33.0**	**34.3**	**35.6**	**36.4**	**35.8**	**-1.5**	**100.0**
Asian LDCs									
Gasolines	34.8	38.0	46.6	49.3	54.1	66.8	71.0	+6.4	18.3
Middle distillates	90.9	104.4	114.5	125.2	135.3	140.5	150.6	+7.2	38.8
Fuel oil	88.4	86.4	92.7	102.3	110.0	111.0	114.7	+3.3	29.6
Others	27.0	32.4	42.2	45.9	46.4	47.7	51.5	+7.5	13.3
Total Asian LDCs	**241.1**	**261.2**	**296.0**	**322.7**	**345.8**	**366.0**	**387.8**	**+5.9**	**100.0**
Non-Asian LDCs									
Gasolines	83.3	88.7	90.7	93.4	96.4	103.3	107.2	+3.8	21.3
Middle distillates	137.0	153.8	156.8	162.8	163.7	168.9	173.6	+2.8	34.5
Fuel oil	126.5	120.6	126.3	127.3	132.9	133.3	132.8	-0.4	26.4
Others	60.3	72.3	78.2	81.4	82.2	90.2	89.2	-0.4	17.8
Total Non-Asian LDCs	**407.1**	**435.4**	**454.0**	**464.9**	**475.2**	**495.7**	**502.8**	**+1.6**	**100.0**
Total OECD & LDCs									
Gasolines	634.6	654.3	698.7	719.9	734.1	754.6	764.5	+1.3	28.8
Middle distillates	746.8	787.3	836.7	874.7	888.9	902.5	922.4	+2.2	34.7
Fuel oil	616.3	465.8	468.8	486.8	502.1	503.2	498.7	-0.9	18.8
Others	369.5	394.5	428.2	443.5	447.5	461.8	468.6	+1.6	17.7
TOTAL OECD & LDCs	**2367.2**	**2301.9**	**2432.4**	**2524.9**	**2572.6**	**2622.1**	**2654.2**	**+1.2**	**100.0**

Note : 'Gasolines' consists of aviation and motor gasolines and LDF (light distillate feedstock)
'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 1992.

OECD Members
Europe : Austria, Belgium, Denmark, Finland, France Germany, Greece, Iceland, Republic of Ireland, Italy, Netherlands, 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 1991 & 1980.

(Million Tonnes)

COUNTRY/REGION	1991(P)				1980.			
	Produ-ction	Consum-ption	Deficit Surplus	% extent of depen-dence.	Produ-ction	Consum-ption	Deficit Surplus	% extent of depen-dence.
1.	2.	3.	4.	5.	6.	7.	8.	9.
North America (Including Canada)	518.7	849.2	-330.5	-38.9	567.6	881.7	-314.1	-35.6
Latin America	395.2	252.3	142.9	56.6	298.6	222.8	+75.8	+34.0
OECD Europe	215.4	631.3	-415.9	-65.9	121.5	681.1	-559.6	-82.2
Middle East	821.7	153.1	668.6	436.7	927.4	99.8	+827.6	829.3
Africa	329.7	97.4	232.3	238.5	301.7	70.4	+231.3	328.6
Asia	294.4	635.1	-340.7	-53.6	221.9	486.9	-265.0	-54.4
Of which India	31.0	51.0	-20.0	-39.2	9.4	25.1	-15.7	-62.5
Japan	NA	247.3	NA	NA	0.4	237.7	-237.3	-99.8
China	139.6	117.9	21.7	18.4	105.8	88.0	+17.8	+20.2
Australasia	27.2	35.8	-8.6	-24.0	19.2	33.9	-14.7	-43.4
Ex- U.S.S.R.	515.2	420.1	95.1	22.6	603.0	448.1	-154.9	-34.6
Central Europe	15.0	67.1	-52.1	-77.6	22.9	97.8	-74.9	-76.6
TOTAL WORLD:	3132.5	3141.4	-8.9	-0.3	3083.8	3024.0	+59.8	2.0

P = Provisional.

SOURCE : B.P. Statistical Review of World Energy June, 1992

WORLD CRUDE OIL & PETROLEUM PRODUCTS IMPORTS / EXPORTS - 1991 *

(Million Tonnes)

Country/Area	IMPORTS		EXPORTS	
	Crude	Products	Crude	Products
1.	2.	3.	4.	5.
U.S.A.	331.6	54.1	1.5	46.4
Canada	27.2	8.0	42.0	12.8
Latin America	16.6	4.6	133.7	35.2
OECD Europe	413.0	87.2	33.3	45.9
Middle East	0.8	3.7	624.8	61.3
North Africa	-	2.8	114.2	23.3
West Africa	-	0.9	122.3	2.1
East & Southern Africa	21.7	6.0	0.1	0.7
South Asia	27.0	10.0	2.9	0.5
Other Asia	128.6	44.1	52.7	27.3
Japan	208.3	35.6	-	3.2
Australasia	12.2	3.1	6.8	4.0
Non-OECD Europe & China	29.4	7.8	72.3	45.0
Destination not known*	36.4	75.7	46.2	35.9
Total World	1252.8	343.6	1252.8	343.6

* 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 1992.

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

(Million Tonnes)

Country	1980	1985	1986	1987	1988	1989	1990	1991(P)
1.	2.	3.	4.	5.	6.	7.	8.	9.
				CRUDE OIL:				
Algeria	35.6	13.5	12.7	11.9	12.1	13.9	14.0	17.2
Ecuador	5.4	9.6	9.7	6.2	9.4	8.7	8.6	8.9
Gabon	7.5	8.1	7.5	6.9	7.3	8.6	12.0	13.9
Indonesia	49.2	35.0	39.4	34.8	32.2	33.5	34.1	39.8
Iran, IR	39.7	77.9	72.2	84.9	84.4	100.5	110.5	120.5
Iraq	123.5	53.9	69.2	85.2	104.3	112.2	79.5	-
Kuwait	64.5	23.6	37.5	30.1	34.8	42.2	32.1	4.2
Libya	84.3	44.4	53.0	40.2	44.3	43.3	54.3	60.8
Nigeria	97.6	66.2	60.5	52.9	55.3	75.7	77.2	80.2
Qatar	23.2	13.9	15.2	12.6	15.2	15.9	17.3	16.8
Saudi Arabia	459.1	106.8	162.1	120.0	150.8	165.6	241.5	309.8
U.A.E.	84.5	48.5	56.2	62.0	66.9	81.9	94.4	109.3
Venezuela	64.1	41.0	47.1	51.0	48.4	49.0	61.8	68.8
TOTAL:	**1138.2**	**542.4**	**642.3**	**598.7**	**665.4**	**751.0**	**837.2**	**850.0**
				REFINED PETROLEUM PRODUCTS:				
Algeria	7.4	15.9	18.7	18.1	18.7	19.6	22.5	19.9
Ecuador	1.1	0.7	0.9	0.8	1.2	1.1	1.3	1.2
Gabon	0.5	0.2	0.1	0.1	0.1	Neg.	0.1	0.2
Indonesia	8.1	7.4	7.9	9.3	10.2	11.5	11.9	11.5
Iran, IR	7.0	2.0	0.5	0.1	0.4	1.9	3.0	4.4
Iraq	1.7	0.6	0.3	5.5	5.5	7.2	4.0	-
Kuwait	17.1	24.5	26.1	27.5	31.6	34.3	18.9	2.0
Libya	3.6	4.5	5.1	5.5	4.5	6.3	7.5	7.0
Nigeria	3.7	1.0	0.4	0.8	1.0	1.5	1.5	1.5
Qatar	0.1	1.4	1.8	2.0	2.2	3.7	3.7	4.1
Saudi Arabia	20.6	28.5	35.4	50.7	56.8	53.4	46.3	56.5
U.A.E.	1.0	4.6	5.5	5.7	5.8	7.7	8.2	8.5
Venezuela	28.1	26.3	28.4	23.7	31.0	30.8	30.7	35.4
TOTAL:	**100.0**	**117.6**	**131.1**	**149.8**	**169.0**	**179.2**	**159.7**	**152.1**

P = Provisional.

SOURCE: OPEC Annual Statistical Bulletin 1991

CRUDE OIL IMPORTS FROM OPEC MEMBER COUNTRIES BY REGIONS 1980-1991.

(Million Tonnes)

IMPORT REGION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991(P)
North America	211.7	152.2	80.9	69.0	68.4*	63.8*	109.7*	125.8*	137.6	175.1r	194.9r	193.2
Of which USA	188.9	135.8	71.5	63.6	63.7	59.2	102.4	120.0	132.0	166.9r	184.4r	181.6
Latin America	114.8	90.6	70.6	62.9	58.8*	47.3*	43.8*	34.4*	40.2	36.8*	38.9*	36.7
Western Europe	453.2r	355.7	275.6	232.9	233.1*	223.3*	261.7*	218.6*	235.9	259.7*	285.0*	270.0
Of which:												
France	100.0	71.8	57.0	44.1	42.9	37.3	42.8	25.8	29.2	35.1	40.0r	44.7
Germany	65.8	47.1	40.2	32.5	25.1	20.6	25.9	23.2	27.9	32.3	35.0r	37.3
Italy	67.5	65.6	61.0	52.7	51.2	49.3	56.8	49.5	44.2	48.7	56.4r	61.2
U.K.	34.5	24.2	18.5	12.4	9.6	10.5	12.7*	9.1	11.9	10.2	14.7r	14.1
Middle East	21.8	21.7	23.8	19.2	18.5	19.1*	21.1*	15.2	13.9	14.1*	15.1*	12.5
Africa	16.2	14.8	10.1	7.5	8.3*	8.2*	9.8*	11.0	9.9	11.6*	12.5*	17.7
Asia and Far East	286.4	266.5	226.9	213.3	194.1*	165.8*	170.1	166.8	195.6	225.1	265.2*	294.9
Of which:												
Japan	177.1	153.9	138.4	134.0	134.9	114.5*	107.6	113.7	115.6	133.2	147.6*	155.6
Oceania	10.6	10.4	9.1	5.3	4.8*	2.3*	3.1*	5.7*	4.3	7.0	6.9	5.7
CPEs	17.2	8.9r	8.6	6.0	9.8r	11.0*	21.9*	20.2r	23.8r	25.7*	16.5*	11.4
Unspecified	6.2	1.0	4.1	4.7	3.7	1.6	1.1	1.0	4.1	0.6	-	5.3
OECD AREA	852.8	672.9	505.3	441.2	441.2	396.7	477.7	458.3	486.1	565.9	625.8r	617.8
TOTAL WORLD	1138.1	921.8	709.7*	620.8*	599.5*	542.4*	642.3*	598.7*	665.3*	755.7*	834.6*	847.4

P = Provisional
r = Revised.
Source = OPEC Annual Statistical Bulletin 1991.
Note : Figures Converted to million tonnes using Conversion factor : 1 barrel = 0.136 Metric tonnes
* = provisional or estimated figures, as of August 1991.

COUNTRY-WISE OPEC CRUDE OIL EXPORT BY REGIONS: 1991(P)

(Qty. '000' Barrel/day)

Country/Region	Developed Countries (OECD)					Developing Countries					CPES	Un-Specified	Total World
	North America	Western Europe	Oceania	Japan	Total OECD or Developed	Latin America	Asia & Far East (Excl. Japan)	Middle East	Africa	Total Developing Countries			
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
1. Algeria	-	334.8	-	-	334.8	4.8	-	-	5.1	9.9	-	-	344.7
2. Ecuador	44.5	-	-	-	44.5	40.6	60.8	-	-	101.4	-	32.9	178.8
3. Gabon	106.1	68.6	-	7.0	181.7	16.5	4.8	-	2.1	23.4	-	73.4	278.5
4. Indonesia	97.9	-	41.8	475.6	615.3	-	183.5	-	-	183.5	-	-	798.8
5. Iran. IR	41.4	1250.0	1.1	380.4	1672.9	100.0	400.1	27.0	40.0	567.1	180.0	-	2420.0
6. Iraq	-	-	-	-	-	-	-	-	-	-	-	-	-
7. Kuwait	5.7	18.6	-	59.1	83.4	-	1.6	-	-	1.6	-	-	85.0
8. S.P. Libyan,A	-	1130.0	-	-	1130.0	-	20.0	-	20.0	40.0	50.0	-	1220.0
9. Nigeria	760.0	730.0	-	-	1490.0	40.0	-	-	80.0	120.0	-	-	1610.0
10. Qatar	-	6.1	-	250.5	256.6	36.0	44.0	-	-	80.0	-	-	336.6
11. Saudi Arabia	1846.0	1525.1	40.4	904.8	4316.3	201.2	1314.9	219.2	170.3	1905.6	-	-	6221.9
12 U.A.E.	65.0	200.0	31.0	1057.0	1353.0	20.0	777.0	5.0	40.0	842.0	-	-	2195.0
13 .Venezuela	925.5	176.0	-	-	1101.5	279.9	-	-	-	279.9	-	-	1381.4
TOTAL	**3892.1**	**5439.2**	**114.3**	**3134.4**	**12580.0**	**739.0**	**2806.7**	**251.2**	**357.5**	**4154.4**	**230.0**	**106.3**	**17070.7**

SOURCE: OPEC Annual Statistical Bulletin 1991
P : Provisional

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 – 1991

(Billion US $)

OPEC MEMBER COUNTRIES	1980	1983	1984	1986	1988	1989	1990	1991(P)
1	2	3	4	5	6	7	8	9
Algeria	12.65	9.47	9.19	4.82	4.99	7.00	8.85	9.59
Ecuador	1.55	1.58	1.78	0.98	0.98	1.15	1.26	1.03
Gabon	1.74	1.65	1.68	0.72	0.78	1.20	1.97	1.74
Indonesia	15.60	13.56	12.48	5.50	5.19	4.96	6.48	6.87
Iran	13.29	19.22	12.26	7.18	8.17	10.81	17.30	15.28
Iraq	26.30	7.82	9.35	6.90	10.95	14.50	9.46	-
Kuwait	17.68	9.74	10.74	6.38	6.84	9.31	5.54	-
Libya	21.38	11.86	10.59	5.44	5.17	7.50	9.70	10.02
Nigeria	25.29	10.06	11.75	6.01	6.63	7.47	13.27	12.15
Qatar	5.41	3.11	4.39	1.72	1.71	1.96	2.80	2.19
Saudi Arabia	105.81	42.81	34.24	16.98	19.02	24.10	40.13	42.65
U.A.E.	19.56	12.24	12.98	7.45	7.35	11.50	15.69	13.92
Venezuela	18.25	13.84	12.14	6.65	8.16	10.00	13.95	13.00
TOTAL:	**284.49**	**156.94**	**143.57**	**76.74**	**85.93**	**111.45**	**146.40**	**128.44**

SOURCE: OPEC Annual Statistical Bulletin - 1991

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

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

OFFICIAL DEVELOPMENT ASSISTANCE FROM OECD AND OPEC MEMBERS: 1987-90

COUNTRIES	AMOUNT (Million of U.S.$)				As percentage of donor G.N.P.			
	1987	1988	1989	1990(P)	1987	1988	1989	1990(P)
1.	2.	3.	4.	5.	6.	7.	8.	9.
OECD:								
Italy	2615	3193	3613	3395	0.35	0.39	0.42	0.32
New Zealand	87	104	87	95	0.26	0.27	0.22	0.23
United Kingdom	1871	2645	2587	2638	0.28	0.32	0.31	0.27
Japan	7342	9134	8965	9069	0.31	0.32	0.31	0.31
Austria	201	301	283	394	0.17	0.24	0.23	0.25
Finland	433	608	706	846	0.49	0.59	0.63	0.64
Australia	627	1101	1020	955	0.34	0.46	0.38	0.34
Canada	1885	2347	2320	2470	0.47	0.50	0.44	0.44
Netherlands	2094	2231	2094	2592	0.98	0.98	0.94	0.94
Belgium	687	601	703	889	0.48	0.39	0.46	0.45
France	6525	6865	7450	9380	0.74	0.72	0.78	0.79
United States	9115	10141	7676	11394	0.20	0.21	0.15	0.21
Denmark	859	922	937	1171	0.88	0.89	0.93	0.93
Germany	4391	4731	4949	6320	0.39	0.39	0.41	0.42
Norway	890	985	917	1205	1.09	1.13	1.05	1.17
Sweden	1375	1534	1799	2012	0.88	0.86	0.96	0.90
Switzerland	547	617	558	750	0.31	0.32	0.30	0.31
Ireland	51	57	49	57	0.19	0.20	0.17	0.16
TOTAL :	**41595**	**48117**	**46713**	**55632**				
OPEC								
Nigeria	30	14	70	13	0.12	0.05	0.28	0.06
Iran	-10	39	-94	2	0.00	0.01	-0.02	--
Iraq	-35	-22	21	55	-0.08	-0.04	0.04	--
Algeria	39	13	40	7	0.07	0.03	0.11	0.03
Venezuela	24	55	52	15	0.06	0.09	0.13	0.03
Libya	66	129	86	4	0.30	0.63	0.41	0.01
Saudi Arabia	2888	2048	1171	3692	3.70	2.53	1.37	3.90
Kuwait	316	108	169	1666	1.15	0.40	0.54	--
U.A.E.	15	-17	2	888	0.07	-0.07	0.02	2.65
Qatar	0	4	-2	1	0.00	0.08	-0.04	0.02
TOTAL OAPEC	**3289**	**2261**	**--**	**--**	**1.10**	**0.86**	**-**	**-**
TOTAL OPEC	**3333**	**2369**	**1514**	**6341**	**0.52**	**0.34**	**0.21**	**-**

P : Provisional

Source : World Development Report 1992.

LOAN ASSISTANCE FROM OPEC AND OTHER OIL SUPPLYING NATIONS: 1980-81 TO 1990-91

(Rs. Crore)

	1980-81	1982-83	1985-86	1986-87	1987-88	1988-89	1989 90	1990-91
	1	2	3	4	5	6	7	8
U.S.S.R.:								
Authorisation	485.7	--	1134.0*	2055.5*	1162.7	6210.0	1880.0	-
Utilisation	32.9	40.0	161.2	175.5	222.1	218.8	218.4	295.3
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
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
Kuwait Fund: for Arab Economic Develp.								
Authorisation	--	--	30.8*	--	--	36.1	--	--
Utilisation	8.6	25.5	53.4	23.0	10.8	1.8	1.5	1.3
Iraq-Loans:	7.0@							
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

* = Government account only.

@ = Grants received from contract for the construction of Indoor Stadium for Asian Games 1982.

SOURCE = Economic Survey, 1991-92

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. 31.4/2.6	Brega 40.4/0.2	Forcados 29.5/0.21	Dukhan 41.4/1.1	Arab Medium 30.3/2.4	Arab Heavy 28.0/3.0	Murban 39.4/0.8	T.J. Medium 24.0/1.85	Attaka 42.3/0.09	Iran Light 33.9/1.4	Iran Heavy 31.0/1.6	Basrah 34.0/2.0	Kirkuk 36.1/2.1	Oman 36.3/0.79
1987		16.48	18.08	18.40	17.40	1658	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
1989	Jan.	13.55	17.16	17.21	14.80	13.51	13.36	15.21	13.16	17.81	14.38	13.88	15.65	15.75	14.70
	Feb.	13.60	16.91	16.96	15.00	13.90	13.54	15.31	14.43	17.78	14.61	14.05	15.36	15.46	14.90
	Mar.	15.16	18.29	18.72	16.38	15.48	15.03	16.62	15.02	18.35	16.03	15.49	17.19	17.36	16.25
	Apr.	16.63	20.28	20.34	17.48	17.06	16.49	17.74	17.43	19.44	17.48	16.99	18.69	19.06	17.39
	May	15.25	18.78	18.69	16.03	15.62	15.00	16.36	17.41	19.14	16.12	15.60	17.27	17.43	15.94
	June	15.13	17.58	17.14	15.90	15.19	14.71	16.40	17.12	18.95	15.86	15.39	15.99	16.40	15.80
	July	15.10	17.63	17.29	15.75	15.19	14.63	16.28	17.00	18.49	15.89	15.48	16.16	16.30	15.86
	Aug.	14.61	16.69	16.58	15.54	14.70	14.11	15.90	15.81	17.63	15.34	15.11	15.14	15.26	15.39
	Sep.	15.25	17.76	17.91	16.16	15.28	14.73	16.58	15.59	17.78	16.00	15.65	16.10	16.34	16.01
	Oct.	16.10	18.93	19.21	16.73	15.85	15.48	17.23	15.59	18.68	16.59	16.00	16.00	17.61	16.55
	Nov.	15.76	18.72	19.08	16.71	15.92	15.52	17.25	15.59	19.02	16.53	15.94	16.24	17.36	16.51
	Dec.	16.71	19.88	20.38	17.75	16.93	16.55	18.49	16.09	19.48	17.64	16.96	16.00	18.53	17.53
1990	Jan.	17.27	21.32	21.83	18.08	17.24	17.27	18.76	17.09	20.45	18.05	17.35	16.00	20.11	17.81
	Feb.	16.40	19.68	20.00	17.48	16.65	16.23	18.21	15.58	20.50	17.33	16.53	16.00	18.49	17.16
	Mar.	15.39	18.25	18.31	16.54	15.54	15.18	16.95	15.43	19.56	16.20	15.60	16.65	16.98	16.24
	Apr.	13.58	16.43	16.36	15.04	13.61	13.14	15.34	13.66	17.94	14.44	13.83	15.00	14.66	14.83
	May	13.59	16.20	16.16	15.06	13.59	13.19	15.39	12.50	16.41	14.35	13.55	14.49	14.25	14.96
	June	11.98	14.79	14.86	13.91	12.09	11.64	14.35	12.64	14.95	12.78	12.01	12.76	12.93	13.69
	July	13.25	16.60	16.69	15.79	13.46	13.03	16.13	12.88	15.66	14.53	13.78	14.85	14.75	15.40
	Aug.	-	26.72	26.58	24.80	22.78	22.33	25.32	19.73	25.37	24.31	23.61	-	-	24.60
	Sep.	-	35.18	35.03	30.61	28.75	28.30	30.44	26.09	31.86	30.16	29.41	-	-	30.41
	Oct.	-	36.95	36.53	32.55	30.11	28.65	33.22	27.64	37.98	32.01	31.21	-	-	32.11
	Nov.	-	33.39	32.80	28.93	26.50	24.50	29.73	25.60	34.44	28.23	27.49	-	-	28.24
	Dec.	-	28.83	28.24	24.44	22.19	20.19	25.05	24.09	28.28	23.74	22.99	-	-	23.74
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
	Aug.	-	19.86	19.93	17.84	15.80	14.28	18.51	15.84	20.01	17.19	16.11	-	-	17.15
	Sep.	-	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

Notes: The numbers 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 1991.

DEVELOPMENT OF CRUDE PETROLEUM PRICES (FOB) 1989-1992

(Official Selling Prices)

(US $/bbl.FOB)

Crude	Country	January-March 1989	1990	1991	1992	Early April Spot Prices
Arab Light	Saudi Arabia	14.79	17.63	17.06	16.45	16.85
Arab Medium	Saudi Arabia	13.90	16.62	15.26	14.75	15.25
Arab Heavy	Saudi Arabia	13.54	16.38	12.95	13.35	14.00
Berri	Saudi Arabia	15.66	18.62	18.56	17.59	17.85
Iran Light	Iran	14.55	17.34	16.83	16.30	16.70
Iran Heavy	Iran	14.05	16.65	15,.95	15.30	15.70
Basrah Light	Iraq	15.55	18.68	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	15.81	18.87	0.00	0.00	0.00
Kuwait	Kuwait	13.71	16.52	0.00	0.00	0.00
Murban	Abu Dhabi	15.30	18.14	17.18	17.20	17.50
Dukhan	Qatar	14.98	17.48	17.23	17.10	17.40
Khafji	Neutral Zone	13.54	16.35	13.01	13.45	13.85
Es Sider	Libya	16.72	19.66	20.28	16.94	17.65
Bonny Light	Nigeria	17.28	20.36	21.25	18.08	18.80
Bonny Medium	Nigeria	17.24	20.38	20.67	17.60	18.40
Saharan	Algeria	17.49	20.40	22.00	18.38	18.95
Mandji	Gabon	15.37	18.05	17.04	14.80	14.55
Oriente	Ecuador	15.01	18.77	16.44	14.47	15.30
TJ Light	Venezuela	15.72	16.29	19.62	17.13	17.50
TJ Medium	Venezuela	14.43	15.98	15.83	13.95	13.95
Bachaquero	Venezuela	12.10	12.83	12.37	8.45	8.45
Sumatran	Indonesia	17.09	20.15	20.74	17.28	18.15
Attaka	indonesia	17.73	20.07	21.01	18.30	18.10
OPEC Average		15.20	17.90	17.43	15.47	15.93
Persian Gulf		14.53	17.30	16.82	14.87	15.31

Country Export Shares

(percentages)

Saudi Arabia	24.05	22.57	35.11	34.92	34.92
Iran	11.19	12.69	14.21	14.24	14.24
Iraq	15.04	12.98	1.02	1.66	1.66
Kuwait	7.08	7.84	0.07	1.94	1.94
United Arab Emirates	8.40	8.31	10.35	9.72	9.72
Qatar	1.98	1.65	1.67	1.33	1.33
Neutral Zone	1.88	1.49	0.18	1.17	1.17
Libya	5.82	5.09	6.56	6.30	6.30
Nigeria	6.81	8.07	8.31	7.81	7.81
Algeria	3.27	3.20	3.50	3.32	3.32
Gabon	0.85	0.89	1.31	1.17	1.17
Ecuador	1.27	1.40	1.31	1.25	1.25
Venezuela	7.90	7.99	10.64	9.33	9.33
Indonesia	4.46	5.84	5.76	5.84	5.84

Source: The World Bank/International Finance Corporation - OFFICE MEMORANDUM dated April 28, 1992.

PETROLEUM PRODUCTS PRICE DEVELOPMENTS, 1992
(US Dollar Per Metric Ton, FOB)

	April-June a/ 1991	July-Sept b/ 1991	Oct-Dec. c/ 1991	Jan-March d/ 1992
		Caribbean Market (Curacao)		
Gasoline	263.70	252.80	240.20	216.80
Kerosene	202.40	217.30	235.63	199.00
Gas Oil	177.20	198.90	216.00	177.10
Fuel Oil	70.40	73.70	91.45	71.70
		Mid East Market (Bahrain)		
Gasoline	273.80	273.80	262.90	234.00
Kerosene	222.30	215.70	232.31	192.00
Gas Oil	208.30	208.20	223.77	183.30
Fuel Oil	84.40	84.40	87.77	64.30
		Far East Market (Singapore)		
Gasoline	290.80	290.80	230.44	214.90
Kerosene	192.40	209.00	232.31	177.00
Gas Oil	181.80	198.90	219.11	169.30
Fuel Oil	88.80	88.80	92.10	70.30

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*			
	1989	1990	1991	1992
		Caribbean Market (Curacao)		
Gasoline	23.52	26.87	24.78	25.20
Kerosene	24.35	26.45	26.89	25.19
Gas Oil	22.26	25.19	29.59	23.93
Fuel Oil	12.49	13.49	11.51	10.70
		Mid East Market (Bahrain)		
Gasoline	22.88	27.20	34.78	27.20
Kerosene	24.35	25.20	49.97	24.30
Gas Oil	22.05	24.57	48.72	24.77
Fuel Oil	10.59	13.10	14.10	9.60
		Far East Market (Singapore)		
Gasoline	21.62	24.98	33.81	25.00
Kerosene	23.10	25.20	45.35	22.40
Gas Oil	22.89	25.62	44.09	22.87
Fuel Oil	11.23	15.25	16.40	10.50

SOURCE : The World Bank/International Finance Corporation - Office Memorandum dated April 28,1992.
* Mid-February Quotations.

NATURAL GAS PRICES IN INDUSTRIAL/ DEVELOPED COUNTRIES OF THE WORLD

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

Country	1980	1986	1988	1989	1990	1991
			A. FOR INDUSTRIAL USE			
Australia	73.04	95.43	115.70	115.84	123.12	136.40
Austria	172.95	201.11	166.61	142.25	176.43	188.69
Belgium	151.54	154.98	114.63	113.96	144.37	159.16
Canada	65.44	97.70	92.21	83.42	83.69	86.73
Finland	203.28	136.53	116.14	118.92	146.78	140.35
France	176.13	157.15	133.54	129.58	155.16	n.a.
Germany	156.75	196.84	141.16	143.94	187.50	201.02
Ireland	n.a.	333.53	304.99	283.82	331.21	323.23
Italy	173.47	101.32	89.78	107.80	157.18	170.60
Japan	448.73	506.97	478.39	449.81	412.57	424.68
Netherlands	146.23	128.27	110.52	104.38	122.90	n.a.
New Zealand	133.89	116.29	215.30	189.28	192.43	198.61
Spain	237.45	258.70	247.97	247.43	n.a.	n.a.
Switzerland	265.11	319.62	255.67	220.29	253.61	283.76
United Kingdom	162.14	148.68	163.86	143.08	158.45	161.16
United States	98.63	124.44	114.04	112.50	111.44	101.04
OECD Europe	164.20	157.86	135.60	135.01	n.a.	n.a.
OECD	117.66	137.82	124.83	122.72	n.a.	n.a.
			B. FOR HOUSEHOLD USE			
Australia	196.69	187.51	247.74	264.12	268.78	288.50
Austria	402.09	472.50	367.99	331.52	391.82	397.86
Belgium	321.20	365.72	345.58	340.94	415.62	418.56
Canada	103.72	149.62	170.67	175.34	185.48	180.96
Finland	203.28	147.08	138.27	142.43	176.84	170.37
France	414.10	455.19	432.29	406.13	474.46	n.a
Germany	334.97	373.93	317.85	311.71	396.53	424.34
Ireland	n.a.	553.76	443.23	412.46	481.32	477.74
Italy	210.34	347.97	440.63	469.75	642.32	760.59
Japan	617.19	832.24	978.00	989.71	945.99	1016.43
Netherlands	227.06	327.51	281.09	249.78	335.49	367.29
New Zealand	232.72	143.18	225.91	223.00	231.29	254.39
Spain	509.29	541.09	483.24	484.51	n.a.	n.a.
Switzerland	362.22	398.18	451.85	401.57	481.75	492.61
United Kingdom	219.88	240.51	299.86	291.77	329.08	333.79
United States	141.78	224.61	210.74	216.91	233.77	237.81
OECD Europe	253.82	330.35	348.39	345.42	n.a.	n.a.
OECD	186.83	281.84	286.74	288.65	n.a.	n.a.

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 1992.

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

Country	Discharge Port	Product	Price(*) 1989	1990	1991	1992
		CARIBBEAN MARKET				
Latin America & Caribbean						
Antigua	St. Johns	Crude	108.79	129.18	120.42	114.59
		Gasoline	206.03	235.00	217.40	221.10
		Kerosene	196.12	212.70	216.70	203.30
		Gas Oil	168.36	190.10	223.30	181.30
		Fuel Oil	87.20	93.90	81.10	75.70
Argentina	La Plata	Crude	118.97	139.36	131.62	125.79
		Gasoline	217.37	246.30	231.00	234.70
		Kerosene	207.45	224.10	230.30	216.90
		Gas Oil	179.70	201.40	236.90	194.90
		Fuel Oil	98.54	105.20	94.70	89.30
Bahamas	Freeport	Crude	108.72	129.12	120.31	114.48
		Gasoline	207.94	236.90	221.50	225.20
		Kerosene	198.02	214.70	220.80	207.30
		Gas Oil	170.27	192.00	227.40	185.40
		Fuel Oil	89.10	95.80	85.20	79.80
Barbados	Bridgetown	Crude	108.92	129.31	120.58	114.76
		Gasoline	206.13	235.10	217.50	221.20
		Kerosene	196.21	212.80	216.80	203.40
		Gas Oil	168.46	190.20	223.40	181.40
		Fuel Oil	87.29	94.00	81.20	75.80
Belize	Belize	Crude	0.00	0.00	0.00	0.00
		Gasoline	207.71	236.70	219.40	223.10
		Kerosene	197.79	214.40	218.70	205.30
		Gas Oil	170.03	191.80	225.30	183.40
		Fuel Oil	88.87	95.60	83.20	77.80
Bermuda	Hamilton	Crude	0.00	0.00	0.00	0.00
		Gasoline	208.48	237.40	220.00	223.70
		Kerosene	198.56	215.20	219.30	205.90
		Gas Oil	170.80	192.50	225.90	184.00
		Fuel Oil	89.64	96.40	83.80	78.30
Brazil	Santos	Crude	116.25	136.64	129.61	123.78
		Gasoline	214.16	243.10	227.50	231.20
		Kerosene	204.24	220.90	226.80	213.40
		Gas Oil	176.48	198.20	233.50	191.50
		Fuel Oil	95.32	102.00	91.30	85.90

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CIF PRICE OF THE CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price(*) 1989	1990	1991	1992
Chile	Valparaiso	Crude	120.23	140.63	133.17	127.34
		Gasoline	218.79	247.70	231.70	235.40
		Kerosene	208.87	225.50	231.00	217.60
		Gas Oil	181.11	202.90	237.60	195.60
		Fuel Oil	99.95	106.70	95.40	90.00
Colombia	Barranquilla	Crude	107.87	128.26	119.10	113.27
		Gasoline	206.17	235.10	217.20	220.90
		Kerosene	196.25	212.90	216.50	203.00
		Gas Oil	168.49	190.20	223.10	181.10
		Fuel Oil	87.33	94.00	80.90	75.50
Costa Rica	Puerto Limon	Crude	108.95	129.34	120.52	114.69
		Gasoline	207.77	236.70	219.30	223.00
		Kerosene	197.85	214.50	218.60	205.20
		Gas Oil	170.09	191.80	225.20	183.20
		Fuel Oil	88.93	95.60	83.00	77.60
Dominican R.	Santo Domingo	Crude	107.95	128.34	119.18	113.35
		Gasoline	206.02	235.00	217.30	221.00
		Kerosene	196.10	212.70	216.60	203.20
		Gas Oil	168.34	190.10	223.20	181.20
		Fuel Oil	87.18	93.90	81.00	75.60
El Salvador	Cutuco	Crude	109.68	130.07	121.75	115.92
		Gasoline	213.41	242.40	225.30	229.00
		Kerosene	203.50	220.10	224.60	211.20
		Gas Oil	175.74	197.50	231.20	189.20
		Fuel Oil	94.58	101.30	89.00	83.60
Guatemala	Puerto Barrios	Crude	108.69	129.08	119.73	113.90
		Gasoline	207.86	236.80	219.60	223.30
		Kerosene	197.94	214.60	218.90	205.50
		Gas Oil	170.19	191.90	225.50	183.50
		Fuel Oil	89.03	95.70	83.30	77.90
Haiti	Port au Prince	Crude	0.00	0.00	0.00	0.00
		Gasoline	206.42	235.40	217.90	221.60
		Kerosene	196.50	213.10	217.20	203.70
		Gas Oil	168.74	190.50	223.80	181.80
		Fuel Oil	87.58	94.30	81.60	76.20
Honduras	Puerto Cortez	Crude	109.35	129.75	120.41	114.59
		Gasoline	209.27	238.20	219.80	223.50
		Kerosene	199.35	216.00	219.10	205.70
		Gas Oil	171.59	193.30	225.70	183.70
		Fuel Oil	90.43	97.10	83.50	78.10

Contd.....

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

Country	Discharge Port	Product	Price(*) 1989	1990	1991	1992
Jamaica	Kingston	Crude	108.35	128.74	120.08	114.25
		Gasoline	206.38	235.30	217.80	221.50
		Kerosene	196.46	213.10	217.10	203.70
		Gas Oil	168.71	190.40	223.70	181.70
		Fuel Oil	87.54	94.30	81.50	76.10
Nicaragua	Corinto	Crude	109.41	129.80	120.50	114.68
		Gasoline	213.70	242.70	225.50	229.20
		Kerosene	203.78	220.40	224.80	211.40
		Gas Oil	176.03	197.80	231.40	189.50
		Fuel Oil	94.87	101.60	89.30	83.80
Panama	Puerto Las Minas	Crude	108.52	128.91	120.08	114.25
		Gasoline	206.63	235.60	218.10	221.80
		Kerosene	196.71	213.30	217.40	204.00
		Gas Oil	168.96	190.70	224.00	182.00
		Fuel Oil	87.79	94.50	81.80	76.40
Surinam	Paramaribo	Crude	0.00	0.00	0.00	0.00
		Gasoline	207.13	236.10	218.80	222.50
		Kerosene	197.21	213.80	218.10	204.60
		Gas Oil	169.46	191.20	224.70	182.70
		Fuel Oil	88.29	95.00	82.50	77.10
Uruguay	Montevideo	Crude	113.70	134.09	126.39	120.56
		Gasoline	216.24	245.20	229.80	233.50
		Kerosene	206.32	223.00	229.10	215.70
		Gas Oil	178.56	200.30	235.70	193.70
		Fuel Oil	97.40	104.10	93.50	88.10
Africa South of Sahara						
Benin	Cotonou	Crude	0.00	0.00	0.00	0.00
		Gasoline	215.37	244.30	228.80	232.50
		Kerosene	205.45	222.10	228.10	214.70
		Gas Oil	177.70	199.40	234.70	192.70
		Fuel Oil	96.53	103.20	92.50	87.10
Cameroon	Douala	Crude	0.00	0.00	0.00	0.00
		Gasoline	211.04	240.00	230.90	234.70
		Kerosene	201.12	217.80	230.20	216.80
		Gas Oil	173.36	195.10	236.90	194.90
		Fuel Oil	92.20	98.90	94.70	89.30

Contd.....

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

Country	Discharge Port	Product	Price(*) 1989	1990	1991	1992
Cape Verde	St. Vincent	Crude	0.00	0.00	0.00	0.00
		Gasoline	213.08	242.00	223.50	227.20
		Kerosene	203.16	219.80	222.80	209.40
		Gas Oil	175.41	197.10	229.40	187.40
		Fuel Oil	94.24	101.00	87.20	81.80
Gambia	Banjul	Crude	0.00	0.00	0.00	0.00
		Gasoline	214.99	243.90	226.00	229.70
		Kerosene	205.07	221.70	225.30	211.80
		Gas Oil	177.31	199.10	231.90	189.90
		Fuel Oil	96.15	102.90	89.70	84.30
Ghana	Takoradi	Crude	115.40	135.79	128.41	122.59
		Gasoline	214.83	243.80	228.20	231.90
		Kerosene	204.91	221.50	227.50	214.10
		Gas Oil	177.16	198.90	234.10	192.10
		Fuel Oil	95.99	102.70	91.90	86.50
Guinea	Conakry	Crude	0.00	0.00	0.00	0.00
		Gasoline	215.02	244.00	227.40	231.20
		Kerosene	205.10	221.70	226.70	213.30
		Gas Oil	177.35	199.10	233.40	191.40
		Fuel Oil	96.19	102.90	91.20	85.80
Ivory Coast	Abidjan	Crude	115.66	136.06	128.68	122.86
		Gasoline	213.70	242.70	228.10	231.80
		Kerosene	203.78	220.40	227.40	214.00
		Gas Oil	176.02	197.80	234.00	192.10
		Fuel Oil	94.86	101.60	91.90	86.50
Liberia	Monrovia	Crude	115.85	136.24	128.99	123.16
		Gasoline	212.52	241.50	226.70	230.40
		Kerosene	202.60	219.20	226.00	212.60
		Gas Oil	174.85	196.60	232.60	190.60
		Fuel Oil	93.68	100.40	90.40	85.00
Mauritania	Nouadhibou	Crude	0.00	0.00	0.00	0.00
		Gasoline	212.54	241.50	225.20	228.90
		Kerosene	202.62	219.30	224.50	211.10
		Gas Oil	174.87	196.60	231.10	189.10
		Fuel Oil	93.70	100.40	88.90	83.50

Contd.....

CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price(*) 1989	1990	1991	1992
Senegal	Dakar	Crude	114.56	134.95	127.42	121.59
		Gasoline	212.98	241.90	225.40	229.10
		Kerosene	203.06	219.70	224.70	211.20
		Gas Oil	175.31	197.10	231.30	189.30
		Fuel Oil	94.15	100.90	89.10	83.70
Sierra Leone	Freetown	Crude	115.95	136.34	129.20	123.37
		Gasoline	215.41	244.40	226.00	229.70
		Kerosene	205.49	222.10	225.30	211.90
		Gas Oil	177.73	199.50	231.90	189.90
		Fuel Oil	96.57	103.30	89.70	84.30
Togo	Kpeme	Crude	115.05	135.44	126.64	120.81
		Gasoline	218.95	247.90	226.90	230.60
		Kerosene	209.03	225.70	226.20	212.70
		Gas Oil	181.28	203.00	232.80	190.80
		Fuel Oil	100.11	106.80	90.60	85.20
Zaire	Banana	Crude	115.21	135.61	127.73	121.90
		Gasoline	214.02	243.00	232.00	235.80
		Kerosene	204.10	220.70	231.30	217.90
		Gas Oil	176.35	198.10	238.00	196.00
		Fuel Oil	95.19	101.90	95.80	90.40
		Europe, Middle East,North Africa				
Gibraltar	Gibraltar	Crude	0.00	0.00	0.00	0.00
		Gasoline	215.45	244.40	227.10	230.80
		Kerosene	205.53	222.20	226.40	213.00
		Gas Oil	177.77	199.50	233.00	191.00
		Fuel Oil	96.61	103.30	90.80	85.40
Morocco	Mohammedia	Crude	113.75	134.14	126.23	120.40
		Gasoline	213.60	242.60	228.50	232.20
		Kerosene	203.68	220.30	227.80	214.40
		Gas Oil	175.92	197.70	234.40	192.40
		Fuel Oil	94.76	101.50	92.20	86.80

Contd.....

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

Country	Discharge Port	Product	Price (*) 1989	1990	1991	1992
Portugal	Lisbon	Crude	113.06	133.45	125.64	119.81
		Gasoline	214.41	243.40	226.80	230.50
		Kerosene	204.49	221.10	226.00	212.60
		Gas Oil	176.73	198.50	232.70	190.70
		Fuel Oil	95.57	102.30	90.50	85.10
Spain	Huelva	Crude	113.12	133.51	125.61	119.78
		Gasoline	209.13	238.10	227.50	231.20
		Kerosene	199.21	215.80	226.80	213.40
		Gas Oil	171.46	193.20	233.40	191.40
		Fuel Oil	90.30	97.00	91.20	85.80
MIDDLE EAST MARKET						
Africa South of Sahara						
Djibouti	Djibouti	Crude	108.69	129.08	120.29	114.46
		Gasoline	204.49	241.80	307.30	242.10
		Kerosene	200.08	206.80	403.20	200.00
		Gas Oil	170.82	189.50	368.80	191.30
		Fuel Oil	78.44	95.30	102.30	72.10
Ethiopia	Assab	Crude	109.09	129.49	120.70	114.87
		Gasoline	205.74	243.00	308.20	243.00
		Kerosene	201.33	208.00	404.10	200.90
		Gas Oil	172.07	190.70	369.70	192.20
		Fuel Oil	79.69	96.50	103.20	72.90
Kenya	Mombassa	Crude	109.68	130.07	121.56	115.73
		Gasoline	207.92	245.20	310.00	244.80
		Kerosene	203.51	210.20	405.90	202.70
		Gas Oil	174.25	192.90	371.60	194.00
		Fuel Oil	81.86	98.70	105.00	74.80
Madagascar	Tamatave	Crude	110.69	131.09	122.74	116.91
		Gasoline	207.20	244.50	312.60	247.30
		Kerosene	202.79	209.50	408.40	205.20
		Gas Oil	173.54	192.20	374.10	196.50
		Fuel Oil	81.15	98.00	107.50	77.30
Mauritius	Port Louis	Crude	0.00	0.00	0.00	0.00
		Gasoline	208.96	246.20	312.60	247.30
		Kerosene	204.55	211.30	408.40	205.20
		Gas Oil	175.29	193.90	374.10	196.50
		Fuel Oil	82.90	99.70	107.50	77.30
Mozambique	Maputo	Crude	111.18	131.57	123.67	117.84
		Gasoline	213.38	250.70	314.60	249.30
		Kerosene	208.97	215.70	410.50	207.20
		Gas Oil	179.72	198.40	376.10	198.50
		Fuel Oil	87.33	104.20	109.50	79.30
Namibia	Walvis Bay	Crude	0.00	0.00	0.00	0.00
		Gasoline	208.07	245.30	319.30	254.00
		Kerosene	203.66	210.40	415.20	212.00
		Gas Oil	174.40	193.00	380.80	203.20
		Fuel Oil	82.02	98.90	114.30	84.00
Reunion	Reunion	Crude	0.00	0.00	0.00	0.00
		Gasoline	213.38	250.70	312.90	247.70
		Kerosene	208.97	215.70	408.80	205.60
		Gas Oil	179.72	198.40	374.40	196.90
		Fuel Oil	87.33	104.20	107.90	77.60
Seychelles	Port Victoria	Crude	0.00	0.00	0.00	0.00
		Gasoline	208.07	245.30	309.10	243.80
		Kerosene	203.66	210.40	404.90	201.70
		Gas Oil	174.40	193.00	370.60	193.00
		Fuel Oil	82.02	98.90	104.00	73.80

Contd.....

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

Country	Discharge Port	Product	Price (*) 1989	1990	1991	1992
Somalia	Mogadiscio	Crude	109.25	129.65	120.93	115.10
		Gasoline	204.99	242.30	308.70	243.50
		Kerosene	200.58	207.30	404.60	201.40
		Gas Oil	171.32	190.00	370.20	192.70
		Fuel Oil	78.94	95.80	103.70	73.40
South Africa	Cape Town	Crude	112.36	132.75	124.79	118.96
		Gasoline	204.84	242.10	316.90	251.70
		Kerosene	200.43	207.10	412.80	209.60
		Gas Oil	171.17	189.80	378.50	200.90
		Fuel Oil	78.78	95.60	111.90	81.70
Sudan	Port Sudan	Crude	109.52	129.92	120.84	115.01
		Gasoline	211.48	248.80	308.30	243.10
		Kerosene	207.07	213.80	404.20	201.00
		Gas Oil	177.81	196.40	369.80	192.30
		Fuel Oil	85.43	102.30	103.30	73.10
Tanzania	Dar Es Salaam	Crude	109.90	130.30	121.74	115.91
		Gasoline	205.41	242.70	310.40	245.20
		Kerosene	201.00	207.70	406.30	203.10
		Gas Oil	171.75	190.40	371.90	194.40
		Fuel Oil	79.36	96.20	105.40	75.20
South Asia						
India	Bombay	Crude	108.57	128.96	120.01	114.18
		Gasoline	206.22	243.50	306.70	241.50
		Kerosene	201.81	208.50	402.60	199.40
		Gas Oil	172.55	191.20	368.20	190.70
		Fuel Oil	80.17	97.00	101.70	71.50
Pakistan	Karachi	Crude	107.89	128.28	119.25	113.42
		Gasoline	203.37	240.60	305.10	239.90
		Kerosene	198.96	205.70	401.00	197.80
		Gas Oil	169.71	188.30	366.60	189.10
		Fuel Oil	77.32	94.20	100.10	69.80
Europe, Middle East, North Africa						
Cyprus	Larnaca	Crude	115.19	135.59	126.62	120.79
		Gasoline	210.19	247.50	321.10	255.90
		Kerosene	205.78	212.50	417.00	213.80
		Gas Oil	176.52	195.20	382.70	205.10
		Fuel Oil	84.14	101.00	116.10	85.90
Greece	Salonica	Crude	115.73	136.13	127.27	121.44
		Gasoline	216.60	253.90	322.50	257.30
		Kerosene	212.19	218.90	418.40	215.20
		Gas Oil	182.93	201.60	384.00	206.50
		Fuel Oil	90.55	107.40	117.50	87.30
Israel	Haifa	Crude	115.01	135.41	126.48	120.65
		Gasoline	218.33	255.60	320.80	255.60
		Kerosene	213.92	220.60	416.70	213.50
		Gas Oil	184.67	203.30	382.40	204.80
		Fuel Oil	92.28	109.10	115.80	85.60

Contd.....

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

Country	Discharge Port	Product	Price (*) 1989	1990	1991	1992
Jordan	Aqaba	Crude	110.10	130.49	121.90	116.07
		Gasoline	207.94	245.20	310.80	245.50
		Kerosene	203.53	210.20	406.70	203.50
		Gas Oil	174.27	192.90	372.30	194.70
		Fuel Oil	81.88	98.70	105.80	75.50
Lebanon	Beirut	Crude	115.00	135.40	126.45	120.62
		Gasoline	214.93	252.20	320.80	255.50
		Kerosene	210.52	217.20	416.70	213.50
		Gas Oil	181.26	199.90	382.30	204.70
		Fuel Oil	88.87	105.70	115.80	85.50
Turkey	Istanbul	Crude	116.16	136.55	128.00	122.18
		Gasoline	216.20	253.50	324.10	258.90
		Kerosene	211.79	218.50	420.00	216.80
		Gas Oil	182.53	201.20	385.60	208.10
		Fuel Oil	90.14	107.10	119.10	88.80
Yemen, A.R.	Hodeidah	Crude	0.00	0.00	0.00	0.00
		Gasoline	210.86	248.10	308.20	242.90
		Kerosene	206.45	213.20	404.10	200.90
		Gas Oil	177.19	195.80	369.70	192.10
		Fuel Oil	84.81	101.60	103.20	72.90
Yemen,P.D.R.	Aden	Crude	108.74	129.13	120.31	114.49
		Gasoline	204.20	241.50	307.40	242.10
		Kerosene	199.79	206.50	403.30	200.10
		Gas Oil	170.53	189.20	368.90	191.30
		Fuel Oil	78.15	95.00	102.40	72.10
Yugoslavia	Rijeca	Crude	116.49	136.88	128.29	122.46
		Gasoline	212.02	249.30	323.80	258.60
		Kerosene	207.61	214.30	419.70	216.50
		Gas Oil	178.35	197.00	385.40	207.80
		Fuel Oil	85.97	102.80	118.80	88.60
		FAR EAST MARKET				
South Asia						
Bangladesh	Chittagong	Crude	110.60	130.99	122.57	116.75
		Gasoline	200.27	229.20	298.30	222.30
		Kerosene	196.76	213.40	366.00	184.30
		Gas Oil	183.64	203.90	333.90	176.60
		Fuel Oil	89.35	116.30	117.10	77.40

Contd.....

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

Country	Discharge Port	Product	Price (*) 1989	1990	1991	1992
Burma	Rangoon	Crude	110.49	130.88	122.48	116.66
		Gasoline	192.30	221.30	297.10	221.00
		Kerosene	188.79	205.40	364.70	183.10
		Gas Oil	175.67	195.90	332.70	175.40
		Fuel Oil	81.38	108.30	115.80	76.20
India	Madras	Crude	110.06	130.45	121.78	115.95
		Gasoline	196.65	225.60	298.90	222.90
		Kerosene	193.14	209.80	366.50	184.90
		Gas Oil	180.02	200.30	334.50	177.20
		Fuel Oil	85.73	112.70	117.60	78.00
Sri Lanka	Colombo	Crude	109.07	129.47	120.75	114.92
		Gasoline	193.01	222.00	298.30	222.30
		Kerosene	189.51	206.10	365.90	184.30
		Gas Oil	176.38	196.60	333.90	176.60
		Fuel Oil	82.09	109.00	117.00	77.40
		EAST ASIA AND PACIFIC				
Hong Kong	Hong kong	Crude	112.49	132.88	124.95	119.12
		Gasoline	192.26	221.20	298.10	222.10
		Kerosene	188.76	205.40	365.80	184.10
		Gas Oil	175.63	195.90	333.70	176.40
		Fuel Oil	81.34	108.30	116.90	77.20
Korea	Inchon	Crude	113.87	134.26	126.62	120.80
		Gasoline	191.99	221.00	301.70	225.60
		Kerosene	188.49	205.10	369.30	187.60
		Gas Oil	175.36	195.60	337.20	179.90
		Fuel Oil	81.07	108.00	120.40	80.70
Philippines	Manila	Crude	112.36	132.75	124.77	118.94
		Gasoline	194.92	223.90	297.70	221.70
		Kerosene	191.41	208.00	365.40	183.70
		Gas Oil	178.29	198.50	333.30	176.00
		Fuel Oil	84.00	111.00	116.50	76.80
P.N. Guinea	Bougainville	Crude	0.00	0.00	0.00	0.00
		Gasoline	191.72	220.70	303.80	227.80
		Kerosene	188.22	204.80	371.50	189.80
		Gas Oil	175.09	195.30	339.40	182.10
		Fuel Oil	80.80	107.80	122.60	82.90

Contd.....

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

Country	Discharge Port	Product	Price (*) 1989	1990	1991	1992
Thailand	Bangkok	Crude	111.78	132.18	124.04	118.21
		Gasoline	197.69	226.60	296.20	220.10
		Kerosene	194.18	210.80	363.80	182.20
		Gas Oil	181.06	201.30	331.80	174.50
		Fuel Oil	86.77	113.70	114.90	75.30
Vietnam	Hochimini	Crude	0.00	0.00	0.00	0.00
		Gasoline	190.51	219.50	297.00	221.00
		Kerosene	187.00	203.60	364.70	183.00
		Gas Oil	173.88	194.10	332.60	175.30
		Fuel Oil	79.59	106.50	115.80	76.10
Fiji	Suva	Crude	0.00	0.00	0.00	0.00
		Gasoline	191.76	220.70	309.10	233.10
		Kerosene	188.25	204.90	376.80	195.10
		Gas Oil	175.13	195.40	344.70	187.40
		Fuel Oil	80.84	107.80	127.90	88.20

(*) Early-February Quotations

Product Specifications:

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 April 28, 1992.

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
21.3.86	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	17.34	-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	-3.79
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
22.9.89	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
16.3.90	17.81	16.86	-0.94
23.3.90	17.78	16.40	-1.38
30.3.90	17.79	16.56	-1.24
6.4.90	17.48	16.28	-1.20
12.4.90	17.46	14.55	-2.92
20.4.90	17.28	13.99	-3.29
27.4.90	17.26	14.88	-2.38

Contd.....

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assessment	DIFFERENCE (+) Premium (–) Discount
4.5.90	16.79	14.76	-2.03
11.5.90	16.76	14.75	-2.01
18.5.90	16.75	15.36	-1.39
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
6.7.90	15.91	13.58	-2.33
13.7.90	15.93	13.90	-2.03
20.7.90	15.94	15.64	-0.30
27.7.90	15.94	15.64	-0.30
3.8.90	16.62	17.93	1.31
10.8.90	17.09	23.60	6.51
17.8.90	16.90	23.96	7.06
24.8.90	17.24	28.92	11.68
31.8.90	17.24	27.15	9.93
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
19.10.90	24.76	34.61	9.85
26.10.90	24.72	28.68	3.96
2.11.90	24.75	31.96	7.22
9.11.90	25.21	29.76	4.54
16.11.90	25.21	29.76	4.54
21.11.90	25.16	27.56	2.40
29.11.90	25.18	30.03	4.86
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
04.1.91	22.27	24.15	1.88
11.1.91	22.27	23.17	0.91
18.1.91	22.27	23.52	1.25
25.1.91	22.22	17.50	-4.72
01.2.91	22.22	17.85	-4.37
8.2.91	19.80	17.24	-2.56
15.2.91	19.81	17.36	-2.45
22.2.91	18.89	15.14	-3.76
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

Contd.....

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assessment	DIFFERENCE (+) Premium (–) Discount
5.4.91	17.24	15.57	-1.67
12.4.91	17.24	16.09	-1.15
19.4.91	17.25	16.09	-1.16
26.4.91	17.09	16.92	-0.17
3.5.91	17.24	16.98	-0.26
10.5.91	17.27	17.31	-0.04
17.5.91	17.26	16.76	-0.50
24.5.91	17.31	16.71	-0.60
31.5.91	17.31	16.73	-0.58
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
05.7.91	17.32	16.58	-0.74
12.7.91	17.32	17.04	-0.28
19.7.91	17.45	16.58	-0.89
26.7.91	17.45	17.46	0.01
2.8.91	17.32	17.41	0.09
9.8.91	17.74	17.35	-0.39
16.8.91	17.74	17.32	-0.42
23.8.91	17.74	17.78	0.04
30.8.91	17.74	17.87	0.13
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
4.10.91	17.83	19.24	1.41
11.10.91	17.89	19.65	1.76
18.10.91	17.89	20.12	2.23
25.10.91	17.89	20.30	2.41
1.11.91	17.88	19.80	1.92
8.11.91	18.95	20.09	1.14
15.11.91	18.94	19.43	0.49
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

@ = 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) 1991-92

(Official Selling Prices)

(US $/bbl.FOB)

Crude	Country	April-June 1991	July-Sept 1991	Oct-Dec 1991	Jan-March 1992
Arab Light	Saudi Arabia	16.36	17.63	18.31	16.45
Arab Medium	Saudi Arabia	14.97	16.05	16.61	14.75
Arab Heavy	Saudi Arabia	13.28	14.56	15.58	13.35
Berri	Sauid Arabia	17.68	18.88	19.55	17.59
Iran Light	Iran	16.54	17.52	18.18	16.30
Iran Heavy	Iran	15.47	16.32	17.08	15.30
Basrah Light	Iraq	0.00	16.40	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	16.65	0.00	0.00
Kuwait	Kuwait	0.00	14.05	0.00	0.00
Murban	Abu Dhabi	16.72	18.78	19.54	17.20
Dukhan	Qatar	16.76	18.18	18.84	17.10
Khafji	Neutral Zone	13.10	14.57	15.48	13.45
Es Sider	Libya	18.12	19.27	20.02	16.94
Bonny Light	Nigeria	18.94	20.44	21.17	18.08
Bonny Medium	Nigeria	18.29	20.13	21.18	17.60
Saharan	Algeria	19.29	20.78	21.69	18.38
Mandji	Gabon	15.07	16.74	17.53	14.80
Oriente	Ecuador	16.36	17.15	16.88	14.47
TJ Light	Venezuela	18.82	20.15	19.32	17.13
TJ Medium	Venezuela	15.39	16.46	16.13	13.95
Bachaquero	Venezuela	10.20	10.95	10.28	8.45
Sumatran	Indonesia	17.92	19.01	19.87	17.28
Attaka	Indonesia	18.89	20.29	22.15	18.30
OPEC Average		16.50	17.69	17.99	15.47
Persian Gulf		15.75	16.98	17.34	14.87

Country Export Shares

(percentages)

Saudi Arabia	34.34	35.60	35.25	34.92
Iran	14.26	14.35	13.96	14.24
Iraq	0.90	1.65	1.67	1.66
Kuwait	0.04	0.52	1.06	1.94
UAE	10.49	9.71	9.89	9.72
Qatar	1.79	1.66	1.67	1.33
Neutral Zone	0.15	0.65	0.82	1.17
Libya	6.64	6.19	6.42	6.30
Nigeria	8.43	7.95	7.94	7.81
Algeria	3.58	3.38	3.34	3.32
Gabon	1.34	1.27	1.23	1.17
Ecuador	1.32	1.25	1.22	1.25
Venezuela	10.38	9.71	9.61	9.33
Indonesia	6.35	6.12	5.92	5.84

SOURCE: The World Bank/International Finance Corporation - OFFICE MEMORANDUM dated April 28,1992.

DEVELOPMENT OF SPOT PRICES OF KEY OPEC CRUDE OILS SINCE JANUARY 1986.

(US $ barrel)

Month	Arab Light 34	Arab Heavy 27	Iran Light 33.9	Kuwait (Export) 31	Iraq Basrah 34	UAE Murban 39.10	Qatar Dukhan10
1	2	3	4	5	6	7	8
1986							
January	23.65	22.20	23.60	22.70	23.55	23.90	23.80
Feburary	15.88	16.50	15.88	14.88	15.88	16.19	16.00
March	13.13	11.25	13.13	12.13	13.13	13.44	13.40
April	11.17	9.83	11.17	10.33	11.17	11.50	11.50
May	12.30	10.80	12.30	11.30	12.30	12.55	12.55
June	10.67	9.67	10.83	10.17	10.67	10.92	10.92
July	8.63	7.63	8.63	7.75	8.63	8.88	8.88
August	11.69	10.70	12.05	7.00	12.05	12.30	12.30
September	13.63	12.44	13.63	12.83	13.63	13.88	13.88
October	14.00	13.00	14.00	13.25	14.00	14.25	14.13
November	13.75	12.25	13.75	14.63	13.75	14.00	14.00
December	15.19	13.63	15.19	16.95	NA	15.44	15.44
1987							
January	17.50	16.25	17.50	16.95	NA	17.72	17.72
February	16.69	15.69	16.69	16.19	NA	16.79	16.79
March	17.28	16.25	17.24	16.75	NA	17.41	17.41
April	17.38	16.38	17.38	16.88	NA	17.51	17.48
May	17.42	16.30	17.42	16.77	NA	17.54	17.52
June	17.44	16.15	17.44	16.61	NA	17.56	17.54
July	18.01	16.64	18.01	17.32	NA	18.18	18.18
August	17.79	16.44	17.71	17.00	NA	17.90	17.90
September	17.36	16.56	17.39	16.48	NA	17.40	17.40
October	17.36	16.23	17.35	16.59	NA	17.65	17.65
November	17.35	16.15	16.26	16.55	NA	16.78	16.78
December	15.86	14.62	15.32	15.14	NA	15.66	15.66
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	

Contd.....

DEVELOPMENT OF SPOT PRICES OF KEY OPEC CRUDE OILS SINCE JANUARY 1986.

(US $ Barrel)

Month	Arab Light 34	Arab Heavy 27	Iran Light 33.9	Kuwait (Export) 31	Iraq Basrah 34	UAE Murban 39.10	Qatar Dukhan10
1	2	3	4	5	6	7	8
1989							
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	-	-	-	-
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	-	-	-	-

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. New 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	37.00	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	N.R.	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.	16.00

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

WORLD SURVEY OF SELECTED PETROLEUM PRODUCTS PRICES 1991

Country	US $ Exchange Rates In National Currencies	Gasoline	Automotive Diesel Oil	Heavy fuel Oil for Industry	Light Fuel Oil	
					for House hold	for Industry use
		(US$/litre)	(US$/litre)	(US$/tonnes)	(US$/1000 litres)	
1.	2.	3.	4.	5.	6.	7.
Australia	1.28	0.505	0.505	NA	NA	NA
Austria	11.67	0.842	0.609	124.48	404.88	260.12
Belgium	34.16	0.916	0.568	91.72	270.41	231.12
Canada	1.15	0.505	0.490	103.63	343.26	191.30
Denmark	6.40	0.946	0.414	134.14	687.50	288.52
Finland	4.04	1.093	0.774	157.35	327.35	269.64
France	5.64	0.950	0.553	116.01	423.71	N.A.
Germany	1.66	0.866	0.574	137.53	308.61	270.72
Greece	182.06	0.755	0.397	157.66	428.43	396.69
Ireland	0.62	1.006	0.719	140.23	431.90	309.34
Italy	1240.75	1.238	0.769	184.03	905.93	761.29
Japan	134.50	0.944	0.572	240.45	381.19	268.92
Luxembourg	34.16	0.661	0.394	122.45	265.61	250.58
Netherlands	1.87	0.999	0.524	161.91	390.83	N.A.
New Zealand	1.73	0.577	0.275	249.65	N.A.	256.89
Norway	6.48	1.118	0.438	376.16	466.13	388.23
Portugal	144.36	1.018	0.646	182.80	697.91	646.21
Spain	103.93	0.854	0.608	138.04	403.88	360.60
Sweden	6.05	1.123	0.687	372.02	591.49	432.93
Switzerland	1.43	0.771	0.762	142.60	264.18	242.20
Turkey	4168.93	0.735	0.536	182.88	550.20	N.A.
UK	0.57	0.851	0.658	122.54	240.00	221.69
USA	1.00	0.301	0.299	83.84	268.93	184.39

Source : International Energy Agency-Energy prices and taxes Second quarter 1992

CONSUMER/RETAIL PRICES OF SELECTED PETROLEUM PRODUCTS IN VARIOUS COUNTRIES OF THE WORLD AS ON 1.9.1992

S.No.	COUNTRY	MS (Petrol)	HSDO	LDO	KERO-SENE	F.O.	ATF	LPG (Domestic)	EXCHANGE RATE USED
		< (Rs./litre) >						(Rs/Kg)	
	1.	2.	3.	4.	5.	6.	7.	8.	9.
1.	India (New Delhi)	14.62	5.05	4.63	2.52	4.44	10.00	4.78	
2.	Sri Lanka (Colombo)	23.00	7.00	9.00	6.00	4.00	6.60	11.15	Re. 1.00 = 1.555 SL Ruppee
3.	Burma (Rangoon)	24.27	10.19	10.19	13.11	8.25	13.11	14.40	Re. 1.00 = 0.2266 KS
4.	Bangladesh (Dhaka)	9.70	9.07	7.99	9.07	4.71	10.67	10.28	Re. 1.00 = 1.51 BD Taka
5.	Malaysia (Kuala Lumpur)	9.91	6.08	6.08	6.18	NA	7.10	11.03	1 M $ = Rs. 9.35
6.	Thailand (Bangkok)	10.35	9.22	9.13	10.69	NA	8.40	12.79	Re. 1.00 = 1.19 Baht
7.	Vietnam (Hanoi)	7.05	6.04	NA	5.84	3.41	6.49	NA	Re. 1.00 = 383 Dongs
8.	New Zealand (Wellington)	16.00	7.75	NA	NA	4.00	NA	26.67	1NZ $ = Rs. 15/-
9.	Switzerland (Berne)	24.86	23.98	NA	NA	NA	NA	35.20	1 SF = Rs. 22/-
10.	France (Paris)	21.98	14.62	Na	NA	NA	NA	NA	1 FF = Rs. 4.20
11.	Yugoslavia (Belgrade)	35.63	26.88	27.06	NA	13.19	NA	20.00	Re. 1.00 = 16 Dinar

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

(U.S. $/U.S. Gallon)

Countries/ Port	Prices of Jet A.I.Fuel as on 1st April								
	1980	1985	1986	1987	1988@	1989@@	1990@@	1991@@	1992
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Australia									
Perth	114.88	114.02	87.02	100.94	105.11	N.A.	N.A.	N.A.	N.A.
Sydney	114.88	114.02	82.02	100.94	105.11	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.
Belgium									
Brussels	159.00	128.00	105.00	115.00	115.00	N.A.	N.A.	N.A.	N.A.
Egypt									
Cairo	155.20	121.13	105.00	87.00	93.00	71.49	74.93	119.10	76.80
Ethopia									
Addisababa	156.06	150.32	146.66	115.29	96.09	N.A.	N.A.	N.A.	N.A.
France									
Paris	147.90	117.24	138.29	100.59	124.89	61.61	66.24	73.37	61.56
Germany									
Frankfurt	147.32	107.69	112.84	110.90	119.10	63.20	67.96	74.95	65.07
Netherland									
Amsterdam	142.60	115.00	120.00	120.00	120.00	61.20	65.22	68.95	63.41
Italy									
Rome	165.00	135.00	135.00	125.24	138.71	61.58	68.48	75.81	68.70
Kenya									
Nairobi	144.00	168.10	157.61	163.00	160.00	N.A.	N.A.	N.A.	N.A.
Lebanon									
Beirut	185.00	165.00	165.00	100.00	100.00	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.
Mauritius									
Plaisance	140.00	126.00	125.00	60.00	74.46	N.A.	N.A.	N.A.	N.A.
Singapore									
Paya lebar/Changi	137.00	128.50	128.50	90.00	90.00	51.34	63.10	69.07	60.61
Switzerland									
Geneva	155.73	105.58	118.94	118.93	118.15	62.90	67.93	70.51	62.31
U.A.E.									
Abu Dhabi	154.88	100.45	73.28	65.44	69.11	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
UNITED KINGDOM									
London (H)	154.76	129.89	132.14	136.41	182.17	61.95	66.37	72.71	65.98
Karachi	123.28	175.50	175.50	175.50	154.50	N.A.	N.A.	N.A.	N.A.
Kuwait	113.96	98.15	82.44	70.59	72.73	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
Tehran(1)	100.96	122.13	116.23	135.44	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
Bombay	**145.22**	**106.07**	**105.75**	**101.39**	**101.84**	**89.90**	**89.59**	**128.22**	**88.06**
Delhi									
Palam	150.22	108.92	108.75	104.10	104.57	91.82	91.28	133.31	88.30

(1) Monopoly Price (2) Air India Contract Price

As on Ist January, 1988.

Relates to average price.

NA = Not Available

INTERNATIONAL PETROLEUM PRICE INDEX (US $/BARREL) DURING 1984-1992.

(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					
January	60.7	57.4	66.4	58.2	66.9
February	61.8	59.5	66.2	59.7	67.5
March	61.2	59.5	64.2	59.9	67.2

Source : International Financial Statistics Year Book July, 1992.

INTERNATIONAL PETROLEUM SPOT PRICES (US $ / BARREL) DURING 1984-1992.

Year	Petroleum Spot				
	Average Crude Price	Dubai Fateh	U.K. Brent	Alaskan North Slope	West Texas 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					
January	16.38	15.20	18.15	15.80	18.82
February	16.68	15.75	18.10	16.20	19.00
March	16.52	15.75	17.55	16.25	18.92

Source: = International Financial Statistics Year Book July, 1992.

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 000dwt	31.2	30.2	28.8	28.9	28.4	27.5	-3.2	11.4
200-320 000dwt	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 1991

(Million Tonnes)

From \ To	U.S.A.	Canada	Latin America	OECD Europe	Africa	Asia @	Japan	Austra-lasia	Rest of World	Unidentified*	Total
1	2	3	4	5	6	7	8	9	10	11	12
USA	-	3.4	4.5	12.2	-	-	6.2	0.9	0.9	19.8	**47.9**
Canada	50.2	-	0.2	1.1	0.1	0.8	0.3	-	-	2.1	**54.8**
Latin America	113.9	4.7	-	33.8	-	-	7.9	+	0.1	8.5	**168.9**
OECD Europe	20.1	17.4	0.3	-	2.9	0.2	0.1	0.3	6.5	31.4	**79.2**
Middle East	97.4	4.7	15.8	192.7	18.3	165.8	163.7	9.3	17.6	0.8	**686.1**
North Africa	13.5	0.4	-	103.3	4.1	-	1.0	-	6.0	9.2	**137.5**
West Africa	41.0	3.1	-	52.7	5.1	-	0.6	-	-	21.9	**124.4**
East & Southern Africa	-	-	-	-	0.7	-	-	-	0.1	-	**0.8**
South Asia	-	-	-	0.1	-	-	0.5	-	2.8	-	**3.4**
Other Asia	6.9	0.1	-	0.1	-	4.3	47.1	4.3	3.6	13.6	**80.0**
Japan	-	-	-	0.1	-	2.5	-	0.4	0.2	+	**3.2**
Australasia	1.5	0.1	-	-	-	5.1	2.6	-	+	1.5	**10.8**
Ex-USSR	1.9	0.5	0.2	71.9	-	6.2	0.6	-	30.9	-	**112.2**
Other Non-OCED Europe	0.1	-	-	3.7	-	-	-	-	0.1	2.5	**6.4**
China	5.0	-	0.2	0.4	-	9.1	13.3	0.1	-	-	**28.1**
Unidentified *	34.2	0.8	-	28.1	0.2	15.7	-	-	2.4	-	**81.4**
TOTAL IMPORTS	**385.7**	**35.2**	**21.2**	**500.2**	**31.4**	**209.7**	**243.9**	**15.3**	**71.2**	**111.3**	**1625.1**

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

@ Excluding China and Japan + Less than 0.05

Source: B.P. Statistical Review of World Energy June, 1992.

WORLD PRIMARY ENERGY CONSUMPTION BY FUEL* - 1991.

(Million Tonnes Oil Equivalent)

Country/Area	Oil	Natural Gas	Coal	Nuclear Energy	Hydro-Electric	Total
1.	2.	3.	4.	5.	6.	7.
North America						
USA	774.4	507.7	477.9	165.9	26.1	1952.0
Canada	74.8	57.2	25.3	22.1	26.4	205.8
Total North America	**849.2**	**564.9**	**503.2**	**188.0**	**52.5**	**2157.8**
Latin America						
Argentina	20.1	19.0	1.4	2.2	1.2	43.9
Brazil	63.3	3.7	9.7	0.4	18.5	95.6
Mexico	72.6	33.4	6.6	1.1	8.1	121.8
Venezuela	17.3	18.6	0.3	-	3.7	39.9
Others	79.0	9.6	6.7	-	6.8	102.1
Total Latin America	**252.3**	**84.3**	**24.7**	**3.7**	**38.3**	**403.3**
OECD Europe						
Austria	11.2	5.7	3.8	-	2.8	23.5
Belgium & Luxembourg	25.9	8.6	10.9	10.4	+	55.8
Denmark	9.1	2.0	6.5	-	-	17.6
Finland	10.6	2.4	3.6	4.8	1.1	22.5
France	94.4	27.6	20.3	65.0	4.2	211.5
Germany	133.4	56.8	112.4	38.0	1.3	341.9
Greece	15.5	0.2	8.2	-	0.2	24.1
Iceland	0.6	0.0	0.1	-	0.4	1.1
Republic of Ireland	4.6	1.4	4.3	-	0.1	10.4
Italy	91.7	41.4	14.2	-	3.5	150.8
Netherlands	35.4	33.5	9.2	1.0	-	79.1
Norway	8.9	0.0	0.5	-	8.3	17.7
Portugal	11.4	0.0	0.8	-	0.3	12.5
Spain	46.1	5.5	18.7	13.0	2.2	85.5
Sweden	14.6	0.7	2.0	18.6	5.3	41.2
Switzerland	13.0	1.5	0.3	5.6	2.8	23.2
Turkey	22.0	3.8	22.5	-	1.4	49.7
United Kingdom	82.9	54.2	63.4	15.5	0.3	216.3
Total OECD Europe	**631.3**	**245.3**	**301.7**	**171.9**	**34.2**	**1384.4**
Non-OECD Europe						
Ex-USSR	420.1	560.0	253.4	54.7	20.2	1308.4
Czechoslovakia	13.2	10.2	31.7	5.9	0.4	61.4
Hungary	7.4	9.2	5.8	3.4	+	25.8
Poland	13.5	8.1	79.7	-	0.1	101.4
Others	33.0	32.4	35.2	5.4	4.1	110.1
Total Non-OECD Europe	**487.2**	**619.9**	**405.8**	**69.4**	**24.8**	**1607.1**
Middle East						
Total Middle East	**153.1**	**79.9**	**2.7**	**-**	**0.9**	**236.6**
Africa						
Total Africa	**97.4**	**32.9**	**78.3**	**2.5**	**6.7**	**217.8**
Asia & Australasia						
Australia	31.1	16.5	39.9	-	1.3	88.8
China	117.9	13.4	543.8	-	10.6	685.7
India	58.0	12.8	106.0	1.4	5.7	183.9
Indonesia	32.4	8.1	3.9	-	0.6	45.0
Japan	247.3	49.5	78.7	54.1	8.6	438.2
Malaysia	11.3	8.1	0.5	-	0.3	20.2
New Zealand	4.7	4.1	1.3	-	2.1	12.2
Philippines	11.1	-	1.2	-	0.4	12.7
Singapore	19.9	-	-	-	-	19.9
South Korea	56.1	3.5	24.1	14.1	0.4	98.2
Taiwan	27.9	1.9	14.0	9.2	0.3	53.3
Thailand	21.1	6.8	4.7	-	0.3	32.9
Others	32.1	17.8	51.7	0.1	7.9	109.6
Total Asia & Australasia	**670.9**	**142.5**	**869.8**	**78.9**	**38.5**	**1800.6**
TOTAL WORLD	**3141.4**	**1769.7**	**2186.2**	**514.4**	**195.9**	**7807.6**
Of which OECD	1763.6	880.3	924.8	414.0	98.7	4081.4
Of which LDCs	890.6	269.5	855.6	31.0	72.4	2119.1

*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, 1992.

ESTIMATED PER CAPITA PRIMARY ENERGY CONSUMPTION SOME INTERNATIONAL COMPARISONS (1991)

(kgm. Oil Equivalent)

Country/Area	Oil	Natural Gas	Coal	Nuclear Energy	Hydro-electric	Total
1	2	3	4	5	6	7
North America						
USA	3098	2031	1912	664	104	7808
Canada	2823	2158	955	834	996	7766
Total North America	**3071**	**2043**	**1820**	**680**	**190**	**7804**
OECD Europe						
Austria	1455	740	494	-	364	3052
Belgium & Luxembourg	2490	827	1048	1000	+	5365
Denmark	1784	392	1275	-	-	3451
Finland	2120	480	720	960	220	4500
France	1674	489	360	1152	74	3750
Germany	1678	715	1414	478	16	4301
Greece	1535	20	812	-	20	2386
Iceland	2000	0	333	-	1333	3667
Republic of Ireland	1314	400	1229	-	29	2971
Italy	1589	718	246	-	61	2614
Netherlands	2376	2248	617	67	-	5308
Norway	2119	0	119	-	1976	4214
Portugal	1096	0	77	-	29	1202
Spain	1182	141	479	333	56	2192
Sweden	1698	81	233	2163	616	4791
Switzerland	1940	224	45	836	418	3463
Turkey	392	68	401	-	25	886
United Kingdom	1444	944	1105	270	5	3768
Total OECD Europe	**1460**	**567**	**698**	**398**	**79**	**3202**
Non-OECD Europe						
Ex-USSR	1454	1938	877	189	70	4527
Czechoslovakia	841	650	2019	376	25	3911
Hungary	698	868	547	321	+	2434
Poland	353	212	2087	-	3	2655
Others	548	538	585	90	68	1829
Total Non-OECD Europe	**1178**	**1498**	**981**	**168**	**60**	**3885**
Middle East						
Total Middle East	**1567**	**818**	**28**	**-**	**9**	**2422**
Asia & Australasia						
Australia	1819	965	2333	-	76	5193
China	104	12	479	-	9	604
India*	68	15	125	2	7	217
Indonesia	182	45	22	-	3	252
Japan	2002	401	637	438	70	3548
Malaysia	631	453	28	-	17	1129
New Zealand	1382	1206	382	-	618	3588
Phillippines	180	-	20	-	7	207
Singapore	6633	-	-	-	-	6633
Thailand	378	122	84	-	5	590
Others	75	42	121	Neg	19	257
Total Asia & Australasia	**234**	**50**	**303**	**27**	**13**	**627**
Total World	**594**	**335**	**414**	**97**	**37**	**1478**
Of which OECD	**2068**	**1032**	**1084**	**485**	**116**	**4786**

SOURCE:(i) BP Statistical Review of World Energy June, 1992

(ii) World Development Report 1992 for population Projections

* Estimated on the basis of financial year data.

ESTIMATED PER CAPITA CONSUMPTION OF MAIN PETROLEUM PRODUCTS-SOME INTERNATIONAL COMPARISONS 1991

kg./per capita

Country/Area	Gasoline	Middle Distillates	Fuel	Other*	Total
1.	2.	3.	4.	5.	6.
U.S.A.	1306	900	249	642	3097
Canada	1034	845	291	653	2823
OECD Europe	382	592	254	232	1460
Japan	426	664	560	352	2002
Australasia	712	624	112	298	1746
India	4	39	10	12	65
OECD	688	701	295	384	2068

* = Includes refinery gas, LPG, solvents, petrolem coke, bitumen and refinery fuel and loss.

SOURCES: 1. BP Statistical Review of World Energy June, 1992.
2. World Development Report, 1992 for population.

NOTE : Figures for India Inserted.

TRENDS IN WORLD PRIMARY ENERGY CONSUMPTION

(Million Tonnes Oil Equivalent)

YEAR	Oil	Natural Gas	Solid Fuels	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	1641.0	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(P)	3141.4	1769.7	2186.2	195.9	514.4	7807.6

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

P = Provisional.

PRIMARY ENERGY* CONSUMPTION IN SELECTED COUNTRIES/AREAS OF THE WORLD - 1981, 1985, 1988, 1989, 1990 and 1991

(Million Tonnes Oil eqvt.)

COUNTRY/AREA	1981	1985	1988	1989	1990	1991(P)	% Change 1991 over 1990	% share of of total 1991
1.	2.	3.	4.	5.	6.	7.	8.	9.
North America								
USA	1743.0	1744.5	1899.4	1925.7	1929.3	1952.0	+1.2	25.0
Canada	181.1	178.9	200.8	211.2	202.2	205.8	+1.8	2.6
Total North America	**1924.1**	**1923.4**	**2100.2**	**2136.9**	**2131.5**	**2157.8**	**+1.2**	**27.6**
Latin America								
Argentina	38.6	40.6	46.1	45.4	43.4	43.9	+1.3	0.6
Brazil	71.1	80.4	90.4	92.0	94.3	95.6	+1.3	1.2
Mexico	94.2	97.1	98.9	103.5	115.6	121.8	+5.3	1.6
Venezuela	36.4	36.1	37.8	37.6	38.7	39.9	+3.2	0.5
Others	86.8	90.2	98.8	102.4	101.2	102.1	+1.0	1.3
Total Latin America	**327.1**	**344.4**	**372.0**	**380.9**	**393.2**	**403.3**	**+2.6**	**5.2**
OECD Europe								
Austria	20.4	20.3	20.9	21.0	22.4	23.5	+5.9	0.3
Belgium & Luxembourg	47.9	48.0	51.7	53.1	55.1	55.8	+1.3	0.7
Denmark	18.2	18.4	18.0	16.4	16.8	17.6	+4.8	0.2
Finland	19.3	20.6	21.7	21.7	22.0	22.5	+2.3	0.3
France	176.0	180.0	186.6	195.6	200.9	211.5	+5.3	2.7
Germany	339.3	354.4	356.7	348.9	351.5	341.9	-2.7	4.4
Greece	16.1	18.4	21.4	23.2	24.0	24.1	+0.2	0.3
Iceland	0.9	0.9	1.0	1.1	1.0	1.1	+	+
Republic of Ireland	8.1	8.4	8.7	9.2	9.4	10.4	+9.7	0.1
Italy	136.5	132.2	144.6	148.4	151.2	150.8	-0.3	1.9
Netherlands	70.7	69.7	74.4	74.3	76.4	79.1	+3.6	1.0
Norway	16.0	17.0	17.5	17.3	17.8	17.7	-1.0	0.2
Portugal	10.0	10.0	11.3	12.2	12.1	12.5	+3.1	0.2
Spain	73.4	73.0	77.7	85.5	87.5	85.5	-2.3	1.1
Sweden	38.3	41.9	41.9	40.6	41.4	41.2	-0.6	0.5
Switzerland	20.2	22.1	22.4	21.7	22.9	23.2	+1.6	0.3
Turkey	23.6	28.6	47.4	49.7	48.7	49.7	+1.7	0.6
United Kingdom	195.2	201.2	207.0	208.3	209.7	216.3	+3.2	2.8
Total OECD Europe	**1230.3**	**1265.1**	**1330.9**	**1348.2**	**1370.8**	**1384.4**	**+1.0**	**17.7**
Non-OECD Europe								
Ex-USSR	1136.0	1278.8	1363.6	1356.4	1338.6	1308.4	-2.3	16.8
Czechoslovakia	71.5	73.7	76.1	74.8	68.5	61.4	-7.7	0.8
Hungary	26.9	29.6	29.6	28.9	27.2	25.8	-5.1	0.3
Poland	110.8	122.2	126.6	121.9	100.9	101.4	+0.5	1.3
Others	139.1	143.1	149.7	150.8	141.3	110.1	-22.0	1.4
Total Non-OECD Europe	**1484.3**	**1647.4**	**1745.6**	**1732.8**	**1674.5**	**1607.1**	**-4.0**	**20.6**
Middle East								
Total Middle East	**142.7**	**183.3**	**214.8**	**219.1**	**229.2**	**236.6**	**+3.3**	**3.0**
Africa								
Total Africa	**161.5**	**180.8**	**199.2**	**206.4**	**212.9**	**217.8**	**+2.3**	**2.8**
Asia & Australasia								
Australia	71.4	76.1	81.4	86.4	86.9	88.8	-0.1	1.1
China	408.0	526.5	598.0	630.9	653.3	685.7	+5.0	8.8
India**	103.5	129.5	161.0	171.5	178.6	183.9	+2.9	2.4
Indonesia	25.0	28.5	34.0	37.9	42.8	45.0	+5.0	0.6
Japan	340.0	360.6	392.0	407.3	422.7	438.2	+3.7	5.6
Malaysia	8.9	12.1	15.3	17.2	18.1	20.2	+11.3	0.3
New Zealand	8.0	9.8	11.8	11.9	12.1	12.2	+1.1	0.2
Philippines	10.6	9.0	11.4	12.2	12.9	12.7	-2.0	0.2
Singapore	10.9	11.8	16.5	18.9	19.5	19.9	+2.0	0.3
South Korea	40.7	51.2	72.9	79.1	89.5	98.2	+9.7	1.3
Taiwan	22.3	32.1	42.2	44.1	47.1	53.3	+13.3	0.7
Thailand	12.0	15.5	22.3	25.0	29.1	32.9	+12.7	0.4
Others	74.2	83.2	95.7	100.4	105.1	109.6	+4.1	1.4
Total Asia & Australasia	**1135.5**	**1345.9**	**1554.5**	**1642.8**	**1719.8**	**1800.6**	**+4.7**	**23.1**
TOTAL WORLD	**6405.5**	**6890.3**	**7517.2**	**7667.1**	**7731.9**	**7807.6**	**+1.0**	**100.0**
Of whih OECD	3573.8	3635.0	3916.3	3990.7	4026.0	4081.4	+1.4	52.3
Of whih LDCs	1347.4	1607.9	1855.3	1943.6	2031.4	2119.1	+4.3	27.1

* 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, 1992

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

COMMERCIAL PRIMARY ENERGY PRODUTION AND CONSUMPTION BY COUNTRY GROUPS - 1970-1995.

(Million b/d of oil equivalent)

COUNTRY	1970		1980		1995	
	Production	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	1.8
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
Bunkers & 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 1991.

Country	Mid-Year Population 1991 (Million)	GNP 1991 (Bn.$)	Per capita GNP 1991($)	Oil exports 1991 (Bn.$)	Total exports FOB (Bn.$)	Oil exports as % of total exports	Oil reserves 1.1.91 (Bn.bbls)	Gas reserves 1.1.91 (Bn.CM)	Producing oil wells (Dec.91)	Refining capacity 1.1.91 (000/bbls/day)	Exports of products (000 bbls/day
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
Algeria	25.76	46.26	1796	9.59*	14.37*	66.8	9.20	3626	969	474.5	400.0
Ecuador	11.09	18.61	1678	1.03*	2.85	36.1	1.90	110	1082	135.1	24.8
Gabon	1.24	4.18*	3379	1.74*	2.46*	70.6	1.82	93	366	20.0	4.7
Indonesia	182.89	111.15*	608	6.87	29.29*	23.4	10.78	2950	7884	782.8	230.0
I.R.Iran	56.41	455.64*	8077	15.28*	16.73*	91.3	92.86	20000	688	946.0	88.0*
Iraq	19.60	-	-	-	-	-	100.00	3100	-	550.0a	-
Kuwait	2.24	-	-	-	-	-	96.50	1500	295	670.0a	40.0*
Libya	4.78	28.06*	5876	10.03*	10.49*	95.6	22.80	1309	1078	342.0	140.0*
Nigeria	118.76	29.56*	249	12.15	12.84	94.6	20.00	3400	1695	400.5	31.0
Qatar	0.47	7.45	15759	2.19*	2.34*	93.5	4.50	5000	229	63.0	81.6
Saudi Arabia	15.58	118.45*	7601	42.65*	48.79*	87.4	260.94	5228	1400	1750.0	1134.1
U.A.E.	1.66	33.67	20222	13.92*	20.23*	68.8	98.10	6658	1481	192.5	170.0*
Venezuela	20.28	51.76	2552	13.00*	16.33*	79.6	62.65	3582	17387	1224.0	711.3
TOTAL OPEC	460.76	904.80	1964	128.44	176.72	72.7	782.05 (77.0)	56556 (39.8)	34627 -	7550.4 (10.0%)	3055.5 (25.9%)

+ Total includes figures for Saudi Arabian - Kuwaiti Divided Zone. (73)
Figures in brackets are OPEC's share to total world.
Source : OPEC Annual Bulletin 1991.

Note : Not available, * provisional or estimated figures, as of August 1991.
a = Pre-Gulf crisis capacity.

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
A. ONGC						
1. ONSHORE						
Cambay	6.79	7.33	7.80	8.18	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. OFFSHORE						
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	3.75
TOTAL OFFSHORE	**15.07**	**17.02**	**28.47**	**29.15**	**29.25**	**118.96**
TOTAL ONGC	**25.54**	**28.50**	**40.95**	**42.35**	**43.38**	**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**

Source : Draft Report - Eighth Five Year Plan. Note : The NGL production is included in the total crude oil production.

EIGHTH PLAN NATURAL GAS PRODUCTION PROFILE (Bn. Cub. Mtrs)

Company/areas	1992-93	1993-94	1994-95	1995-96	1996-97	1992-97
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. OFFSHORE						
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 - Eighth Five Year Plan

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

(1)	Unit (2)	ONGC (3)	OIL (4)	TOTAL (5)
1. **Geological and** Gravimagnetic Survey	Sq.km.	(----------R & D WORK----------)		
2. **Seismic Surveys (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: Eighth Five year Plan Document.

EIGHTH PLAN TARGETS FOR OIL SECTOR (1992-97)

Items (1)	UNIT (2)	1989-90 (Actual) (3)	1991-92 (Actual) (4)	1996-97 (Target) (5)
1. **PRODUCTION OF CRUDE OIL**				
(i) ON SHORE	(Million Tonnes)	12.37	11.38	17.83
(ii) OFF-SHORE	(Million Tonnes)	21.72	18.96	29.25
TOTAL	(Million Tonnes)	34.09	30.34	47.08
2. **PRODN. OF NATURAL GAS**				
(i) ON-SHORE	(Bn.Cubic Metres)	3.90	4.25	9.04
(ii) OFF-SHORE	(Bn.Cubic Metres)	13.09	14.39	21.14
(iii) TOTAL	-do-	16.99	18.64	30.18
3. **REFINING**				
(i) REFINING CAPACITY (At year end)	(Million tonnes)	51.85	51.85	73.55
(ii) REFINERY CRUDE THROUGHPUT	(Million tonnes)	51.94	51.42	65.12
(iii) REFINERY PRODUCTION	(Million tonnes)	48.69	48.35	61.20
4. **NET IMPORTS (QTY.)**				
(i) CRUDE OIL	(Million tonnes)	19.49	23.99	NA
(ii) PETROLEUM PRODUCTS	(Million tonnes)	3.97	6.51	NA
TOTAL	(Million tonnes)	23.46	30.50	NA
Value of Crude oil & Petroleum Products.	(Rs./Crores)	5649	11824	NA
5. **Demand of Petroleum** Products	(Million tonnes)	54.10	56.81	79.37
6. **LPG**				
(i) Production	(Million tonnes)	1.95	2.49	2.06*
(ii) Number of Customers of year end	(Million)	16.20	18.14	31.7

Source:- Eighth five year plan Document. * L.P.G. Production from Natural Gas

DEMAND FOR PETROLEUM PRODUCTS. 1984-85 TO 2001-02

	1984 -85	1989 -90	1990 -91	1991 -92	1996 -97	2001 -02
Demand for Petroleum Products (MMT)	38.80	54.10	55.04	56.81	79.37	102.51
Annual Growth Rate over the five years ending in the year (%)	5.4	6.9	1.7	3.2	6.9	5.2
Share of Middle Distillates (%)	57.8	60.0	60.2	60.6	57.7	57.8

Source: VIIIth Five Year Plan Document.

IMPORT AVAILABILITY RATIOS OF CRUDE OIL & PETROLEUM PRODUCTS 1979-80 TO 1991-92

(Million tonnes)

	1979 -80	1984 -85	1989 -90	1990 -91	1991 -92
A. CRUDE OIL					
i) Production	11.77	28.99	34.09	33.02	30.34
ii) Imports	16.12	7.16	19.49	20.70	23.99
iii) Availability (Net)	27.89	36.15	53.58	53.72	54.33
iv) Item (2) as % of Item (3)	57.80	19.81	36.38	38.53	44.16
B. PETROLEUM PRODUCTS					
i) Production	25.79	33.24	48.69	48.57	48.35
ii) Imports	4.72	6.09	6.56	8.66	9.45
iii) Availability (Gross)	30.51	39.33	55.25	57.23	57.80
iv) Item (2) as % of Item (3)	15.47	15.48	11.87	15.13	16.35

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

PLAN/ PERIOD	VALUE* (Rs./Crores)
(1)	(2)
Vth Plan (1974-79)	6977
VIth Plan (1980-85)	21388
VIIth Plan (1985-90)	19585

*- Net of POL Imports.

PART - III

FINANCIAL PERFORMANCE/ STRUCTURE AND QUICK REVIEW

PART - III
FINANCIAL PERFORMANCE/ STRUCTURE AND QUICK REVIEW

CAPITAL INVESTMENT:

The Capital investment defined as the sum total of paid-up capital and loans has registered an increase of 18% from Rs. 15545.60 Crores in 1989-90 to 18327.98 crores in 1990.91. The increase in the capital investment in 1990.91 was on account of increase in the paid up capital from Rs. 1890.66 crores to Rs. 1899.53 crores and loans from Rs. 13654.94 Crores, to Rs. 16428.45 crores. The break-up of increase in the paid up capital and loans is an under :-

(A) PAID-UP CAPITAL

(Rs. Crores)

Names of the undertaking	1989-90	1990-91	% Increase
1. Balmer Lowrie Ltd.	8.69	13.03	49.9
2. ONGC-V	25.00	30.00	20.0

(B) LOANS

1. Oil & Natural Gas Commission	5772.80	6730.53	16.6
2. Oil India Limited	220.47	308.89	40.1
3. Indian Oil Corporation Ltd.	5441.14	7127.69	31.0
4. Madras Refineries Ltd.	189.13	233.74	23.6
5. IBP Co. Ltd.	33.50	64.72	93.2
6. Indian Oil Blending Ltd.	8.62	9.55	10.8
7. Lubrizol India Ltd.	18.87	27.91	47.9
8. Balmer Lawrie Ltd.	52.21	70.82	35.6
9. Biecco Lawrie Ltd.	47.82	50.22	5.0
10. ONGC-V	0.00	23.75	-

The position of the foreign loans during three years 1988-89 and 1989-90 & 1990-91 is given below:-

(Rs./Crores)

	1988-89	1989-90	1990-91
a) Foreign Loans	5890.88	10333.69	13256.88
b) Total Loans	8791.12	13654.94	16428.45
c) % of Foreign loans to Total loans	67.0	76.0	80.7

IOC and ONGC together accounts for 78% of total foreign loans outstanding on 31.3.91.

The loans/Paid up Capital ratio of all undertakings together increased from 7.22 in 1989-90 to 8.6 in 1990-91.

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 23.7% from Rs. 15964.58 Crores in 1989-90 to Rs. 19755.12 crores in 1990-91. The details of changes in Capital employed is given below:-

(A) NET FIXED ASSETS

(Rs./Crores)

	Name of the Undertakings	1989-90	1990-91	% Increase
1.	Oil and Natural Gas Commission	6425.86	7713.35	20.0
2.	Oil India Limited	178.35	200.40	12.4
3.	Gas Authority of India Ltd.	1243.81	1436.01	15.5
4.	Indian Oil Corpn. Ltd.	966.98	1091.23	12.8
5.	Bharat Petroleum Corpn. Ltd.	581.47	636.92	9.5
6.	Hindustan Petroleum Corpn. Ltd.	631.79	677.98	7.3
7.	Madras Refineries Ltd.	184.08	184.27	0.1
8.	IBP Co. Ltd.	36.98	50.25	35.9
9.	Lubrizol India Ltd.	17.76	27.19	53.1
10.	Indian Oil Blending Ltd.	3.77	14.18	276.1
11.	B.R.P.L.	247.34	221.11	(-) 10.6
12.	Engineers India Ltd.	39.65	38.27	(-) 3.5
13.	Balmer Lawrie Ltd.	20.21	22.59	11.8
14.	Biecco Lawrie Ltd.	0.76	0.76	0.00
15.	Cochin Refineries	198.19	259.27	30.8

(B) WORKING CAPITAL

1.	Oil and Natural Gas Commission	2512.58	3517.33	40
2.	Oil India Ltd.	264.76	447.91	69.2
3.	Indian Oil Corpn. Ltd.	1599.25	2440.76	52.6
4.	Gas Authority of India Ltd.	(-) 49.66	(-) 96.60	(-) 94.5
5.	Bharat Petroleum Corpn. Ltd.	76.18	82.23	7.9
6.	Cochin Refineries Ltd.	101.23	87.75	(-) 13.3
7.	Madras Refineries Ltd.	152.05	164.75	8.4
8.	Hindustan Petroleum Corp. Ltd.	264.72	208.51	(-) 21.2
9.	Lubrizol India Ltd.	33.72	36.25	7.5
10.	IBP Co. Ltd.	21.56	23.21	7.7
11.	Indian Oil Blending Ltd.	(-) 0.02	2.14	214.0
12.	B.R.P.L.	85.63	131.19	53.2
13.	Engineers India Ltd.	44.80	54.59	21.9
14.	Balmer Lawrie Ltd.	54.76	67.64	23.5
15.	ONGC Videsh Ltd.	22.91	11.11	(-) 51.5
16.	Biecco Lawrie	2.97	2.42	(-) 18.5

SALES TURNOVER:

The sales turnover of all the Undertaking clubbed together increased by 8.8% from Rs. 42325.05 crores in 1989-90 to Rs. 46049.83 crores in 1990-91. The Company-wise share of sales-turnover showing the amount is as under:-

		% Share	(Rs./Crores)
1.	ONGC	8477.42	18.4
2.	IOC	19529.68	42.4
3.	BPCL	5283.06	11.6
4.	HPCL	6283.13	13.6
5.	CRL	1488.64	3.2
6.	MRL	1647.88	3.6
7.	OIL	663.03	1.4
8.	**Others**	**2676.99**	**5.8**
	Total	**46049.83**	**100.00**

PROFITABILITY :

The adjusted gross profit which stood at Rs. 3995.34 crores during 1989-90 decreased to Rs. 2376.2 crores in 1990-91. The adjusted gross profit expressed as a percentage of sales turnover went down from 9.4% in 1989-90 to 5.16% in 1990-91. The net profits have also gone down from Rs. 2903.09 crores in 1989-90 to Rs. 2312.53 crores in 1990-91. The net profit expressed as a percentage of paid-up Capital went down from 153.6% in 1989-90 to 121.7% in 1990-91 while that of net profits to net worth went down from 17.5% to 12.47%. The return on capital employed, decreased from 25.0% to 12.03%.

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. 156.85 crores in 1989-90 to Rs. 171.40 crores in 1990-91. The highest amount of dividend was paid by Oil & Natural Gas Commission which paid Rs. 61.71 crores in 1990-91. The Indian Oil Corporation Limited paid a dividend of 27.12 crores in 1990-91. Biecco lawrie Ltd., ONGC's Videsh Ltd., and GAIL 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. 544.34 Crores in 1990-91 as against Rs. 764.48 crores in 1989-90.

(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 (ONGC)
2. ONGC's Videsh Ltd. (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

	1988-89	1989-90	1990-91
1. Paid up Capital	1241.17	1241.17	1246.17
2. Loans	5493.26	6857.07	7904.11
3. Net Worth	10230.96	11503.07	12432.46
4. Capital Employed	10071.58	10598.75	13229.65
4. 1. Net Fixed Assets	7750.97	7848.16	9349.90
4. 2. Working Capital	2320.61	2750.59	3879.75
5. Sales turnover	7687.22	9372.06	9931.46
6. Adjusted Gross Profit	2513.18	2595.28	967.01
7. Net Profit	1638.67	1738.73	1140.97
8. Dividends	55.63	59.06	66.19
9. Corporate Tax	510.49	433.60	102.76

The salient points of analysis are given as under:

(1) CAPITAL INVESTMENT

There has been an increase of 13% in the Capital investment from Rs. 8098.24 crores in 1989-90 to Rs. 9150.28 crores in 1990-91. The incresase in the capital investment was on account of increases in the paid-up capital and loans of the undertakings noted below.

(Rs./Crores)

	1989-90	1990-91	% Increase
1. Oil & Natural Gas Commission	6115.65	7073.38	15.7
2. Oil India Limited	248.47	336.89	35.6
3. ONGC-V	25.00	53.75	115

(2) CAPITAL EMPLOYED

The capital employed registered an increase of 24.8% from Rs. 10598.75 Crores in 1989-90 to Rs. 13229.65 Crores in 1990-91. 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)

	1989-90	1990-91	% Increase
1. ONGC	6425.86	7713.35	20
2. Oil India Limited	178.35	220.40	12.4
3. Gas Authority of India Ltd.	1243.81	1436.01	15.5
4. ONGC Videsh Ltd.	0.14	0.14	-

B. WORKING CAPITAL

1. Oil & Natural Gas Commission	2512.58	3517.33	40.0
2. Oil India Limited	264.76	447.91	69.2

(3) SALES TURNOVER

The sales turnover under this category went up from Rs. 9372.06 crores in 1989-90 to Rs. 9931.46 Crores in 1990-91 showing an increase of 6%. The sales of Oil & Natural Gas Commission went up from Rs. 8078.09 crores in 1989-90 to Rs. 8477.42 crores in 1990-91 and that of Oil India Limited increased from Rs. 643.43 crores to Rs. 663.03 crores in the same period. There has also been an increase in the Sales Turnover of Gas Authority of India, from Rs. 650.54 crores to Rs. 791.01 crores in the same period.

(4) PROFITABILITY

The adjusted gross profit decreased by 62.7% from Rs. 2595.28 Crores in 1989-90 to Rs.967.01 crores in 1990-91. The gross profits expressed as a % age of sales turnover decreased from 27.7% in 1989-90 to 13.6% in 1990-91. The ratio of gross profit to Capital employed declined from 24.5% to 10.2%. The ratios of net profit to paid up capital and net worth were 91.6% and 9.2% in 1990-91 against 140.1% and 15.1% Respectively in 1989-90.

(5) DIVIDEND

The dividend declared by ONGC and OIL has been going up continuously. During 1990-91 the dividends was Rs. 66.19 crores as against Rs. 59.06 crores in 1989-90.

(6) CORPORATE TAX

The contribution made by ONGC & OIL by way of taxes to the National exchequer has decreased from Rs. 433.60 crores in 1989-90 to Rs. 102.76 crores in 1990-91 due to reduction in Taxable Income of these companies.

(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 has been given in the table No. 9. Summary position of the undertakings for three years is as under :-

(Rs./Crores)

	1988-89	1989-90	1990-91
1. Paid up Capital	406.97	438.01	437.54
2. Loans	3157.45	6644.61	8364.01
3. Net Worth	3592.59	4658.86	5676.19
4. Capital Employed	6079.09	4869.71	5986.89
4.1 Net Fixed Assets	2273.90	2621.02	2941.29
4.2 Working Capital	3805.19	2248.69	3045.60
5.1 Sales turnover	28952.28	32258.10	35355.03
5.2 Other Income	290.28	433.49	966.38
Total	**29242.56**	**32691.59**	**36321.41**
6. Adjusted Gross Profit	1412.56	1343.65	1342.77
7. Net Profit	907.77	1131.58	1109.25
8. Dividends	64.19	88.54	92.10
9. Corporate Tax	239.49	310.95	430.83

An analysis of the salient features is given below :

(1) CAPITAL INVESTMENT

During the year the capital investment increased by 24.3% from Rs. 7082.62 in 1989-90 to Rs. 8801.55 crores in 1990-91. The increase in 1990-91 was due to increase in loans in respect of the following undertakings.

LOANS

(Rs./Crores)

	1989-90	1990-91	% Increase
1. Indian Oil Corp. Ltd.	5441.14	7127.69	31
2. Indian Oil Blending Ltd.	8.62	9.55	11
3. Madras Refineries Ltd.	189.13	233.74	23.6
4. IBP Co. Ltd.	33.50	64.72	93.2
5. Lubrizol India Ltd.	18.87	27.91	47.9

With the increase in the loans in 1990-91 the loans/paidup capital ratio has gone up from 15.2 in 1989-90 to 19.1 in 1990-91.

CAPITAL EMPLOYED

The Capital employed in the Refining and Marketing category increased by 22.9% from Rs. 4869.71 crores in 1989-90 to Rs. 5986.89 crores in 1990-91. This was due to increase in working capital and Net fixed assets.

(3) SALES TURNOVER.

The sales turnover of the Companies under this category has increased by 9.6% from Rs. 32258.10 Crores in 1989-90 to Rs. 35355.03 Crores in 1990-91. The details of sales turnover in respect of major companies under this category are as under :

(Rs./Crores)

	1989-90	1990-91
1. IOC	17476.60	19529.68
2. BPCL	4881.69	5283.06
3. HPCL	6048.18	6283.13
4. CRL	1337.07	1488.64
5. MRL	1322.98	1647.88
6. IBP	995.53	903.83

(4) PROFITABILITY.

The % age of adjusted gross profit to sales turnover was 3.8% during 1990-91 as against 4.2% in 1989-90.

The adjusted gross profits and Net Profits were Rs. 1342.77 Crores and Rs. 1109.25 Crores in 1990-91 against Rs. 1343.65 crores & 1131.58 crores respectively in 1989-90. The return on capital Employed which was 27% decreased to 22.43%. The ratio of net profit to paid-up capital and Net worth were 253.52% and 19.54% in 1990-91 against 258.6% and 24.3% respectively in 1989-90.

(5) DIVIDEND.

During 1990-91, the companies under Refining and marketing paid out Rs. 92.10 crores as dividend as against Rs. 88.54 crores in 1989-90. The amount paid in 1988-89 was Rs. 64.19 crores. IOC paid out the highest amount of dividend amounting to Rs. 27.12 crores followed by MRL amounting to Rs. 23.97 Crores.

(6) CORPORATE TAX:

The taxes paid by this group of companies was Rs. 430.83 crores in 1990-91 against Rs. 310.95 crores in 1989-90.

(C) PETROCHEMICAL

There is only one undertaking in this category viz., Bongaigoan 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)

	1988-89	1989-90	1990-91
1. Paid-up Capital	199.82	199.82	199.82
2. Loans	83.13	48.97	35.79
3. Net Worth	275.63	297.12	336.02
4. Capital Employed	364.00	332.97	352.30
4. 1.Net Fixed Assets	264.57	247.34	221.11
4. 2.Working Capital	99.43	85.63	131.19
5. Sales turnover	338.56	402.84	414.62
6. Adjusted gross Profit	38.48	43.99	47.00
7. Net profit	22.02	28.92	48.50
8. Dividend paid	NIL	7.99	9.99
9. Corporate Tax	4.30	6.00	--

As analysis of the salient features is as under :

(1) CAPITAL INVESTMENT:

The capital investment decreased by 5.3% from Rs. 248.79 crores in 1989-90 to Rs. 235.61 crores in 1990-91. The decrease is due to reduction in loans from Rs. 48.97 crores in 1989-90 to Rs. 35.79 crores in 1990-91. With the decrease in loans, the loans/paid up capital ratio decreased from 0.25 in 1989-90 to 0.18 in 1990-91.

(2) CAPITAL EMPLOYED:

The capital employed increased by 5.8% from Rs. 332.97 crores in 1989-90 to Rs. 352.30 crores in 1990-91. The increase in Capital employed is due to increase in the working capital of the undertaking as compared to those in 1989-90.

(3) SALES TURNOVER:

The Sales Turnover increased by 2.9% from Rs. 402.84 Crores in 1989.90 to Rs. 414.62 Crores in 1990-91.

(4) PROFITABILITY:

The % age of gross profits to sales turnover stood at 11.3% in 1990-91 as against 10.9% in 1989-90. The return on capital employed increased from 13.2% to 13.3% in the same period. The ratio of Net profit to paid-up Capital and net worth increased from 14.5% and 9.8% in 1989-90 to 24.3% and 11.4% respectively in 1990-91.

CORPORATE TAX:

The Company paid no corporate tax in 1990-91 as against 6.00 crores paid in 1989-90.

(D) ENGINEERING UNITS

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

i.	Engineers India Ltd.	(EIL)
ii.	Balmer Lawrie Ltd.	(BLL)
iii.	Biecco Lawrie Ltd.	(BLL)

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

Summary of the results of these companies is as under :

(Rs./Crores)

	1988-89	1989-90	1990-91
1. Paid-up Capital	6.79	11.66	16.00
2. Loans	57.28	104.29	124.54
3. Net Worth	65.30	91.58	101.98
4. Capital Employed	139.12	163.15	186.28
4.1 Net Fixed Assets	58.52	60.62	61.62
4.2 Working Capital	80.60	102.53	124.66
5. Sales turnover	275.15	292.05	348.72
6. Adjusted gross Profit	23.75	12.42	19.42
7. Net Profit	2.36	3.79	13.81
8. Dividend	1.13	1.26	3.12
9. Corporate Tax	9.82	13.93	10.75

An analysis of the salient features are as under :

(1) CAPITAL INVESTMENT

The Capital Investment under this category increased by 21.2% from Rs. 115.95 Crores in 1989-90 to Rs. 140.54 Crores in 1990-91. The increase in the capital Investment was due to increase in the paid up capital and loans of the undernoted companies.

(A) PAID UP CAPITAL

(Rs. in Crores)

Sl.No. Name of the Company	1989-90	1990-91	% age increase
1. Balmer Lawrie & Co. Ltd.	8.69	13.03	49.9

(B) LOANS

1. Balmer Lawrie Co. Ltd.	52.21	70.82	35.6
2. Biecco Lawrie Ltd.	47.82	50.22	5.0

With the increase in loans and paid up capital the loans paid up capital ratio decreased from 8.9 in 1989-90 to 7.8 in 1990-91.

(2) CAPITAL EMPLOYED

The capital employed by the engineering units has increased by 14.2% from Rs. 163.15 Crores in 1989-90 to Rs. 186.28 Crores in 1990-91. The corresponding increase in the preceding year was 17.3%. The net fixed assets and working capital of the companies under this category are as under :-

(A) NET FIXED ASSETS

(Rs./Crores)

	1989-90	1990-91	% + Increase − decrease
1. Engineers India Ltd.	39.65	38.27	(-) 3.5
2. Balmer Lawrie Ltd.	20.21	22.59	11.8
3. Biecco Lawrie Ltd.	0.76	0.76	Nil
TOTAL :	**60.62**	**61.62**	**1.6**

(B) WORKING CAPITAL

1. Engineers India Ltd.	44.80	54.59	21.9
2. Balmer Lawrie Ltd.	54.76	67.64	23.5
3. Biecco Lawrie Ltd	2.97	2.42	(-) 18.5
TOTAL:	**102.53**	**124.65**	**21.6**

(3) SALES TURNOVER

The Sales turnover of the undertakings in this category increased by 19.4% from Rs. 292.05 crores in 1989-90 to Rs. 348.72 crores in 1990-91. The Corresponding increase in the preceding year was 6.1%. The ratio of gross profit to sales turnover increased from 4.3% in 1989-90 to 5.6% in 1990-91.

(4) PROFITABILITY

The adjusted gross profits have increased from Rs. 12.42 Crores in 1989-90 to Rs. 19.42 Crores in 1990-91. The ratio of net profit to paid up capital increased from 32.5% in 1989-90 to 86.3% in 1990-91. The ratio of net Profit to Net worth increased from 4.1% to 13.5% during the same priod.

(5) DIVIDEND

The Companies under this category paid a dividend of Rs. 3.12 crores in 1990-91 against Rs. 1.26 Crores paid during previous year.

(6) CORPORATE TAX

The contribution made by the companies to National Exchequer by way of taxes was Rs.10.75 crores in 1990-91 as against Rs. 13.93 crores in 1989-90.

QUICK REVIEW OF FINANCIAL STRUCTURE 1991-92

In 1991-92, there were 16 enterprises (including two subsidiaries viz., ONGC's Videsh Ltd., & Indian Oil Blending Ltd.) under the department of Petroleum & Natural Gas, Four under "Exploration and production" Eight under Refining & Marketing One under petrochemicals and Three under Engineering Services. According to provisional figures available in E & S division, the 16 enterprises together employed a total capital of Rs. 22125.59 crores and had a paid-up capital of Rs. 1899.52 crores as per enterprisewise details in Annexure-I. During 1991-92 these enterprises achieved an annual Sales turnover of Rs. 48459.74 crores and earned a gross profit of Rs. 2881.10 Crores. Corresponding figures for the year 1990-91 being Rs. 46301.41 and Rs. 3758.97 crores. Thus while the sales turnover increased by 4.7% the gross profit went down by 23.40%. The net profit after interest and taxes amounted to Rs. 1812.72 crores during 1991-92 as against Rs. 2309.63 crores in 1990-91. The ratio of net profit to paid-up capital and net worth worked out to 95.4% and 9.9% in 1991-92 as aginst 121.6% and 12.3% respectively in 1990-91.

The over-all financial position/results for the year 1991-92 under each of the above mentioned categories are summarised as under :

(Rs./Crores)

	Exploration and production	Refining and Marketing	Petro-Chemicals.	Engg. Units.	Total
1. Paid-up Capital	1246.17	437.53	199.82	16.00	1899.53
2. Loans	11133.79	5149.60	48.90	155.27	16487.56
3. Net Worth	11020.49	6753.44	362.13	130.64	18266.70
4. Capital Employed	15734.01	5788.05	363.47	240.06	22125.59
5. Sales turnover	9772.89	3772.83	466.68	447.34	48459.74
6. Gross profit before Interest & Tax	842.66	1911.49	68.45	58.50	2881.10
7. Net profit after Interest & Tax	552.22	1196.82	35.98	27.70	1812.72
8. Corporate Tax	134.79	566.90	29.20	17.50	748.39
9. Dividend	66.19	120.19	9.99	4.13	200.50
% age of					
1. Net profit to paid-up Capital	44.3	273.5	18.0	173.1	95.4
2. Net profit to net worth	5.0	17.7	9.9	21.2	9.9
3. Gross Profit to Capital Employed	5.4	33.0	18.8	24.4	13.0

It would be seen from Annexure-I that with the exception of the company viz. Biecco Lawrie Ltd., all the companies have made profits. IOC has earned the highest gross profit of Rs. 1084.78 crores followed by ONGC with a gross profit of Rs. 530.06 crores. IOC also earned the highest net profit of Rs. 786.78 crores followed by ONGC with Rs. 408.32 Crores and BPCL with Rs. 148.46 Crores.

4. FINANCIAL STATISTICS

4.1 FINANCIAL STRUCTURE/PROFITABILITY OF THE PUBLIC/JOINT SECTOR UNDERTAKINGS UNDER THE PURVIEW OF MINISTRY OF PETROLEUM & NATURAL GAS DURING 1991-92.

PROVISIONAL

Annexure-I Rs./Lakhs.

Name of the Undertaking	Paid-up Capital	Loans	Net Worth	Capital Employed	Sales/ Operating Income	Gross profit before Int. & Tax	Net Profit after Int. & Tax	Corporate Tax	Dividend	<---- Percentage ----> NP to Paid-up Capital	NP to Net Worth	GP to CE
1	2	3	4	5	6	7	8	9	10	11	12	13
A. EXPLORATION & PRODUCTION	**124617**	**1113379**	**1102049**	**1573401**	**977289**	**84266**	**55222**	**13479**	**6619**	**44.3**	**5.0**	**5.4**
1. ONGC	34285	974066	950663	1354566	809201	53006	40832	12173	6171	119.1	4.3	3.9
2. ONGC Videsh Ltd.	3000	847	2599	916	0	451	390	570	-	13.0	15.0	49.2
3. OIL	2800	44726	62725	70125	63403	11352	4645	736	448	165.9	7.4	16.2
4. GAIL	84532	93740	86062	147794	104685	19457	9355	-	-	11.1	10.9	13.2
B. REFINING & MARKETING	**43753**	**514960**	**675344**	**578805**	**3777283**	**191149**	**119682**	**56690**	**12019**	**273.5**	**17.7**	**33.0**
5. IOC	12327	362682	432278	266147	2072927	108478	78678	29800	4068	638.3	18.2	40.8
6. BPCL	5000	32299	79747	84716	569844	29963	14846	10700	1500	296.9	18.6	35.4
7. HPCL	6384	47689	90137	97097	686265	26790	12977	7600	1915	203.3	14.4	27.6
8. CRL	6893	14350	29338	39064	111424	10486	5604	4200	1448	81.3	19.1	26.8
9. MRL	11413	40070	28313	67765	126675	8770	4537	3000	2397	39.8	16.0	12.9
10. IBP Co. Ltd.	736	14309	8438	14029	178715	3038	1426	0	177	193.8	16.9	21.7
11. Lubrizol	960	2874	5835	8282	29315	2701	1258	960	442	131.0	21.6	32.6
12. IOBL	40	687	1258	1705	2118	923	356	430	72	890.0	28.3	54.1
C. PETROCHEMICALS												
13. BRPL	19982	4890	36213	36347	46668	6845	3598	2920	999	18.0	9.9	18.8
D. ENGINEERING UNITS	1600	15527	13064	24006	44734	5850	2770	1750	413	173.1	21.2	24.4
14. EIL	100	275	11458	11726	9870	3484	2068	1350	100	2068.0	18.0	29.7
15. Balmer lawrie	1303	9815	6462	11792	33505	2444	873	400	313	67.0	13.5	20.7
16. Biecco Lawrie	197	5437	-4856	488	1359	-78	-171	-	-	-86.8	3.5	-16.0
TOTAL (A+B+C)	**189952**	**1648756**	**1826670**	**2212559**	**4845974**	**288110**	**181272**	**74839**	**20050**	**95.4**	**9.9**	**13.0**

Source: 1. Annual Reports of the Companies & data supplied by them. 2. Adjusted/gross Profit & Net Profits are as defined in the glossary of terms.

CONSOLIDATED FINANCIAL STRUCTURE 1990-91
ALL CATEGORIES

TABLE NO. 1

	ITEM	Exploration and Production	Refining and Marketing	Petro-chemi-cals.	Engineering & other Serv. Units	Total
1.	Authorised Capital	110000	54540	20000	1950	186490
2.	i) Paid-up Capital	124617	43754	19982	1600	189953
	ii) Preference Capital	0	0	0	0	0
	iii) Reserves & Surpluses	1191026	524326	13645	13448	1742445
3.	i) Total loans	790411	836401	3579	12454	1642845
	ii) of which foreign	613544	711916	228	0	1325688
4.	Cash credits/advances from banks/others	4847	30096	973	3638	39555
5.	Net worth	1243246	567619	33602	10198	1854665
6.	i) Gross Block	1900261	677735	40529	9744	2628270
	ii) Less Depreciation	965271	383607	18418	3580	1370877
	iii) Net fixed assets	934990	294129	22111	6162	1257392
	iv) Working Capital	387975	304560	13119	12466	718120
	v) Capital Eml(iii+iv	1322965	598689	35230	18628	1975512
7.	i) Sales	993146	3535503	41462	34872	4604983
	ii) Other income	8035	96638	643	1582	106898
	TOTAL	1001181	3632141	42105	36454	4711881
8.	i) Total emoluments (incl.perks)	432220	45783	1297	5590	484890
	ii) of which bonus	1932	3340	36	120	5428
	iii) Average Emol. per person	0.69	0.64	0.73	0.66	0.68
9.	Inventories	155193	412050	10980	4148	582370
10.	Gross profit					
	a) Gross Profit before intt. & Tax	135143	172406	5316	3586	316451
	b) Adjusted gross profit	96701	134277	4700	1942	237620
11.	Net Profit					
	a) Net Profit after intt. & taxes	114097	110925	4850	1381	231253
	b) Adjusted net profit	79371	76510	4234	93	160208
12.	Dividends declared	6619	9210	999	312	17140
13.	Corporate Tax	10276	43083	0	1075	54434
14.	% age of					
	a) NP to paid-up capital	91.56	253.52	24.27	86.34	121.74
	Adj. NP to paid-up capital	63.69	174.86	21.19	5.81	84.34
	b) NP to Net Worth	9.18	19.54	14.43	13.54	12.47
	Adj. NP to Net Worth	6.38	13.48	12.60	0.91	8.64
	c) GP to capital emp.	10.22	28.80	15.09	19.25	16.02
	Adj. GP to capital emp.	7.31	22.43	13.34	10.43	12.03
	d) Sales to Capital Employed	75.07	590.54	117.69	187.20	233.10
	e) GP to Sales	13.61	4.88	12.82	10.28	6.87
	Adj. GP to Sales	9.74	3.80	11.34	5.57	5.16
	f) Paid-up Capital/Loans Ratio	0.2	0.1	5.6	0.1	0.1

SOURCE: 1. Annual Reports of the Companies & data supplied by them.

2. There is no authorised Capital respect of ONGC in exploration and production category.

3. Adjusted/Gross Profits & Net Profits are as defined in the glossary of terms.

TABLE NO. 2

CONSOLIDATED FINANCIAL STRUCTURE 1989-90
ALL CATEGORIES

ITEM	EXPLORATION & PRODUCTION.	REFINING MARKETING.	PETRO-CHEMICALS.	ENGINEERING &OTHER SERVICING UNITS	TOTAL
(1)	(2)	(3)	(4)	(5)	(6)
1. Authorised Capital	108000	52540	20000	1950	184490
2. i) Paid-up Capital	124117	43751	19982	1166	189016
ii) Preference Capital		50			
iii) Reserve & Surpluses	1085012	422605	9794	12565	1529976
3. i) Total loans	685707	664461	4897	10429	1365494
ii Of which Foreign	514991	518073	305		1033369
4. Cash credits/advances from banks/others	6527	61927	401	2210	71065
5. Net worth	1150307	465886	29712	9158	1655063
i) Gross Block	1577325	599550	40121	9131	2226127
ii) Less Depreciation	792509	337448	15387	3069	1148413
iii) Net fixed assets	784816	262102	24734	6062	1077714
iv) Working Capital	275059	224869	8563	10253	518744
v) Capital Empl (iii+iv)	1059875	486971	33297	16315	1596458
7. i) Sales	937206	3225810	40284	29205	4232505
ii) Other income	8592	43349	104	1446	53491
TOTAL	945798	3269159	40388	30651	4285996
8. i) Total Emoluments (incl. perks)	41619	37573	1102	5483	85777
ii) of which bonus	1866	3060	16	132	5074
iii) Average Emoluments per person p.a.	0.73	0.63	0.61	0.72	0.68
9. Inventories	139031	318544	10632	3907	472114
10. Gross Profit					
a) Gross Prifit before Interest & Tax (Actual)	233605	192323	4406	2663	432997
b) Adjusted Gross Profit	259528	134365	4399	1242	399534
11. Net Profit					
a) Net Profit after tax & Interest (Actual)	173873	113158	2899	379	290309
b) NP to Net Worth	199796	55200	2892	-1041	256847
12. Dividends declared	5906	8854	799	126	15685
13. Corporate Tax	43360	31095	600	1393	76448
% age of					
a) NP to Paid-up Capital	140.1	258.6	14.5	32.5	153.6
Adjusted NP to paid-up Cap.	161.0	126.2	14.5	-89.3	135.9
b) NP to Net Worth	15.1	24.3	9.8	4.1	17.5
Adjusted NP to Net Worth.	17.4	11.8	9.7	-11.4	15.5
c) GP to Capital Employed	22.0	39.5	13.2	16.3	27.1
Adjusted Gp to cap.emply.	24.5	27.6	13.2	7.6	25.0
d) Sales to Cap. Emply.	88.4	662.4	121.0	179.0	265.1
e) GP to Sales	24.9	6.0	10.9	9.1	10.2
Adjusted GP to Sales	27.7	4.2	10.9	4.3	9.4
f) Paid-up Cap/Loan Ratio	0.18	0.07	4.08	0.11	0.14

Source : 1. Annual Reports of the Companies & data supplied by them.
2. There is no authorised Capital in respect of ONGC in exploration and production category.
3. Ajusted/Gross Profit & Net Profits are as defined in the glossary of terms.

TABLE NO. 3

CONSOLIDATED FINANCIAL STRUCTURE. 1988-89

	ITEM	EXPLORATION & PRODUCTION.	REFINING MARKETING.	PETRO-CHEMICALS.	ENGINEERING &OTHER SERVICING UNITS	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)
1.	Authorised Capital	108000	52540	20000	1250	181790
2.	i) Paid-up Capital	124117	40647	19982	679	185425
	ii) Preference Capital	--	50	--	--	50
	iii) Reserve & Surpluses	935091	319583	7694	9978	1272346
3.	i) Total Loans	549326	315745	8313	5728	879112
	ii) Of which Foreign	395379	193341	368	--	589088
4.	Cash Credits/Advances from Banks/Others	--	27946	2343	2288	32577
5.	Net Worth	1023096	359259	27563	6530	1416448
6.	i) Gross Block	1423544	517696	38822	8371	1988433
	ii) Less Depreciation	648447	290306	12365	2519	953637
	iii) Net Fixed Assets	775097	227390	26457	5852	1034796
	iv) Working Capital	232061	380519	9943	8060	630583
	v) Capital Empl(iii+iv)	1007158	607909	36400	13912	1665379
7.	i) Sales	768722	2895228	33856	27515	3725321
	ii) Other Income	15215	29028	135	474	44852
	Total	783937	2924256	33991	27989	3770173
8.	i) Total Emoluments (incl. perks)	30306	31699	815	4795	67615
	ii) Of which Bonus	2049	2744	21	114	4928
	iii) Average Emolument per person p.a.	0.56	0.53	0.46	0.54	0.54
9.	Inventories	126430	318108	11499	3705	459742
10.	Gross Profit					
	a) Gross Profit before Interest & Tax (Actual)	226926	140982	3839	2353	374100
	b) Adjusted Gross Profit	251318	141256	3848	2375	398797
11.	Net Profit					
	a) Net Profit after Tax & Interest (Actual)	163867	90777	2192	236	257072
	b) Adjusted Net Profit	160170	91051	2202	258	253681
12.	Dividends Declared	5563	6412	599	113	12687
13.	Corporate Tax	51049	23949	430	982	76410
	% age of :-					
a)	N.P./Adjusted NP to Paid-up capital	132.0/129.8	223.0/223.7	10.9	34.8/38.0	138.6/136.8
b)	N.P./Adjusted N.P. to Net Worth	16.0/15.6	25.2	8.0	3.6/4.0	18.1/17.9
c)	GP/Adjusted GP to Capital Emp.	23.5/24.9	27.2	10.8	16.9	22.4/23.9
d)	Sales to Capital Emp.	76.3	476.3	93.0	97.8	223.7
e)	G.P./Adjusted GP to Sales	29.5	4.9	11.3	8.6	10.0/10.7
f)	Paid-up Capital/Loans Ratio	0.23	0.12	2.6	0.11	0.21

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

TABLE NO. 4

CONSOLIDATED FINANCIAL STRUCTURE OF EXPLORATION & PRODUCTION

(Rs./Lakhs)

ITEM (1)	1988-89 (2)	1989-90 (3)	1990-91 (4)
1. Authorised Capital	108000	108000	110000
2. i) Paid-up Capital	124117	124117	124617
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluses	935091	1085012	1191026
3. i) Total Loans	549326	685707	790411
ii) Of which Foreign	395379	514991	613544
4. Cash Credits/Advances from Banks/Others	NIL	6527	4847
5. Net Worth	1023096	1150307	1243246
i) Gross	1423544	1577325	1900261
ii) Less Depreciation	648447	792509	965271
iii) Net Fixed Assets	775097	784816	934990
iv) Working Capital	232061	275059	3879--
v) Capital Empl. (iii+iv)	1007158	1059875	1322965
7. i) Sales	768722	937206	993146
ii) Other Income	15215	8592	8035
Total	783937	945798	1001181
8. i) Total Emoluments (incl. perks)	30306	41619	432220
ii) Of which Bonus	2049	1866	1932
iii) Average Emoluments per person p.a.	0.56	0.73	0.69
9. Inventories	126430	139031	155193
10. Gross Profit			
a) Gross Profit before Interest & Tax (Actual)	226926	233605	135143
b) Adjusted Gross Profit	251318	259528	96701
11. Net Profit			
a) Net profit after Tax & Interest (Actual)	163867	173873	114097
b) Adjusted Net Profit	160170	199796	79371
12. Dividends Declared	5563	5906	6619
13. Corporate Tax	51049	43360	10276
% age of:			
a) N.P./Adjusted NP to paidup Capital	132.0/129.8	140.1/161.0	91.56/63.69
b) N.P./Adjusted N.P.to Net Worth	16.0/15.7	15.1/17.4	9.18/6.38
c) GP/Adjusted GP to Capital Emp.	23.5/24.9	22.0/24.5	10.22/7.31
d) Sales to Capital Emp.	76.3	88.4	75.07
e) G.P./Adjusted GP to Sales	29.5	24.9/27.7	13.61/9.74
f) Paid-up Capital/Loan Ratio.	0.23	0.18	0.2

Source: 1. Data as submitted by ONGC & annual reports of the companies.
2. There is no authorised Capital in respect of ONGC.
3. Adjusted/Gross Profits & Net Profits are as defined in the glossary of terms.

TABLE NO. 5

FINANCIAL STRUCTURE

NAME OF THE COMPANY : OIL & NATRUAL GAS COMMISSION

(Rs./Lakhs)

ITEM	1988-89	1989-90	1990-91
(1)	(2)	(3)	(4)
1. Authorised Capital	There is no authorised capital in respect of ONGC.		
2. i) Paid-up Capital	34285	34285	34285
ii) Preference Capital	-NIL-	-NIL-	-NIL-
iii) Reserve & Surpluses	863280	1020955	1120423
3. i) Total Loans	465709	577280	673053
ii) Of which Foreign	372811	481354	576694
4. Cash Credits/Advances from Banks/Others	NIL	6527	39
5. Net Worth	890617	1016639	1105213
6. i) Gross Block	1241400	1344351	1622882
ii) Less Depreciation	577152	701765	851547
iii) Net Fixed Assets	664248	642586	771335
iv) Working Capital	204755	251258	351733
v) Capital Empl. (iii+iv)	869003	893844	1123068
7. i) Sales	684316	807809	847742
ii) Other Income	12922	5464	248
Total	697238	813273	847990
8. i) Total Emoluments (incl. perks)	26341	36229	426554
ii) Of which Bonus	1665	1965	1930
iii) Average Emoluments per person p.a.	0.58	0.77	0.88
9. Inventories	115764	121666	135474
10. a) Gross Profit before interest & Tax	217144	211788	109971
b) Adjusted Gross Profit	241531	241986	79617
11. a) Net Profit after Interest & Tax	160158	162384	104830
b) Adjusted Net Profit After Interest & Tax	156456	192582	74476
12. Dividends Declared	5143	5486	6171
13. Corporate Tax.	49300	39700	5141
% age of:			
a) N.P./Adjusted NP to paid-up Capital	467.1/456.3	473.6/561.7	305.8/217.2
b) N.P./Adjusted N.P. to Net Worth	18.0/17.6	16.0/18.9	9.49/6.7
c) GP/Adjusted GP to Capital Emp.	28.2/27.8	23.7/27.1	9.79/7.1
d) Sales to Capital Emp.	78.7	90.4	75.5
e) G.P./Adjusted GP to Sales	35.8/35.3	26.2/30.0	13.0/9.4
f) Paid-up Capital/Loan Ratio.	0.67	0.06	0.05

Source: 1. Data as supplied by the Company.
2. Ajusted/Gross & Net Profits are as defined in the glossary of terms.

TABLE NO. 6

FINANCIAL STRUCTURE

NAME OF THE COMPANY : ONGC'S VIDESH LIMITED

(Rs./Lakhs)

ITEM	1988-89	1989-90	1990-91
(1)	(2)	(3)	(4)
1. Authorised Capital	3000	3000	5000
2. i) Paid-up Capital	2500	2500	3000
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	3337	3735	3918
3. i) Total Loans	-NIL-	-NIL-	2375
ii) Of which Foreign	-NIL-	-NIL-	-NIL-
4. Cash Credits/Advances from Banks/Others	-NIL-	-NIL-	-NIL-
5. Net Worth	5718	5274	3306
6. i) Gross Block	6	17	18
ii) Less Depreciation	2	3	4
iii) Net Fixed Assets	4	14	14
iv) Working Capital	2771	2291	1111
v) Capital Empl. (iii+iv	2775	2305	1125
7. i) Sales	--	--	--
ii) Other Income i.e.int.earned	532	538	543
Total	532	538	543
8. i) Total Emoluments (incl. perks)	15	24	31
ii) Of which Bonus	2	1	2
iii) Average Emoluments	0.72	0.89	0.72
9. Inventories	-NIL-	-NIL-	481
10. Gross Profit			
a) Gross Profit before Interest & Tax	492	447	454
b) Adjusted Gross Profit	--	447	454
11. Net Profit			
a) Net Profit after Tax & Interest	342	297	183
b) Adjusted net Profit	--	297	266
12. Dividends Declared	-NIL-	-NIL-	-NIL-
13. Corporate Tax.	150	150	266
% age of:			
a) N.P./Adjusted NP to paidup Capital	13.7	11.9	6.1/8.9
b) N.P./Adjusted N.P. to Net Worth	6.0	5.6	5.5/8.1
c) GP/Adjusted GP to Capital Emp.	17.7	19.4	40.4/40.4
d) Sales to Capital Emp.	-NIL-	--	0.00
e) G.P./Adjusted GP to Sales	-NIL-	--	NIL
f) Paid-up Capital/Loan Ratio.	-NIL-	--	1.26

Source : 1. Annual Reports of the Company.
2. Adjusted/Gross Profits & Net Profits are as defined in the glossary of terms.

TABLE NO. 7

FINANCIAL STRUCTURE

(Rs.Lakhs)

NAME OF THE COMPANY : OIL INDIA LIMITED

	ITEM	1988-89	1989-90	1990-91
	(1)	(2)	(3)	(4)
1.	Authorised Capital	5000	5000	5000
2.	i) Paid-up Capital	2800	2800	2800
	ii) Preference Capital	--	--	--
	iii) Reserve & Surpluses	52044	60322	66685
3.	i) Total Loans	8263	22047	30889
	ii) Of which Foreign	4857	16251	17157
4.	Cash Credits/Advances from Banks/Others	--	--	4808
5.	Net Worth	54844	53976	58028
6.	i) Gross Block	69209	75467	83389
	ii) Less Depreciation	51939	57632	63349
	iii) Net Fixed Assets	17270	17835	20040
	iv) Working Capital	24588	26476	44791
	v) Capital Empl. (iii+iv)	41858	44311	64831
7.	i) Sales	51667	64343	66303
	ii) Others Income	1755	2268	6119
	Total	53422	66611	72422
8.	i) Total Emoluments (incl. perks)	3759	4912	4979
	ii) Of which Bonus	382	--	--
	iii) Average Emoluments per person p.a.	0.43	0.55	0.55
9.	Inventories	9946	11751	14736
10.	Gross Profit			
	a) Gross Profit before Tax & Intt. (Actual)	10701	14105	15313
	b) Adjusted Gross Profit	10706	10268	8097
11.	Net Profit			
	a) Net Profit after Tax & Intt. (actual)	8656	8698	6811
	b) Adjusted Net Profit	8661	4861	3228
12.	Dividends Declared	420	420	448
13.	Corporate Tax.	1599	3510	4869
	% age of:			
a)	N.P./Adjusted NP to Paid-up Capital	309.1	310.6/173.6	243.25/115.29
b)	N.P./Adjusted N.P.to Net Worth	15.8	16.1/9.0	11.74/5.56
c)	GP/Adjusted GP to Capital Emp.	25.6	31.8/23.2	23.62/12.49
d)	Sales to Capital Emp.	123.4	145.2	102.27
e)	G.P./Adjusted GP to Sales	20.7	21.9/16.0	23.10/12.21
f)	Paid-up Capital/Loan Ratio.	0.33	0.13	0.09

Source: 1. Annual Reports of the Company.
2. Adjusted/Gross Profits & Net Profits are as defined in the glossary of terms.

TABLE NO. 8

FINANCIAL STRUCTURE

(Rs.Lakhs)

NAME OF THE COMPANY : GAS AUTHORITY OF INDIA LTD.

ITEM	1988-89	1989-90	1990-91
(1)	(2)	(3)	(4)
1. Authorised Capital	100000	100000	100000
2. i) Paid-up Capital	84532	84532	84532
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	16430	--	--
3. i) Total Loans	75354	86380	84093
ii) Of which Foreign	17711	17386	19693
4. Cash Credits/Advances from Banks/Others	--	--	--
5. Net Worth	71917	74418	76699
6. i) Gross Block	112929	157490	193972
ii) Less Depreciation	19354	33109	50371
iii) Net Fixed Assets	93575	124381	143601
iv) Working Capital	-53	-4966	-9660
v) Capital Empl. (iii+iv)	93522	119415	133941
7. i) Sales	32739	65054	79101
ii) Others Income	6	322	1125
Total	32745	65376	80226
8. i) Total Emoluments (incl. perks)	121	454	656
ii) Of which Bonus	--	--	--
iii) Average Emoluments per person p.a.	0.49	0.48	0.61
9. Inventories	720	5614	4502
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	-1411	7265	9405
b) Adjusted Gross Profit	--	6827	8533
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	-5289	2494	2273
b) Adjusted Net Profit	--	2056	1401
12. Dividends Declared	--	--	--
13. Corporate Tax.	--	--	--
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	Neg.	3.0/2.4	2.69/1.66
b) N.P./Adjusted N.P.to Net Worth	Neg.	3.4/2.8	2.96/1.83
c) GP/Adjusted GP to Capital Emp.	Neg.	6.1/5.8	7.02/6.37
d) Sales to Capital Emp.	35.0	54.5	59.06
e) G.P./Adjusted GP to Sales	Neg.	11.2/10.5	11.89/10.79
f) Paid-up Capital/Loan Ratio.	1.12	0.98	1.01

Source: 1. Annual Report of the Company.
2. Gross & net profit are as given in the published Accounts.

TABLE NO. 9

CONSOLIDATED FINANCIAL STRUCTURE
REFINING AND MARKETING

(Rs.Lakhs)

ITEM	1988-89	1989-90	1990-91
(1)	(2)	(3)	(4)
1. Authorised Capital	52540	54540	54540
2. i) Paid-up Capital	40647	43751	43754
ii) Preference Capital	50	50	0
iii) Reserve & Surpluses	319583	422605	524326
3. i) Total Loans	315745	664461	836401
ii) Of which Foreign	193341	518073	711916
4. Cash Credits/Advances from Banks/Others	27946	61927	30096
5. Net Worth	359259	465886	567619
6. i) Gross Block	517696	599550	677735
ii) Less Depreciation	290306	337448	383607
iii) Net Fixed Assets	227390	262102	294129
iv) Working Capital	380519	224869	304560
v) Capital Empl. (iii+iv)	607909	486971	598689
7. i) Sales	2895228	3225810	3535503
ii) Others Income	29028	43349	96638
Total	2924256	3269159	3632141
8. i) Total Emoluments (incl. perks)	31699	37573	45783
ii) Of which Bonus	2744	3060	3340
iii) Average Emoluments per person p.a.	0.53	0.63	0.64
9. Inventories	318108	318544	412050
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	140982	192323	172406
b) Adjusted Gross Profit	141256	134365	134277
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	90777	113158	110925
b) Adjusted Net Profit	91051	55200	76510
12. Dividends Declared	6419	8854	9210
13. Corporate Tax.	23949	31095	43083
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	223.0/223.7	258.6/126.2	253.52/174.86
b) N.P./Adjusted N.P.to Net Worth	25.3	24.3/11.8	19.54/13.48
c) GP/Adjusted GP to Capital Emp.	23.2	39.5/27.6	28.80/22.43
d) Sales to Capital Emp.	476.3	662.4	590.54
e) G.P./Adjusted GP to Sales	4.9	6.0/4.2	4.88/3.80
f) Paid-up Capital/Loan Ratio.	0.12	0.07	0.1

Source: 1. Annual Report of the Company.
2. Adjusted/Gross & Net Profits are as defined in the glossary of terms.

TABLE NO. 10

FINANCIAL STRUCTURE

(Rs.Lakhs)

NAME OF THE COMPANY : INDIAN OIL CORPORATION LTD.

	ITEM	1988-89	1989-90	1990-91
	(1)	(2)	(3)	(4)
1.	Authorised Capital	15000	15000	15000
2.	i) Paid-up Capital	12327	12327	12327
	ii) Preference Capital	--	--	--
	iii) Reserve & Surpluses	210060	275049	345341
3.	i) Total Loans	196917	544114	712769
	ii) Of which Foreign	189990	514227	707873
4.	Cash Credits/Advances from Banks/Others	11771	28951	4166
5.	Net Worth	222387	287376	357668
6.	i) Gross Block	248585	281936	314999
	ii) Less Depreciation	163324	185238	205876
	iii) Net Fixed Assets	85261	96698	109123
	iv) Working Capital	315003	159925	244076
	v) Capital Empl. (iii+iv)	400264	256623	353199
7.	i) Sales	1515074	1747660	1952968
	ii) Others Income	23550	36904	87369
	Total	1538624	1784564	2040337
8.	i) Total Emoluments (incl. perks)	18591	21417	24462
	ii) Of which Bonus	1763	1976	2253
	iii) Average Emoluments per person p.a.	0.56	0.64	0.74
9.	Inventories	191465	176746	225445
10.	Gross Profit			
	a) Gross Profit before Tax & Intt. (Actual)	81947	121205	97295
	b) Adjusted Gross Profit	82124	69375	67873
11.	Net Profit			
	a) Net Profit after Tax & Intt. (actual)	51433	67454	73004
	b) Adjusted Net Profit	51610	15624	43582
12.	Dividends Declared	2465	2465	2712
13.	Corporate Tax.	16208	16528	17701
	% age of:			
a)	N.P./Adjusted NP to Paid-up Capital	417.2/418.6	547.2/126.7	592.23/353.55
b)	N.P./Adjusted N.P.to Net Worth	23.1	23.5/5.4	20.41/12.2
c)	GP/Adjusted GP to Capital Emp.	20.4	47.2/27.0	27.55/19.22
d)	Sales to Capital Emp.	378.5	681.0	552.94
e)	G.P./Adjusted GP to Sales	5.4	6.9/4.0	4.98/3.48
f)	Paid-up Capital/Loan Ratio.	0.06	0.02	0.02

Source: 1. Annual Report of the Company.
2. GP/Adjusted Gross Profit & Net Profits are as defined in the glossary of terms.

TABLE NO. 11

FINANCIAL STRUCTURE

(Rs.Lakhs)

NAME OF THE COMPANY : BHARAT PETROLEUM CORNN. LTD.

ITEM	1988-89	1989-90	1990-91
(1)	(2)	(3)	(4)
1. Authorised Capital	5000	5000	5000
2. i) Paid-up Capital	2785	5000	5000
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	40578	49621	61401
3. i) Total Loans	47770	32149	34392
ii) Of which Foreign	--	756	760
4. Cash Credits/Advances from Banks/Others	7714	8573	11547
5. Net Worth	43364	54621	66401
6. i) Gross Block	95539	111873	126630
ii) Less Depreciation	43916	53726	62938
iii) Net Fixed Assets	51623	58147	63692
iv) Working Capital	22807	7618	8223
v) Capital Empl. (iii+iv)	74430	65765	71915
7. i) Sales	434868	488169	528306
ii) Others Income	2134	2386	3242
Total	437002	490555	531548
8. i) Total Emoluments (incl. perks)	6140	6274	7593
ii) Of which Bonus	525	576	575
iii) Average Emoluments per person p.a.	0.58	0.60	0.69
9. Inventories	30423	35977	50980
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	16253	19804	25277
b) Adjusted Gross Profit	16361	17929	23576
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	10909	12257	12781
b) Adjusted Net Profit	10918	10382	14742
12. Dividends Declared	557	1000	1000
13. Corporate Tax.	2100	4400	8774
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	391.7/392.0	245.1/207.6	255.61/294.84
b) N.P./Adjusted N.P.to Net Worth	25.1	22.4/19.0	19.25/22.20
c) GP/Adjusted GP to Capital Emp.	22.0	30.1/27.3	35.15/32.78
d) Sales to Capital Emp.	584.3	742.3	734.63
e) G.P./Adjusted GP to Sales	3.8	4.1/3.7	4.78
f) Paid-up Capital/Loan Ratio.	0.05	0.16	0.15

Source: 1. Annual Report of the Company.
2. Adjusted/Gross & Net profit are as defined in the glossary of terms.

TABLE NO. 12

FINANCIAL STRUCTURE

(Rs.Lakhs)

NAME OF THE COMPANY : HINDUSTAN PETROLEUM CORPORATION LTD.

ITEM	1988-89	1989-90	1990-91
(1)	(2)	(3)	(4)
1. Authorised Capital	10000	10000	10000
2. i) Paid-up Capital	6384	6384	6384
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	43206	61955	72691
3. i) Total Loans	40344	48930	43278
ii) Of which Foreign	--	--	472
4. Cash Credits/Advances from Banks/Others	5294	18160	10166
5. Net Worth	48770	68339	79075
6. i) Gross Block	107583	127319	142513
ii) Less Depreciation	53296	64140	74715
iii) Net Fixed Assets	54287	63179	67798
iv) Working Capital	18350	26472	20851
v) Capital Empl. (iii+iv)	72637	89651	88649
7. i) Sales	586678	604818	628313
ii) Others Income	1487	1957	3694
Total	588165	606775	632008
8. i) Total Emoluments (incl. perks)	4038	5952	9496
ii) Of which Bonus	251	255	221
iii) Average Emoluments per person p.a.	0.44	0.62	0.95
9. Inventories	55799	59091	69920
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	25854	29579	25423
b) Adjusted Gross Profit	25904	27917	21630
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	17390	20026	12014
b) Adjusted Net Profit	17440	18364	8221
12. Dividends Declared	894	1277	1277
13. Corporate Tax.	3267	4714	8115
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	272.4/273.2	313.7/287.7	188.19/128.78
b) N.P./Adjusted N.P.to Net Worth	35.6/35.8	29.3/26.9	15.19/10.40
c) GP/Adjusted GP to Capital Emp.	35.6	33.0/31.1	28.68/24.40
d) Sales to Capital Emp.	807.7	674.6	708.76
e) G.P./Adjusted GP to Sales	4.4	4.9/4.6	4.05/3.44
f) Paid-up Capital/Loan Ratio.	0.15	0.13	0.15

Source: 1. Annual Report of the Company.
2. Adjusted/Gross Profit & Net Profit are as defined in the glossary of terms.

TABLE NO. 13

FINANCIAL STRUCTURE

(Rs.Lakhs)

NAME OF THE COMPANY : COCHIN REFINERIES LIMITED.

ITEM (1)	1988-89 (2)	1989-90 (3)	1990-91 (4)
1. Authorised Capital	7500	7500	7500
2. i) Paid-up Capital	6848	6891	6894
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	8215	13651	18288
3. i) Total Loans	12588	14256	12370
ii) Of which Foreign	3351	3090	2812
4. Cash Credits/Advances from Banks/Others	749	2259	764
5. Net Worth	15062	20542	25182
6. i) Gross Block	23319	31517	39469
ii) Less Depreciation	10438	11698	13542
iii) Net Fixed Assets	12881	19819	25927
iv) Working Capital	6441	10123	8775
v) Capital Empl. (iii+iv)	19322	29942	34702
7. i) Sales	116416	133707	148864
ii) Others Income	318	69	120
Total	116734	133776	148984
8. i) Total Emoluments (incl. perks)	579	639	758
ii) Of which Bonus	27	31	39
iii) Average Emoluments per person p.a.	0.54	0.56	0.68
9. Inventories	9060	9611	13387
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	6202	8968	9945
b) Adjusted Gross Profit	6207	8475	8901
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	4156	6876	6084
b) Adjusted Net Profit	4161	6383	5040
12. Dividends Declared	180	1441	1447
13. Corporate Tax.	680	1350	3600
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	60.7	99.8/92.6	88.25/73.11
b) N.P./Adjusted N.P.to Net Worth	27.6	33.5/31.1	24.16/20.01
c) GP/Adjusted GP to Capital Emp.	32.1	30.0/28.3	28.66/25.65
d) Sales to Capital Emp.	602.5	446.6	428.98
e) G.P./Adjusted GP to Sales	5.3	6.7/6.3	6.68/5.98
f) Paid-up Capital/Loan Ratio.	0.54	0.48	0.56

Source: 1. Annual Report of the Company.
2. Adjusted/Gross Profit & Net Profit are as defined in the glossary of terms.

TABLE NO. 14

FINANCIAL STRUCTURE

(Rs.Lakhs)

NAME OF THE COMPANY : MADRAS REFINERIES LIMITED.

ITEM	1988-89	1989-90	1990-91
(1)	(2)	(3)	(4)
1. Authorised Capital	13500	13500	13500
2. i) Paid-up Capital	11399	11413	11413
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	9876	12503	15162
3. i) Total Loans	16915	18913	23374
ii) Of which Foreign	--	--	--
4. Cash Credits/Advances from Banks/Others	--	--	1124
5. Net Worth	21249	23396	26113
6. i) Gross Block	34887	37570	40708
ii) Less Depreciation	16287	19162	22281
iii) Net Fixed Assets	18600	18408	18427
iv) Working Capital	13814	15205	16475
v) Capital Empl. (iii+iv)	32414	33613	34902
7. i) Sales	133028	132298	164788
ii) Others Income	913	1266	1041
Total	133941	133564	165829
8. i) Total Emoluments (incl. perks)	518	1027	939
ii) Of which Bonus	53	102	88
iii) Average Emoluments per person p.a.	0.43	0.79	0.68
9. Inventories	27583	31348	43223
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	7884	10251	10787
b) Adjusted Gross Profit	7900	8982	9810
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	5128	5023	5055
b) Adjusted Net Profit	5144	3754	4078
12. Dividends Declared	2085	2396	2397
13. Corporate Tax.	976	3469	4040
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	44.9/45.1	44.0/32.9	44.29/35.73
b) N.P./Adjusted N.P.to Net Worth	24.1	21.5/16.0	19.36/15.62
c) GP/Adjusted GP to Capital Emp.	24.3	30.5/26.7	30.91/28.11
d) Sales to Capital Emp.	410.4	393.6	472.14
e) G.P./Adjusted GP to Sales	5.9	7.7/6.8	6.55/5.95
f) Paid-up Capital/Loan Ratio.	0.67	0.6	0.49

Source: 1. Annual Reports of the Company.
2. Adjusted/Gross Profit & Net Profit are as defined in the glossary of terms.

TABLE NO. 15

FINANCIAL STRUCTURE

(Rs.Lakhs)

NAME OF THE COMPANY : IBP CO. LIMITED

	ITEM	1988-89	1989-90	1990-91
	(1)	(2)	(3)	(4)
1.	Authorised Capital	500	2500	2500
2.	i) Paid-up Capital	384	736	736
	ii) Preference Capital	50	50	--
	iii) Reserve & Surpluses	3936	5836	6452
3.	i) Total Loans	28	3350	6472
	ii) Of which Foreign	--	--	--
4.	Cash Credits/Advances from Banks/Others	1288	3272	1474
5.	Net Worth	4195	6622	7188
6.	i) Gross Block	4056	5343	7084
	ii) Less Depreciation	1416	1645	2059
	iii) Net Fixed Assets	2640	3698	5025
	iv) Working Capital	548	2156	2321
	v) Capital Empl. (iii+iv)	3188	5854	7346
7.	i) Sales	92302	99553	90383
	ii) Others Income	525	532	962
	Total	92827	100085	91345
8.	i) Total Emoluments (incl. perks)	1090	1233	1559
	ii) Of which Bonus	70	73	152
	iii) Average Emoluments per person p.a.	0.54	0.56	0.64
9.	Inventories	1102	2258	4227
10.	Gross Profit			
	a) Gross Profit before Tax & Intt. (Actual)	1273	850	1386
	b) Adjusted Gross Profit	1288	236	690
11.	Net Profit			
	a) Net Profit after Tax & Intt. (actual)	889	601	772
	b) Adjusted Net Profit	904	-13	76
12.	Dividends Declared	90	113	162
13.	Corporate Tax.	270	117	160
	% age of:			
a)	N.P./Adjusted NP to Paid-up Capital	204.8/208.3	81.7/-1.8	104.89/10.33
b)	N.P./Adjusted N.P.to Net Worth	21.2/21.5	9.1/-0.2	10.74/1.06
c)	GP/Adjusted GP to Capital Emp.	39.9/40.4	14.5/4.0	18.87/9.39
d)	Sales to Capital Emp.	2895.3	1700.6	1230.37
e)	G.P./Adjusted GP to Sales	1.4	0.9/0.2	1.53/0.76
f)	Paid-up Capital/Loan Ratio.	15.5	0.22	0.11

Source: 1. Annual Report of the Company.
2. Adjusted/Gross Profit & net Profit are as defined in the glossary of terms.

TABLE NO. 16

FINANCIAL STRUCTURE

(Rs.Lakhs)

NAME OF THE COMPANY : LUBRIZOL INDIA LIMITED

ITEM	1988-89	1989-90	1990-91
(1)	(2)	(3)	(4)
1. Authorised Capital	1000	1000	1000
2. i) Paid-up Capital	480	960	960
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	3252	3414	4059
3. i) Total Loans	507	1887	2791
ii) Of which Foreign	--	--	--
4. Cash Credits/Advances from Banks/Others	1130	712	855
5. Net Worth	3732	4374	5019
6. i) Gross Block	2896	3110	4283
ii) Less Depreciation	1177	1334	1564
iii) Net Fixed Assets	1719	1776	2719
iv) Working Capital	3229	3372	3625
v) Capital Empl. (iii+iv)	4948	5148	6344
7. i) Sales	16116	18684	20747
ii) Others Income	86	170	145
Total	16202	18854	20892
8. i) Total Emoluments (incl. perks)	369	531	433
ii) Of which Bonus	15	12	12
iii) Average Emoluments per person p.a.	0.69	0.95	0.74
9. Inventories	2653	3446	4796
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	1315	1452	1734
b) Adjusted Gross Profit	1315	1289	1594
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	769	801	856
b) Adjusted Net Profit	769	638	754
12. Dividends Declared	144	158	211
13. Corporate Tax.	408	437	544
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	160.2	83.4/66.5	89.13/78.54
b) N.P./Adjusted N.P.to Net Worth	20.6	18.3/14.6	17.05/15.02
c) GP/Adjusted GP to Capital Emp.	26.6	28.2/25.0	27.34/25.13
d) Sales to Capital Emp.	325.7	362.9	327.03
e) G.P./Adjusted GP to Sales	8.2	7.8/6.9	8.36/7.68
f) Paid-up Capital/Loan Ratio.	0.94	0.51	0.34

Source: 1. Annual Report of the Company.
2. Adjusted/Gross Profit & net Profit are as defined in glossary of terms.

TABLE NO. 17

FINANCIAL STRUCTURE

(Rs.Lakhs)

NAME OF THE COMPANY : INDIAN OIL BLENDING LIMITED

ITEM	1988-89	1989-90	1990-91
(1)	(2)	(3)	(4)
1. Authorised Capital	40	40	40
2. i) Paid-up Capital	40	40	40
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	460	576	932
3. i) Total Loans	676	862	955
ii) Of which Foreign	--	--	--
4. Cash Credits/Advances from Banks/Others	--	--	--
5. Net Worth	500	616	972
6. i) Gross Block	831	882	2049
ii) Less Depreciation	452	505	632
iii) Net Fixed Assets	379	377	1418
iv) Working Capital	327	-2	214
v) Capital Empl. (iii+iv)	706	375	1632
7. i) Sales	746	921	1134
ii) Others Income	15	65	65
Total	761	986	1199
8. i) Total Emoluments (incl. perks)	374	500	543
ii) Of which Bonus	40	35	--
iii) Average Emoluments per person p.a.	0.49	0.75	0.00
9. Inventories	23	67	72
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	155	214	559
b) Adjusted Gross Profit	157	162	203
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	103	120	360
b) Adjusted Net Profit	105	68	17
12. Dividends Declared	4	4	4
13. Corporate Tax.	40	80	149
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	257.5/262.5	300.0/170.0	900.00/42.50
b) N.P./Adjusted N.P.to Net Worth	20.6/21.0	19.5/11.0	37.04/1.75
c) GP/Adjusted GP to Capital Emp.	21.9/22.2	57.1/43.2	34.25/12.44
d) Sales to Capital Emp.	105.6	245.6	69.49
e) G.P./Adjusted GP to Sales	20.8/22.2	23.2/17.6	49.29/17.90
f) Paid-up Capital/Loan Ratio.	0.05	0.05	0.04

Source: 1. Annual Report of the Company.
2. Adjusted/Gross Profit & net Profit are as defined in the glossary of terms.

TABLE NO. 18

FINANCIAL STRUCTURE

(Rs.Lakhs)

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

ITEM	1988-89	1989-90	1990-91
(1)	(2)	(3)	(4)
1. Authorised Capital	20000	20000	20000
2. i) Paid-up Capital	19982	19982	19982
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	7694	9794	13645
3. i) Total Loans	8313	4897	3579
ii) Of which Foreign	368	305	228
4. Cash Credits/Advances from Banks/Others	2343	401	973
5. Net Worth	27563	29712	33602
6. i) Gross Block	38822	40121	40529
ii) Less Depreciation	12365	15387	18418
iii) Net Fixed Assets	26457	24734	22111
iv) Working Capital	9943	8563	13119
v) Capital Empl. (iii+iv)	36400	33297	35230
7. i) Sales	33856	40284	41462
ii) Others Income	135	104	643
Total	33991	40388	42105
8. i) Total Emoluments (incl. perks)	815	1102	1297
ii) Of which Bonus	21	16	36
iii) Average Emoluments per person p.a.	0.46	0.61	0.73
9. Inventories	11499	10632	10980
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	3839	4406	5316
b) Adjusted Gross Profit	3848	4399	4700
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	2192	2899	4850
b) Adjusted Net Profit	2202	2892	4234
12. Dividends Declared	599	799	999
13. Corporate Tax.	430	600	0
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	11.0	14.5/14.5	24.27/21.19
b) N.P./Adjusted N.P.to Net Worth	8.0	9.8/9.7	14.43/12.60
c) GP/Adjusted GP to Capital Emp.	10.5	13.2/13.2	15.09/13.34
d) Sales to Capital Emp.	93.0	121	117.69
e) G.P./Adjusted GP to Sales	11.3	10.9/10.9	12.82/11.34
f) Paid-up Capital/Loan Ratio.	2.40	4.08	5.58

Source: 1. Annual Report of the Company.
2. Adjusted/Gross Profit & net Profit are as defined in the glossary of terms.

TABLE NO. 19

FINANCIAL STRUCTURE

(Rs.Lakhs)

NAME OF THE COMPANY : ENGINEERING SERVICES AND OTHER UNITS.

	ITEM	1988-89	1989-90	1990-91
	(1)	(2)	(3)	(4)
1.	Authorised Capital	1250	1950	1950
2.	i) Paid-up Capital	679	1166	1600
	ii) Preference Capital	--	--	--
	iii) Reserve & Surpluses	9978	12565	13448
3.	i) Total Loans	5728	10429	12454
	ii) Of which Foreign	--	--	--
4.	Cash Credits/Advances from Banks/Others	2288	2210	3638
5.	Net Worth	6530	9158	10198
6.	i) Gross Block	8371	9131	9744
	ii) Less Depreciation	2519	3069	3580
	iii) Net Fixed Assets	5852	6062	6162
	iv) Working Capital	8060	10253	12466
	v) Capital Empl. (iii+iv)	13912	16315	18628
7.	i) Sales	27515	29205	34872
	ii) Others Income	474	1446	1582
	Total	27989	30651	36454
8.	i) Total Emoluments (incl. perks)	4795	5483	5590
	ii) Of which Bonus	114	132	120
	iii) Average Emoluments per person p.a.	0.54	0.72	0.66
9.	Inventories	3705	3907	4148
10.	Gross Profit			
	a) Gross Profit before Tax & Intt. (Actual)	2353	2663	3586
	b) Adjusted Gross Profit	2375	1242	1942
11.	Net Profit			
	a) Net Profit after Tax & Intt. (actual)	236	379	1381
	b) Adjusted Net Profit	258	-1041	93
12.	Dividends Declared	113	126	312
13.	Corporate Tax.	982	1393	1075
	% age of:			
a)	N.P./Adjusted NP to Paid-up Capital	34.8/38.0	32.5/-89.3	86.34/5.81
b)	N.P./Adjusted N.P.to Net Worth	3.6/4.0	4.1/-11.4	13.54/0.91
c)	GP/Adjusted GP to Capital Emp.	16.9	16.3/7.6	19.25/10.43
d)	Sales to Capital Emp.	197.8	179.0	187.20
e)	G.P./Adjusted GP to Sales	8.6	9.1/4.3	10.28/5.57
f)	Paid-up Capital/Loan Ratio.	0.11	0.11	0.1

Source: 1. Annual Report of the Company.
2. Adjusted/Gross Profit & Net Profit are as defined in the glossary of terms.

TABLE NO. 20

FINANCIAL STRUCTURE

NAME OF THE COMPANY : ENGINEERS INDIA LIMITED

(Rs./Lakhs)

ITEM	1988-89	1989-90	1990-91
(1)	(2)	(3)	(4)
1. Authorised Capital	200	200	200
2. i) Paid-up Capital	100	100	100
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	7623	7925	8845
3. i) Total Loans	500	426	350
ii) Of which Foreign	--	--	--
4. Cash Credits/Advances from Banks/Others	--	--	--
5. Net Worth	7723	8025	8945
6. i) Gross Block	5101	5211	5374
ii) Less Depreciation	966	1246	1546
iii) Net Fixed Assets	4135	3965	3827
iv) Working Capital	4085	4480	5459
v) Capital Empl. (iii+iv)	8220	8445	9286
7. i) Sales	6297	6216	8046
ii) Others Income	470	754	594
Total	6767	6970	8640
8. i) Total Emoluments (incl. perks)	3172	3275	3418
ii) Of which Bonus	37	29	20
iii) Average Emoluments per person p.a.	0.88	0.95	1.01
9. Inventories	59	101	105
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	1190	1632	1861
b) Adjusted Gross Profit	1208	895	1267
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	509	331	933
b) Adjusted Net Profit	527	-406	367
12. Dividends Declared	25	25	25
13. Corporate Tax.	642	1260	900

% age of:

a) N.P./Adjusted NP to Paid-up Capital	509.0/527.0	331.0/-406.0	933.00/367.00
b) N.P./Adjusted N.P.to Net Worth	6.6/6.8	4.0/-5.1	10.43/4.10
c) GP/Adjusted GP to Capital Emp.	14.4/14.7	19.3/10.6	20.04/13.64
d) Sales to Capital Emp.	76.6	73.6	86.65
e) G.P./Adjusted GP to Sales	18.9/19.2	26.3/14.4	23.13/15.75
f) Paid-up Capital/Loan Ratio.	0.20	0.23	0.29

Source: 1. Annual Report of the Company.
2. Adjusted/Gross Profit & net Profit are as defined in the glossary of terms.

TABLE NO. 21

FINANCIAL STRUCTURE

NAME OF THE COMPANY : BALMER LAWRIE & COMPANY LIMITED.

ITEM (1)	1988-89 (2)	1989-90 (3)	1990-91 (4)
1. Authorised Capital	800	1500	1500
2. i) Paid-up Capital	402	869	1303
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	2350	4635	4598
3. i) Total Loans	1092	5221	7082
ii) Of which Foreign	--	--	--
4. Cash Credits/Advances from Banks/Others	2234	2140	3632
5. Net Worth	2752	5504	5901
6. i) Gross Block	2953	3596	4037
ii) Less Depreciation	1313	1575	1777
iii) Net Fixed Assets	1640	2021	2259
iv) Working Capital	3810	5476	6764
v) Capital Empl. (iii+iv)	5450	7497	9023
7. i) Sales	20496	22113	25843
ii) Other Income	--	688	985
Total	20496	22801	26828
8. i) Total Emoluments (incl. perks)	1247	1767	1713
ii) Of which Bonus	64	88	86
iii) Average Emoluments per person p.a.	0.44	0.58	0.53
9. Inventories	3404	3533	3765
10. Gross Profit			
a) Gross Profit after Interest & Tax (actual)	1416	1241	1905
b) Adjusted Gross Profit	1424	543	860
11. Net Profit			
a) Net Profit after Tax & Interest (actual)	583	287	685
b) Adjusted Net Profit	591	-410	-33
12. Dividends Declared	88	101	287
13. Corporate Tax.	340	125	175
% age of:-			
a) NP/Adj. NP to paidup Capital	145.0/147.0	33.0/-47.2	52.54/-2.53
b) N.P./Adjusted N.P. to Net Worth	21.2/21.5	5.2/-7.4	11.60/-0.56
c) GP/Adjusted GP to Capital Emp.	26.0	16.6/7.2	21.11/9.53
d) Sales to Capital Emp.	376.0	295.0	286.39
e) G.P./Adjusted GP to Sales	6.9	5.6/2.5	7.37/3.33
f) Paid-up Capital to Loan Ratio	0.36	0.17	0.18

Source: 1. Annual Reports of the Company.
2. Adjusted/Gross Profit & net Profit are as defined in the glossary of terms.

TABLE NO. 22

FINANCIAL STRUCTURE

NAME OF THE COMPANY : BIECCO LAWRIE & CO. LTD.

(Rs./Lakhs)

ITEM	1988-89	1989-90	1990-91
(1)	(2)	(3)	(4)
1. Authorised Capital	250	250	250
2. i) Paid-up Capital	177	197	197
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	5	5	5
3. i) Total Loans	4136	4782	5022
ii) Of which Foreign	--	--	--
4. Cash Credits/Advances	54	70	6
5. Net Worth	(-)3945	(-)4371	(-)4648
6. i) Gross Block	317	324	333
ii) Less Depreciation	240	248	257
iii) Net Fixed Assets	77	76	76
iv) Working Capital	165	297	242
v) Capital Empl.(iii+iv)	242	373	318
7. i) Sales	722	876	983
ii) Other Income	4	4	3
Total	726	880	986
8. i) Total Emoluments (incl. perks)	376	441	459
ii) Of which Bonus	13	15	14
iii) Average Emoluments per person p.a.	0.29	0.41	0.43
9. Inventories	242	273	278
10. Gross Profit			
a) Gross Profit after Interest & Tax (actual)	(-)253	(-)210	(-)180
b) Adjusted Gross Profit	(-)257	(-)196	(-)185
11. Net Profit			
a) Net Profit after Tax & Interest (actual)	(-)856	(-)239	(-)236
b) Adjusted Net Profit	(-)860	(-)225	(-)241
12. Dividends Declared	--	--	--
13. Corporate Tax.	--	--	--
% age of:-			
a) NP/Adjusted NP to paidup Capital	Neg.	-121.3/-114.2	-120.12/-122.50
b) N.P./Adjusted to N.P. Net Worth	Neg.	5.5/5.1	5.08/5.19
c) GP/Adjusted GP to Capital Emp.	Neg.	-56.3/-52.5	-56.48/-58.10
d) Sales to Capital Emp.	298.3	234.9	308.78
e) G.P./Adjusted GP to Sales	Neg.	-24.0/-22.4	-18.29/-18.82
f) Paid-up Capital to Loan Ratio	0.04	0.04	0.04

Source: 1. Annual Reports of the Company.
2. Adjusted/Gross Profit & net Profit are as defined in the glossary of terms.

CAPITAL INVESTMENT OF THE PUBLIC/JOINT SECTOR UNDERTAKINGS AS ON 1-4-1989 1-4-1990 and 1-4-1991.

Name of the Undertaking	As on 1-4-1989				As on 1-4-1990				As on 1-4-1991 (Rs./Crores)			
	Paid-up Capital	Loans	Total	Govt. Share	Paid-up Capital	Loans	Total	Govt. Share	Paid-up Capital	Loans	Total	Govt. Share
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
A. Exploration & Production	1241.2	5463.6	6704.8	1954.1	1241.2	6857.1	8098.3	2375.9	1246.2	7844.2	9090.5	N.A
1. ONGC	342.9	4653.2	4996.1	875.3	342.9	5772.8	6115.7	1277.0	342.9	6721.5	7064.4	N.A.
2. ONGC's Videsh Ltd.	25.0	--	25.0	--	25.0	--	25.0	--	30.0	23.8	53.8	N.A.
3. OIL	28.0	83.1	111.0	41.0	28.0	220.5	248.5	85.2	28.0	258.1	286.1	N.A.
4. GAIL	845.3	727.3	1572.6	1037.8	845.3	863.8	1709.1	1013.7	845.3	840.9	1686.3	N.A.
B. Refining and Marketing	407.0	2790.9	3197.9	590.6	437.5	6644.6	7082.1	598.8	437.5	8608.0	9045.5	N.A.
5. IOC	123.3	1974.5	2097.8	130.1	123.3	5441.1	5564.4	123.3	123.3	7188.3	7311.5	N.A.
6. BPCL	27.9	221.1	249.0	93.8	50.0	321.5	371.5	113.6	50.0	452.7	502.7	N.A.
7. HPCL	63.8	288.1	351.9	138.5	63.8	489.3	553.1	134.0	63.8	548.7	612.5	N.A.
8. CRL	68.5	125.9	194.4	79.2	68.9	142.6	211.5	76.6	68.9	87.8	156.7	N.A.
9. MRL	114.0	169.2	283.2	143.5	114.1	189.1	303.2	140.8	114.1	222.5	336.7	N.A.
10. IBP Co. Ltd.	4.3	0.3	4.6	2.7	7.4	33.5	40.9	4.7	7.4	64.7	72.1	N.A.
11. Lubrizol India Ltd.	4.8	5.0	9.8	2.8	9.6	18.9	28.5	5.8	9.6	27.9	37.5	N.A.
12. IOB	0.4	6.8	7.2	--	0.4	8.6	9.0	--	.4	15.4	15.8	N.A.
C. Petro-Chemicals	199.8	76.2	276.0	199.8	199.8	48.9	248.7	199.8	199.8	35.8	235.6	N.A.
13. BRPL	199.8	76.2	276.0	199.8	199.8	48.9	248.7	199.8	199.8	35.8	235.6	N.A.
D. Engineering Unit	6.8	45.8	52.6	24.9	11.7	104.3	116.0	25.1	16.0	88.2	104.2	N.A.
14. EIL	1.0	5.0	6.0	1.0	1.0	4.3	5.3	1.0	1.0	3.5	4.5	N.A.
15. Balmer Lawrie Ltd.	4.0	18.3	22.3	--	8.7	52.2	60.9	--	13.0	34.5	47.5	N.A.
16. Biecco Lawrie Ltd.	1.8	22.5	24.3	23.9	2.0	47.8	49.8	24.1	2.0	50.2	52.2	N.A.
TOTAL (A+B+C+D)	**1854.8**	**8376.5**	**10231.3**	**2769.4 (27.1%)**	**1890.2**	**13654.9**	**15545.1**	**3199.6 (21.6%)**	**1899.5**	**16576.4**	**18475.9**	**N.A.**

Note : 1. Figures in brackets indicate the % age share of the Government.

2. Paid-up Capital of IBP Co. Ltd. include 0.50 Crores as preference share Capital.

GLOSSARY OF TERMS USED IN THE "ANNUAL REPORT ANALYSIS"

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 gratuiry.
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, donations, exchange fluctuations, loss on disposal of Assets, Dividends etc.
7.	Adjusted Net Profit	:	Represents the figure arrived at after deducting from the adjusted gross profit intereston on loans bad debts and taxes but before appropriation to reserves.
8.	Dividend Declared	:	Includes also preference dividend, if any.
9.	Gross Profit & 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	:	Kilometre.
LR I	:	Large Range I (45,000-79, 999 dwt).
LR II	:	Large Range II (80,000-1, 59,999 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

LINER

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. Decimetre - 1 Acre.
100 Sq. Acres	=	1 Sq. Hectometre - 1 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 Hectolitres	=	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.
	=	0.907185 Tonne.
	=	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).
	=	550 Foot Pounds Force/Second.
	=	1.01387 Metric Horse Power.
1 Kilowatt	=	737.562 Foot Pounds Force/Second.
	=	1.35962 Metric Horsepower.
	=	1.34102 Imperial 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 Cubic 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 of Permanently Enclosed Space.
1 Ton of Liquified Methane	=	Approx. 16 Barrels.
	=	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 Matric Tonnes
1	2	3	4
Avitation Spirit 100/130	1421	0.7034	8.94
Avitation Spirit 114/145	1449	0.6901	9.11
Avitation 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 Spirit 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
Avitation 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	7.58

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
Avitation 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. Avitation Spirit 100/130	0.9827
2. Avitation Spirit 114/145	0.9820
3. Avitation Spirit 73 Clear	0.9824
4. Avitation Turbine Fuel	0.9862
5. Motor Spirit 83	0.9830
6. Motor Spirit 93	0.9836
7. H.S.D.O.	0.9879
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
Avitation 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	MULTIPLIERS
L.P.G.	1.130
Naphtha	1.075
Avitation 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.	**I N D I A:**		
	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 Speicfic crude oil relevant conversion factor may have to be used.

(b) Factor 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 : 1 K 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 Factor	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 Kcal per cubic metre of gas under standard conditions of 15^{o}c, 013.25 mbar, dry.

COAL REPLACEMENT AND EQUIVALENTS OF DIFFERENT FUELS

Fuels	Original Unit	Unit coal Equivalent in Million Tonnes (mtce)	Coal Replacement in Million Tonnes (mtcr)
1.	2.	3.	4.
Coal (coking 6640 K cal/kg., Non-coking coal Used in steam generation(5000 K cal/Kg.)	1mt	1.0	1.0
Hard Coke	1mt	1.3	1.3
Soft Coke	1mt	1.5	1.3
Firewood (4750 K cal/K...)Kg	1mt	0.95	0.95
Char Coal (6900 K cal/Kg.)	1mt	1.0	1.0
2. OIL PRODUCTS : 10,000 K cal/Kg.			
Black Products (i.e. Fuel Oil; F.O.; Refinery Fuel, LSHS,HHS).	1mt	2.0	2.0
Kerosene & LPG	1mt	2.0	8.0
HSDO & LDO	1mt	2.0	9.0
Motor Spirit & Jet Fuel	1mt	2.0	7.5
Natural Gas (9000 K cal/Kg.)	109 x m3	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. Soild 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 RATES : 1946/1991-92

(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	3.49275	4.76190	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 : 1946/1991-92

(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	22.743	1991-92	24.51125
1992	25.914	25.890					

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 rates for the years 1970 and 1971 are based on 'Trade conversion Factors'.

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

e = estimated.

Source : International Financial Statistics.

ERRATA LIST

S.No.	Page No.	Column	Line	Given as	Read as
1.	34	1st	Last	1990-91	**1991-92**
2.	67	2 & 3	3	985	**1985**
		4 & 5	3	986	**1986**
		6 & 7	3	987	**1987**
		8 & 9	3	988	**1988**
		10 & 11	3	989	**1989**
		12 & 13	3	990 (P)	**1990 (P)**
		14 & 15	3	99 (P)	**1991 (P)**
3.	103	Heading	2	1990-91	**1991-92**
4.	180	First Para	5	an	**as**