

INDIAN PETROLEUM & NATURAL GAS STATISTICS

1992-1993

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

PREFACE

1. The present publication is the twenty-seventh of the annual series brought out by the Economics and 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	1985-86	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93*
1.	**Geographical Area**	M.Sq.Km.	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29
2.	**Population**	Million	690	766	797	812	827	844	850	873 #
3.	**Gross National Product :**									
	at factor cost :									
	(i) At current prices	Rs. Crores	122772	232370	292232	349021	400096	465827	535055	610000 #
	(ii) At 1980-81 prices	- do -	122772	155365	168121	185708	196132	206375	209306	218158 #
4.	**Net National Product :**									
	at factor cost :									
	(i) At current prices	Rs. Crores	110685	206133	258891	310100	354526	413943	473246	N.A.
	(ii) At 1980-81 prices	- do -	110685	139025	149787	166232	175400	184460	186135	193940 #
5.	**Per Capita Net National Product :**									
	(i) At current prices	Rupees	1630	2730	3285	3852	4313	4934	5529	N.A.
	(ii) At 1980-81 prices	- do -	1630	1841	1901	2065	2134	2199	2175	2222 #
6.	**Foreign Exchange Reserves**									
	(i) Gold +	Rs. Crores	225.6	274.3	274.3	274.3	280.7	6828.3	9038.8	10548.8
	(ii) SDR	Mn.of SDRs	490.5	115.1	69.7	79.5	81.9	75.9	65.7	55.4
	(iii) Foreign Exchange	Rs. Crores	4822.1	7384.4	7287.1	6604.6	5787.2	4388.1	14578.0	20140.0
7.	**Foreign Trade :**									
	(i) Import	Rs. Crores	12544	21164	22244	28235	35412	43193	47851	62923
	(ii) Export	- do -	6576	11578	15674	20231	27681	32553	44042	53351
	(iii) Balance of Trade	- do -	-5968	-9586	-6570	-8004	-7731	-10640	-3809	-9572
8.	**Index of Production :**									
	(i) Agricultural	@	135.3	158.4	151.3	183.2	187.0	192.0	186.6	N.A.
	(ii) Industrial	1980-81=100	100.0	142.1	166.4	180.9	196.4	212.6	212.4	N.A.
9.	**Wholesale Price Index :**	1981-92=100		125.4	143.5	154.2	165.7	182.7	207.8	228.7
10.	**Consumer Price Index :**									
	(i) Industrial Workers	1960=100	401	620	736	803	853	951	1057	N.A.
	(ii) Agricultural Labourers	1960-61=100	395	546	629	708	746	803	958	N.A.
	(iii) Urban non-manual workers	1960=100	369	568	668	724	771	857	941	N.A.
11.	**Employment : @@**									
	(i) Public Sector	Million	15.48	17.68	18.32	18.52*	N.A.	N.A.	N.A.	N.A.
	(II) Private Sector	- do -	7.40	7.37	7.39	7.47*	N.A.	N.A.	N.A.	N.A.
	Total	- do -	22.88	25.05	25.71	25.99*	N.A.	N.A.	N.A.	N.A.
	No. of persons on live register of employment exchange	Million	16.20	27.03	29.57	30.30	33.25	34.89	36.55	36.31
12.	**Energy Generation (Gross) :**									
	Coal	Mn. Tonnes	113.91	154.20	179.72	194.60	200.89	211.73	229.28	238.20
	Lignite	- do -	5.11	8.05	11.16	12.40	12.80	13.77	14.55	16.62
	Natural Gas	Mn. Cub. Mtr.	2358	8134	11467	13217	16988	17998	18645	18060
	Crude Oil	Mn. Tonnes	10.51	30.17	30.36	32.04	34.09	33.02	30.35	26.95
	Petroleum Products	- do -	25.35	42.37	47.25	48.49	51.37	51.27	50.98	53.11
13.	**Electricity :**									
	(i) Utilities :									
	Hydel	B. KWH	46.5	51.0	47.5	57.8	62.0	71.5	72.6	69.8
	Thermal	- do -	61.3	114.4	149.6	157.5	178.5	186.5	208.6	224.5
	Nuclear	- do -	3.0	5.0	5.0	5.8	4.6	6.2	5.5	6.7
	Total	**- do -**	**110.8**	**170.4**	**202.1**	**221.1**	**245.1**	**264.2**	**286.7**	**301.0**
	(ii) Non-Utilities :	- do -	8.4	13.0	16.9	19.9	23.0	24.1	27.5	N.A.
	GRAND TOTAL	**- do -**	**119.3**	**183.4**	**219.0**	**241.0**	**268.1**	**288.3**	**314.2**	**N.A.**

* : Provisional @ : Triennium ending 1969-70=100 # : Advance estimate @@ : As on calender year basis. N.A. : Not available

+ : 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. October 17, 1990.

Source : 1. Economic Survey 1992-93.
2. National Accounts Statistics 1993.
3. RGI's 1st March estimates.
4. Foreign Trade Statistics of India (1987-88 to 1992-93)
5. Selected Economic Indicators, Ministry of Industry.

SELECTED ECONOMIC INDICATORS OF THE INDIAN ECONOMY.

Indicator	Unit/ Base	1980-81	1985-86	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93 (P)
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
1. Reserves@ (Balance recoverable)									
i) Crude Oil	Mn.Tonnes	366	500	581	638	726	739	806	801
ii) Natural Gas	Bn.Cub Mtrs.	352	479	541	579	648	686	730	735
2. Consumption:									
i) Crude Oil (in terms of refinery crude throughput)	Mn.Tonnes	25.84	42.91	47.75	48.80	51.94	51.77	51.42	53.48
ii) Petroleum Products (excl.RBF)	"	30.90	40.87	46.42	50.09	54.10	55.04	56.97	59.20
3. Production:									
i) Crude Oil	"	10.51	30.17	30.36	32.04	34.09	33.02	30.35	26.95
ii) POL Products	"	24.12	39.88	44.73	45.70	48.69	48.56	48.35	50.36
4. Imports & Exports:									
(a) Gross Imports	Mn.Tonnes								
i) Qty. : Crude Oil	"	16.25	15.15	17.73	17.81	19.49	20.70	23.99	29.25
POL Products	"	7.29	3.86	4.15	6.50	6.56	8.66	9.45	11.28
TOTAL - (i)	"	**23.54**	**19.01**	**21.88**	**24.31**	**26.05**	**29.36**	**33.44**	**40.53**
ii) Value: Crude Oil	Rs./Crores	3349	3687	2986	2861	4089	6118	7820	10686
POL Products	"	1917	1274	1024	1560	2255	4660	5218	6360
TOTAL- (ii)	"	**5266**	**4961**	**4010**	**4421**	**6344**	**10778**	**13038**	**17046**
(b) Exports:									
i) Qty.:Crude Oil	Mn.Tonnes	--	0.53	--	--	--	--	--	--
POL Products	"	0.04	1.96	3.41	2.30	2.59	2.65	2.94	3.72
TOTAL-(i)	"	**0.04**	**2.49**	**3.41**	**2.30**	**2.59**	**2.65**	**2.94**	**3.72**
ii) Value :Crude Oil	Rs/Crores	--	135	--	--	--	--	--	--
POL Products	"	8	510	649	524	696	1004	1215	1606
TOTAL-(ii)	"	**8**	**645**	**649**	**524**	**696**	**1004**	**1215**	**1606**
(c) Net Imports:									
i) Qty.:Crude Oil	Mn.Tonnes	16.25	14.62	17.73	17.81	19.49	20.70	23.99	29.25
POL Products	"	7.25	1.90	0.74	4.20	3.97	6.01	6.51	7.56
TOTAL-(i)	"	**23.50**	**16.52**	**18.47**	**22.01**	**23.46**	**26.71**	**30.50**	**36.81**
ii)Value.:Crude Oil	Rs/Crores	3349	3552	2986	2861	4089	6118	7820	10686
POL Products	"	1909	764	375	1036	1559	3656	4004	4753
TOTAL (ii)	"	**5258**	**4316**	**3361**	**3897**	**5648**	**9774**	**11824**	**15439**
(d) Unit Value of crude oil imports (Gross)	Rs/MT	2061	2435	1684	1606	2098	2956	3260	3653
5. India's total Exports	Rs/Crores	6711	10895	15674	20231	27681	32553	44042	53351
6. POL Imports as percentage of India's total exports									
i) Gross Imports	%	78.5	45.5	25.6	21.9	22.9	33.1	29.6	32.0
ii) Net Imports	%	78.3	39.6	21.4	19.3	20.4	30.0	26.8	28.9
7. Contribution of Oil Sector to Centre/State Resources									
i) Royalty from Crude Oil	Rs/Crores	41	379	570	602	656	2028	910	2079
ii) Royalty from Gas	"	3	22	78	101	120	138	214	209
iii) Oil Development Cess	"	60	866	1513	2014	2914	2782	2501	2192
iv) Excise & Custom duties	"	1570	3768	6105	6748	8093	9179	9337	10369
v) Sales Tax	"	628	1564	1871	2107	2824	3653	4727	5541
vi) Generation of internal resources	"	359	2358	2199	3126	4524	3021	2822	3894
vii) Corporate Tax	"	76	740	797	763	764	646	748	709
8. Natural Gas:									
i) Gross Production	Mn.Cu.Metres	2358	8134	11467	13217	16988	17998	18645	18060
ii) Utilisation	"	1522	4950	7968	9250	11172	12766	14441	16116

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

PETROLEUM STATISTICS

PART I

HIGHLIGHTS OF INDIAN PETROLEUM INDUSTRY DURING THE YEAR 1992-93

During 1992-93, ONGC carried out exploration and production activities in large scale by taking up 70 new structures for drilling and commissioning 2 new rigs. Drilling operations have been taken up by ONGC on 41 onland structures (21 in Cauvery basin, 10 in Krishna Godavari Region, 4 in Eastern Region, 4 in Cambay basin and one each in Bengal basin and Rajasthan) and 29 new offshore structures (18 in Bombay offshore, 4 in Cambay offshore, 3 each in Cauvery and Krishna-Godavari offshore and one in Kutch offshore). Oil was discovered in 5 places (2 in Bombay offshore, 2 in Cambay onland and one at Cauvery onland). Gas was struck at 9 places (3 each in Krishna Godavari onland and Cauvery basin, 2 in Bombay offshore and one in Kutch offshore). Both oil and gas was struck at two places in Bombay offshore and at one place in K.G. offshore.

Oil discovered in Lakadong and Terria Sand Group at well No. NHK 321 in Tengakhat area by Oil India Ltd.

The overall production of crude oil in 1992-93 was 26.95 million tonnes. The import of crude oil during 1992-93 was 29.25 million tonnes as against 24.00 million tonnes during 1991-92 and index of self reliance on oil has decreased from 50% in 1991-92 to 42% in 1992-93.

During 1992-93, the refinery activities have been increased. At BPCL refinery Bombay the special crudes namely Nigerian Crude QUA-IBOE and Harriet crude (Australian and Qatar Marine Crude) were processed in the refinery for the first time. In the case of BR & PL, the Product Application Centre which was an associated project of the Polyester Sample Fibre Plant has been completed and commissioned and Waste Recovery Unit of the Polyester Sample Fibre was declared mechanically completed. In CRL, the Light Ends Feed Preparation Unit built to supply feed stock to CRL - Balmer Lawrie Joint Venture Company was taken under gas pressure. HPCL Visakh refinery completed the Propylene Recovery Unit which is designed to separate 23,000 tonnes/annum of propylene from FCCU-LPG. Government of India has accorded stage-I clearance for setting up 6.0 million tonnes/ annum grassroot refinery on the West Coast of India. In the case of Indian Oil Corporation,

Aromex was produced for the first time in Guwahati refinery. In Gujarat refinery, Visbreaker Unit revamped and commissioned incorporating the "Soaker" technology for the first time in India. In Mathura refinery, structured packings in vacuum column was employed for the first time in India. Government approval received for Karnal refinery and linked projects and for licensor selections for catalytic reformer. Press note for setting up of 3 grassroot refineries in India in Joint Sector issued and Government conveyed the issuance of LOI for a Joint Venture to M/s Ashok Leyland with stipulation that IOC is made an equity partner. During 1992-93, Government of India accorded final approval for MRL's Joint Venture Project "National Aromatics and Petrochemicals Corporation Ltd.". The license and engineering agreements for this joint venture were signed with UOP Inter-Americana (UOP I-A) USA.

During 1992-93, the marketing activities of the petroleum industry were also expanded. New lube products i.e. high performance hydraulic oil, multigrade engine oil and rubber process oil were developed/introduced by HPCL to meet specific consumer needs. Two LPG bottling plants one at Palghat with a capacity of 10,000 tonnes and another at Bahadurgarh with a capacity of 44,000 tonnes were commissioned by HPCL. A lube oil pipeline of 17 km length and 12" dia from Lube refinery of Bombay to the blending units of HPC and BPC commissioned. IOC has completed the storage depots at Jhansi (7117 KL), Dhule depot at Shirud (7,122 KL), Chandrapur depot at Tadali (10,834 KL), Indore depot at Mangaliagaon (17,892 KL), Bijapur depot (6,620 KL), Hubli depot (13,181 KL), new depot at Singrauli (12,380 KL), Relief tankage at Sankari (14,247 KL), new depot at Bharatpur (17,473 KL), additional tankage at Agra (7,600 KL), tankage of 82,600 KL at Kandla and additional tankage of 23,500 KL at Kandla. CNG marketing was started by IOC at selected retail outlets at Delhi and Bombay and exported Naphtha, NGL and Furnace Oil, totalling 3389 TMT of exports which has been the highest ever achieved for all the above products so far.

During the year 1992-93, the oil companies opened 51 new retail outlets, 20 new SKO/LDO dealerships and 94 new LPG dealerships. About 10.67 lakhs new LPG consumers were enrolled during the year. With this the number of domestic consumers increased to over 192.07 lakhs at the end of the year 1992-93.

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II. CHRONOLOGY OF IMPORTANT EVENTS IN THE INDIAN PETROLEUM INDUSTRY DURING 1992-93

A. EXPLORATION AND PRODUCTION

1. Oil India Limited, Duliajan, Assam

1992 In April, blow out occurred at DIKOM-1 and oil discovered in Lakadong and Teria Sand Group at Well No. NHK-321 in Tengakhat area.

In June, CYBER-830 Computer commissioned.

In July, experimental processing of seismic data using CYBER-830 started and Phase-I of Gas Storage scheme completed.

In August, Gas Compression Facility commissioned at Jaypur GCS.

In September, Gas Compression Facility commissioned at Lankashi GCS.

In October, one of the 4" temporary crude transportation line from Kumchai snapped off at Noa-Dehing river crossing.

In November, Sun-Sparc Station for Digital Image Processing of Satellite Imageries installed.

In December, DIKOM E.P.S. at Well NHK-438 commissioned.

1993 In January, Kathalani E.P.S. at Well NHK-321 commissioned.

In March, Shalmari OCS commissioned and highest ever daily output by OIL's seismic parties recorded by acquiring 61.40 SLKM seismic data. Party-III recorded highest single party daily output of 22.80 SLKM. Oil discovered in Lower Tipam Sand at Well No.NHK-44.

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

1992 In April, Becharjee GGS-I in Mehsana Project (WRBC); CTF Gandhar Phase-I, oil storage tanks and pump house; CSU Gandhar; Mehsana CTF (WRBC) and HP Gas Lift Compressor plant at Lakwa (ERBC) were commissioned. Regular water injection plant of 30 TPD capacity started in Pansar (WRBC). Five new structures Khasimara in Dhansiri Valley (Eastern Region), Mahendrawadu in Krishna Godavari (K.G.), Ammapettai and Mugaiyur in Cauvery and P-13A in Bombay offshore taken up for drilling. First ever oil strike in CRBC at Well Ichapur-1 in West Bengal made and oil flow was observed during DST.

In May, trunk pipeline from Tatipaka to Kakinada (SRBC) laid by GAIL has been changed and gas supply to NFCL commenced. Lanwa GGS-II (WRBC) and in ERBC, an 8" effluent transportation line from Lakwa GGS-4 and 6 to ETP Lakwa (ERBC) commissioned. Eleven new structures Chandroda in Cambay basin, Ramachandrapuram and Chinnpanduka in Krishna Godavari, Nayanarkoil and Pallivaramangalam in Cauvery, C-1 in Cambay offshore, R-50, B-127, B-103 and C-23 in Bombay offshore and GK-36A in Kutch offshore taken up for drilling.

In June, Chintalapalli-1 EPS (SRBC) and Pasarlapudi-8 EPS (SRBC) commissioned. Four new structures Borsa in Cambay Basin, Tenagndi in Cauvery, GS-46 in K.G. offshore and PY-S in Cauvery offshore taken up for drilling.

In July, Trunk line of 18" x 19.7 kms from Bechrajee GGS-I to Mehsana CTF and EPS at Endamuru (SRBC) commissioned and gas supply to Nagarjuna Fertilizers Company Ltd. (NFCL) from Well No.1 started. Five new structures D-1 in Cambay offshore, Bhavadevarepalli, Kottalanka and Nidovele in KG and GS-29 in K.G. offshore taken up for drilling.

In August, Bechrajee-3 EPS (WRBC) commissioned and oil pumping from Andada EPS (WRBC) commenced resulting in saving of road transportation of crude oil of 25 TPD. The low pressure gas line from lakwa GGS-IV (ERBC) commissioned. Eight new structures Jhenore in Cambay Basin, Vijaypuram, Ariyalur, Semangalam, Alinagaram and Kandangudi in Cauvery, Penumala in Krishna - Godavari and A-1 in Cambay offshore taken up for drilling.

In September, well Kamalapuram-4 in Cauvery onshore has been connected to EPS and put on production. Four new structures taken up for drilling at Pravakottai in Cauvery, Komarada in Krishna-Godavari, R-64 and SE-A in Bombay offshore.

In October, crude transportation through pipeline from Lanwa GGS-I (WRBC) started by commissioning of 8" dia pipeline from Lanwa GGS-I to Lanwa GGS-II avoiding transportation through tankers. Eight new structures Rajaphe in Dhansiri Valley, Madhvaram and Bandamuralanka in Krishna Godavari, Ramnad and Sundarampatti in Cauvery, F-1 in Cambay offshore, GS-21-B in K.G. offshore and B-172-A in Bombay offshore taken up for drilling. New ONGC owned BHEL rig E-1400-22 in Dhansiri Valley Project (ERBC) commissioned.

In November, isolated pool khambel in Mehsana Project put on extended test production by commissioning Khambel MTS. 4" dia pipeline from Dahej to Gandhar GGS-IV in Ankleshwar project and EPS at Kesanapalli (SRBC) commissioned. Adiyakkamangalam-10 (SRBC) put on production. Five new structures Bhubandar in Cachar (Eastern Region), Elamangalam and Ingikottai in Cauvery, B-176 and R-37A in Bombay offshore taken up for drilling.

In December, gas supply from Ankleshwar Project to M/s Gujarat Guardian started on 28.12.92@ 1500 M3/day. Seven new structures Brahmanwada in Cambay Basin, Nellikottai and Tirumurgal in Cauvery, RSP-II, R-28A and C-31A in Bombay offshore taken up for drilling.

1993 In January, water injection in Gandhar (WRBC) exceeded the rate of 5000 M3/day. Isolated well nos.78, 56 and 28 of Jotana field (WRBC) having highly viscous crude were put on production by installing the separator at well site and LPG plant at Gandhar commissioned. Nine new structures Charali West in Eastern Region, Pozhakudi, Tiruvasal and Narasimhapuram in Cauvery, GM-4 and GM-1 in Cauvery offshore, R-74, PB-132 and B-154 in Bombay offshore taken up for drilling.

In February, installed Augo gas lift in Kamalapuram (SRBC) and well NO.2 put on production. EPS at Nada in Ankleshwar Project (WRBC), EPS at Penumada (SRBC) commissioned and well No.1 (SRBC) put on production. Unawa MTS in Mehsana project (WRBC) commissioned. Permanent deck installed at well platform N-8 (BRBC) and production resumed. New structures taken up for drilling at Behrampur in Bengal basin and Lunar in Rajasthan.

In March, Motwan EPS in Ankleshwar project and Gamij EPS in Ahmedabad project (both in WRBC) commissioned. LPG Screw Compressor at Ankleshwar GGS-II commissioned thereby reducing gas flaring by 30,000 M3/day. Pilot Polymer scheme at Jhalora in Ahmedabad project (WRBC) commissioned. Ravva field in KG offshore has been put on production through RV-17 platform (2 wells) and onshore terminal at Surasanyanam. New structures taken up for drilling at Neduvasal in Cauvery basin and HEM in Bombay offshore. New ONGC owned BHEL rig E-2000-8 in Lakwa field (ERBC) commissioned.

3. Gas Authority of India Limited

1992 In April, SPUR-IV pipeline consisting of 95 kms of 8"-4" pipeline for supply of gas to industries in Bahadurgarh, Sonepat (Haryana) and Sikandrabad (U.P.) commissioned.

In May, Tatipaka-Kakinada pipelines of 95 kms consisting of 12"-18" pipelines for supply of gas to Nagarjuna Fertilizers, Kakinada (Andhra Pradesh) and other committed consumers commissioned.

1993 In January, LPG recovery plant at Vaghodia (Gujarat) which reprocess 2.5 MMSCMD of natural gas to produce 65,400 tonnes of LPG per annum commissioned.

In February, 34 kms of SPUR-IV pipeline consisting of 12" pipelines for supply of gas to Maruti Udyog Limited, Gurgaon (Haryana) and 20 kms of 6" pipelines for supply of gas to industries in Sahibabad (U.P.) region commissioned.

B. REFINING

1. Bharat Petroleum Corporation Ltd., Bombay

1992 In April and May, Nigerian crude, QUA-IBOE was processed in the refinery for the first time.

In June, Harriet crude (Australian and Qatar Marine crude) were processed in the refinery for the first time.

In October, SBP production of 8.9 TMT was the highest ever achieved.

In November, as a result of disinvestment of shares by the Government of India 22 transfers of shares from Financial Institutions to individuals from public were approved. Due to this, the number of share holders has increased from 22 to 44.

In December, 19 transfers of shares from Financial Institutions to individuals from public were approved, as a result of which the number of share holders has increased from 44 to 54.

1993 In January, 51 transfers of shares from Financial Institutions to individuals from public were approved, as a result of which the number of share holders has increased from 54 to 96.

In February, 11 transfers of shares from Financial Institutions to individuals from public were approved, as a result of which the number of share holders has increased from 96 to 107.

In March, the highest crude throughput of 7.23 MMT in any financial/calendar year achieved. 40 transfers of shares from Financial Institutions to individuals from public were approved, as a result of which the number of share holders has increased from 107 to 132.

2. Bongaigaon Refinery and Petrochemicals Limited, Assam

1992 In September, the Product Application Centre which was an associated project of the Polyester Staple Fibre Plant has been completed and commissioned.

In November, the Waste Recovery Unit of the Polyester Staple Fibre was declared mechanically completed.

Additional tankage (including Crude Oil, SKO and HSD) have been commissioned during the year.

1993 In March, the work for refinery expansion project is in progress and 34.5% of the work has been completed.

3. Cochin Refineries Limited, Cochin

1992 In April, the refinery processed 4,21,780 tonnes of crude oil against the SPM target of 4,10,000 tonnes.

In May, for the third year in succession, Kerala State Pollution Control Board has adjudged CRL as the best among large scale industries in the category of heavy organic in Kerala in 1991-92 for the pollution control measures adopted by CRL.

In July, the refinery processed 453,952 tonnes of crude oil against the SPM target of 440,000 tonnes. The production of 6,760 tonnes of Benzene and 8,802 tonnes of total Aromatics was highest ever achieved since the commissioning of the Aromatic Unit. CRL has signed the Memorandum of Understanding with the Government of India on 17.7.92, spelling out the performance targets and also the obligations to be fulfilled by the Government to achieve the targets, for the year 1992-93.

In August, the refinery processed 446,459 tonnes of crude oil against the SPM target of 440,000

tonnes. Some of the operational highlights achieved during the month are :

(a) The highest ever production of 7,309 tonnes of Benzene during the month, the previous best being 6,537 tonnes of July, 1992.

(b) The highest ever total Aromatics production of 9,042 tonnes during the month, the previous best being 8,788 tonnes made in July, 1992.

(c) Loading of 11,236 POL tank wagons, the previous best being 10,789 loaded in August, 1990.

In December, Toluene production of 2,723 tonnes during the month is a record, the previous best being 2,447 tonnes made in October, 1991.

1993 In January, Toluene production of 2,822 tonnes during the month is the highest ever achieved in the month so far. The previous highest was 2,723 tonnes achieved in the month of December, 1992.

In February, Toluene production of 3,075 tonnes during the month is a record, the previous best being 2,822 tonnes made during January, 1993. CRL was adjudged first in the competition held in connection with the National Safety Day Celebrations, 1993 on "Industrial Safety Award" by the National Safety Council, Kerala Chapter.

In March, the cumulative throughput for the year 1992-93 was 5,122,332 tonnes as against the OEB target of 4,750,000 tonnes. The capacity utilisation for the period was 113.83%. The Light Ends Feed Preparation Unit built by CRL to supply feed stock to CRL-Balmer Lawrie JVC was taken under gas pressure.

As on 1.4.93, the refinery has completed 1333 days of accident-free operation, equivalent to 8.75 million man-hours.

4. Hindustan Petroleum Corporation Ltd., Bombay & Visakh.

1992 In June, the corporation signed a Memorandum of Understanding with Ministry of Petroleum & Natural Gas, for the year 1992-93. This was the second MOU to be signed after 1991-92.

During the year 1992-93, Corporation's actual performance vis-a-vis MOU targets is 'Excellent' for the second consecutive year.

In August, Bombay refinery completed 12.55 million man-hours, without any lost time accident. This is the highest ever achieved by the refinery. It has the distinction of reaching the 12 million man-hours landmark for the second time in its history. The British Safety Council, UK recently awarded "Safety Award" for the year 1992 to Visakh refinery. The refinery has received this award for the 5th consecutive year.

In September, the Corporation's equity shares were listed for the first time at the stock exchanges of Bombay, Delhi, Calcutta and Madras and are being regularly traded. Visakh refinery completed the Propylene Recovery Unit which is designed to separate 23,000 tonnes/annum of Propylene from FCCU-LPG.

1993 In March, Bombay refinery completed the facilities to treat effluent streams to meet the Minimal National Standards (MINAS) prescribed by the Central Board for prevention and control of water pollution.

The total disinvestment by the Government in its equity holding in favour of the financial institutes/mutual funds, has been 25% till March, 1993.

During 1992-93, both Bombay and Visakh refineries registered highest ever crude throughput. Bombay refinery processed 5.849 million tonnes (incl. NGL) and Visakh refinery processed 4.527 million tonnes crude.

The highest ever productions were also achieved for the following during the year :

At Bombay Refinery :

Hexane	:	46.5	thousand tonnes
Solvent-1425	:	23.9	- do -
HVI Lubes	:	176.0	- do -

At Vishakh Refinery :

LPG	:	97.1	thousand tonnes
MTO	:	9.2	- do -
Bitumen	:	89.8	- do -

A MOU was signed at Muscat, between Government of India, HPCL, Govt. of Sultanate of Oman and Oman Oil Company to establish a separate Joint Venture company to be registered in India.

Govt. of India has accorded stage-I clearance for setting up 6.0 million tonnes/ annum grassroot refinery on the West Coast of India. During the financial year 1992-93, Bombay - Pune Pipeline achieved the highest ever throughput of 2.540 million tonnes.

The Net Profit (after Depreciation, Interest and Tax) is provisionally computed to be Rs.227.14 crores, during the year 1992-93. This will be the highest ever registered by the Corporation.

The proposed dividend on the share capital has been increased to 40% for the year 1992-93 from 30% in the previous year.

The corporation incurred an overall expenditure of Rs.41.86 lakhs for the benefit of SCs and STs on welfare activities.

5. Indian Oil Corporation Ltd.

(a) Refineries

(i) Assam Oil Division, Digboi, Assam

1992-93 Digboi refinery turned out a crude throughput of 547293 MT during 1992-93 achieving a capacity utilisation of 109.46%.

Three RABMN micro earth stations were commissioned at AOD offices at Guwahati, Delhi and Dimapur for setting up a Satellite-based data communication network. Another 3 at Digboi, Silchar and Calcutta are expected to be commissioned by mid-1993.

In order to improve the monitoring system of process units for better performance the following additional instruments have been installed during 1992-93.

Dubbs Coking Unit	:	Furnace Oil outlet temperature controller and automatic digital temperature scanner.
Crude Distillation Unit Bench `C' & `G':		Pressure regulators in Ammonia injection system to atmospheric tower.
Blue Oil Distillation Unit Bench 'H'	:	Pressure controller in main and pilot burner fuel gas pressure.
Kerosene Treating Unit	:	Digital temperature indicator for indication of remote temperature measuring point.

A 838 CFM capacity ATLAS COPCO make Screw Air Compressor installed at Dubbs Compressor house to augment refinery service air supply.

Two 313 HP diesel engine driven pump sets were commissioned at Nazirating Water Supply Station for process water supply to refinery.

One deep bore well of capacity 200 M-3/Hr. was commissioned at Nazirating Water Supply Station to augment drinking water supply.

(ii) Guwahati Refinery, Guwahati, Assam

1993 In March, Aromax produced for the first time. Bagged the prestigious British Safety Council 1992 National Safety Award.

(iii) Barauni Refinery, Barauni, Bihar

1992 In December, storage and handling facilities for second grade CBFS (BMCI-80) were commissioned.

1993 In January, facilities for transfer of products to marketing terminal was commissioned.

In February, LPG bottling plant commissioned after modernisation.

In March, regular loading of SKO/HSD started from Marketing terminal.

(iv) Gujarat Refinery, Koyali, Gujarat

1992 In September, facilities for MS/SKO/HSD transfer to OMC (Other Marketing Companies) terminal at Nandesari commissioned.

In November, Udex revamp completed and commissioned with DDCS facility.

1993 In February, Visbreaker unit revamped and commissioned incorporating the "Soaker" technology for the first time in India.

In March, received "Sword of Honour" award from British Safety Council for the year 1990 and 1991 and Safety Award for the year 1991.

(v) Haldia Refinery, Haldia, West Bengal

1992 In October, additional three nos. Tank Truck loading bays were commissioned.

1993 In March, bagged the Jawahar Lal Nehru Centenary award for the best energy conservation in 1991-92 amongst 12 Indian refineries.

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

1992 In July, DDCS in FCCU commissioned.

In September, Phase-I revamp of VDU was carried out. Structured packings in vacuum column was employed for the first time in India.

In November, facilities for product transfer to OMC (Other Marketing Companies) terminal commissioned.

1993 In March, received first prize in the refinery sector for National Energy Conservation Award for the year 1991.

(vii) Karnal Refinery, Karnal

1992 In October, Government approval received for Karnal refinery and linked projects.

1993 In March, Government approval received for licensor selection for Catalytic Reformer.

(viii) Joint Sector

1992 In July, press note for setting up of 3 grassroot refineries in India in Joint Sector issued.

In September, Government conveyed the issuance of LOI for a joint venture to M/s Ashok Leyland with stipulation that IOC is made an equity partner.

(b) Pipelines Division

1992 In July, dry docking of standby Buoy (SBM) of Vadinar was carried out at Cochin Shipyard.

In November, reconnaissance survey of proposed Koyali Ratlam product pipeline route completed. Change out job of Imodco Buoy has been carried out and the new Buoy (SBM) commissioned and mechanical construction of mandatory Crude Oil Tank No.11 at Vadinar (1 x 87,000 KLS) completed.

1993 In January, KAPL debottlenecking project commissioned. Revised cost estimate of MJPL tele-supervisory project approved by Board. Realignment of mainline on supplementary Najafgarh Drain in Delhi - Ambala Section (Ch.11.5 KM) has been carried out. Mechanical construction of mandatory Crude Oil Tank No.12 at Vadinar (1 x 87,000 KLS) completed and a 600 M corroded section of 8" mainline in KAPL at chainage 86.4 KM has been replaced.

In February, construction (mechanical) of mandatory Crude Oil Tank No.12A at Vadinar (1 x 87,000 KLS) completed.

In March, revamping/upgradation of SVK telecom system completed.

6. Madras Refineries Limited, Tamil Nadu

1992 In April, Government of India accorded final approval for MRL's joint venture project "National Aromatics and Petrochemicals Corporation Limited".

In May, his Excellency Dr. Bhishma Narain Singh, the then Governor of Tamil Nadu, inaugurated the Rs.10 crore Food Grade Hexane Plant of MRL.

In July, Madras Refineries Limited (MRL) signed a Memorandum of Understanding (MOU) with the Ministry of Petroleum and Natural Gas, Government of India for the year 1992-93.

In October, the workshop on "Awareness and Preparedness for Emergencies at Local Level (APELL)" organised by National Safety Council and MRL alongwith Manali Industries Association (MIA), was inaugurated at MRL R&D Centre, Manali. This workshop was conducted for the first time in India, by UN Chapter.

In November, the Licence and Engineering agreements for the MRL's joint venture company National Aromatics and Petrochemicals Corporation Limited were signed with UOP Inter-Americana (UOP I-A), USA.

In December, Madras Refineries Limited signed an agreement with Engineers India Limited for MRL's Cauvery Basin Refinery project.

1993 In January, Madras Refineries Limited joint venture Indian Additives Limited (IAL) was inaugurated and dedicated to the Nation by his Excellency Dr. Bhishma Narain Singh, the then Governor of Tamil Nadu, at Manali.

7. IBP Company Limited

1992 -93 During the year, the IBP Company is the only major oil company to reflect a growth in lubricating oils. Highest ever blending done by IBP so far (29013 MTs) and new supply arrangements were fully implemented with IBP moving its product from all the major loading bases including those of HPC and BPC.

1993 In March, the new depot at Cherlapali, Hyderabad, was commissioned.

C. MARKETING

1. Bharat Petroleum Corporation Ltd., Bombay

1992 In August, Memorandum of Understanding (MOU) was signed with M/s Shell International for exploring possibilities of forming a joint venture in the fields of lube blending and marketing and in other areas.

2. Hindustan Petroleum Corporation Ltd., Bombay

1992 -93 During the financial year 1992-93, HPCL registered a all time high sales volume of 11.5 million tonnes with a sales turnover of Rs.10,595.78 crores. It represents a growth of 4.2% v/s industry growth of 3%. The market share improved to 19.6% from 19.38% in 1991-92.

New lube products were developed/introduced to meet specific consumer needs, as listed below:

- ENKLO HLP 32/46/68 — High performance hydraulic oil
- HYLUBE LL 15 W 40 — Multigrade engine oil
- HYLUBE CDKC — Multigrade engine oil
- ELASTO 165 — Rubber process oil
- ELASTO 248 — Rubber process oil

1992 In October, LPG bottling plant was commissioned at Palghat of 10,000 tonnes/annum capacity.

In December, a Lube Oil pipeline from Lube refinery of Bombay to the blending units of HPC and BPC, was commissioned. This pipeline of 17 km length and 12" dia will help to reduce traffic congestion/hazards and pollution apart from substantial savings in foreign exchange towards demurrage by reduction in detention of foreign flag vessels.

1993 In January, a MOU was signed between HPCL and IIP, Dehradun, with an objective of obtaining technical and scientific support for the upgradation of product range and quality and to accelerate R&D activities of Marketing Division.

For the first time in the country, dispensing facilities for CNG (Compressed Natural Gas), were installed at HPC petrol outlets, one each at Delhi and Bombay to make cheaper and less polluting alternate fuel available to motorists.

In March, LPG bottling plant was commissioned at Bahadurgarh of 44,000 tonnes/annum capacity.

3. IBP Company Limited

1992-93 Petroleum products sales for the year 1992-93 touched 2.68 MMT thus leading to growth of 7.4% over 1991-92 and during the year the company have commissioned the following retail outlets and agencies :

(i)	Regular ROS	17 Nos.
(ii)	SKO/LDO	1 No.
(iii)	2/3 Wheelers	2 Nos.

4. Indian Oil Corporation Limited

(a) <u>Indian Oil Corporation Limited, Bombay</u>

1992 In April, Jabalpur depot resited at Bhitoni with 24304 KL tankage and commissioned.

In May, Indian Oil, Nyco and Balmer Lawrie signed a MOU for setting up a joint venture for making synthetic lubricants for Aviation and the Defence Services.

In June, the following tankages were completed : putting up additional tankage (7117 KL) at Jhansi, resitement of Dhule depot at Shirud with a tankage of 7122 KL, resitement of Chandrapur depot at Tadali with a tankage of 10834 KL, resitement of Indore depot at Mangaligaon with a tankage of 17892 KL, resitement of Bijapur depot with a tankage of 6620 KL, resitement of Hubli depot with a tankage of 13181 KL, new depot at Singrauli with a tankage of 12380 KL and Relief tankage of 14247 KL at Sankari.

In July, Calicut AFS with mobile refuelling facility commissioned. Completed resitement of Akola depot at Gaigaon with a tankage of 10055 KL. MOU signed with Reliance Industries Ltd. for supply of 1.6 MMT per annum feed stock to their cracker project at Hazira.

In September, MOU signed with Essar Oil Company for marketing the products coming out of the refinery to be set up by Essar Oil.

In October, bunkering facilities (7200 KL) at Paradeep completed and MRL agreed to market Food Grade Hexane through Indian Oil. Regular supplies of 110/140 Cut Naphtha to Reliance Industries Limited commenced from Gujarat refinery.

In November, mechanically completed new depot at Bharatpur with a tankage of 17473 KL.

In December, tankage of 8600 KL at Trichi, additional tankage of 7600 KL at Agra and tankage of 82600 KL at Kandla completed.

1993 In January, Servo Superior XEE 10W30 - a new lubricant launched. (The highest performance standard Engine Oil in the country meeting API SC/CD performance level and API ECII requirements for fuel economy of 2.7% and above). Signed MOU with MOBIL for joint venture for blending and marketing of MOBIL lubricants in India as well as to set up a joint venture blending plant in India at Asaoti, near Delhi.

In March, Small Can Filling Mini Blending Plants at Khapri (Maharashtra) and Tadepalli (Andhra Pradesh) commissioned. Servo 2T Zoom and Servo Tractor Oil 10W40 - new high performance lubricants launched. Completed additional tankage of 23750 KL at Kandla. MOU signed with Tata Chemicals Babrala for supply of Naphtha as "fall-back" on Natural Gas. For the first time Aromex supplies ex-Guwahati refinery commenced.

1992 -93 During the year 158 consumer pumps commissioned. Two year contract for POL supplies (1,82,500 Kls) to DGBR projects finalised. Commissioned Railway Consumer depots - 6 new tankage 1104 KL and additional tankage at existing RCDS 1285 KL.

CNG marketing started at selected retail outlets at Delhi and Bombay. Exported 1500 TMT Naphtha, 889 TMT NGL and 982 TMT Furnace Oil, totalling 3389 TMT of exports, which has been the highest ever achieved for all the above products so far. Accomplished total switch over from MILB Monogrades to higher performance multigrade/long drain engine oils.

(b) Assam Oil Division, Digboi (Assam)

Capacity increase of Borkhola Bottling Plant, with rated capacity of 5000 MT/yr was achieved upto 7600 MT mainly through prudent operating practices.

Proposal for a Transhipment Terminal at Lumding was approved by the Board of Directors on 30th September, 1992 at an estimated cost of Rs.19.43 crores. The project is scheduled for completion by March 1995.

A temporary Compressed Natural gas filling station with piped CNG from Digboi Oil Field of Oil India Ltd. was approved by CCOE, Nagpur and inaugurated in December, 1992. Six conversion kits were purchased from M/s Transenergy, Madras and one corporation owned truck, two Ambassador cars and one Assam State Transport Corporation bus have been fitted with the kits and are running successfully on CNG on a trial basis.

D. RESEARCH & DEVELOPMENT ACTIVITIES

1. Indian Institute of Petroleum, Dehradun

1992 In April, Technology transfer agreement signed with M/s Amika Screen Works, Ujjain for manufacture of Hurricane Lantern and Nutan Wick Stove.

In May, Technology transfer agreement signed with M/s Pioneer Manufacturing Pvt. Ltd., Guwahati for the manufacture of Hurricane Lantern.

In September, Technology transfer agreement signed with M/s Greaselay Products, Dehradun for the manufacture of Aluminium Complex Greases.

In December, CSIR Chemical Technology Award received by IIP scientists for the development of Pt-Re bimetallic catalyst for catalytic reforming. Agreement signed with M/s Adarsh Chemicals and Fertilizers Ltd., Udhna for the development of catalyst for dehydrogenation of n-butane/ isobutane to butylene.

1993 In January, agreement signed with M/s Adarsh Chemicals and Fertilizers, Udhna for development of one step oxidation of cyclohexane to adipic acid.

In February, agreement with M/s Adarsh Chemicals and Fertilizers, Udhana for development of isophthalic acid from m-xylene; agreement with M/s Tria Finechem, Bombay for the production of PTBP and BHT and agreement with BPCL on Aromatic Extraction Process signed.

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

1992-93 During the year, 82 product formulations were developed. These include fuel saving automotive engine oils meeting API SG/CD-ECI, SG/CC-ECII categories, synthetic heat transfer oil, high performance high temperature multipurpose grease, two stroke engine oil with lower oil to fuel ratio.

Thirty one products got approval from various national and international agencies. Some of these are Transmission Oil C4 SAE 10.30 from Allison USA, Marine Oil from Pielstick, France, MAN, B&W Germany and Denmark, Sulzer, Switzerland and MAK Germany. Synthetic heat transfer oil from Lurgi, Germany, turbine oils from Siemens Germany and hydraulic oil from Germany.

For 2-stroke engine a new generation 2T oil which is capable of operation of 1% oil fuel ratio as against conventional 2% was developed.

Technology for the production of Food Grade Hexane from catalytic Reformer Extraction was developed jointly with IPCL and EIL. A novel chemistry grease based on a new thickener has been developed. FCC process simulation (FCC MOD) was tuned and validated at Gujarat refinery.

Co-promotor trials which were initiated at the instance of R&D has resulted in FCCU throughput by 15-20%.

In the domestic appliances area, a Kerosene Hurricane Lantern meeting BIS specification and saving kerosene upto 20% was developed. Prototypes have been made and the product is ready for commercialisation.

Greases Pumpability Test Righ (GPTR), Circulating Corrosion Test Rig (CCTR) for automotive coolants were developed at our Centre.

A method including software has been developed for high resolution mass spectrometric analysis of hydrocarbon type (Z No.) distribution of VGO and base oil.

III. INDIAN PETROLEUM INDUSTRY PROGRESS AT A GLANCE (1947-48 - 1992-93)

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 (Rs. Crores) Imports	India's total Imports/Exports (Rs. Crores) Exports	% 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%	1275	35%
1977-78	303	228	10.76	2.8	24.90	23.22	25.54	14.51 (1246)	2.88 (308)	17.34	1546	859	6020	5408	28.7%	1343	38%
1978-79	347	266	11.63	2.8	25.97	24.20	28.24	14.66 (1251)	3.88 (430)	18.49	1677	853	6811	5726	29.4%	1549	38%
1979-80	354	344	11.77	2.8	27.47	25.79	29.88	16.12 (2188)	4.72 (1082)	20.76	3246	1357	9143	6418	51.0%	1690	37%
1980-81	366	352	10.51	2.4	25.84	24.12	30.90	16.25 (3349)	7.29 (1917)	23.50	5258	2061	12549	6711	78.5%	1570	30%
1981-82	469	411	16.19	3.9	30.15	28.18	32.52	15.30 (3736)	4.88 (1453)	19.29	4978	2442	13608	7806	66.5%	1693	45%
1982-83	470	420	21.06	4.9	33.16	31.07	34.66	16.95 (4044)	5.03 (1554)	16.83	4401	2386	14293	8803	63.6%	1860	55%
1983-84	526	475	26.02	6.0	35.26	32.89	35.84	15.97 (3541)	4.33 (1271)	13.30	3224	2217	15832	9771	49.2%	2488	66%
1984-85	511	478	28.99	7.2	35.56	33.23	38.80	13.64 (3430)	6.09 (1915)	12.32	3527	2515	17134	11744	45.5%	2921	70%
1985-86	500	479	30.17	8.1	42.91	39.88	40.87	15.14 (3687)	3.87 (1274)	16.52	4316	2435	19658	10895	45.5%	3768	69%
1986-87	558	497	30.48	9.8	45.70	42.76	43.66	15.48 (2120)	3.05 (653)	16.03	2362	1370	20096	12452	22.3%	4089	65%
1987-88	581	541	30.36	11.5	47.75	44.73	46.42	17.73 (2986)	4.15 (1024)	18.47	3362	1684	22244	15674	25.6%	6105	61%
1988-89	638	579	32.04	13.2	48.80	45.70	50.09	17.81 (2861	6.50 (1560)	22.02	3897	1606	28235	20231	21.9%	6748	59%
1989-90	726	648	34.09	17.0	51.94	48.69	54.10	19.49 (4090)	6.56 (2255)	23.46	5648	2099	35412	27681	22.9%	8093	59%
1990-91	739	686	33.02	18.0	51.77	48.57	55.04	20.70 (6118)	8.66 (4660)	26.71	9775	2956	43193	32553	33.1%	9179	56%
1991-92	806	730	30.34	18.6	51.42	48.35	56.97	24.00 (7820)	9.44 (5218)	30.50	11824	3260	47851	44042	29.6%	9337	50%
1992-93(P)	801	735	26.95	18.1	53.48	50.36	59.20	29.25 (10686)	11.28 (6360)	36.81	15439	3654	62923	53351	32.0%	10369	42%

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	1992*-93
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19	20.
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	53.5
2. Domestic Production	6.8	8.4	8.9	10.8	11.6	11.8	10.5	16.2	21.1	26.0	29.0	30.2	30.5	30.4	32.0	34.1	33.0	30.3	27.0
(a) Onshore	6.8	8.4	8.5	8.7	8.3	7.3	5.5	8.2	8.2	8.6	8.9	9.4	9.9	10.2	10.9	12.4	11.8	11.4	11.2
(b) Offshore	-	-	0.4	2.1	3.3	4.4	5.0	8.0	12.9	17.4	20.1	20.8	20.6	20.2	21.1	21.7	21.2	19.0	15.8
3. Imports	11.7	13.6	14.0	14.5	14.7	16.1	16.2	15.3	16.9	16.0	13.7	15.1	15.5	17.7	17.8	19.5	20.7	24.0	29.2
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	29.2
II. PRODUCTS																			
1. Domestic Consumption@ of which	17.9	22.4	24.1	25.5	28.2	29.9	30.9	32.5	34.7	35.8	38.8	40.9	43.7	46.4	50.1	54.1	55.0	57.0	59.2
(a) Naphtha	0.9	1.8	2.2	2.3	2.5	2.4	2.3	3.0	3.0	2.8	3.1	3.1	3.2	2.9	3.4	3.4	3.4	3.5	3.4
(b) Kerosene	3.3	3.1	3.3	3.6	4.0	3.9	4.2	4.7	5.2	5.5	6.0	6.2	6.6	7.2	7.7	8.2	8.4	8.4	8.6
(c) High Speed Diesel	3.8	6.6	7.1	7.7	8.6	9.8	10.3	10.8	12.0	12.6	13.7	14.9	16.0	17.7	18.8	20.7	21.1	22.7	24.5
(d) Fuel Oils	4.7	5.8	5.7	5.8	6.7	7.1	7.5	7.2	7.3	7.6	7.9	7.9	8.0	8.1	8.5	8.8	9.0	9.2	9.3
2. Domestic Production of which	17.1	20.8	21.4	23.2	24.2	25.8	24.1	28.2	31.1	32.9	33.2	39.9	42.8	44.7	45.7	48.7	48.6	48.3	50.4
(a) Naphtha	1.2	1.9	2.0	2.1	2.3	2.4	2.1	3.0	3.0	3.6	3.5	5.0	5.4	5.5	5.4	5.2	4.9	4.5	4.8
(b) Kerosene	2.9	2.4	2.6	2.5	2.5	2.5	2.4	2.9	3.4	3.5	3.4	4.0	4.9	5.1	5.2	5.7	5.5	5.3	5.3
(c) High Speed Diesel	3.8	6.3	6.4	7.1	7.4	8.0	7.4	9.0	9.8	10.9	11.1	14.6	15.5	16.3	16.7	17.7	17.2	17.4	18.3
(d) Fuel Oils	4.1	5.1	4.7	5.3	5.6	6.4	6.1	6.9	8.0	8.0	7.9	8.0	8.0	8.5	8.9	9.0	9.4	9.6	10.4
3. Imports	1.1	2.2	2.6	2.9	3.9	4.7	7.3	4.9	5.0	4.3	6.1	3.9	3.1	3.9	6.3	6.5	8.7	9.4	11.3
4. Exports @@	0.3	0.2	0.1	0.1	0.1	0.1	Neg.	0.1	0.8	1.5	0.9	2.0	2.5	3.4	2.3	2.6	2.7	2.9	3.7
5. Net Imports (3-4)	0.8	2.0	2.5	2.8	3.8	4.6	7.3	4.8	4.2	2.8	5.2	1.9	0.6	0.5	4.0	3.9	6.0	6.5	7.6

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

(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)	6827.57	5533.55	12361.12	-	1041.13	1041.13	11319.99
1992(P)	10432.44	5711.16	16143.60	-	1658.38	1658.38	14485.22

* = 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	47754	44728	48938
1988-89	32040	48803	45699	52882
1989-90	34087	51942	48690	56779
1990-91	33021	51772	48562	57745
1991-92	30346	51423	48349	59603
1992-93 (P)	26950	53482	50359	61958

(Rs./Crores)

Financial Year	GROSS IMPORTS			EXPORTS/RE-EXPORTS			NET POL IMPORTS
	Crude Oil	Products	Total	Crude Oil	Products	Total	
	6	7	8	9	10	11	12
1960.61	39.23	39.84	79.07	--	4.40(e)	4.40	74.67
1965-66	39.62	40.68	80.30	--	4.39	4.39	75.91
1970-71	106.72	29.91	136.63	--	4.67	4.67	131.96
1971-72	147.02	46.98	193.90	--	3.91	3.91	189.99
1972-73	146.37	60.58	206.95	--	8.16	8.16	198.79
1973-74	416.39	124.50	540.89	0.42	8.05	8.47	532.42
1974-75	916.99	195.00	1111.99	--	17.46	17.46	1094.53
1975-76	1051.76	204.34	1256.10	--	13.96	13.96	1242.14
1976-77	1175.91	248.23	1424.14	--	6.89	6.89	1417.25
1977-78	1246.20	305.34	1551.54	--	5.69	5.69	1545.85
1978-79	1251.17	429.99	1681.16	--	4.11	4.11	1677.05
1979-80	2187.53	1082.39	3269.92	--	24.02	24.02	3245.90
1980-81	3348.97	1917.52	5266.49	--	8.41	8.41	5258.08
1981-82	3706.38	1453.16	5189.54	196.23	15.13	211.36	4978.18
1982-83	4043.74	1553.94	5597.68	1063.37	133.79	1197.16	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
1992-93(P)	10685.86	6359.60	17045.46	--	1606.28	1606.28	15439.18

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

VI. PETROLEUM ENERGY

PETROLEUM ENERGY IN INDIA 1984 - 1992 (Calendar Years)

PRODUCTS	AVAILABILITY						
	1984	1986	1988	1989	1990	1991	1992(P)
1	2	3	4	5	6	7	8
	IN ORIGINAL UNITS (MILLION TONNES)						
Kerosene	5.96	6.77	7.26	8.19	8.64	8.90	8.74
ATF	1.42	1.64	1.66	1.87	1.74	1.68	1.63
HSD	13.42	15.96	17.13	20.94	20.90	22.68	24.73
LDO	1.21	1.17	1.23	1.51	1.53	1.50	1.51
Fuel Oils	7.78	7.91	7.98	8.89	9.31	9.42	10.57
Others*	4.88	6.55	7.02	8.14	8.66	8.70	9.14
Total	**34.67**	**40.00**	**42.28**	**49.54**	**50.78**	**52.88**	**56.32**
	IN MILLION TONNES OF COAL EQUIVALENT UNITS @						
Kerosene	11.92	13.54	14.52	16.38	17.28	17.80	17.48
ATF	2.84	3.28	3.32	3.74	3.48	3.36	3.26
HSD	26.84	31.92	34.26	41.88	41.80	45.36	49.46
LDO	2.42	2.34	2.46	3.02	3.06	3.00	3.02
Fuel Oils	15.56	15.82	15.96	17.78	18.62	18.84	21.14
Others*	9.76	13.10	14.04	16.28	17.32	17.40	18.28
Total	**69.34**	**80.00**	**84.56**	**99.08**	**101.56**	**105.76**	**112.64**
	IN MILLION TONNES OF COAL REPLACEMENT UNITS @						
Kerosene	47.69	54.16	58.08	65.52	69.12	71.20	69.94
ATF	10.62	12.30	12.45	14.02	13.05	12.60	12.20
HSD	120.74	143.64	154.17	188.46	188.10	204.12	222.55
LDO	10.91	10.53	11.07	13.59	13.77	13.50	13.63
Fuel Oils	15.56	15.82	15.96	17.78	18.62	18.84	21.14
Others*	26.61	32.51	36.04	47.44	51.30	52.15	54.64
Total	**232.13**	**268.96**	**287.77**	**346.81**	**353.96**	**372.41**	**394.10**

PRODUCTS	CONSUMPTION(#)						
	1984	1986	1988	1989	1990	1991	1992 (P)
1	2	3	4	5	6	7	8
	IN ORIGINAL UNITS (MILLION TONNES)						
Kerosene	5.84	6.52	7.59	8.09	8.42	8.41	8.57
ATF	1.30	1.59	1.69	1.75	1.73	1.56	1.56
HSD	13.31	15.70	18.40	20.33	21.18	21.98	24.40
LDO	1.18	1.15	1.38	1.49	1.51	1.43	1.47
Fuel Oils	7.79	8.02	8.32	8.70	9.10	8.95	9.38
Others*	4.93	6.47	7.32	8.23	8.68	8.77	9.23
Total	**34.35**	**39.45**	**44.70**	**48.59**	**50.62**	**51.10**	**54.61**
	IN MILLION TONNES OF COAL EQUIVALENT UNITS @						
Kerosene	11.68	13.04	15.18	16.18	16.84	16.82	17.14
ATF	2.60	3.18	3.38	3.50	3.46	3.12	3.12
HSD	26.62	31.40	36.80	40.66	42.36	43.96	48.80
LDO	2.36	2.30	2.76	2.98	3.02	2.86	2.94
Fuel Oils	15.58	16.04	16.64	17.40	18.20	17.90	18.76
Others*	9.86	12.94	14.64	16.46	17.36	17.54	18.46
Total	**68.70**	**78.90**	**89.40**	**97.18**	**101.24**	**102.20**	**109.22**
	IN MILLION TONNES OF COAL REPLACEMENT UNITS @						
Kerosene	46.72	52.16	60.72	64.72	67.36	67.28	68.58
ATF	9.75	11.93	12.68	13.13	12.98	11.70	11.72
HSD	119.79	141.30	165.60	182.97	190.62	197.82	219.56
LDO	10.62	10.35	12.42	13.41	13.59	12.87	13.18
Fuel Oils	15.58	16.04	16.64	17.40	18.20	17.90	18.76
Others*	26.38	34.95	38.06	48.08	51.45	52.64	55.31
Total	**228.84**	**266.73**	**306.12**	**339.71**	**354.20**	**360.21**	**387.11**

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

PETROLEUM ENERGY IN INDIA : 1984-1985 TO 1992-93 (Financial Years)

AVAILABILITY

PRODUCTS	1984-85	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93
1	2	3	4	5	6	7	8	9
IN ORIGINAL UNITS (MILLION TONNES)								
Kerosene	5.93	6.76	7.29	7.95	8.30	8.81	8.71	8.75
ATF	1.41	1.64	1.74	1.79	1.84	1.83	1.56	1.64
HSD	13.59	16.13	17.54	19.00	20.79	21.87	22.73	25.45
LDO	1.25	1.16	1.26	1.47	1.54	1.51	1.48	1.45
Fuel Oils	7.89	7.91	7.86	9.31	9.17	9.43	9.64	10.40
Others*	5.15	6.59	7.14	7.82	8.26	8.75	8.75	9.15
Total	**35.22**	**40.19**	**42.83**	**47.34**	**49.90**	**52.20**	**52.87**	**56.84**
IN MILLION TONNES OF COAL EQUIVALENT UNITS @								
Kerosene	11.86	13.52	14.58	15.90	16.60	17.62	17.42	17.50
ATF	2.82	3.28	3.48	3.58	3.68	3.66	3.12	3.28
HSD	27.18	32.26	35.08	38.00	41.58	43.74	45.46	50.90
LDO	2.50	2.32	2.52	2.94	3.08	3.02	2.96	2.90
Fuel Oils	15.78	15.82	15.72	18.62	18.34	18.86	19.28	20.80
Others*	10.30	13.18	14.28	15.64	16.52	17.50	17.50	18.30
Total	**70.44**	**80.38**	**85.66**	**94.68**	**99.80**	**104.40**	**105.74**	**113.68**
IN MILLION TONNES OF COAL REPLACEMENT UNITS @								
Kerosene	47.44	54.08	58.32	63.60	66.40	70.48	69.68	70.00
ATF	10.58	12.30	13.05	13.43	13.80	13.72	11.70	12.30
HSD	122.31	145.17	157.86	171.00	187.11	196.83	204.57	229.05
LDO	11.25	10.44	11.34	13.23	13.86	13.59	13.32	13.05
Fuel Oils	15.78	15.82	15.72	18.62	18.34	18.86	19.28	20.80
Others*	27.95	33.11	36.86	40.35	48.33	51.93	52.54	54.94
Total	**235.31**	**270.92**	**293.15**	**320.23**	**347.84**	**365.41**	**371.09**	**400.14**

CONSUMPTION(#)

PRODUCTS	1984-85	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93
1	2	3	4	5	6	7	8	9
IN ORIGINAL UNITS (MILLION TONNES)								
Kerosene	5.96	6.65	7.23	7.73	7.38	8.42	8.38	8.58
ATF	1.34	1.60	1.65	1.71	1.78	1.68	1.56	1.59
HSD	13.70	16.01	17.66	18.80	20.69	21.14	22.68	24.45
LDO	1.20	1.16	1.24	1.44	1.46	1.51	1.46	1.41
Fuel Oils	7.94	8.05	8.14	8.46	8.64	8.99	9.20	9.28
Others*	5.07	6.62	7.14	7.80	8.42	8.68	8.85	9.24
Total	**35.21**	**40.09**	**43.06**	**45.94**	**48.37**	**50.42**	**52.13**	**54.55**
IN MILLION TONNES OF COAL EQUIVALENT UNITS @								
Kerosene	11.92	13.30	14.46	15.46	14.76	16.84	16.76	17.16
ATF	2.68	3.20	3.30	3.42	3.56	3.36	3.12	3.18
HSD	27.40	32.02	35.32	37.60	41.38	42.28	45.36	48.90
LDO	2.40	2.32	2.48	2.88	2.92	3.02	2.92	2.82
Fuel Oils	15.88	16.10	16.28	16.92	17.28	17.98	18.40	18.56
Others*	10.14	13.24	14.28	15.60	16.84	17.36	17.70	18.48
Total	**70.42**	**80.18**	**86.12**	**91.88**	**96.74**	**100.84**	**104.26**	**109.10**
IN MILLION TONNES OF COAL REPLACEMENT UNITS @								
Kerosene	47.67	53.20	57.84	61.84	59.04	67.36	67.04	68.64
ATF	10.02	12.00	12.38	12.83	13.35	12.60	11.70	11.92
HSD	123.26	144.09	158.94	169.20	186.21	190.26	204.12	220.05
LDO	10.78	10.44	11.16	12.96	13.14	13.59	13.14	12.69
Fuel Oils	15.88	16.10	16.28	16.92	17.28	17.98	18.40	18.56
Others*	27.82	38.02	39.85	40.56	43.78	51.41	53.26	55.60
Total	**234.93**	**271.85**	**296.45**	**314.31**	**332.80**	**353.20**	**367.66**	**387.46**

(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 1992-93

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
1992-93*	109	349	755	28	100	251	137	449	1006
(B) OIL INDIA LIMITED									
1970-71	4	12	48	--	--	--	4	12	48
1975-76	3	11	36	--	--	--	3	11	36
1980-81	4	9	33	1	1	4	5	10	37
1981-82	5	17	64	--	--	--	5	17	64
1982-83	5	14	60	--	--	--	5	14	60
1983-84	5	23	79	1	3	10	6	26	88
1984-85	7	25	86	1	2	10	8	27	96
1985-86	8	28	110	1	--	9	9	28	119
1986-87	10	26	103	2	2	17	12	28	120
1987-88	12	32	118	1	--	6	13	32	124
1988-89	13	33	128	--	--	--	13	33	128
1989-90	15	28	130	--	--	--	15	28	130
1990-91	13	27	112	--	--	--	13	27	112
1991-92	14	26	110	--	--	--	14	26	110
1992-93*	15	19	99	--	--	--	15	19	99
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
1992-93*	124	368	854	28	100	251	152	468	1105

* = Provisional.

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
1992-93*	172	413	196	441	368	854
			(B) OFFSHORE			
1970-71	--	1	--	--	--	1
1975-76	10	19	5	9	15	28
1980-81	15+ 1P	40	18	42	33+ 1P	82
1981-82	12	39	34	72	46	111
1982-83	17	57	47	105	64	162
1983-84	22+ 1P	70	68	149	90+ 1P	219
1984-85	20+ 1P	62	51	109	71+ 1P	171
1985-86	33+ 2P	100	44	89	77+ 2P	189
1986-87	44+ 3P	132	35	116	79+ 3P	248
1987-88	39+ 3P	111	52	161	91+ 3P	272
1988-89	63	167	83	114	146	281
1989-90	61	160	73	193	134	353
1990-91	73	184	66	92	139	276
1991-92	61	167	22	41	83	208
1992-93*	69	176	31	75	100	251
			TOTAL (A+ B)			
1970-71	52+ 1P	107	50+ 3P	112	101+ 3P	218
1975-76	59+ 1P	139	73+ 1P	154	132+ 2P	293
1980-81	59+ 2P	136	56+ 2P	113	115+ 4P	249
1981-82	64+ 2P	169	97+ 4P	217	161+ 6P	386
1982-83	74+ 3P	185	118+ 4P	261	192+ 7P	446
1983-84	83+ 4P	227	147+ 2P	330	230	557
1984-85	90+ 6P	248	133+ 1P	289	223+ 7P	537
1985-86	123+ 6P	337	172+ 7P	372	295+ 13P	709
1986-87	122+ 6P	368	215+ 8P	485	337+ 14P	853
1987-88	143+ 7P	418	251+ 8P	549	395+ 15P	967
1988-89	185	529	313	588	498	1117
1989-90	265	668	388	786	653	1454
1990-91	249	618	286	547	535	1165
1991-92	237	621	215	442	452	1063
1992-93*	241	589	227	516	468	1105

(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
1993	227	1	305	-	6	462	1001
			(B) OIL INDIA LIMITED				
1975	250	18	34	27	20	-	349
1980	273	26	40	48	34	-	421
1981	283	27	42	48	35	-	435
1985	321	42	49	35	50	31	528
1986	327	37	52	12	53	81	562
1987	344	41	56	21	59	74	595
1988	333	44	61	29	62	108	637
1989	337	49	63	38	62	124	673
1990	422	53	66	36	62	70	709
1991	362	59	70	51	44	161	747
1992	365	58	74	68	43	172	780
1993	397	56	81	64	45	166	809
			(C) OIL & NATURAL GAS COMMISSION				
1975	605	79	320	141	28	-	1173
1980	951	123	487	125	32	-	1718
1981	1008	133	508	137	38	-	1824
1985	1434	170	659	216	67	-	2546
1986	1642	190	740	164	80	-	2816
1987	1836	206	804	177	102	-	3125
1988	2024	219	896	20	125	204	3488
1989	2304	239	984	45	144	237	3953
1990	2579	302	1128	69	198	303	4579
1991	2873	330	1281	274	235	94	5087
1992	3007	324	1436	132	337	400	5636
1993	3138	355	1573	148	387	457	6058
			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
1993	3762	412	1959	212	438	1085	7868

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, 1993

(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	256[illegible]	-	-	-
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.

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

STATE-WISE ACHIEVEMENT OF GEOPHYSICAL FIELD PARTIES IN INDIA BY ONGC & OIL SINCE INCEPTION UPTO MARCH, 1993

(Provisional)

State	Departmental			Contrac		
	Line Kms.	SSKm. 3-D	SLK	Line Kms.	SLK	SKm 3-D
1	2	3	4	5	6	7
A. **ON SHORE**						
1. Andhra Pradesh	7108	120	47899	6079	-	-
2. Assam (Including Tripura, Mizoram, Arunachal Pradesh, Meghalaya and Nagaland)	14707	378	76254	275	2708	-
3. Gujarat	43202	1181	114077	11363	-	-
4. Bihar	2426	-	4704	-	-	-
5. Haryana	-	-	1536	-	-	-
6. Himachal Pradesh and Punjab	5400	-	3784	-	549	-
7. Tamil Nadu	9639	578	31775	9988	-	-
8. Jammu & Kashmir	1937	-	-	99	-	-
9. Orissa	1644	-	-	-	3814	-
10. Uttar Pradesh	12190	-	30441	-	1808	-
11. Rajasthan	3554	-	36337	4105	11923	-
12. West Bengal	16051	7	16313	2946	-	67
13. Madhya Pradesh	73	-	4811	-	-	-
Total Onshore (A)	**117931**	**2264**	**367931**	**34855**	**20802**	**67**
B. **OFF SHORE**						
1. Mahanadi/North-East Coast	-	-	-	-	13843	-
2. Andaman	-	-	-	-	157	-
3. Saurashtra	-	-	-	-	8667	-
4. Bombay High	324565	-	-	149085	-	-
Total Offshore (B)	**324565**	**-**	**-**	**149085**	**22667**	**-**
GRAND TOTAL (A + B)	**442496**	**2264**	**367931**	**183940**	**43469**	**67**

SLK: Standard Line Kilometres SKm : Square Kilometre SSKm : Standard Square Kilometre

STATE-WISE ACHIEVEMENT OF DRILLING BY ONGC/OIL SINCE INCEPTION UPTO MARCH, 1993

Sl. No.	State	Drilling achievement since inception	
		Wells (Nos)	Metreage ('000 M)
	1	2	3
A.	**ONLAND**		
1.	Andhra Pradesh (Including Kerala)	128	427.69
2.	Assam, Andaman & Nicobar (Including Tripura, Mizoram, Meghalaya, West Bengal, Nagaland and Arunachal Pradesh)	1815	5915.04
3.	Gujarat (Including Kutch, Maharashtra and Madhya Pradesh)	3262	5408.78
4.	Bihar	6	29.82
5.	Himachal Pradesh & Punjab	14	53.90
6.	Tamil Nadu and Pondichery	176	468.20
7.	Jammu & Kashmir	4	12.02
8.	Orissa	4	8.70
9.	Uttar Pradesh	7	22.58
10.	Rajasthan	67	136.39
	Total Onland (A)	**5483**	**12483.12**
B.	**OFFSHORE**		
1.	West Coast	1143	2611.59
2.	Mahanadi/North East Coast/East Coast	142	462.85
3.	Andaman	3	14.68
	Total Offshore	**1288**	**3089.12**
	GRAND TOTAL (A+ B)	**6771**	**15572.24**

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
1993	155.09	158.16*	-	313.25	465.81	779.06

@ 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 upto the year 1992 and from 1993 relates to 1st April.

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
1992	-	2486	8779	11265	16609	27874	474648

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

* Provisional.

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

STATE-WISE PRODUCTION OF CRUDE OIL IN INDIA

('000' Tonnes)

YEAR	ON SHORE					OFF SHORE	
	Arunachal Pradesh	Tamil Nadu/ Andhra Pradesh	Assam/ Nagaland	Gujarat	Total	Bombay High	Grand Total
1	2	3	4	5	6	7	8
CALENDAR YEARS							
1970	-	-	3359	3450	6809	-	6809
1971	-	-	3542	3643	7185	-	7185
1972	-	-	3653	3720	7373	-	7373
1973	-	-	3594	3604	7198	-	7198
1974	-	-	3735	3755	7490	-	7490
1975	-	-	4189	4094	8283	-	8283
1976	-	-	4267	4164	8431	228	8659
1977	-	-	4510	4237	8747	1438	10185
1978	-	-	4076	4227	8303	2968	11271
1979	-	-	4563	3869	8432	4407	12839
1980	2	-	1056	3812	4870	4529	9399
1981	2	-	4373	3544	7919	7006	14925
1982	1	-	5124	3142	8267	11467	19734
1983	25	-	4901	3469	8395	16753	25148
1984	42	-	4939	3802	8783	19150	27933
1985	60	-	4879	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
1992 *	55	331	4964	5915	11265	16609	27874
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
1992-93 *	59	352	4986	5807	11204	15746	26950

* 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
1993	92.87	156.13*	3.82	252.82	465.13	717.95

@ : 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 upto the year 1992 and from 1993 relates to 1st April.

STATE-WISE GROSS PRODUCTION OF NATURAL GAS IN INDIA

(Million Cubic Metres)

YEAR	ON SHORE					OFF SHORE	GRAND
	Gujarat	Assam/ Nagaland	Arunachal Pradesh	Tripura/ T. Nadu & Andhra Pradesh	Total	Bombay High	TOTAL
1	2	3	4	5	6	7	8
CALENDAR YEARS							
1970	458	996	-	-	1424	-	1424
1971	516	993	-	-	1509	-	1509
1972	533	1031	-	-	1564	-	1564
1973	519	1155	-	-	1674	-	1674
1974	590	1328	-	-	1918	-	1918
1975	760	1550	-	-	2310	-	2310
1976	815	1595	-	-	2410	28	2438
1977	888	1677	-	-	2565	161	2726
1978	903	1527	-	-	2430	340	2770
1979	843	1709	-	-	2552	532	3084
1980	868	621	-	-	1489	588	2077
1981	761	1605	-	-	2366	1120	3486
1982	741	1855	-	-	2596	2065	4661
1983	760	1903	1	-	2664	3104	5768
1984	758	2027	1	-	2786	4034	6820
1985	884	2049	4	-	2937	4971	7908
1986	980	2105	12	17	3114	6350	9464
1987	940	2149	13	33	3135	7771	10906
1988	1183	2150	17	53	3403	9381	12784
1989	1559	2172	21	77	3829	12097	15926
1990	1645	2014	27	158	3844	14146	17990
1991	1855	2062	31	251	4199	14450	18649
1992*	1957	2054	49	563	4623	13749	18372
FINANCIAL YEARS							
1970-71	465	980	-	-	1445	-	1445
1971-72	523	1012	-	-	1535	-	1535
1972-73	531	1034	-	-	1565	-	1565
1973-74	518	1195	-	-	1713	-	1713
1974-75	653	1388	-	-	2041	-	2041
1975-76	773	1595	-	-	2368	-	2368
1976-77	822	1558	-	-	2380	48	2428
1977-78	893	1717	-	-	2610	229	2839
1978-79	908	1518	-	-	2426	386	2812
1979-80	840	1385	-	-	2225	542	2767
1980-81	842	843	-	-	1685	673	2358
1981-82	758	1748	-	-	2506	1345	3851
1982-83	750	1829	-	-	2579	2357	4936
1983-84	748	1954	Neg.	-	2702	3259	5961
1984-85	775	2056	2	-	2833	4408	7241
1985-86	919	2029	6	-	2954	5180	8134
1986-87	971	2142	13	22	3148	6705	9853
1987-88	1005	2147	13	43	3208	8259	11467
1988-89	1258	2160	18	50	3486	9731	13217
1989-90	1613	2159	23	106	3901	13087	16988
1990-91	1696	2011	29	180	3916	14082	17998
1991-92	1898	2051	31	271	4251	14394	18645
1992-93*	1946	2034	52	676	4708	13352	18060

* = Provisional.

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

(Mn. Cubic Metres)

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

$: Includes Nagaland and Arunachal Pradesh.

* : Provisional

Contd.....

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

(Mn. Cubic Metres)

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

* : Provisional

Contd.....

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	-	-	-	-
1975-76	-	-	-	-
1976-77	48	-	48	-
1980-81	673	-	366	307
1981-82	1345	-	674	671
1982-83	2357	-	957	1400
1983-84	3259	-	1425	1834
1984-85	4408	-	1893	2515
1985-86	5180	-	2113	3067
1986-87	6705	-	1663	5042
1987-88	8259	-	2439	5820
1988-89	9731	-	2787	6944
1989-90	13087	-	4502	8585
1990-91	14082	-	4047	10035
1991-92	14394	-	3016	11378
1992-93*	13352	-	899	12453
		GRAND TOTAL		
1970-71	1445	36	762	647
1975-76	2368	162	1082	1124
1976-77	2428	190	857	1381
1980-81	2358	67	769	1522
1981-82	3851	110	1519	2222
1982-83	4936	91	1888	2957
1983-84	5961	45	2517	3399
1984-85	7241	48	3052	4141
1985-86	8134	66	3118	4950
1986-87	9853	63	2718	7072
1987-88	11467	54	3445	7968
1988-89	13217	84	3883	9250
1989-90	16988	96	5720	11172
1990-91	17998	102	5130	12766
1991-92	18645	132	4072	14441
1992-93*	18060	90	1854	16116

* Provisional

STATE-WISE UTILISATION OF NATURAL GAS IN INDIA

(Mn. Cubic Metres)

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

* : Provisional

** : Includes Nagaland and Arunachal Pradesh.

INDUSTRY-WISE OFFTAKES OF NATURAL GAS IN INDIA

(Million Cubic Metres)

YEAR	Energy Purpose						Non Energy Purpose				Grand Total
	Power Generation	Industrial Fuel	Tea plantation	Domestic Fuel	Captive Use/LPG Shrinkage	Total	Fertilizer	Petro-Chemicals	Others	Total	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
1970-71	261	116	15	-	68	460	187	-	-	187	647
1971-72	313	129	19	-	61	522	196	-	-	196	718
1972-73	339	148	20	Neg.	63	570	201	-	-	201	771
1973-74	323	157	22	Neg.	81	583	179	-	-	179	762
1974-75	354	164	29	6	80	633	318	-	-	318	951
1975-76	366	143	33	13	104	659	463	-	2	465	1124
1976-77	344	155	38	15	142	694	663	-	24	687	1381
1977-78	372	165	39	13	171	760	673	9	22	704	1464
1978-79	560	175	43	13	176	967	721	5	18	744	1711
1979-80	514	156	39	13	174	896	755	7	18	780	1676
1980-81	492	163	45	14	176	890	611	5	16	632	1522
1981-82	612	166	47	15	364	1204	991	8	19	1018	2222
1982-83	1025	185	51	14	499	1774	1155	7	21	1183	2957
1983-84	1209	230	56	16	572	2083	1283	10	23	1316	3399
1984-85	1454	250	62	18	721	2505	1603	10	23	1636	4141
1985-86	1299	223	78	21	795	2416	2500	10	24	2534	4950
1986-87	2041	257	93	25	1295	3711	3335	-	26	3361	7072
1987-88	2721	281	99	34	1313	4448	3490	-	30	3520	7968
1988-89	1823	526	87	42	1329	3807	5334	21	88	5443	9250
1989-90	2140	695	78	41	1526	4480	6578	29	85	6692	11172
1990-91	3634	827	89	50	1775	6375	5612	409	370	6391	12766
1991-92	4774	766	108	72	2165	7885	5509	531	516	6556	14441
1992-93*	4967	1025	106	187	2340	8625	6672	578	241	7491	16116

* = Provisional Neg. = Negligible

X. REFINING

Petroleum Refining Capacity in India as on 1.4.1993

(Million Tonnes Per Annum)

Refinery		Year of Commissioning	Installed Capacity as on 1.4.1993	Capacity after expansion under consideration/Implementation	Likely date of Commissioning
1.		2.	3.	4.	5.
	A. Refineries in Operation:				
1.	IOC, Digboi	1901	0.50		
2.	BPCL,Bombay	1955	6.00		
3.	HPCL,Bombay	1954	5.50		
4.	HPCL, Visakh	1957	4.50		
5.	IOC, Guwahati	1962	0.85		
6.	IOC, Barauni	1964	3.30		
7.	IOC, Koyali	1965	9.50		
8.	IOC, Haldia	1974	2.75		
9.	IOC, Mathura	1982	7.50		
10.	CRL, Cochin	1966	4.50		
11.	MRL, Madras	1969	6.50		
12.	BR & PL, Assam	1979	1.35		
	Total		**52.75**		
	B. Refineries Under Expansion				
1.	IOC, Digboi		0.50	0.65	
2.	IOC, Guwahati		0.85	1.00	These projects
3.	IOC, Barauni		3.30	3.80	are still in the various
4.	IOC, Koyali		9.50	12.50	stages of approval/
5.	CRL, Cochin		4.50	7.50	Implementation.
6.	BR & PL, Assam		1.35	2.35	
	C. Refinery Projects under Implementation				
1.	Cauvery			0.50	
2.	Panipat			6.00	8th Plan
3.	HPCL (Mangalore)			3.00	
4.	Assam (Numaligarh)			3.00	
	TOTAL			**12.50**	

REFINERY CRUDE THROUGHPUT AND PRODUCTION OF PETROLEUM PRODUCTS 1961 TO 1992

('000' Tonnes)

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

(P) = Provisional

REFINERY CRUDE THROUGHPUT AND PRODUCTION OF PETROLEUM PRODUCTS 1961-62 TO 1992-93

('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	51423	-	51423	48349	-	48349
1992-93	53482	-	53482	50359	-	50359

REFINERY-WISE CRUDE RUN AND TOTAL PRODUCTION OF POL PRODUCTS 1970-71 TO 1992-93

('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
1992-93 :						
Total Production	523	6875	5619	4274	749	2097
Crude Run	547	7233	5849	4527	815	2287

REFINERY-WISE CRUDE RUN AND TOTAL PRODUCTION OF POL PRODUCTS 1970-71 TO 1992-93

('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
1992-93 :							
Total Production	9258	2810	7430	4853	4927	944	50359
Crude Run	9780	3040	7843	5122	5323	1116	53482

* Provisional

TRENDS IN DOMESTIC PRODUCTION OF PETROLEUM PRODUCTS DURING THE PERIOD 1980-81 TO 1992-93

(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	1992-93
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. Light Distillates:	**4101**	**5138**	**5313**	**6134**	**6315**	**8253**	**9069**	**9245**	**9451**	**10021**	**10023**	**9673**	**9966**
of which													
LPG*	366	410	406	514	596	867	995	1026	1034	1179	1221	1250	1293
Mogas	1519	1614	1797	1937	2144	2306	2515	2662	2822	3328	3552	3420	3451
Naphtha	2115	3004	2986	3578	3470	4955	5437	5462	5378	5227	4859	4546	4844
2. Middle Distillates:	**12115**	**14134**	**15625**	**16873**	**17226**	**21613**	**23324**	**24563**	**25362**	**26867**	**26344**	**26371**	**27004**
of which													
Kerosene	2396	2907	3393	3528	3364	4030	4912	5104	5201	5700	5471	5339	5290
ATF	1001	1009	1137	1195	1297	1519	1553	1695	1753	1575	1801	1539	1636
HSD	7371	9042	9761	10862	11086	14624	15450	16296	16656	17737	17185	17404	18289
LDO	1108	949	1121	1081	1253	1177	1172	1259	1468	1540	1509	1482	1453
3. Heavy Ends	**7907**	**8910**	**10135**	**9919**	**9694**	**10015**	**10368**	**10870**	**10886**	**11802**	**12195**	**12305**	**13389**
of which													
F.O.	4041	4015	4829	4588	4095	3791	3865	4563	4243	4543	4879	5430	6359
LSHS/HHS/RFO	2079	2893	3135	3412	3791	4164	4146	3903	4614	4409	4550	4207	4044
Total Fuel Oils	6120	6908	7964	8000	7886	7955	8011	8466	8857	8952	9429	9637	10403
Lube Oils	426	407	434	470	414	501	491	478	497	547	561	390	533
Bitumen	1082	1298	1397	1069	944	1107	1224	1370	1548	1671	1603	1710	1862
Petroleum Coke	86	141	149	136	181	192	264	257	275	275	229	216	221
Paraffin wax											49	44	47
Other Waxes											46	46	51
TOTAL PRODUCTION :	**24123**	**28182**	**31073**	**32926**	**33236**	**39881**	**42761**	**44728**	**45699**	**48690**	**48562**	**48349**	**50359**
Crude Throughput	**25836**	**30146**	**33156**	**35263**	**35556**	**42910**	**45699**	**47754**	**48803**	**51942**	**51772**	**51423**	**53482**
LPG Production from Natural Gas	-	73	169	223	277	363	494	558	726	769	929	1235	1323
NGL PRODN.	-	-	25	50	58	83	186	264	414	589	606	992	1245

* Excludes LPG production from Natural Gas.

PRODUCTION OF PETROLEUM PRODUCTS 1987 TO 1992

('000' Tonnes)

PRODUCT	PRODUCTION						% Variation	
	1987	1988	1989	1990	1991	1992 (P)	1991 1990	1992 1991
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
(a) From Crude Oil:								
1. Light Distillates :	**9318**	**9285**	**10086**	**9846**	**9544**	**10171**	**-3.1**	**+ 6.6**
Of which								
L.P. Gas	1021	1010	1163	1215	1229	1313	+ 1.2	+ 6.8
Mogas	2789	2700	3242	3536	3453	3404	-2.3	-1.4
Naphtha	5574	5361	5422	4730	4423	5028	-6.5	+ 13.7
SBPS/Hexane	48	74	85	122	133	135	+ 9.0	+ 1.5
2. Middle Distillates:	**24332**	**24951**	**26949**	**26503**	**26295**	**27354**	**-0.8**	**+ 4.0**
Of which								
Kerosene	5113	5116	5507	5686	5270	5397	- 7.3	+ 2.4
ATF/Jet A-1	1647	1756	1654	1649	1656	1626	+ 0.4	-1.8
H.S.D.	16106	16399	17979	17121	17259	18482	+ 0.8	+ 7.1
L.D.O.	1242	1424	1512	1525	1499	1514	- 1.7	+ 1.0
J.B.O.	63	61	77	80	83	68	+ 3.8	-18.1
M.T.O.	110	110	130	136	148	132	+ 8.8	-10.8
3. Heavy Ends:	**10933**	**10494**	**11689**	**12053**	**12076**	**13516**	**+ 0.2**	**+ 11.9**
Of which								
F.O.	4659	4155	4491	4856	4982	652	+ 2.6	+ 31.0
LSHS/HHS/RFO	3957	3689	4395	4454	4434	4051	-0.4	-8.6
Total Fuel Oils	8616	7844	8886	9310	9416	10575	+ 1.1	+ 12.3
Lube Oils	507	577	556	548	410	503	-25.2	+ 22.7
Bitumen	1351	1556	1595	1598	1676	1836	+ 4.9	+ 9.5
Pet. Coke*	267	272	277	246	229	223	-6.9	-2.6
Paraffin wax				49	45	47	-8.2	+ 4.4
Other waxes				44	44	56	0.0	+ 27.3
Total waxes	75	85	95	93	89	103	-4.3	+ 15.7
4. Total Production	**44583**	**44730**	**48724**	**48402**	**47916**	**51041**	**-1.0**	**+ 6.5**
5. Crude Run	**47445**	**47896**	**51974**	**51671**	**50954**	**54254**	**-1.4**	**+ 6.5**
(b) From Natural Gas:								
6. L.P.G.	542	706	764	860	1173	1312	+ 36.4	+ 11.8
7. N.G.L.	236	386	518	621	940	1009	+ 51.4	+ 7.3

* Includes Calcined pet. Coke

PATTERN OF REFINERY PRODUCTION (Percentages)

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

(P) = Provisional

PRODUCTION OF PETROLEUM PRODUCTS-1987-88 TO 1992-93(P)

('000'Tonnes)

PRODUCT	PRODUCTION						% Variation	
	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93(P)	1991-92 / 1990-91	1992-93 / 1991-92
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
(a) From Cride Oil								
1. Light Distillates:	**9245**	**9451**	**10021**	**10023**	**9673**	**9966**	**–3.5**	**+ 3.0**
of which								
L.P. Gas	1026	1034	1179	1221	1250	1293	+ 2.4	+ 3.4
Mogas	2662	2822	3328	3552	3420	3451	–3.7	+ 0.9
Naphtha	5462	5378	5227	4859	4546	4844	–6.4	+ 6.6
SBPS/Hexane	74	72	96	125	135	129	+ 8.0	–4.4
2. Middle Distillates:	**24563**	**25362**	**26867**	**26344**	**26371**	**27004**	**+ 0.1**	**+ 2.4**
of which								
Kerosene	5104	5201	5700	5471	5339	5290	–2.4	–0.9
ATF/Jet A-1	1695	1753	1575	1801	1539	1636	–14.5	+ 6.3
H.S.D.	16296	16656	17737	17185	17404	18289	+ 1.3	+ 5.1
L.D.O.	1259	1468	1540	1509	1482	1453	–1.8	–2.0
J.B.O.	63	72	74	82	82	72	0.0	–12.2
M.T.O.	109	115	128	146	143	133	–2.1	–7.0
3. Heavy Ends :	**10870**	**10886**	**11802**	**12195**	**12305**	**13389**	**+ 0.9**	**+ 8.8**
of which								
F.O.	4563	4243	4543	4879	5430	6358	+ 11.3	+ 17.1
LSHS/HHS/RFO	3903	3928	4409	4550	4207	4044	–7.5	–3.9
Total Fuel Oils	8466	8171	8952	9429	9637	10402	+ 2.2	+ 7.9
Lube Oils	478	497	547	561	390	533	–30.5	+ 36.7
Bitumen	1370	1548	1671	1603	1710	1862	+ 6.7	+ 8.9
Pet. Coke*	257	275	275	229	216	221	–5.7	+ 2.3
Paraffin wax				49	44	47	–10.2	+ 6.8
Other waxes				46	46	51	0.0	+ 10.9
Total waxes	75	88	95	95	90	98	–5.3	+ 8.9
4. Total Production	**44728**	**45699**	**48690**	**48562**	**48349**	**50359**	**–0.4**	**+ 4.2**
5. Crude Run	**47754**	**48803**	**51942**	**51772**	**51423**	**53483**	**–0.7**	**+ 4.0**
(b) From Natural Gas								
6. L.P.G.	558	726	769	929	1235	1323	+ 32.9	+ 7.1
7. N.G.L.	264	414	589	606	992	1245	+ 63.7	+ 25.5

(P) = Provisional. * Includes Calcined pet. Coke

PATTERN OF REFINERY PRODUCTION

(Percentages)

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

(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	58462	+ 0.9	1991-92	59603	+ 3.2
1992(P)	62092	+ 6.2	1992-93 (P)	61958	+ 4.0

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 1980-81 TO 1992-93(P)

('000' Tonnes)

PRODUCT	1980 -81	1981 -82	1982 -83	1983 -84	1984 -85	1985 -86	1986 -87	1987 -88	1988 -89	1989 -90	1990 -91	1991 -92	1992 -93 (P)	% Share of the total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1. LIGHT DISTILLATES:	**4388**	**5187**	**5420**	**5600**	**6318**	**6776**	**7412**	**7547**	**8619**	**9412**	**9801**	**10115**	**10309**	**16.6**
of which:														
LPG	405	492	601	746	953	1241	1497	1686	1962	2268	2415	2650	2873	4.6
Mogas	1522	1599	1722	1891	2084	2275	2505	2810	3052	3491	3545	3573	3615	5.8
Naphtha	2325	2963	2958	2804	3125	3106	3249	2852	3364	3350	3446	3461	3382	5.5
2. MIDDLE DISTILLATES:	**17056**	**17919**	**19660**	**20651**	**22429**	**23948**	**25656**	**28005**	**29955**	**32484**	**33106**	**34404**	**36439**	**58.8**
of which:														
Kerosene	4228	4693	5214	5524	5959	6229	6645	7231	7731	8239	8423	8377	8585	13.9
ATF/JetA-1	1125	1128	1145	1208	1336	1453	1603	1654	1713	1775	1677	1559	1586	2.6
HSD	10345	10832	12013	12600	13696	14886	16009	17657	18795	20706	21139	22680	24451	39.5
LDO	1122	1036	1067	1097	1198	1123	1156	1245	1437	1486	1506	1462	1408	2.3
3. HEAVY ENDS:	**9452**	**9417**	**9577**	**9590**	**10048**	**10148**	**10594**	**10864**	**11518**	**12199**	**12128**	**12455**	**12457**	**20.1**
FO/TDO	5406	4306	4208	4207	4256	3806	3793	4191	4605	4490	4462	4937	5286	8.5
LSHS/HHS	2067	2878	3093	3351	3688	4094	4254	3953	3851	4330	4524	4265	3994	6.4
Total Fuel Oils	7473	7184	7301	7558	7944	7900	8047	8144	8456	8820	8986	9202	9280	15.0
Lube Oils	570	567	577	590	634	658	721	756	811	888	857	895	811	1.3
Greases	23	25	28	27	30	42	34	35	36	38	35	37	35	0.1
Lubes & Greases (Total)	593	592	605	617	664	700	755	791	847	926	892	932	846	1.4
Bitumen	1064	1292	1379	1050	935	1126	1309	1379	1498	1695	1581	1706	1826	2.9
Petroleum Coke	137	174	103	114	234	163	208	246	316	383	290	266	152	0.2
Paraffin wax											70	69	71	0.1
Other waxes											47	45	50	0.1
Other Misc	185	175	189	251	271	259	275	304	401	375	262	235	232	0.4
Total (1+2+3)	**30896**	**32523**	**34657**	**35841**	**38795**	**40872**	**43662**	**46416**	**50092**	**54095**	**55035**	**56974**	**59205**	**95.5**
Refinery Fuel	**1365**	**1584**	**1738**	**1935**	**2033**	**2491**	**2612**	**2522**	**2790**	**2684**	**2710**	**2629**	**2753**	**4.5**
GRAND TOTAL	**32261**	**34107**	**36395**	**37776**	**40828**	**43363**	**46274**	**48938**	**52882**	**56779**	**57745**	**59603**	**61958**	**100.0**

P : Provisional

PRODUCT-WISE SALES/CONSUMPTION OF PETROLEUM PRODUCTS DURING THE YEARS 1985 TO 1992

(Qty. '000' Tonnes)

	PRODUCT	1985	1986	1987	1988	1989	1990	1991	1992	% change 1992/1991
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
1.	**Light Distillates:**	**6683**	**7213**	**7415**	**8286**	**9259**	**9750**	**10005**	**10288**	**2.8**
	L.P. Gas	1175	1431	1629	1887	2181	2396	2565	2848	11.0
	Mogas	2247	2428	2735	2974	3370	3583	3587	3592	0.1
	Naphtha	3107	3194	2875	3258	3421	3397	3418	3380	(-)1.1
	SBP/Haxane	54	62	65	75	105	127	141	157	11.3
	Others	100	98	111	92	181	247	294	311	5.8
2.	**Middle Distillates:**	**21855**	**23714**	**25208**	**27318**	**31926**	**33201**	**33715**	**36370**	**7.9**
	Kerosene	6168	6522	7088	7595	8089	8423	8412	8573	1.9
	ATF/Jet A-1	1431	1588	1627	1691	1752	1734	1563	1562	(-)0.1
	HSD	14713	15703	17165	18325	20329	21176	21976	24396	11.0
	LDO/MDO	1145	1149	1220	1379	1491	1512	1432	1464	2.2
	JBO	81	75	62	65	74	83	83	70	-15.7
	MTO	100	101	103	107	118	133	136	131	(-)3.7
	Others	76	70	53	54	73	140	113	174	54.0
3.	**Heavy Ends:**	**10186**	**10456**	**10811**	**11352**	**11938**	**12286**	**12121**	**12641**	**4.3**
	F.O./TDO	3933	3761	4024	4696	4353	4672	4535	5402	19.1
	LSHS/HHS	4022	4255	4126	3664	4347	4424	4415	3980	(-)9.9
	Fuel Oils (total)	7955	8016	8150	8360	8700	9096	8950	9382	4.8
	Lubes & Greases	696	736	794	832	884	904	877	888	1.3
	Bitumen/Asphalt	1103	1216	1357	1512	1597	1609	1662	1831	10.2
	Pet.Coke	180	199	212	280	369	309	281	182	(-)35.2
	Wax	75	86	78	84	110	120	111	122	9.9
	Others	177	203	222	284	278	248	240	236	(-)1.7
Total (1+ 2+ 3)		**40583**	**42877**	**45544**	**48854**	**53123**	**55237**	**55841**	**59299**	**6.2**
Refinery Fuel@		2390	2606	2504	2454	2678	2706	2621	2793	5.8
GRAND TOTAL:		**42973**	**45483**	**48048**	**51308**	**55801**	**57943**	**58462**	**62092**	**6.2**

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

PRODUCT-WISE SALES/CONSUMPTION OF PETROLEUM PRODUCTS DURING THE YEARS 1986-87 TO 1992-93(P)

(Qty. '000' Tonnes)

	PRODUCT	1986 -87	1987 -88	1988 -89	1989 90	1990 -91	1991 -92	1992 -93 (P)	% change 1992-93 1991-92
	1.	2.	3.	4.	5.	6.	7.	8.	9.
1.	**Light Distillates:**	**7412**	**7547**	**8619**	**9412**	**9801**	**10115**	**10309**	**1.9**
	L.P. Gas	1497	1686	1962	2268	2415	2650	2873	8.4
	Mogas	2505	2810	3052	3491	3545	3573	3615	1.2
	Naphtha	3249	2852	3364	3350	3446	3461	3382	(–) 2.3
	SBP/Haxane	64	66	86	112	134	142	155	9.2
	Others	97	128	155	191	261	289	284	(–) 1.7
2.	**Middle Distillates:**	**25656**	**28005**	**29955**	**32484**	**33106**	**34404**	**36439**	**5.9**
	Kerosene	6645	7231	7731	8239	8423	8377	8585	2.5
	ATF/Jet A-1	1603	1654	1713	1775	1677	1559	1586	1.7
	HSD	16009	17657	18795	20706	21139	22680	24451	7.8
	LDO/MDO	1156	1245	1437	1486	1506	1462	1408	(–) 3.7
	JBO	70	62	72	77	82	75	77	2.7
	MTO	102	104	110	118	140	136	124	(–) 8.8
	Others	71	52	97	83	139	115	208	80.9
3.	**Heavy Ends:**	**10594**	**10864**	**11518**	**12199**	**12128**	**12455**	**12457**	**Neg.**
	F.O./TDO	3793	4191	4605	4490	4462	4937	5286	7.1
	LSHS/HHS	4254	3953	3851	4330	4524	4265	3994	(–) 6.4
	Fuel Oils (total)	8047	8144	8456	8820	8986	9202	9280	0.8
	Lubes & Greases	755	791	847	926	892	932	846	(–) 9.2
	Bitumen/Asphalt	1309	1379	1498	1695	1581	1706	1826	7.0
	Pet.Coke	208	246	316	383	290	266	152	(–) 42.9
	Wax	82	81	106	116	117	114	121	6.1
	Others	193	223	295	259	262	235	232	(–) 1.3
	Total (1+ 2+ 3)	**43662**	**46416**	**50092**	**54095**	**55035**	**56974**	**59205**	**3.9**
	Refinery Fuel@	2612	2522	2790	2684	2710	2629	2753	5.3
	GRAND TOTAL:	**46274**	**48938**	**52882**	**56779**	**57745**	**59603**	**61958**	**4.0**

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

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 1992-93(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	S/C	32362	10688	11047		2498	379	56974
	%	56.8	18.8	19.4		4.4	0.6	100
1992-93	S/C	33235	11378	11511		2689	392	59205
	%	56.1	19.2	19.5		4.5	0.7	100

S/C = Sales / Consumption E = Estimated P = Provisional.

@ = Included under ESSO/HPCL from 1980-81 onwards. Source : M16 for the year 1992-93

DELIVERIES* MADE TO INTERNATIONAL/COASTAL BUNKERS DURING THE YEARS 1980-81 TO 1992-93

(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	1992 -93 (P)
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
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	73.8	78.7
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	12.9	14.3
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	29.4	27.7
TOTAL	**214.5**	**136.2**	**141.2**	**199.7**	**203.9**	**105.9**	**150.3**	**221.8**	**147.7**	**187.8**	**150.5**	**116.1**	**120.7**
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	194.3	182.9
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	111.2
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	34.7	39.8
TOTAL	**204.3**	**247.8**	**301.0**	**275.4**	**278.9**	**305.9**	**367.2**	**372.6**	**372.6**	**367.1**	**371.7**	**351.3**	**333.9**
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	268.1	261.6
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	135.2	125.5
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	64.1	67.5
TOTAL	**418.8**	**384.0**	**442.2**	**475.1**	**482.8**	**411.8**	**517.5**	**594.4**	**520.3**	**554.9**	**522.2**	**467.4**	**454.6**

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

STATE-WISE CONSUMPTION OF MAJOR PETROLEUM PRODUCTS DURING 1992-93 (Provisional)
(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
A. STATES												
1. Andhra Pradesh	60	213	225	582	35	2109	32	169	100	51	175	3751
2. Arunachal Pradesh	-	2	10	13	2	44	Neg.	-	-	2	2	75
3. Assam	22	45	53	253	43	337	5	68	40	7	59	932
4. Bihar	119	86	155	578	27	1530	176	433	87	49	149	3389
5. Goa	257	14	25	27	29	126	9	134	9	4	25	659
6. Gujarat	579	258	276	779	35	1559	270	273	1521	43	391	5984
7. Haryana	-	88	116	153	24	945	31	271	140	20	69	1857
8. Himachal Pradesh	-	14	23	37	-	122	2	5	6	3	11	223
9. Jammu & Kashmir	-	24	36	96	10	167	6	2	1	4	15	361
10. Karnataka	99	135	232	452	59	1275	21	262	33	34	98	2700
11. Kerala	133	91	144	266	33	803	10	149	170	24	200	2023
12. Madhya Pradesh	-	141	164	377	18	1384	21	293	62	42	158	2660
13. Maharashtra	632	521	557	1506	520	2803	347	1111	1111	159	518	9785
14. Meghalaya	-	4	15	16	-	75	1	-	-	2	4	117
15. Manipur	-	5	9	21	2	23	-	-	-	1	10	71
16. Mizoram	-	3	5	7	-	15	-	-	-	Neg.	2	32
17. Nagaland	-	3	11	11	1	22	Neg.	Neg.	-	1	5	54
18. Orissa	108	25	56	156	13	504	14	273	15	17	59	1240
19. Punjab	57	118	219	328	62	1314	42	569	183	27	134	3053
20. Rajasthan	171	106	136	268	45	1487	40	69	120	27	126	2595
21. Sikkim	-	1	3	6	Neg.	6	Neg.	2	-	Neg.	2	20
22. Tamil Nadu	472	238	244	662	60	2144	51	691	179	62	292	5095
23. Tripura	-	3	6	22	2	31	Neg.	Neg.	-	1	6	71
24. Uttar Pradesh	603	322	340	928	59	3187	119	179	162	65	288	6252
25. West Bengal	70	148	142	750	101	1424	155	237	28	56	262	3373

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
TOTAL (A)	**3382**	**2608**	**3202**	**8294**	**1173**	**23436**	**1352**	**5190**	**3967**	**701**	**3067**	**56372**
B. UNION TERRITORIES :												
1. Andaman & Nikobar	-	1	2	4	4	37	-	-	-	1	Neg.	49
2. Chandigarh	Neg.	16	33	21	23	40	2	5	5	2	28	175
3. Dadra & Nagar Haveli	-	Neg.	2	4	-	13	4	1	1	Neg.	Neg.	25
4. Daman & Diu	-	1	2	5	-	5	Neg.	1	-	Neg.	1	15
5. Delhi	-	239	363	237	378	810	41	70	21	46	87	2292
6. Lakshadweep	-	-	-	Neg.	-	4	-	-	-	Neg.	-	4
7. Pondicherry	-	7	9	14	-	95	5	16	-	1	4	151
TOTAL (B)	**-**	**264**	**411**	**285**	**405**	**1004**	**52**	**93**	**27**	**50**	**120**	**2711**
C. OUTSIDE TERRITORIES												
1. Bhutan	-	1	2	6	1	11	Neg.	3	-	Neg.	3	27
TOTAL (C)	**-**	**1**	**2**	**6**	**1**	**11**	**Neg.**	**3**	**-**	**Neg.**	**3**	**27**
D. ADJUSTMENT (+/-)	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**+95**	**-**	**+95**
GRAND TOTAL (A+B+C+D)	**3382**	**2873**	**3615**	**8585**	**1586**	**24451**	**1404**	**5286**	**3994**	**846**	**3183**	**59205**

Neg. : Negligible. Source : M5 Report

Note : Minor oil Companies consumption has been shown in the adjustment under lubes and greases.

* = Excludes LDO Malarial.

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	1992-93(P)
A. STATES									
Andhra Pradesh	33.3	38.8	40.0	42.4	46.5	51.1	50.4	52.1	56.5
Arunachal Pradesh							76.9	83.9	87.4
Assam	26.6	33.7	35.4	37.7	40.5	42.9	46.2	44.3	41.8
Bihar	20.5	26.1	28.5	30.0	33.0	33.2	33.1	33.0	39.3
Goa							527.1	574.9	563.7
Gujarat	114.6	127.8	133.0	134.6	139.1	137.4	138.4	147.3	145.3
Haryana	64.7	80.0	88.2	94.4	86.5	99.3	104.2	110.9	113.8
Himachal Pradesh	19.9	24.7	27.0	31.5	35.0	37.1	36.4	40.7	43.6
Jammu & Kashmir	27.7	33.1	37.3	41.1	42.1	41.4	37.7	45.2	49.2
Karnataka	34.1	42.6	47.0	47.5	51.4	52.7	54.9	57.6	60.3
Kerala	44.9	48.5	52.0	54.9	60.3	60.6	65.9	68.0	69.7
Madhya Pradesh	21.6	31.7	32.8	35.0	38.3	39.7	37.2	38.6	40.2
Maharashtra	92.4	101.2	101.5	106.3	117.4	121.4	120.0	118.4	124.3
Manipur	29.2	30.6	32.7	35.7	41.7	38.1	34.5	35.6	38.9
Meghalaya	20.2	40.9	42.4	43.5	53.4	57.4	57.9	61.3	66.4
Mizoram							58.3	40.8	46.6
Nagaland	28.4	40.4	40.4	44.1	53.9	49.1	43.6	40.3	44.4
Orissa	20.5	26.5	27.5	30.4	33.2	35.1	35.7	38.6	39.4
Punjab	84.0	96.5	113.8	126.8	115.5	128.3	133.5	145.9	151.2
Rajasthan	31.8	39.4	42.1	43.2	55.9	56.4	51.6	55.4	59.1
Sikkim	36.7	38.9	33.3	26.2	38.1	30.2	37.2	39.4	49.3
Tamil Nadu	66.8	72.8	74.7	77.1	85.2	88.2	86.5	90.2	91.6
Tripura	13.1	18.8	20.6	23.5	27.2	30.4	24.0	22.6	25.9
Uttar Pradesh	23.1	31.8	34.8	35.9	39.7	41.7	40.0	42.9	45.0
West Bengal	39.8	45.1	45.9	47.6	51.2	52.5	50.4	50.1	49.6
B. OTHER AREAS									
Chandigarh	209.3	226.9	246.8	250.8	275.4	261.1	249.7	288.6	273.0
Delhi	187.6	214.9	216.6	229.9	236.0	257.1	243.5	241.3	244.6
Goa. (incl. Daman & Diu									
Dadra & Ngr.Haveli)	290.6	368.0	393.4	400.7	719.7	438.4	141.7*	146.4*	167.4 *
Others	52.0	69.5	79.1	83.5	92.9	114.5	155.5	158.2	179.3
TOTAL ALL-INDIA @	**48.2**	**55.9**	**59.7**	**62.0**	**63.7**	**69.1**	**68.4**	**70.5**	**70.2**

ESTIMATED PER CAPITA CONSUMPTION OF SELECTED PETROLEUM PRODUCTS - 1980-81 TO 1992-93 (INCL. BUNKERS).

(Kgs)

PRODUCT	1980-81	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93(P)
Naphtha	3.5	4.2	4.2	3.6	4.3	4.1	4.1	4.1	4.0
M.S.	2.3	3.0	3.2	3.6	3.9	4.2	4.2	4.2	4.3
SKO	6.3	8.3	8.6	9.1	9.8	10.0	10.0	9.9	10.2
HSDO	15.5	19.7	20.6	22.3	23.8	25.2	25.0	26.9	29.0
LDO	1.7	1.5	1.5	1.6	1.8	1.8	1.8	1.7	1.7
F.O. (Regular)	8.1	5.0	4.9	5.3	5.8	5.5	5.3	5.8	6.3
LSHS/HHS	3.1	5.3	5.5	5.0	4.9	5.3	5.4	5.0	4.7
TOTAL ALL-INDIA @ SALES / CONSUMPTION	**48.2**	**57.3**	**59.3**	**62.0**	**63.7**	**69.1**	**68.4**	**70.6**	**73.4**

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 1989-90 TO 1992-93(P)

(Qty.'000' Tonnes)

SECTOR	1989-90		1990-91		1991-92		1992-93(P)	
	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	1810	79.8	1894	78.4	2134	80.5	2275	79.2
2. Commercial/Industry	422	18.6	487	20.2	486	18.3	545	19.0
3. Others	36	1.6	34	1.4	30	1.2	53	1.8
TOTAL (1+2+3):	**2268**	**100.0**	**2415**	**100.0**	**2650**	**100.0**	**2873**	**100.0**
NAPHTHA								
1. Fertilizers	1835	54.8	1842	53.5	1770	51.2	1678	49.6
2. Petrochemicals	842	25.1	766	22.2	860	24.8	1156	34.2
3. Others	673	20.1	838	24.3	831	24.0	548	16.2
TOTAL (1+2+3) :	**3350**	**100.0**	**3446**	**100.0**	**3461**	**100.0**	**3382**	**100.0**
HSDO								
1. Transport								
i) Road Transport	1936	9.3	1864	8.8	1964	8.7	2057	8.4
ii) Aviation	11	0.1	11	0.1	11	0.1	12	0.1
iii) Shipping	184	0.9	193	0.9	191	0.8	183	0.7
iv) Railways	1455	7.0	1453	6.9	1459	6.4	1417	5.8
v) Other Transport (incl.Agri.Retail Trade)	14755	71.3	15292	72.3	16657	73.4	18061	73.9
Sub-total (1) :	**18341**	**88.6**	**18813**	**89.0**	**20282**	**89.4**	**21730**	**88.9**
2. Plantation/Food								
i) Sugar Mills	69	0.3	99	0.5	96	0.4	86	0.4
ii) Others (incl. Plan. of Food)	201	1.0	219	1.0	250	1.1	301	1.2
Sub-total (2) :	**270**	**1.3**	**318**	**1.5**	**346**	**1.5**	**387**	**1.6**
3. Power Generation (utilities)	**126**	**0.6**	**104**	**0.5**	**110**	**0.5**	**108**	**0.4**
4. Industry								
i) Iron & Steel	63	0.3	69	0.3	73	0.3	89	0.4
ii) Textile & fibre	201	1.0	173	0.8	165	0.7	146	0.6
iii) Cement	154	0.7	155	0.7	165	0.7	176	0.7
iv) Ceramic & Glass	27	0.1	26	0.1	24	0.1	27	0.1
v) Chemicals & Allied	115	0.6	77	0.4	86	0.4	94	0.4
vi) Aluminium	4	Neg	3	Neg	4	Neg	5	Neg.
vii) Mining & quarrying	569	2.7	556	2.6	552	2.4	567	2.3
viii) Engg. (Mech & Elec)	159	0.8	160	0.8	151	0.7	153	0.6
ix) Fertilizers	17	0.1	13	0.1	21	0.1	18	0.1
x) Other Industries & Construction	203	1.0	199	1.0	175	0.8	216	0.9
Sub-total (4)	**1512**	**7.3**	**1431**	**6.8**	**1416**	**6.2**	**1491**	**6.1**
5. Misc.Services (incl. DGS&D)	**457**	**2.2**	**473**	**2.2**	**526**	**2.3**	**735**	**3.0**
Total (1+2+3+4+5)	**20706**	**100.0**	**21139**	**100.0**	**22680**	**100.0**	**24451**	**100.0**

(P) = Provisional

ESTIMATED SECTOR-WISE (END-USE) INDUSTRY CONSUMPTION OF LDO, FO(Regular) & LSHS/HHS DURING 1989-90 TO 1992-93

(Qty.'000' Tonnes)

SECTOR	1989-90 Consum-ption	1989-90 % to Total	1990-91 Consum-ption	1990-91 % to Total	1991-92 Consum-ption	1991-92 % to Total	1992-93 (P) Consum-ption	1992-93 (P) % to Total
1.	2.	3.	4.	5.	6.	7.	8.	9.
LDO (Regular)								
1. Transport								
i) Road Transport	2	0.1	1	0.1	1	0.1	1	0.1
ii) Aviation	1	0.1	1	0.1	1	0.1	1	0.1
iii) Shipping	76	5.1	67	4.5	61	4.2	66	4.7
iv) Railways	5	0.3	4	0.2	3	0.2	2	0.1
v) Other Transport (incl. Agr.Retail Trade)	14	0.9	13	0.9	14	1.0	15	1.1
Sub - Total : 1	**98**	**6.5**	**86**	**5.8**	**80**	**5.5**	**85**	**6.1**
2. Plantation/Food (incl. Processing)								
i) Sugar Mills	2	0.1	4	0.2	1	0.1	1	0.1
ii) Others (incl. Plan & Food)	35	2.4	37	2.5	36	2.5	34	2.4
Sub - Total : 2	**37**	**2.5**	**41**	**2.7**	**37**	**2.6**	**35**	**2.5**
3. Power Generation (utilities)	**325**	**22.0**	**282**	**18.8**	**230**	**15.8**	**211**	**15.0**
4. Industry								
i) Iron & steel	45	3.0	51	3.4	46	3.2	53	3.8
ii) Textile & Fibre	39	2.6	44	2.9	46	3.2	40	2.8
iii) Cement	8	0.5	10	0.7	14	1.0	11	0.8
iv) Ceramic & Glass	49	3.3	51	3.4	55	3.8	47	3.3
v) Chemicals & Allied	110	7.4	129	8.6	121	8.3	146	10.4
vi) Aluminium	10	0.7	6	0.4	12	0.8	17	1.2
vii) Mining & quarrying	10	0.7	10	0.7	11	0.7	15	1.1
viii) Engg. (Mech & Elec)	112	7.6	128	8.5	120	8.2	109	7.8
ix) Fertilizers	7	0.5	6	0.4	6	0.4	3	0.2
x) Other Industries & Construction	187	12.7	203	13.5	213	14.6	206	14.7
Sub - Total . 4	**577**	**39.0**	**638**	**42.5**	**644**	**44.2**	**647**	**46.1**
5. Misc.Services (incl. DGS&D)	**443**	**30.0**	**454**	**30.2**	**465**	**31.9**	**425**	**30.3**
TOTAL : (1+ 2+ 3+ 4+ 5)	**1480**	**100.0**	**1501**	**100.0**	**1456**	**100.00**	**1403**	**100.0**
F.O.(Regular)								
1. Transport								
i) Road Transport	9	0.2	45	1.0	8	0.1	7	0.1
ii) Aviation	3	0.1	4	0.1	1	Neg	5	0.1
iii) Shipping	346	7.7	300	6.7	245	5.0	235	4.4
iv) Railways	24	0.5	22	0.5	21	0.4	15	0.3
v) Other Transport (Incl. Agr. Retail Trade)	79	1.8	76	1.7	68	1.4	77	1.5
Sub - Total : 1	**461**	**10.3**	**447**	**10.0**	**343**	**6.9**	**339**	**6.4**
2. Plantation/Food (incl. Processing)								
i) Sugar Mills	14	0.3	14	0.3	18	0.4	16	0.3
ii) Others (incl.Plan.& Food)	147	3.3	122	2.8	146	2.9	174	3.3
Sub - Total : 2	**161**	**3.6**	**136**	**3.1**	**164**	**3.3**	**190**	**3.6**
3. Power Generation (utilities)	**692**	**15.4**	**531**	**11.9**	**527**	**10.7**	**555**	**10.5**

(P) = Provisional

Contd.....

ESTIMATED SECTOR-WISE (END-USE) INDUSTRY CONSUMPTION OF LDO, FO (Regular) and LSHS/HHS DURING 1989-90 TO 1992-93

(Qty. '000' Tonnes)

SECTOR	1989-90		1990-91		1991-92		1992-93 (P)	
	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	310	6.9	311	7.0	363	7.4	372	7.0
ii) Textile & Fibre	333	7.4	289	6.5	321	6.5	425	8.1
iii) Cement	51	1.1	64	1.5	78	1.6	75	1.4
iv) Ceramic & Glass	70	1.6	73	1.6	87	1.8	89	1.7
v) Chemicals & Allied	591	13.2	613	13.7	636	12.9	725	13.7
vi) Aluminium	88	2.0	95	2.1	114	2.3	142	2.7
vii) Mining & quarrying	74	1.6	55	1.2	43	0.9	43	0.8
viii) Engg. (Mech & Elec)	151	3.4	146	3.3	140	2.8	147	2.8
ix) Fertilizers	841	18.7	1058	23.7	1404	28.4	1348	25.5
x) Other Industries & Construction	468	10.4	446	10.0	506	10.2	596	11.3
Sub-Total : 4	**2977**	**66.3**	**3150**	**70.6**	**3692**	**74.8**	**3962**	**75.0**
5. Misc.Services (incl.DGS&D)	**199**	**4.4**	**198**	**4.4**	**211**	**4.3**	**240**	**4.5**
TOTAL : (1+ 2+ 3+ 4+ 5)	**4490**	**100.0**	**4462**	**100.0**	**4937**	**100.0**	**5286**	**100.0**
LSHS/HHS								
1. Transport	**8**	**0.2**	**13**	**0.3**	**22**	**0.5**	**10**	**0.3**
2. Plantation/Food (incl. Processing)								
i) Sugar Mills	2	Neg	2	0.1	1	Neg.	Neg.	-
ii) Others (incl.Plan.& Food)	42	1.0	47	1.0	28	0.7	35	0.9
Sub - Total : 2	**44**	**1.0**	**49**	**1.1**	**29**	**0.7**	**35**	**0.9**
3. Power Generation (utilities)	**1630**	**37.6**	**1835**	**40.6**	**1798**	**42.2**	**1779**	**44.5**
4. Industry								
i) Iron & steel	181	4.2	174	3.8	177	4.2	113	2.8
ii) Textile & Fibre	237	5.5	332	7.3	293	6.9	242	6.1
iii) Cement	33	0.8	42	0.9	36	0.8	35	0.9
iv) Ceramic & Glass	113	2.6	136	3.0	113	2.6	96	2.4
v) Chemicals & Allied	395	9.1	360	8.0	300	7.0	308	7.7
vi) Aluminium	83	1.9	62	1.4	33	0.8	41	1.0
vii) Mining & quarrying	28	0.6	14	0.3	4	0.1	11	0.3
viii) Engg. (Mech & Elec)	29	0.7	40	0.9	40	0.9	33	0.8
ix) Fertilizers	1298	30.0	1184	26.2	1046	24.5	1002	25.1
x) Other Industries & Construction	232	5.4	261	5.8	293	6.9	241	6.0
Sub - Total : 4	**2629**	**60.8**	**2605**	**57.6**	**2335**	**54.7**	**2122**	**53.1**
5. Misc. Services (incl. DGS&D)	**19**	**0.4**	**22**	**0.4**	**81**	**1.9**	**48**	**1.2**
TOTAL : (1+ 2+ 3+ 4+ 5)	**4330**	**100.0**	**4524**	**100.0**	**4265**	**100.0**	**3994**	**100.0**

(P) = Provisional

CONSUMPTION OF DIESEL OIL IN INDIAN RAILWAYS DURING 1960-61 TO 1992-93

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

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	1992-93(P)
1	2	3	4	5	6	7	8	9
I. Fertilizer Plants:								
Madras Fertilizer Ltd.	209	234	105	205	196	201	206	191
HFC, Durgapur	88	94	95	55	41	74	95	72
FCI, Gorakhpur	95	98	88	108	98	22	0	0
HFC, Barauni	151	115	131	99	73	101	71	100
SFC, Kota	172	158	139	152	166	176	169	170
ICI, Kanpur	290	305	253	292	319	254	294	297
RFP, Rourkela	84	82	75	99	103	105	93	117
GSFC, Baroda	130	125	118	126	132	128	120	78
FACT, Cochin	95	123	105	138	112	129	121	83
ZAC, Goa	220	227	224	212	220	238	266	255
IFFCO, Phulpur	205	251	216	299	264	348	253	318
IFFCO, Kalol	42	46	49	47	44	55	61	41
MCFL, Manglore	127	162	103	151	111	140	137	99
SPIC, Tuticorin	260	270	234	269	270	261	287	281
GNFC, Bharuch	1	1	NEG.	NEG.	NEG.	1	NEG.	Neg.
FACT, Alwaye	62	65	61	76	61	56	55	55
FCI, Bombay	-	-	13	--	--	--	-	-
Coromandal Ferts.Vizag	84	73	66	66	64	76	68	55
NFL Nangal					16	49	48	57
Others	45	59	--	--	8	2	1	0
Sub-Total Fertilizer	**2360**	**2488**	**2075**	**2392**	**2298**	**2416**	**2345**	**2269**
II. Petrochemical Plants:								
BRPL, Bongaigaon	3	-	24	16	25	21	17	24
HCC, Rasayani	4	4	4	4	-	-	5	5
IPCL, Baroda	406	444	451	455	417	416	482	460
NOCIL, Bombay	222	259	264	299	287	275	272	294
RCF, (Mathanol) Bombay	14	13	-	15	9	4	0	(-) 1
UCIL, Bombay	69	4	-	-	-	-	-	-
Rama Petro Chemicals	-	-	-	48	41	44	33	25
Reliance Ind. Ltd.	-	-	-	59	179	182	185	238
National Peroxide					2	2	2	3
Oswal Agro					19	71	61	64
Others	-	-	-	1	-	2	2	3
Sub-Total (Petro-Chem.)	**718**	**724**	**743**	**897**	**979**	**1017**	**1059**	**1115**
III. Others.								
HOC Rasayani	-	-	-	-	5	5	N.A.	N.A.
FCI Talchar	-	-	-	4	2	0.0	N.A.	N.A.
DESU	-	-	-	56	59	0.0	1	Neg.
HSL, Bhilai etc.	28	37	34	11	2	0.0	0	-
HCL, Khetri	-	-	-	4	4	4	5	3
Others						5	34	16
Sub-Total (others)	**28**	**37**	**34**	**75**	**72**	**14**	**40**	**19**
GRAND TOTAL: (I + II + III)	**3106**	**3249**	**2852**	**3364**	**3349**	**3447**	**3444**	**3403**

Source: Industry Performance Review, March, 1993. (P) : Provisional

PLANT/CUSTOMER-WISE OFFTAKE OF FO/LSHS

(Qty. '000' Tonnes)

Category and Plant	1988-89	1989-90	1990-91	1991-92	1992-93(P)
	(I) POWER				
A. Northern:					
OBRA Thermal	20.7	22.9	19.9	28.1	30.9
HSEB Hardwaganj	8.3	0.0	6.3	3.7	11.5
BTPS Bhadrapur	20.3	20.8	20.7	18.2	12.1
GNTP Bhatinda	11.2	16.5	3.9	2.6	2.9
TPS Paricha	4.5	6.4	6.5	5.8	10.1
TPS Singrauli	8.4	22.2	5.4	1.5	5.4
TPS Rihand	-	5.6	19.7	4.1	5.6
TPS Kota	-	51.9	36.3	22.9	9.8
DESU Delhi (BPC+ HPC+ IOC)	36.0	37.5	39.7	52.1	55.2
HSEB Faridabad	-	3.6	2.7	3.5	1.6
TPS Ropar	26.4	37.4	11.3	15.0	23.2
TPS Panipat	30.9	35.2	38.0	43.4	51.6
HWP Rawatbhatta	-	-	9.1	45.7	45.2
Sub-total (A)	**166.7**	**260.0**	**219.5**	**246.6**	**265.1**
B. Eastern:					
ASEB Chandrapura	40.4	73.3	71.1	75.0	41.2
CTPS Chandrapur	23.0	34.2	36.1	39.1	37.6
DTPS Durgapur	-	0.0	0.0	0.0	0.0
DPL Durgapur	1.5	0.0	0.0	0.0	0.0
NTPC Farrakka	11.3	0.0	0.0	2.4	1.3
BTPS Barauni	31.3	23.4	23.8	30.0	14.2
NTPC Kanti (Muzzafarpur)	4.0	0.0	0.0	0.0	0.0
TPS Patratu	8.0	0.0	0.0	0.0	0.0
TTPS Talcher	11.4	9.4	7.6	11.8	6.9
BTPS Salakati	-	28.2	24.8	37.6	34.2
Sub-Total (B)	**130.9**	**168.5**	**163.4**	**195.9**	**135.4**
C. Western:					
GEB Dhuwaran	710.8	750.2	756.2	746.7	686.9
GEB Ukai	29.6	6.9	16.6	26.3	33.6
GEB Gandhinagar	36.2	16.7	13.0	21.4	14.7
AECO Sabarmati	15.9	13.4	0.0	5.9	5.3
GEB Wanakbari	56.9	44.5	55.0	80.7	45.9
MPEB Sarani	87.0	139.1	107.5	71.5	102.2
MSEB Koradi	42.5	39.1	24.0	28.7	26.5
MSEB Chandrapur	24.6	18.7	14.8	16.6	29.9
MPEB Dhari	16.9	11.3	13.5	18.8	17.3
MSEB Nasik	41.0	24.9	29.9	16.8	12.6
MSEB Bhusawal	24.7	15.8	12.4	7.3	9.2
MSEB Paras	1.8	2.2	1.9	0.0	1.4
MPEB Parli	22.1	52.1	34.5	16.3	18.1
NTPC Korba	50.6	33.0	21.3	16.1	14.6
MPEB Korba	29.3	22.2	19.1	16.5	11.6
GEB Kandla	6.7	-	-	-	-
TATA Thermal	543.0	554.4	718.3	655.2	787.0
MPEB Chachai	12.9	12.1	14.6	12.8	17.8
NTPC Waidhan	-	22.6	23.0	28.7	23.3
MSEB Kaperkada	-	0.0	13.9	16.0	11.4
Sub-Total (C)	**1752.5**	**1779.2**	**1889.5**	**1802.3**	**1869.3**

Contd....

PLANT/CUSTOMER-WISE OFFTAKE OF FO/LSHS

(Qty. '000' Tonnes)

Category and Plant	1988-89	1989-90	1990-91	1991-92	1992-93 (P)
D. Southern:					
TTPS Tuticorin	10.9	12.2	11.2	21.8	19.0
KTPS Polancha	7.1	11.2	5.1	8.2	15.0
RTPS Raichur	4.5	3.1	3.6	7.2	0.8
MTPS Mettur Dam	17.6	27.1	13.4	4.1	7.4
NTPC Ramagundam	23.3	34.7	26.0	7.1	13.4
ETPS Ennore	9.8	8.8	7.6	4.1	2.9
NLC Neyveli TML	-	0.0	9.5	7.2	37.7
HWP Manuguru	-	-	8.7	30.4	13.4
Sub-Total (D)	**73.2**	**97.1**	**85.1**	**90.1**	**109.6**
Total : Power (A+ B+ C+ D)	**2123.3**	**2304.8**	**2357.5**	**2334.9**	**2379.4**
	(II) Fertilizer Plants:				
A. Northern:					
NFL Nangal	270.6	287.1	294.1	296.1	306.5
NFL Bhatinda	260.4	302.0	248.0	322.1	280.8
NFL Panipat	277.2	301.2	315.7	296.5	259.0
IFFCO Phulpur	24.5	21.6	18.7	29.9	23.1
SFC Kota	-	-	0.0	27.0	24.9
Sub-Total (A)	**832.7**	**911.9**	**876.5**	**971.6**	**894.3**
B. Eastern:					
HFC Holida	-	0.0	0.0	0.0	0.0
HFC Durgapur	10.2	8.3	18.0	18.6	12.3
FCI Sindri	204.9	193.0	169.5	169.1	188.0
HFC Barauni	10.5	25.5	24.0	20.8	22.2
FCI Talcher	8.8	8.7	11.4	13.9	9.6
Sub-Total (B)	**234.4**	**235.5**	**222.9**	**222.4**	**232.1**
C. Western:					
ZAC Goa	79.6	80.6	92.5	98.0	98.4
IFFCO Kalol	36.2	34.9	37.4	36.4	34.6
GSFC Baroda	71.1	78.4	115.9	122.5	133.8
GNFC Bharuch	408.4	438.2	414.9	498.0	418.7
Sub-Total (C)	**595.3**	**632.1**	**660.7**	**754.9**	**685.5**
D. Southern:					
MFL Madras	77.8	78.2	83.3	83.0	78.6
MCFL Mangalore	44.6	54.3	70.4	74.2	58.4
FACT Cochin	97.6	92.0	101.7	95.4	84.5
NLC Neyveli	100.1	108.6	69.9	116.6	66.1
SPIC Tuticorin	185.2	193.0	173.0	190.9	181.1
FCI Ramagundam	11.4	11.5	12.4	16.3	8.8
Coramandal Fert.	36.9	33.1	36.3	35.9	29.2
Sub-Total (D)	**553.6**	**570.7**	**547.0**	**612.3**	**506.7**
Total:Fertilizer (A+ B+ C+ D)	**2216.0**	**2350.2**	**2307.1**	**2561.2**	**2318.6**

Contd.....

PLANT/CUSTOMER-WISE OFFTAKE OF FO/LSHS

(Qty. '000' Tonnes)

Category and Plant	1988-89	1989-90	1990-91	1991-92	1992-93(P)
(III) Petrochemical Plants					
C. Western:					
IPCL Baroda	253.4	103.3	41.3	34.1	81.4
NOCIL Bombay	0.9	0.0	0.2	0.0	0.0
Reliance Industry,Bombay	22.5	154.2	155.4	147.7	151.2
Sub-Total (C)	**276.8**	**257.5**	**196.9**	**181.8**	**232.6**
D. Southern:					
FACT Udyogmandal	-	0.3	54.6	7.8	0.9
TNPL Madras	24.5	40.2	48.8	43.5	47.0
Mysore Petrochemicals	-	-	-	-	-
Sub-Total (D)	**24.5**	**40.5**	**103.4**	**51.3**	**47.9**
Total:Petrochemical (C+ D)	**301.3**	**298.0**	**300.3**	**233.1**	**280.5**
(IV) Steel Plants					
B. Eastern:					
TISCO Burnapur	3.0	1.5	1.4	0.0	0.0
RSP Rourkela	84.1	85.7	66.2	82.0	62.8
DSP Durgapur	94.5	73.2	67.2	70.9	26.9
ASP Durgapur	17.0	22.5	24.1	9.9	23.8
PCBL Durgapur	-	-	-	-	-
TISCO Jamshedpur	64.2	59.8	47.2	59.0	47.5
BSP Bokaro	21.8	49.6	65.3	101.6	92.0
SAIL Patratu	3.4	5.0	2.1	2.0	0.0
HCL Ghatsila	2.3	9.0	5.5	-	-
Sub-Total (B)	**290.3**	**306.3**	**279.0**	**325.4**	**253.0**
C. Western:					
HSL Bhillai	37.1	35.5	23.0	31.9	34.0
SAIL Bhillai	8.8	-	-	-	-
Sub-Total (C)	**45.9**	**35.5**	**23.0**	**31.9**	**34.0**
D. Southern					
S.Viscose	-	-	27.7	-	-
Vizag Steel Plant	-	-	28.8	15.5	4.0
FACT ASCL	-	-	22.5	-	-
Sub-Total (D)	**-**	**-**	**79.0**	**15.5**	**4.0**
Total Steel Plants (B+ C+ D)	**336.2**	**341.8**	**381.0**	**372.8**	**291.0**
(V) Others					
A. Northern:					
Hindalco	23.6	17.2	28.3	30.5	26.2
Sub-Total (A)	**23.6**	**17.2**	**28.3**	**30.5**	**26.2**
B. Eastern:					
NALCO Ansul	-	-	-	22.1	12.9
IRE Chatrapur	9.2	10.3	3.5	1.6	0.0
NELCO Damanjodi	11.4	77.2	23.9	57.8	43.9
OCL Rajgangapur	12.9	13.1	11.3	10.8	18.6
TELCO Jamshedpur.	4.3	10.9	11.4	14.5	8.8
HCL Ghatsila	-	-	-	10.4	8.0
Sub-Total (B)	**37.8**	**111.5**	**50.1**	**117.2**	**92.2**

Contd.....

PLANT/CUSTOMER-WISE OFFTAKE OF FO/LSHS

(Qty. '000' Tonnes)

Category and Plant	1988-89	1989-90	1990-91	1991-92	1992-93(P)
C. Western:					
HOC Rasayani	11.8	12.0	14.5	13.9	10.5
Sub-Total (C)	**11.8**	**12.0**	**14.5**	**13.9**	**10.5**
D. Southern:					
S.I. VISCOSE	-	-	-	28.4	27.3
INDAL BELGAUM	-	-	13.3	11.6	5.8
TEX MACO	-	-	0.0	0.0	0.0
Ballarpur Indus	-	-	3.4	0.0	0.0
Nelco Angul	-	-	12.1	-	-
Chem. Plast	-	-	0.0	21.6	34.2
HOC, Cochin	17.3	12.9	3.2	2.2	0.6
Kudramukh Iron & Ore Company	0.4	47.6	44.3	36.2	22.6
FACT ASCL	-	-	-	22.9	20.1
Sub-Total (D)	**17.7**	**60.5**	**76.3**	**122.9**	**110.6**
Total others(A+ B+ C+ D)	**90.9**	**201.2**	**169.2**	**284.5**	**239.5**
	(VI)	**General Trade**			
A. Northern Region	528.6	529.9	533.7	557.3	542.0
B. Eastern Region	448.9	384.2	471.1	366.4	395.8
C. Western Region	1524.0	1465.0	1573.0	1581.6	1664.1
D. Southern Region	886.7	945.0	893.0	906.1	993.6
Total:General Trade (A+ B+ C+ D)	**3388.2**	**3324.1**	**3470.8**	**3411.4**	**3595.5**
GRAND TOTAL (I+ II+ III+ IV+ V+ VI)	**8455.9**	**8820.1**	**8985.9**	**9197.9**	**9104.5**

P : Provisional Source : Industry Performance Review March, 1993.

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 1991-92

State/Union Territories	GAS STATIONS		DIESEL STATIONS		
	Natural Gas (Million Cu. Mts.)	Generation (GWH)	Diesel Oil (K. Lts.)	Generation (GWH)	Average Oil Consumed Lts./Kwh.
1	2	3	4	5	6
NORTHERN REGION :					
Haryana	0.00	0.00	0.00	0.00	0.00
Himachal Pradesh	0.00	0.00	6.00	0.01	0.60
Jammu & Kashmir	180000.00 OIL (E)	85.00	0.00	0.00	0.00
Punjab	0.00	0.00	0.00	0.00	0.00
Rajasthan	0.00	0.00	0.00	0.00	0.00
Uttar Pradesh	0.00	0.00	0.00	0.00	0.00
Chandigarh	0.00	0.00	0.00	0.00	0.00
Delhi	1535.08 *	662.00	0.00	0.00	0.00
WESTERN REGION :					
Gujarat	241.04	583.17	195.00	0.50	0.39
Madhya Pradesh	0.00	0.00	0.00	0.00	0.00
Maharashtra	1005.77	2919.74	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00	0.00
D. & N. Haveli	0.00	0.00	0.00	0.00	0.00
Daman & Diu	0.00	0.00	0.00	0.00	0.00
SOUTHERN REGION :					
Andhra Pradesh	130.63	357.00	0.00	0.00	0.00
Karnataka	0.00	0.00	0.00	0.00	0.00
Kerala	0.00	0.00	0.00	0.00	0.00
Tamil Nadu	1.00 (E)	1.53	0.00	0.00	0.00
Lakshdweep	0.00	0.00	4150.00	10.64	0.39
Pondicherry	0.00	0.00	0.00	0.00	0.00
EASTERN REGION :					
Bihar	0.00	0.00	0.00	0.00	0.00
Orissa	0.00	0.00	0.00	0.00	0.00
West Bengal	12088.72 ***	30.55	185.00	0.37	0.50
D.V.C.	90000.00	43.61	0.00	0.00	0.00
A. & N. Islands	0.00	0.00	15040.00	51.79	0.29
Sikkim	0.00	0.00	640.00	1.23	0.52
NORTH EASTERN REGION :					
Assam	180.57	444.68	0.00	0.00	0.00
Manipur	0.00	0.00	702.00	2.69	0.26
Meghalaya	0.00	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	16.00	0.04	0.40
Tripura	124.50	80.54	700.00	2.02	0.35
Arunachal Pradesh	0.00	0.00	4728.00	14.34	0.33
Mizoram	0.00	0.00	5082.00	11.82	0.43
Central Sector	**1363.21**	**6242.13**	**0.00**	**0.00**	**0.00**
TOTAL (ALL INDIA)	**286670.52 (A)**	**11449.95**	**31444.00**	**95.45**	**0.33**

OIL = Oil in Kiloliters (E) = Estimated * = Includes 1300 KL Oil *** = Includes 12083 KL Oil (A) = Includes 193383 KL Oil

SOURCE : Central Electricity Authority.

STATE WISE CONSUMPTION OF FOSSIL FUELS FOR ELECTRICITY GENERATION FROM THERMAL POWER STATIONS IN INDIA DURING 1991-92

State/Union Territories	S T E A M S T A T I O N S								
	(COAL) (MT)	LIGNITE (MT)	FURNACE OIL (KL)	LIGHT DIESEL OIL/HSD (KL)	LSHS/HHS (KL)	NATURAL GAS (Million) Cu. Mtrs.)	HEAVY INPUT (K. Cal.x10⁹)	GROSS GENERATION (GWH)	AVERAGE HEAT INPUT (K. Cal/Kwh)
1	2	3	4	5	6	7	8	9	10
NORTHERN REGION :									
Haryana	2621258	0	16799	4288	53789	0	11940.35	3276.12	3644
Himachal Pradesh	0	0	0	0	0	0	0.00	0.00	0
Jammu & Kashmir	0	0	0	0	0	0	0.00	0.00	0
Punjab	3867651	0	16870	4594	1173(A)	0	15468.73	5934.36	2606
Rajasthan	2645591	0	8775	1768	14272	0	12847.63	3730.01	3444
Uttar Pradesh	12098957	0	93761	48254	0	0	45329.50	13185.71	3437
Chandigarh	0	0	0	0	0	0	0.00	0.00	0
Delhi	1633356	0	54919	2785	0	0	7383.11	2041.35	3616
WESTERN REGION :									
Gujarat	9905630	384005	40249	13112	887254	233.96	54763.17	19368.62	2827
Madhya Pradesh	9627589	0	115875	13256	764	0	33244.46	11579.90	2870
Maharashtra	22155377	0	107855	83074	707628 **	621658@	84111.45	30457.64	2761
Goa	0	0	0	0	0	0	0.00	0.00	0
D. & N. Haveli	0	0	0	0	0	0	0.00	0.00	0
Daman & Diu	0	0	0	0	0	0	0.00	0.00	0
SOUTHERN REGION :									
Andhra Pradesh	7169951	0	16002	5401 (B)	5310	0	24046.17	8726.17	2755
Karnataka	1996953	0	7704	171	0	0	5387.01	2585.71	2083
Kerala	0	0	0	0	0	0	0.00	0.00	0
Tamil Nadu	7116698	0	21264	2382	4744	0	25858.48	9398.28	2751
Pondicherry	0	0	0	0	0	0	0.00	0.00	0
EASTERN REGION :									
Bihar	2185733	0	5232	55967	14766	0	9285.08	2349.50	3951
Orissa	1072755	0	13502	4182	0	0	9720.89	1207.96	8047
West Bengal	7002561	0	20000	58737	0	0	36034.02	10434.84	3453
D.V.C.	3756868	0	97839	0	0	0	17793.23	4915.69	3619
A. & N. Islands	0	0	0	0	0	0	0.00	0.00	0
Sikkim	0	0	0	0	0	0	0.00	0.00	0
NORTH EASTERN REGION :									
Assam	250009	0	40234	339	76374	0	2268.74	634.86	3574
Manipur	0	0	0	0	0	0	0.00	0.00	0
Meghalaya	0	0	0	0	0	0	0.00	0.00	0
Nagaland	0	0	0	0	0	0	0.00	0.00	0
Tripura	0	0	0	0	0	0	0.00	0.00	0
Arunachal Pradesh	0	0	0	0	0	0	0.00	0.00	0
Mizoram	0	0	0	0	0	0	0.00	0.00	0
Central Sector	**38575663**	**10117848**	**134789**	**3016**	**35019**	**0**	**144036.64**	**67336.38**	**2139**
Total (All India)	**133682600**	**10501853**	**811669**	**301326 (B)**	**1801093 ****	**621891.96**	**539518.66**	**197163.10**	**2736**

(A) = Heavy Petroleum Stock (B) = Includes 326 KL Superior Kerosene Oil ** = Includes 6000 KL Ignition Oil @ = Refinery gas in Metric Tonnes.
Note : MT = Metric Tonnes KL = Kilo Litres Source : Central Electricity Authority.

XII. FOREIGN TRADE

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS 1970 TO 1992

(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	20793	5929.62	7454	3541.64	28247	9471.26
1991(P)	21813	6827.57	9746	5533.55	31559	12361.12
1992(P)	29977	10432.44	10308	5711.16	40285	16143.60
			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	-	-	2605	941.40	2605	941.40
1991(P)	-	-	2477	1041.13	2477	1041.13
1992(P)	-	-	3991	1658.38	3991	1658.38
			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	20793	5929.62	4849	2600.24	25642	8529.86
1991(P)	21813	6827.57	7269	4492.42	29082	11319.99
1992 (P)	29977	10432.44	6317	4052.78	36294	14485.22

(P) Provisional.

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS 1970-71 TO 1992-93

(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	20699	6118.42	8660	4660.21	29359	10778.63
1991-92(P)	23994	7820.05	9445	5218.27	33439	13038.32
1992-93(P)	29247	10685.86	11283	6359.60	40530	17045.46
			EXPORTS			
1970-71	--	--	332	4.67	332	4.67
1975-76	--	--	170	13.96	170	13.96
1980-81	--	--	36	8.41	36	8.41
1981-82	838	196.23	55	15.13	893	211.36
1982-83	4552	1063.37	795	133.79	5347	1197.16
1983-84	5522	1231.10	1472	356.96	6994	1588.06
1984-85	6478	1563.16	933	255.03	7411	1818.19
1985-86	528	135.15	1963	509.58	2491	644.73
1986-87	--	--	2491	411.23	2491	411.23
1987-88	--	--	3412	648.75	3412	648.75
1988-89	--	--	2295	523.63	2295	523.63
1989-90	--	--	2593	695.56	2593	695.56
1990-91	--	--	2648	1003.92	2648	1003.92
1991-92(P)	--	--	2936	1214.65	2936	1214.65
1992-93(P)	--	--	3719	1606.28	3719	1606.28
			NET IMPORTS			
1970-71	11683	106.72	752	25.24	12435	131.96
1975-76	13624	1051.76	2048	190.38	15672	1242.14
1980-81	16248	3348.97	7253	1909.11	23501	5258.08
1981-82	14460	3540.15	4829	1438.03	19289	4978.18
1982-83	12397	2980.37	4233	1420.15	16630	4400.52
1983-84	10445	2309.95	2856	913.79	13301	3223.74
1984-85	7164	1867.18	5159	1659.88	12323	3527.06
1985-86	14616	3551.65	1902	764.02	16518	4315.67
1986-87	15476	2120.19	556	241.47	16032	2361.66
1987-88	17732	2986.31	739	375.57	18471	3361.88
1988-89	17815	2861.08	4200	1036.21	22015	3897.29
1989-90	19490	4089.35	3971	1559.15	23461	5648.50
1990-91	20699	6118.42	6012	3656.29	26711	9774.71
1991-92(P)	23994	7820.05	6509	4003.62	30503	11823.67
1992-93 (P)	29247	10685.86	7564	4753.32	36811	15439.18

(P) = Provisional

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS

1986 TO 1992

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

ITEM	1986		1987		1988		1989		1990		1991(P)		1992 (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	14481	2069.65	17977	3105.25	17712	2811.28	18919	3718.63	20793	5929.62	21813	6827.57	29977	10432.44
B. Petroleum Products														
I. Light Distillates	**37**	**7.25**	**116**	**35.63**	**215**	**64.10**	**294**	**91.80**	**346**	**147.67**	**265**	**185.45**	**329**	**236.56**
1. Naphtha	17	1.85	16	3.89	–	–	–	–	–	–	–	–	–	–
2. Others	20	5.40	100	31.74	215	64.10	294	91.80	346	147.67	265	185.45	329	236.56
II. Middle Distillates	**3083**	**710.14**	**3346**	**765.77**	**4551**	**1000.41**	**5854**	**1818.79**	**6826**	**3186.89**	**9039**	**4871.63**	**9592**	**4989.73**
1. ATF	150	30.32	26	6.23	78	17.78	213	69.19	94	31.09	24	10.10	–	–
2. SKO	2078	496.06	2215	512.00	2407	552.80	2685	870.57	2953	1549.02	3495	1993.84	3346	1831.63
3. HSDO	855	183.76	1101	245.81	2066	429.83	2956	879.03	3779	1606.78	5520	2867.69	6246	3158.10
4. LDO	–	–	–	–	–	–	–	–	–	–	–	–	–	–
III. Heavy Ends	**242**	**100.67**	**197**	**83.29**	**788**	**208.85**	**341**	**195.74**	**282**	**207.08**	**418**	**476.47**	**387**	**484.87**
1. FO	–	–	–	–	465	52.19	–	–	–	–	–	–	–	–
2. Lubes	218	80.36	184	70.81	303	134.51	321	174.57	262	178.56	371	424.93	358	416.24
3. Waxes	24	21.31	13	12.48	20	22.15	20	21.17	20	28.52	21	42.21	29	68.63
4. Others	–	–	–	–	–	–	–	–	–	–	26	9.33	–	–
Total (B)	3362	818.06	3659	884.69	5554	1273.36	6489	2106.33	7454	3541.64	9722	5533.55	10308	5711.16
Grand Total (A+ B)	17843	2887.71	21636	3989.94	23266	4084.64	25408	5824.96	28247	9471.26	31535	12361.12	40285	16143.60
EXPORTS @														
A. Crude Oil	–	–	–	–	–	–	–	–	–	–	–	–	–	–
B. Petroleum Products														
I. Light Distillates	**2200**	**336.65**	**2637**	**532.11**	**2024**	**410.78**	**2384**	**627.07**	**2247**	**840.87**	**1906**	**828.47**	**2562**	**1239.59**
1. Naphtha	2184	330.19	2619	527.08	2002	403.87	2014	560.14	1608	617.27	1234	549.66	1700	836.52
2. Others	16	6.46	18	5.03	22	6.91	310	66.93	639	223.60	672	278.81	862	403.07
II. Middle Distillates	**146**	**47.90**	**172**	**44.91**	**193**	**55.86**	**60**	**17.28**	**85**	**35.44**	**221**	**137.58**	**269**	**166.46**
1. HSD/LDO	75	24.22	88	22.42	99	27.67	28	8.16	43	16.93	124	74.26	144	88.76
2. Others	71	23.68	84	22.49	94	28.19	32	9.12	42	18.51	97	63.32	125	77.70
III. Heavy Ends	**18**	**4.77**	**646**	**85.05**	**50**	**6.21**	**87**	**10.49**	**273**	**65.09**	**350**	**75.08**	**1160**	**252.33**
1. FO	16	3.76	644	84.02	49	5.43	84	9.52	272	64.82	347	73.08	1154	249.20
2. Others	2	1.01	2	1.03	1	0.78	3	0.97	1	0.27	3	2.00	6	3.13
Total (B)	2364	389.32	3455	662.07	2267	472.85	2531	654.84	2605	941.40	2477	1041.13	3991	1658.38
Grand Total (A+ B)	2364	389.32	3455	662.07	2267	472.85	2531	654.84	2605	941.40	2477	1041.13	3991	1658.38
NET IMPORTS														
A. Crude Oil	14481	2069.65	17977	3105.25	17712	2811.28	18919	3718.63	20793	5929.62	21813	6827.57	29977	10432.44
B. Petroleum Products	998	428.74	204	222.62	3287	800.51	3958	1451.49	4849	2600.24	7245	4492.42	6317	4052.78
Total (Net Imports)	15479	2498.39	18181	3327.87	20999	3611.79	22877	5170.12	25642	8529.86	29058	11319.99	36294	14485.22

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

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS DURING 1987-88 TO 1992-93

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

ITEM	1987-88		1988-89		1989-90		1990-91		1991-92*		1992-93*	
	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	**17732**	**2986.31**	**17815**	**2861.08**	**19490**	**4089.35**	**20699**	**6118.42**	**23994**	**7820.05**	**29247**	**10685.86**
B. Pol. Products												
I. Light Distillates	**169**	**50.26**	**245**	**71.79**	**310**	**103.34**	**334**	**164.26**	**262**	**200.37**	**336**	**225.86**
1. Naphtha	-	-	-	-	-	-	-	-	-	-	-	-
2. LPG	149	44.98	241	70.26	302	98.07	329	160.26	215	148.38	328	218.33
3. Others	20	5.28	4	1.53	8	5.27	5	4.00	47	51.99	8	7.53
II. Middle Distillates	**3767**	**878.67**	**5469**	**1271.69**	**5912**	**1941.18**	**8047**	**4253.60**	**8720**	**4485.25**	**10622**	**5700.31**
1. ATF	39	9.64	43	11.21	268	87.98	27	7.98	24	10.10	-	-
2. SKO	2287	547.49	2924	709.08	2596	888.78	3340	1963.37	3367	1824.50	3463	2008.97
3. HSD	1425	317.97	2502	551.40	3048	964.42	4680	2282.25	5329	2650.65	7159	3691.34
III. Heavy Ends	**246**	**98.96**	**781**	**216.36**	**342**	**210.19**	**279**	**242.35**	**463**	**532.65**	**325**	**433.43**
1. Furnace Oil	-	-	465	53.58	-	-	-	-	-	-	-	-
2. Lubes	231	85.31	292	135.81	322	183.24	256	207.91	412	467.75	296	363.05
3. Waxes	15	13.65	24	26.97	20	26.95	23	34.44	25	55.56	29	70.38
4. R.P. Coke	-	-	-	-	-	-	-	-	26	9.34	-	-
TOTAL(B)	**4151**	**1024.32**	**6495**	**1559.84**	**6564**	**2254.71**	**8660**	**4660.21**	**9445**	**5218.27**	**11283**	**6359.60**
G. TOTAL(A+B)	**21883**	**4010.63**	**24310**	**4420.92**	**26054**	**6344.06**	**29359**	**10778.63**	**33439**	**13038.32**	**40530**	**17045.46**
EXPORTS @@												
A. Crude Oil	-	-	-	-	-	-	-	-	-	-	-	-
B. Pol. Products												
I. Light Distillates	**2637**	**522.94**	**2067**	**456.67**	**2378**	**668.41**	**2124**	**847.90**	**2117**	**944.18**	**2435**	**1203.67**
1. Naphtha	2618	517.59	1984	440.87	1932	561.91	1520	621.87	1423	644.30	1518	769.31
2. Others	19	5.35	83	15.80	446	106.50	604	226.03	694	299.88	917	434.36
II. Middle Distillates	**176**	**46.21**	**215**	**63.17**	-	-	**161**	**65.96**	**232**	**161.02**	**275**	**167.69**
1. HSD/LDO	89	22.20	100	28.98	-	-	82	31.54	125	86.00	146	87.95
2. Others	87	24.01	115	34.19	-	-	79	34.42	107	75.02	129	79.74
III. Heavy Ends	**599**	**79.60**	**13**	**3.79**	**215**	**27.15**	**363**	**90.06**	**587**	**109.45**	**1009**	**234.92**
1. FO/LSHS	598	78.71	10	2.12	215	27.15	357	88.50	583	106.93	1003	231.84
2. Others	1	0.89	3	1.67	-	-	6	1.56	4	2.52	6	3.08
TOTAL(B)	**3412**	**648.75**	**2295**	**523.63**	**2593**	**695.56**	**2648**	**1003.92**	**2936**	**1214.65**	**3719**	**1606.28**
GRAND TOTAL(A+B)	**3412**	**648.75**	**2295**	**523.63**	**2593**	**695.56**	**2648**	**1003.92**	**2936**	**1214.65**	**3719**	**1606.28**
NET IMPORTS												
A. Crude Oil	17732	2986.31	17815	2861.08	19490	4089.35	20699	6118.42	23994	7820.05	29247	10685.86
B. Pol. Products	739	375.57	4200	1036.21	3971	1559.15	6012	3656.29	6509	4003.62	7564	4753.32
GRAND TOTAL	**18471**	**3361.88**	**22015**	**3897.29**	**23461**	**5648.50**	**26711**	**9774.71**	**30503**	**11823.67**	**36811**	**15439.18**

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

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

(Rs/Crores)

Year	India's Overall Trade					India's Trade with OPEC Countries					% of India's trade with OPEC to India's total trade	
	Exports	Imports	Balance of Trade	% variation Over Preceding Year		Exports	Imports	Balance of Trade	% variation over preceding Year			
				Exports	Imports				Exports	Imports	Exports	Imports
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
1970-71	1535	1634	-99	8.6	3.3	99	126	-27	-	-	6.4	7.7
1971-72	1608	1825	-217	4.8	11.7	76	182	-106	-23.2	44.4	4.7	10.0
1972-73	1971	1867	+ 104	22.6	2.3	94	200	-106	23.7	9.9	4.8	10.7
1973-74	2523	2955	-432	28.0	58.3	187	532	-345	98.9	166.0	7.4	18.0
1974-75	3329	4519	-1190	32.0	52.9	467	1100	-633	149.7	106.8	14.0	24.3
1975-76	4036	5265	-1229	21.2	16.5	633	1166	533	35.5	6.0	15.7	22.1
1976-77	5142	5074	+ 68	27.4	-3.6	707	1296	589	11.7	11.1	13.8	25.5
1977-78	5408	6020	-612	5.2	18.6	674	1340	666	-4.7	3.4	12.5	22.3
1978-79	5726	6811	-1085	5.9	13.1	733	1382	649	8.8	3.1	12.8	20.3
1979-80	6418	9143	-2725	12.1	34.2	717	2410	1693	-2.2	74.4	11.2	26.4
1980-81	6711	12549	-5838	4.6	37.3	745	3488	-2743	3.9	44.7	11.1	27.8
1981-82	7806	13608	-5802	16.3	8.4	940	3770	-2830	26.2	8.1	12.0	27.6
1982-83	8803	14293	-5490	12.8	5.0	820	3899	-3079	-12.8	3.4	9.8	27.2
1983-84	9771	15831	-6060	11.0	10.8	882	3225	-2343	7.6	17.3	9.0	20.4
1984-85	11744	17134	-5390	20.2	8.2	944	3326	2282	7.0	3.1	8.0	19.0
1985-86	10895	19658	-8763	(-)7.2	14.7	835	3420	-2585	-11.5	2.8	7.7	17.4
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	20232	28235	-8003	29.1	26.9	1207	3681	-2474	23.2	10.9	6.0	13.0
1989-90	27681	35416	-7735	36.8	25.4	1841	5074	-3233	52.5	37.8	6.7	14.3
1990-91	32553	43193	-10640	17.6	22.0	1831	7041	-5210	-0.5	38.8	5.6	16.3
1991-92(P)	44042	47851	-3809	35.3	10.8	3852	9499	-5647	110.4	34.9	8.7	19.9
1992-93(P)	53351	62923	-9572	21.1	31.5	5156	13779	-8623	33.9	45.1	9.7	21.9

(P) = Provisional

Source : Ministry of Commerce / Economic Survey.

INDIA'S FOREIGN EXCHANGE RESERVES (1970-71 TO 1992-93)

Year	S.D.R.S. Million	GOLD* (Rs. Crores)	Foreign Exchange (Rs. Crores)
1	2	3	4
1970-71	148.9	182.53	438.12
1975-76	202.8	182.53	1491.70
1976-77	187.4	187.80	2862.99
1977-78	161.6	193.09	4499.75
1978-79	364.9	219.50	5219.86
1979-80	529.1	224.71	5163.66
1980-81	490.5	225.58	4822.12
1981-82	425.1	225.58	3354.47
1982-83	270.2	225.58	4265.26
1983-84	216.4	225.58	5497.9
1984-85	146.5	245.76	6818.78
1985-86	115.1	274.28	7384.35
1986-87	139.4	274.28	7645.17
1987-88	69.7	274.28	7287.14
1988-89	79.5	274.28	6604.60
1989-90	81.9	280.70	5787.20
1990-91	75.9	6828.30	4388.10
1991-92	65.7	9038.80	14578.00
1992-93(P)	55.4	10548.80	20140.00

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

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

INDIA'S IMPORTS AS A PROPORTION TO OVERALL EXPORTS FROM THE COUNTRY 1970-71 TO 1992-93.

(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	20232	19708	21.9	19.8
1989-90	6344	5648	27681	26985	22.9	20.9
1990-91	10779	9775	32553	31549	33.1	31.0
1991-92(P)	13038	11824	44042	42827	29.6	27.6
1992-93(P)	17046	15439	53351	51745	32.0	29.8

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

XIII. NO. OF PERSONS EMPLOYED

NO. OF PERSONS EMPLOYED IN THE PETROLEUM INDUSTRY IN INDIA

(Number)

	CATEGORY	1975	1980	1985	1989	1990	1991	1992	1993
	1.	2.	3.	4.	5.	6.	7.	8.	9.
1.	Exploration & Production	27067	31413	48700	55656	56477	58187	58627	58864
2.	Refining	12327	15334	23074	24188	25751	26479	29656	23386
3.	Marketing	19072	19920	27717	34615	36261	33074	35353	38414
4.	Pipelines	1388	2215	2901	3019	3189	3579	3711	3312
5.	R & D	-	-	-	-	-	-	-	3035
6.	Others	2616	3415	4480	4362	8268	8359	8446	14340
	Grand Total	**62470**	**72297**	**106872**	**121840**	**129946**	**129678**	**135793**	**141351**

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

(Number)

	CATEGORY	1975	1980	1985	1989	1990	1991	1992	1993
	1.	2.	3.	4.	5.	6.	7.	8.	9.
1.	Executive/ Managerial	6461	9311	21108	28588	31178	32446	35848	39434
2.	Supervisory	6659	6512	10432	11067	12229	12744	11713	9623
3.	Clerical	11723	12403	15878	16407	17254	15993	17511	17633
4.	Workmen	37611	44057	59313	63617	65475	63795	65479	66201
5.	TOTAL	61454	72283	106731	119679	126136	124978	130551	132891
6.	Expatriates/ Foreign Experts/ On Contract	16	14	141	2161	3810	4700	5242	8460
	GRAND TOTAL	**62470**	**72297**	**106872**	**121840**	**129946**	**129678**	**135793**	**141351**

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	1975	1980	1985	1989	1990	1991	1992	1993
1.	2.	3.	4.	5.	6.	7.	8.	9.
EXPLORATION AND PRODUCTION								
1. Executive/ Managerial	1967	3394	10183	14432	15864	17473	18944	17447
2. Supervisory	3538	1994	4537	5092	5594	6040	4992	4794
3. Clerical	3538	3795	5438	4938	4749	4728	4689	4625
4. Workmen	18013	22216	28401	29423	28712	28610	28628	31156
5. TOTAL	27056	31399	48559	53885	54919	56851	57253	58022
6. Expatriates/ Foreign Experts/ Contract	11	14	141	1771	1558	1336	1374	842
GRAND TOTAL	**27067**	**31413**	**48700**	**55656**	**56477**	**58187**	**58627**	**58864**
PETROLEUM REFINING @								
1. Executive/ Managerial	818	2055	3878	4602	5009	5287	6261	4527
2. Supervisory	1313	1050	1648	1071	1216	1471	1653	1432
3. Clerical	1568	1791	2728	3265	3427	3256	4514	2773
4. Workmen	8626	10438	14820	14942	14995	14856	15649	12012
5. TOTAL	12325	15334	23074	23880	24647	24870	28077	20744
6. Expatriates/ Foreign Experts/ Contract	2	-	-	308	1104	1609	1579	2642
GRAND TOTAL	**12327**	**15334**	**23074**	**24188**	**25751**	**26479**	**29656**	**23386**
MARKETING								
1. Executive/ Managerial	3519	3318	6047	8320	8586	7884	8644	8526
2. Supervisory	910	1591	1441	2163	2222	2041	1851	2061
3. Clerical	5870	5820	6533	7106	7030	5746	5984	6085
4. Workmen	8770	9191	13696	16964	17302	15716	16644	16912
5. TOTAL	19069	19920	27717	34553	35140	31387	33123	33584
6. Expatriates/ Foreign Experts/ Contract	3	-	-	62	1121	1687	2230	4830
GRAND TOTAL	**19072**	**19920**	**27717**	**34615**	**36261**	**33074**	**35353**	**38414**

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

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

(1981-82 = 100)

Year	Petroleum Crude & Natural Gas	Petroleum Products									Energy Items				All Commodities
		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	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1982-83	103.1	102.4	101.1	104.1	103.3	102.9	102.9	102.1	101.2	103.1	115.9	127.0	116.5	111.5	104.9
1983-84	99.6	103.3	108.6	109.2	108.7	107.2	104.9	103.2	108.2	101.7	128.2	137.6	142.1	120.5	112.8
1984-85	103.0	104.5	109.4	110.3	108.5	109.1	106.1	104.3	110.2	102.2	155.1	153.2	180.8	124.8	120.1
1985-86	103.0	120.6	121.8	128.5	117.0	124.5	121.3	120.9	127.5	116.8	159.1	155.0	189.0	139.6	125.4
1986-87	99.3	127.0	129.9	139.7	120.2	124.5	121.3	124.2	135.1	116.8	174.5	162.2	193.2	153.5	132.7
1987-88	93.5	130.6	129.9	142.6	122.1	124.5	121.4	123.9	123.7	116.8	183.0	162.2	193.1	166.7	143.5
1988-89	89.1	145.2	129.9	139.7	119.8	124.5	121.6	148.3	130.1	117.8	212.3	162.2	197.3	176.6	154.2
1989-90	91.8	146.0	129.9	140.9	120.0	124.9	121.5	152.2	131.0	117.9	231.8	162.2	218.9	187.7	165.7
1990-91	99.6	187.3	144.3	193.7	155.2	139.1	134.7	182.1	133.3	125.8	232.6	162.2	242.9	200.9	182.7
1991-92	101.0	238.8	150.8	247.3	173.0	166.1	160.5	226.5	145.6	146.5	249.9	177.4	255.2	222.8	207.8
1992-93	102.7	263.9	146.7	278.6	195.9	197.0	188.5	275.5	178.3	172.8	301.2	221.6	287.8	249.0	228.7

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

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

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

* 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	16.9 1992
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ATF	KL	3537	3872	4122	4740	5240	5240	5240	5240	5240	6560	8200	9840	10838
MS 83/87	"	4908	5438	5438@	6369	6869	6769	6769	7694	7845	8944	11180	13416	14413
MS 93	"	5063	5593	5593	6421	6424	6824	6824	7749	7901	10944	13680	16416	17413
HSDO	"	2330	2650	2850	3078#	3188	3116	3116	3096	3096	3634	4542	4542	5539
SKO	"	1395	1545	1545	1822#	2047	1957	1957	1957	1957	1957	2446	2202	2202
LDO	"	2227	2506	2656	3054	3054	3054	3054	3054	3054	3054	3817	4199	5396
Furnace Oil														
For non-ferts	"	2189	2424	2524	2903	2903	2903	2903	2903	2903	2903	3629	3992	4989
For ferts*	"	1039	1274	1274+	1320	1320	1320	1320	1320	1320	1320	1650	1815	2812
Bitumen St. Gr.														
Bulk	MT	2061	2323	2196	2575	2575	2575	2575	2575	2575	2575	3219	3540	4538
Packed	"	2346	2608	2696	3100	3100	3100	3100	3100	3100	3100	3875	4262	5259
Naphtha														
For non-ferts*	MT	2792	2792	2792	3211	3211	3211	3211	3211	3211	3211	4014	4415	6076
For ferts.*	"	1371	1723	1723	1982	1982	1982	1982	1982	1982	1982	2478	2726	3723
JBO*	"	1999	2358	2358	2712	2712	2712	NA	NA	2712	2712	NA	NA	NA
SBPS 64/69*	KL	3331	3629	3629	4173	4173	4173	NA	NA	4173	4173	NA	NA	NA
Hexane*	"	3331	3629	3629	4173	4173	4173	NA	NA	4173	4173	NA	NA	NA
MTO 140/205*	"	2044	2348	2348	2700	2700	2700	NA	NA	2700	2700	NA	NA	NA
MTO Laws*	"	2126	2430	2430	2794	2794	2794	NA	NA	2794	2794	NA	NA	NA
LPG Packed:														
Domestic	MT	2301	2634	2634	3029	3729	3449	3449	3449	3449	3449	3449	4139	5136
Non-Domestic (Essential)	"	2595	2928	2928	3978	3978	3978	5001	5001	5001	5001	6251	6877	12588
" (Non-Essential)	"	--	--	--	5128	5128	5128	6151	6151	6151	6151	7689	8458	14169

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 1.4.1993

(Rs./Kl)

	DELHI	CALCUTTA	BOMBAY	MADRAS	KANPUR
MOTOR SPIRIT 87 ON					
EX-MI PRICE	14413.21	14413.21	14413.21	14413.21	14413.21
PIPELINE CHARGES/B. TAX	-	-	-	-	-
FRT. DIFF./SHRINKAGE/					
RLY. FREIGHT (INCL. OF SDG/SHU	92.53	29.87	-	-	277.28
STATE SURCHARGE	25.00	262.54	155.45	560.68	25.00
OCTROI/T. TAX	-	20.00	211.12	-	-
TOOL TAX/GOODS TAX	-	2.88	-	-	-
R.P.O. CHARGES	11.36	11.36	11.36	11.36	11.36
R.P.O. SURCHARGE	60.00	60.00	60.00	60.00	60.00
DELIVERY CHARGE FDZ	-	-	-	-	-
SUB TOTAL	14602.10	14799.86	14851.14	15045.25	14786.85
CST/ENTRY TAX	-	-	-	-	-
SHRINKAGE	-	-	-	-	-
SALES TAX	1022.15	1479.99	2970.23	3009.05	1478.69
SURCHARGE ON S.T.	-	-	-	451.36	-
ADDL. TAX	-	222.00	-	150.45	-
DEALERS COMM.	80.00	80.00	80.00	80.00	80.00
TOTAL Rs./KL	15704.25	16581.85	17901.37	18736.11	16345.54
R.S.P. Rs./LTR.	15.71	16.59	17.91	18.74	16.35
HIGH SPEED DIESEL OIL					
EX-MI PRICE	5539.01	5539.01	5539.01	5539.01	5539.01
PIPE LINE CH/B.TAX	-	-	-	-	-
FRT. DIFFERENTIAL/RLY. FRIEGHT	76.79	21.93	-	-	227.02
STATE SURCHARGE	25.00	88.88	54.45	189.81	5.00
OCTROI/T. TAX	-	20.00	71.47	-	-
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	5668.07	5699.97	5692.20	5756.09	5798.30
CST/ENTRY TAX	-	-	-	-	-
SHRINKAGE	-	-	-	-	-
SALES TAX	453.45	684.00	1138.44	920.97	695.80
SC ON ST./ADDL. TAX	-	-	-	138.15	-
DEALERS COMM.	40.00	40.00	40.00	40.00	40.00
SHRINKAGE/ADDL. TAX	-	-	-	46.05	-
Rs./KL	6161.52	6423.97	6870.64	6901.26	6534.10
R.S.P. Rs./LTR	6.17	6.43	6.88	6.91	6.54

PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS AS ON 1.4.1993

(Rs./Kl)

	DELHI	CALCUTTA	BOMBAY	MADRAS	KANPUR
SUPERIOR KEROSENE OIL					
EX. DEPOT RATE	2290.92	2201.54	-	2201.54	2387.88
RLY. FRT./FRT. DIFF.	-	20.81	-	92.01 $	-
EX-MI. PRICE	-	2222.35	2201.54	2293.55	-
SALES TAX/CST	68.73	113.27	-	91.74	238.79
STATE SURCHARGE	-	43.08	29.51	-	-
OCTROI	-	-	34.64	-	-
SURCHARGE ON ST/ADDL. TAX	-	-	-	18.35	-
SUBTOTAL	-	2378.70	2265.69	-	-
ENTRY TAX/TOLL TAX/SSB T.	-	-	-	-	-
TRANSPORTATION	98.04	60.00	58.25	32.00	50.00
WHOLESALERS/DEALERS COMM.	9.83	30.30	30.30	8.00	30.00
OCTROI	-	-	-	-	-
LEAKAGE, EXT. ORD. EXP.	-	-	19.50	27.04	-
OTHER EXPENSES	-	-	6.26	21.00	-
SUBTOTAL	2467.52	2469.00	2380.00	2491.68	2706.97
WHOLESALE RATE	2467.52	2469.00	-	-	2706.97
RETAILERS MARGIN	75.00	39.70	39.70	308.35	50.00
LOCAL TRANSPORTAION	-	107.93	19.00	-	20.00
OTHER INCIDENTAL CHARGES	-	130.00	-	-	-
TOTAL Rs./KL	2542.52	2746.63	2440.00	2800.00	2776.97
R.S.P. Rs./LTR	2.54	2.75	2.44	2.80	2.78
FURNACE OIL					
EX-MI PRICE	4988.81	4988.81	4988.81	4988.81	-
STATE SURCHARGE	25.00	78.11	52.60	166.82	-
RLY FRT./FRT. DIFFERENTIAL	128.41	24.31	-	-	-
OCTROI/SSB T. TAX	-	20.00	62.81	-	-
SUBTOTAL	5142.22	5111.23	5104.22	5155.63	-
ENTRY TAX	-	-	-	-	-
SUBTOTAL	5142.22	5111.23	5104.22	5155.63	-
DEPOT RATE Rs./KL	5142.22	5111.23	5104.22	5155.63	-

$: Refers to State Surchage

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

PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS AS ON 1.4.1993

(Rs./Kl)

	DELHI	CALCUTTA	BOMBAY	MADRAS	KANPUR
LIQUIFIED PETROLEUM GAS (Rs./14.2 Kg. Cyl.)					
PRICE AT PRICING POINT	79.11	79.14	77.04	77.04	79.74
STATE SURCHARGE	-	1.21	0.81	2.59	-
FRT/LOCAL DELIVERY CHARGE	0.75	0.75	0.75	0.75	0.75
OCTROI	-	0.54	0.98	-	-
SUBTOTAL	79.86	81.64	79.58	80.38	80.49
SALES TAX	3.99	12.25	3.18	6.43	6.44
SC ON ST	-	1.84	-	0.96	1.61
ADDL. SC ON ST	-	-	-	0.32	-
BILLABLE RATE	83.85	95.73	82.76	88.09	88.54
DIST. COMM.	3.37	3.37	3.37	3.37	3.37
R.S.P. FOR 15 KG. CYL.	87.22	99.10	86.13	91.46	91.91
R.S.P. FOR 14.2 KG. CYL.	82.57	93.81	81.54	86.58	87.01
ATF (DOMESTIC AIRLINES)					
EX-MI PRICE	10837.56	10837.56	10837.56	10837.56	10837.56
FRT. DIFFERENTIAL	-	20.39	-	-	-
RLY. FRT.	96.33	-	-	-	296.04
BMC OCTROI/LOCAL LEVY	-	-	-	-	10.00
ENTRY TAX	-	221.50	-	-	-
SHAKURBASTI T. TAX	-	-	-	-	-
STATE SURCHARGE	25.00	192.57	272.82	411.25	-
AIR FIELD CHARGE	24.44	24.44	24.44	24.44	41.94
POSTED AIR FIELD PRICE	10983.33	11296.46	11134.82	11273.25	11185.54
ATF (INTERNATIONAL AIRLINES) US$/KL					
BASIC PRICE	235.11	235.11	235.11	235.11	-
ENTRY TAX/LOCAL LEVIES	-	4.70	-	-	-
SALES TAX	16.46	59.95	70.53	47.02	-
SC ON SALES TAX	-	8.99	-	7.05	-
ADDL. SC ON ST	-	-	-	2.35	-
TOTAL FOR NON-SCH. AIRLINES	251.57	308.75	305.64	291.53	-
TOTAL FOR SCH. FOREIGN AIRLINE NON-SCH. PASSENGER AIRCRAFT	235.11	239.81	235.11	235.11	-

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
01.04.1993	17.91	16.59	15.71	18.74	16.35
		HIGH SPEED DIESEL OIL (Rs./Litre)			
01.01.1973	0.83	0.90	0.86	0.87	0.88
01.01.1974	0.81	0.87	0.84	0.88	0.87
01.01.1975	1.06	1.10	1.11	1.15	1.15
01.01.1976	1.28	1.35	1.36	1.36	1.32
01.01.1977	1.27	1.36	1.34	1.35	1.33
01.01.1978	1.27	1.36	1.34	1.35	1.33
01.04.1979	1.39	1.49	1.47	1.49	1.50
17.08.1979	1.58	1.68	1.66	1.66	1.69
11.09.1979	1.50	1.60	1.58	1.59	1.61
08.06.1980	2.21	2.25	2.28	2.24	2.34
13.01.1981	2.61	2.66	2.67	2.66	2.76
11.07.1981	2.96	3.01	3.02	3.05	3.11
01.04.1982	2.96	3.01	3.02	3.05	3.11
15.02.1983	3.21	3.31	3.18	3.27	3.46
01.04.1983	3.21	3.30	3.19	3.26	3.40
01.04.1984	3.21	3.30	3.20	3.34	3.42
01.06.1984	3.27	3.30	3.22	3.34	3.42
17.03.1985	3.52	3.35	3.47	3.60	3.70
26.03.1985	3.45	3.48	3.39	3.52	3.60
01.02.1986	3.64	3.68	3.58	3.73	3.81
06.02.1986/01.04.1986	3.57	3.60	3.50	3.65	3.73
01.04.1987	3.63	3.59	3.50	3.64	3.84
01.04.1988	3.63	3.59	3.50	3.64	3.84
01.04.1989	3.63	3.59	3.50	3.69	3.83
01.04.1990	4.30	4.20	4.08	4.36	4.44
01.04.1991	5.62	5.20	5.05	5.42	5.42
01.04.1992	5.68	5.31	5.05	5.72	5.42
01.04.1993	6.88	6.43	6.17	6.91	6.54

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	2.05
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	2.50
01.04.1989	2.17	2.27	2.25	2.27	2.50
01.04.1990	2.17	2.27	2.25	2.29	2.50
01.04.1991	2.66	2.90	2.77	2.95	3.04
01.04.1992	2.44	2.70	2.52	2.80	2.78
01.04.1993	2.44	2.75	2.54	2.80	2.78
			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	27.61
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	53.06
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@
01.04.1993	81.54	93.81@	82.57@	86.58@	87.01@

@ : 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
	Prior to .1.7.1982			Effective From 1.7.1982				Prior to 1.7.1982			Effective from 1.7.1982				
	0-	481-	Over	0-	361-	601-	Over	0-	601-	Above	0-	361-	601-	above	Rs./
	480	1080	1080	360	600	1080	1080	600	1200	1200	630	600	1080	1080	Cylinder
	(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.
01.04.1977	80*	50*	35*	--	--	--	--	50	25	20	--	--	--	--	Prior to
15.07.1980	100	70	50	--	--	--	--	55	30	25	--	--	--	--	1st March
01.03.1981	107	75	55	--	--	--	--	58	33	28	--	--	--	--	1982
16.08.1981	114	82	61	--	--	--	--	60	35	30	--	--	--	--	3.37
01.03.1982	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.62
01.10.1982	--	--	--	134	98	86	69	--	---	--	79	58	42	36	
15.02.1983	--	--	--	--	--	--	--	--	--	--	81	60	43	37	
01.09.1983	--	--	--	135	99	87	70	--	--	--	--	--	--	--	--
17.03.1985	--	--	--	146	108	95	76	--	--	--	83	62	44	38	--
06.02.1986	--	--	--	151	113	99	79	--	--	--	84	63	45	39	--
19.01.1987	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.30**
09.01.1988	--	--	--	164	124	109	87	--	--	--	--	--	--	--	--
21.10.1989	--	--	--	234	165	148	128	--	--	--	129	87	69	63	--
20.03.1990	--	--	--	250	179	160	138	--	--	--	135	92	72	66	--
15.10.1990	--	--	--	279	204	182	155	--	--	--	145	101	77	70	--
17.05.1991	--	--	--	311	233	206	174	--	--	--	--	--	--	--	5.70
16.09.1992	--	--	--	321	240	214	180	--	--	--	155	111	83	75	5.70
01.04.1993	--	--	--	381	277	248	217	--	--	--	186	128	101	92	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 1986-87 TO 1992-93, (RE) FOR 1993-94

(Rs. Crores)

Products	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94 (RE)
	< ACTUALS >							
1	2	3	4	5	6	7	8	9
A. EXCISE DUTIES								
1. Mogas	814	903	1034	1200	1202	1245	1287	1346
2. Kerosene Oil	233	250	241	268	255	246	239	288
3. Refined Diesel Oil	596	646	683	731	693	703	743	747
4. Diesel Oil (NOS)	27	28	29	38	35	40	34	41
5. Furnace Oil	37	34	46	53	49	57	64	51
6. Pol. Products (NOS)	277	280	314	359	421	433	427	554
7. Petroleum Gases	50	58	59	66	66	72	79	92
8. Cess on Crude Oil	980	1770	2029	2947	2757	2466	2169	2475
TOTAL (A)	**3014**	**3969**	**4435**	**5662**	**5478**	**5262**	**5042**	**5594**
B. CUSTOMS DUTIES								
1. Crude Petroleum	857	1862	1917	2149	3146	3344	4053	3972
2. Petroleum Products	218	274	396	282	555	731	1274	982
TOTAL (B)	**1075**	**2136**	**2313**	**2431**	**3701**	**4075**	**5327**	**4954**
GRAND TOTAL (A+ B)	**4089**	**6105**	**6748**	**8093**	**9179**	**9337**	**10369**	**10548**

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	1163	6.3	1.7	27.6
1977-78	79671	4448	1216	5.9	1 5	27.4
1978-79	85255	5194	1359	6.4	1.6	26.2
1979-80	92314	6148	1477	6.9	1.6	24.0
1980-81	110685	6500	1216	5.9	1.1	18.7
1981-82	128797	7421	1405	5.8	1.1	18.9
1982-83	141875	8059	1604	5.7	1.1	19.9
1983-84	166550	10222	2269	6.2	1.4	22.2
1984-85	185018	11151	2449	6.0	1.3	22.0
1985-86	206133	13008	2718	6.3	1.3	20.9
1986-87	228402	14489	3014	6.3	1.3	20.8
1987-88	258891	16347	3969	6.3	1.5	24.3
1988-89	310100	18825	4435	6.1	1.4	23.6
1989-90	354526	22290	5662	6.3	1.6	25.4
1990-91	413943	24451	5478	5.9	1.3	22.4
1991-92	473246	28121	5262	5.9	1.1	18.7
1992-93	NA	32500	5042	NA	NA	15.5

SOURCE : i) Government of India's Economic Survey for N.N.P.
ii) Budget papers of Central Government.
iii) National Accounts Statistics,1993.

NA : Not available.

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	1163	112	1275	529.00
1977-78	25539	1216	127	1343	525.90
1978-79	28241	1359	190	1549	548.50
1979-80	29883	1477	213	1690	565.50
1980-81	30896	1216	354	1570	508.20
1981-82	32523	1405	288	1693	520.60
1982-83	34657	1604	256	1860	536.70
1983-84	35841	2269	219	2488	694.20
1984-85	38795	2449	472	2921	752.90
1985-86	40872	2718	1050	3768	921.90
1986-87	43662	3014	1075	4089	936.50
1987-88	46416	3969	2136	6105	1315.30
1988-89	50092	4435	2313	6748	1347.10
1989-90	54095	5662	2431	8093	1496.10
1990-91	55035	5478	3701	9179	1667.80
1991-92	56974	5262	4075	9337	1638.80
1992-93 (P)	59205	5042	5327	10369	1751.40

(P) = Provisional

ROYALTY AND OIL DEVELOPMENT CESS PAID BY OIL COMPANIES ON PRODUCTION OF CRUDE OIL AND NATURAL GAS SINCE 1973-74 TO 1992-93

(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	17723	19385	964	38072	52885	90957	1910	428	216	18859	21413	250077
1992-93*	47037	31248	2672	80957	126902	207859	2391	512	720	17229	20852	219198

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 condensate 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.

5. Figures of Crude Oil royalty for 1992-93 includes arrears of royalty on Crude Oil for the period 1.4.90 to 31.3.92 arisen consequent upon increase in Crude Oil royalty rate from Rs.314 to Rs.481 per MT w.e.f. 1.4.90

* = Provisional

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

(Rupees/Selling Unit

PRODUCTS	Selling Unit	w.e.f. 17.8.79	w.e.f. 11.9.79	w.e.f. 8.6.80	w.e.f. 13.1.81	w.e.f. 11.7.81	w.e.f. 15.2.83	w.e.f. 1.4.83	w.e.f. 1.9.83	w.e.f. 1.4.84/ 1.4.85/ 1.4.86/ 1.4.87/ 1.3.88/	w.e.f. 1.3.88 upto 25.7.91	w.e.f. 28.2.93
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
1. Av. gas 100/130	KL	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2437.59
2. Av. gas115/145	KL	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2435.85
3. Av. gas 73	KL	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2326.79	2436.84
4. M.S. 87 @@	KL	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2327.50	2438.82
5. M.S. 93	KL	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2328.92	2440.31
6. A.T.F.	KL	402.56	402.56	333.52@	333.52	333.52	333.52	333.52	333.52	333.52	352.07	369.83
7. S.K.O.	KL	402.63	333.59	333.59@	333.59	333.59	333.59	333.59	333.59	333.59	330.44	330.44
8. H.S.D.O.	KL	399.15	330.00	330.00@	330.00	330.00	330.00	330.00	330.00	330.00	347.49	347.74
9. L.D.O.	KL	153.96	153.96	153.96	153.96	153.96	153.96	153.96	153.96	153.96	160.91	173.02
10. F.O. (Fert. Use)*	KL	125.82	125.82	125.82	125.82	125.82	125.82	125.82	125.82	125.82	*	*
11. F.O. (Non-Ferts Use)	KL	125.82	125.82	125.82	125.82	125.82	125.82	125.82	125.82	125.82	150.71	158.38
12. Bitumen (Bulk)	MT	110.30	110.30	110.30	110.30	110.30	110.30	110.30	110.30	110.30	115.50	175.00
13. Bitumen' (Packed)	MT	157.55	157.55	157.55	157.55	157.55	157.55	157.55	157.55	157.55	168.00	175.00
14. LPG(Domes. Packed)	MT	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	273.00	285.0
15. LPG (Indust.) Bulk	MT	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	273.00	285.0
16. Naphtha* (Fert. Use)	MT	4.50	4.36	4.36	4.36	4.36	-	-	4.40	4.40	4.00	5.50
17. Naphtha* (For Non-Fert. Use)	MT	26.50	26.50	26.50	26.50	26.50	-	-	26.25	26.25	26.25	66.00

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

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

@ Revision effective from 11.9.1979.

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

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

EXCISE AND CUSTOM DUTIES IN THE BASIC CEILING SELLING PRICES (BCSP) OF POL PRODUCTS EX-STORAGE POINT EFFECTIVE FROM 28.2.1993

(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	10837.56	369.83	3.4
Motor Spirit 87	KL	14413.21	2438.82	16.9
Motor Spirit 93	KL	17413.21	2440.31	14.0
H.S.D.O.	KL	5539.01	347.74	6.3
S.K.O.	KL	2201.54	330.44	15.0
L.D.O.	KL	5396.31	173.02	3.2
F.O. (Non-Fertilizers)	KL	4988.81	158.38	3.2
F.O. (Fertilizers) *	KL	2812.43	-	-
Bitumen St.Grade (Bulk)	MT	4537.52	175.0	3.9
Bitumen St.Grade (Packed)	MT	5259.48	175.0	3.3
Naphtha for non-Ferts.*	MT	6075.69	-	-
Naphtha for Ferts. *	MT	3722.78	5.50	0.1
LPG Packed :				
Domestic	MT	5135.88	285.0	5.5
Non-Domestic (Essential)	MT	12587.77	285.0	2.3
Non-Domestic (Non-Essential)	MT	14169.41	285.0	2.0

* = 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 1.4.1993.

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%	20%	30% Bonded & duty paid 9%	6%
4.	Aviation Turbine Fuel	27.31%	No Tax	25%	25%	20%	30% Bonded & duty paid 23%	6%
5.	Motor Spirit	27.31%	Do	12%	9%	17%	20%	6%
6.	H.S.D.	17.44%	Do	11%	14%	17%	18%	6%
7.	L.D.O.	17.44%	Do	11%	14%	17%	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.	-	Do	-	-	-	-	8%
11.	F.O.	6.44%	Do	8%	8%	17%	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%	17%	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	8%	9%	7%	14%	8%
21.	L.S.H.S.	6.44%	Do	8%	9%	17%	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 1.4.1993

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	4%	—	4%	4%	4%	4%	4%
2.	Natural Gas	—	—	—	—	—	8%	—
B.	**PETROLEUM PRODUCTS**							
3.	Aviation Spirit	8%	8%	20%	12.5%	14%	9% Duty paid	10%
4.	Aviation Turbine Fuel	8%	8%	20%	12.5%	14%	Bonded 30% Duty paid 23%	10%
5.	Motor Spirit	6%	4%	22%	20%	18%	20%	15%
6.	H.S.D.O.	8%	8%	20%	17%	18%	20%	7%
7.	L.D.O.	8%	8%	20%	17%	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%	10%
14.	Greases	8%	8%	15%	15%	12%	8%	4%
15.	Petroleum Naphtha	—	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%.

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SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS AS ON 1.4.1993

S.No.	PRODUCTS	Megha-laya Rs. KL/MT*	Mizo-ram Rs. KL	Naga-land Rs. KL/MT*	Orissa	Punjab **	Rajas-than	Tamil-Nadu
		15	16	17	18	19	20	21
A.	**CRUDE OIL & GAS**							
1.	Crude Oil	—	—	3%	4%	4%	4%	4%
2.	Natural Gas	7%+ 2% S/C	—	6%	—	—	—	8% + 8% Surcharge
B.	**PETROLEUM PRODUCTS**							
3.	Aviation Spirit	—	—	300	16%	8.8%	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%	20%
6.	H.S.D.O.	150+ 3.00 S/c	80	90	16%	4%	16%	16%
7.	L.D.O.	150+ 3.00 S/c	—	90	16%	8.8%	16%	16%
8.	M.L.O.	—	—	—	12%	8.8%	10%	12%
9.	S.K.O.	30	—	50	Exempted	8.8%	10%	3%
10.	I.K.O.	—	—	—	-Do-	8.8%	10%	3%
11.	F.O.	—	—	—	12%	8.8%	10%	12%
12.	M.T.O.	—	—	—	12%	8.8%	15%	12%
13.	Lubes	150+ 3.00 S/c	150	110	16%	8.8%	10%	12%
14.	Greases	110* + 2.20 S/c	150	500	16%	8.8%	10%	12%
15.	Petroleum Naphtha	—	—	—	12%	8.8%	10%	12%
16.	Bitumen	—	—	—	12%	8.8%	10%	8%
17.	Petroleum Coke	—	2%	—	4%	4%	4%	4%
18.	Indane (LPG)	10% + 2% S/C	10%	6%	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%	12%

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

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* Rupees per Tonnes.

SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS AS ON 1.4.1993

S.No.	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%	4%	—
2.	Natural Gas	12%	—	—	—	—	—
B.	**PETROLEUM PRODUCTS**						
3.	Aviation Spirit	12%	10%	9%	15 PPL	7%	12%
4.	Aviation Turbine Fuel	25%	10%	25%	15 PPL	7%	12%
5.	Motor Spirit	8%	10%	9.9%	15 PPL	7%	—
6.	H.S.D.	5%	12%	12%	10 PPL	8%	—
7.	L.D.O.	5%	12%	12%	6%	8%	—
8.	M.L.O.	—	10%	8%	6%	7%	—
9.	S.K.O.	5%	10%	5%	6%	3%	Exempted
10.	I.K.O.	4%	10%	—	—	—	Exempted
11.	F.O.	5%	6.25%	8%	6%	7%	—
12.	M.T.O.	—	10%	8%	6%	10%	7%
13.	Lubes	12%	10%	11%	6%	8%	—
14.	Greases	12%	10%	11%	6%	8%	—
15.	Petroleum Naphtha	5%	10%	8%	6%	7%	—
16.	Bitumen	5%	10%	8%	6%	7%	—
17.	Petroleum Coke	4%	4%	4%	4%	4%	—
18.	Indane (LPG)	12%	10%	15%	6%	5%	—
19.	Transformer Oil	—	10%	8%	6%	7%	—
20.	H.B. Fluid	—	10%	11%	6%	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. Wherever (-) is shown against any of the product rates, same indicates Sales Tax rate not available.

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IN ADDITION TO THE SALES TAX PAYABLE THE FOLLOWING TAX AMOUNTS ARE ALSO PAYABLE/RECOVERABLE W.E.F. 1.4.1993

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 gross turnover of Rs. 50 lakhs	.....	Nil
b)	On gross turnover exceeding Rs.50 lakhs but less than Rs. 2 crores.	.....	@ 1% of taxable turnover in excess of Rs. 50 Lakhs
c)	On gross turnover between Rs. 2 crores & Rs. 4 crores	.....	Rs. 1.5 Lakhs plus @ 1.25% of taxable turnover in excess of Rs. 2 crores.
d)	On gross turnover between Rs. 4 crores and Rs. 8 crores	.....	Rs. 4 Lakhs plus @ 1.5% on taxable turnover in excess of Rs. 4 crores.
e)	On gross turnover above Rs. 8 crores	....	Rs.10 lacs plus @ 2% of gross turnover in excess of Rs. 8 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 10% of Sales Tax is payable, but not recoverable from the customers.
   2. 4% Turnover Tax is payable but not recoverable from the customers.

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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 : (i) @ 1.25% on turnover between Rs. 12 lakhs and Rs. 1 crore (ii) @ 1.5% on turnover above Rs. 1 crore. This is payable to Govt. but cannot be recovered from the customers.
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 @ 3% is payable if the turnover is above Rs.300 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 1992-93

(Rs. in lakhs)

STATE / UTs.	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93
1. Crude Oil								
Assam	2550	3456	3407	3537	4290	4611	4428	5017
Gujarat	2248	2965	3334	3627	4731	6195	5038	6542
Arunachal Pradesh	32	40	21	22	30	32	43	50
Nagaland	31	54	45	71	83	87	48	65
Maharashtra	6965	9220	10924	6835	7428	15500	13950	16368
Tamil Nadu	-	3	9	20	152	257	257	365
Total (1)	**11826**	**15738**	**17741**	**14112**	**16714**	**26682**	**23764**	**28407**
2. Natural Gas								
Assam	114	48	366	326	422	429	417	520
Gujarat	341	347	4052	7280	11199	9952	13136	17205
Maharashtra* (Bombay High)	1356	4046	4537	4319	6204	5628	5361	6505
Arunachal Pradesh	-	-	Neg.	17	48	82	-	-
Tamil Nadu	-	-	Neg.	3	6	17	18	38
Tripura	-	3	15	18	17	53	59	93
Andhra Pradesh	-	-	-	-	-	-	317	1097
Total(2)	**1811**	**4444**	**8970**	**11963**	**17895**	**16161**	**19308**	**25458**
3. POL Products								
(a) States								
Andhra Pradesh	10758	12764	13597	14883	22318	25062	37812	41956
Assam	2688	2463	3350	3519	4509	3654	5228	5292
Bihar	7078	7936	7328	8334	10326	11239	16122	18258
Gujarat	15042	19045	21030	26328	34430	39456	54531	62218
Haryana	2026	2341	2251	2557	3764	4584	6123	6874
Himachal Pradesh	81	341	179	186	181	261	303	418
Jammu & Kashmir	483	571	542	570	686	759	1065	1261
Karnataka	10531	12311	11439	12256	16748	21801	30930	35426
Kerala	10737	13543	11642	14304	8617	27512	30518	39708
Madhya Pradesh	5061	6468	5488	7040	10160	13168	18784	20824
Maharashtra	18762	24447	20556	24245	37124	52978	72518	83192
Manipur	44	81	163	179	183	164	277	338
Meghalaya	Neg.	Neg.	1	1	1	1	1	1
Mizoram	-	1	15	18	20	19	39	95
Nagaland	Neg.	1	13	37	68	69	59	60
Orissa	1781	2032	1559	1931	2915	3958	5540	6553
Punjab	2345	3410	3474	3615	5152	6326	8059	9221
Rajasthan	5768	6332	5624	7592	11681	13508	17136	22033
Tamil Nadu	19766	21818	19083	21673	31130	39450	51775	61016
Tripura	107	115	203	256	287	264	293	336
Uttar Pradesh	13373	15269	16334	17680	22682	28995	36339	40387
West Bengal	10883	11322	10447	11524	16624	18991	23671	29452
Goa	1507	1717	1568	1373	2005	2367	3502	4994
(b) Union Territories								
Chandigarh	28	39	41	67	61	61	62	79
Delhi	3923	4259	4420	4497	6160	7829	8914	10194
Pondicherry/Mane	-	-	17	20	--	2	39	6
Total (3)	**142772**	**168626**	**160364**	**184685**	**247832**	**322478**	**429640**	**500192**
GRAND TOTAL	**156409**	**188808**	**187075**	**210760**	**282441**	**365321**	**472712**	**554057**

* = Central Govt.

Source : Compiled from Receipts of Individual companies.

(xvi) TRANSPORTATION

Tonnage of Indian Tankers Fleet

(DWT in '000' Mts.)

	COSTAL 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
1993	11	144.9	2	82.2	13	227.1	67	84.9	33	61.9	100	146.8	3	312.0	25	2441.0	34	1065.6	2	34.7	64	3853.3	177	4227.2

* : As on 31st December of each year.

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

Source : Directorate General Shipping, Bombay

INDIAN TANKER FLEET OFFSHORE SUPPLY VESSELS AS ON 31.03.1993
COASTAL OIL TANKERS, PRODUCT/CRUDE OIL CARRIERS
TANKERS (Product Carriers)

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

Contd.....

Owner/Name of the Ship	Year of Built	G.R.T. (Tonnes)	D.W.T. (Tonnes)
1	2	3	4
OFFSHORE SUPPLY VESSELS			
A. M/s.Garware Shipping Corpn.Ltd., Bombay			
1. m.v. Garware-I	1983	881	1050
2. m.v. Garware-II	1983	881	1050
3. m.v. Garware-III	1984	881	1050
4. m.v. Garware-IV	1984	881	1050
5. m.v. Garware-V	1984	881	1050
		4405	**5250**
B. The Great Eastern Shipping Co. Ltd.,Bombay			
6. m.v. Malaviya One	1983	869	1073
7. m.v. Malaviya Two	1983	870	1084
8. m.v. Malaviya Three	1984	1084	1251
9. m.v. Malaviya Four	1984	1085	1242
10. m.v. Malaviya Five	1980	650	993
11. m.v. Malaviya Six	1981	650	993
12. m.v. Malaviya Seven	1982	985	1035
13. m.v. Malaviya Eight	1982	985	1035
		7178	**8706**
C. M/s.Essar Shipping Ltd., Bombay			
14. m.v. Nand Godavari	1984	1313	1751
15. m.v. Nand Panna	1984	1313	1751
16. m.v. Nand Krishna	1984	1313	1751
17. m.v. Nand Heera	1984	1313	1751
		5252	**7004**
D. M/s India Securities Ltd., Madras			
18. m.v. Nand Cauvery	1984	1299	1868
E. M/s. 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	1758
26. m.v. C.P.Srivastava	1984	1310	1758
27. m.v. SCI-01	1984	1310	1775
28. m.v. SCI-02	1984	1310	1776
29. m.v. SCI-03	1984	1310	1771
30. m.v. SCI-04	1984	1310	1812
31. m.v. SCI-05	1984	1310	1819
32. m.v. SCI-06	1984	1310	1817
33. m.v. Capt. F.M.Juvale	1985	1310	1809
34. m.v. Dr.Nagendra Singh	1985	1310	1817
		13100	**17912**
I. 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-05	1985	1302	1450
40. m.v. Sindhu-06	1985	1302	1450
41. m.v. Sindhu-07	1985	1302	1450
42. m.v. Sindhu-08	1985	1302	1450
43. m.v. Sindhu-09	1985	1302	1450
44. m.v. Sindhu-10	1985	1302	1450
45. m.v. Sindhu-11	1985	1302	1450
46. m.v. Sindhu-12	1985	1302	1450
47. m.v. Sindhu-14	1987	1310	1450
48. m.v. Sindhu-15	1992	1323	1450
49. m.v. Samudrika - 01	1986	949	950
50. m.v. Samudrika - 02	1986	949	950
51. m.v. Samudrika - 03	1986	949	950
52. m.v. Samudrika - 04	1985	949	950
53. m.v. Samudrika - 05	1986	949	950
54. m.v. Samudrika - 06	1986	949	950
55. m.v. Samudrika - 07	1987	949	950
56. m.v. Samudrika - 08	1986	949	950
57. m.v. Samudrika - 09	1986	949	950
58. m.v. Samudrika - 10	1986	949	950
59. m.v. Samudrika - 11	1986	949	950
60. m.v. Samudrika - 12	1986	949	950
61. m.v. Samudrika - 14	1986	949	950
62. m.v. Samudrika - 15	1985	949	950
63. m.v. Samudrika - 16	1985	949	950
64. m.v. Samudrika - 17	1985	949	950
65. m.v. Samudrika - 18	1985	949	950
66. m.v. Sagarika - 01	1976	671	933
67. m.v. Sagarika - 02	1976	671	933
		35764	**38316**
Total 67 Vessels		**73266**	**84892**

Contd.....

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

SPECIALISED VESSELS FOR OFFSHORE SERVICES

A. M/s Infrastructure Leasing and Financial Services Ltd., Bombay			
1. m.v. Nand Rachit (DSV)	1980	1548	1200
B. M/s.Essar Shipping Ltd. Bombay.			
2. m.v. Nand Rewant (MSV)	1984	3966	2067
3. m.v. Nand Shamik (MSV)	1982	3964	1430
4. m.v. Essar Discoverer (Drillship)	1977	5971	5300
5. m.v. Essar Stena-I (DSV) Ex.Dynamic Constructor	1981	4485	2970
		18386	**11767**
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	407
F. M/s.Aditi Shipping Co., Bombay.			
18. m.v. Adishakti (Tug)	1976	457	279
G. M/s.South India Corpn. (Agencies) Ltd., Madras			
19. m.v. Sagar Sevak	1972	490	860
H. M/s Jaisu Shipping Co. (P) Ltd.			
20. m.v. Noorani Sea Horse	1970	99	99
21. m.v. Sagar Deep	1983	2775	1568
22. m.v. Paradeep	1984	602	162
		3476	**1829**

Contd.....

Owner/Name of the Ship	Year of Built	G.R.T. (Tonnes)	D.W.T. (Tonnes)
1	2	3	4
I. The Geological Survey of India.			
23. m.v. Samudra Manthan (S. Research)	1985	2374	1825
24. m.v. Samudra Kaustubh	1985	284	94
25. m.v. Samudra Saudhikama	1985	284	94
		2942	**2013**
J. The Council of Scientific & Industrial Research			
26. m.v. Gaveshani	1964	1634	873
27. m.v. Sagar Sampada	1984	2661	800
		4295	**1673**
K. M/s.Goa Diving & Salvage Co. Pvt. Ltd.			
28. m.v. Malacca (Tug)	1963	167	210
29. m.v. Orinoco (Tug)	1964	670	-
30. m.v. Ocean Opal (Tug)	1976	338	-
31. m.v. Ocean Ruby (Tug)	1980	717	-
		1892	**210**
L. M/s.Pearless Drive			
32. DSV Drive Ocean	1983	2248	2001
M. M/s VNS Offshore Services Co., Bombay			
33. m.v. Kansi Gouri (Tug)	1956	132	192
Total 33 Vessels		85116	61900
OVERSEAS			
ORE OIL BULK CARRIERS			
A. The Shipping Corpn.of India Ltd., Bombay.			
1. m.v. Maharshi Dayanand	1978	66926	123450
2. m.v. Maharshi Karve	1978	66926	123450
		133852	**246900**
B. M/s Essar Shipping Ltd., Bombay			
3. m.v. Nand Shivchand	1982	37813	65075
Total 3 Vessels		**171665**	**311975**

Contd.....

Owner/Name of the Ship	Year of Built	G.R.T. (Tonnes)	D.W.T. (Tonnes)
1	2	3	4
OIL TANKERS (CRUDE CARRIERS)			
A. The Shipping Corpn.of India Ltd., Bombay.			
1. m.t. Subedar Joginder Singh PVC	1984	37855	67137
2. m.t. Major Dhan Singh Thapa PVC	1984	37855	67153
3. m.t. Naik Jadunath Singh PVC	1984	37855	67169
4. m.t. Company Havildar Major Piru S.PVC	1984	37855	67161
5. m.t. Capt.Gurbachan Singh Salaria PVC	1984	37855	67161
6. m.t. Lance Naik Karam Singh PVC	1984	37855	67185
7. m.t. Major Saitan Singh PVC	1985	37855	67185
8. m.t. Major Somnath Sharma PVC	1984	37855	67225
9. m.t. Havildar Abdul Hamid PVC	1985	37855	67185
10. m.t. Col.Ardshir Burzorji Tarapore, PVC	1985	37855	67124
11. m.t. Lt.Rama Raghoba Rane, PVC	1984	37855	67227
12. m.t. Vivekananda	1974	51717	89371
13. m.t. Satyamurthi Chawra	1975	51733	89351
14. m.t. Netaji Subhas Bose	1975	51525	89392
15. m.t. Lok Manya Tilak	1973	51535	89411
16. m.t. B.R.Ambedkar	1974	51718	89454
17. m.t. Chattrapati Shivaji	1974	51718	89490
18. m.t. Rajendra Prasad	1975	63460	115723
19. m.t. 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
23. m.t. Jawaharlal Nehru	1990	51747	85422
		1236436	**2231134**
B. M/s.Ratnakar Shipping Co.Ltd., Calcutta.			
24. m.t. Ratna Abha	1982	40614	60300
C. M/s Essar Shipping Ltd., Bombay			
25. m.t. Chanda	1992	82569	149600
Total 25 Vessels		**1359619**	**2441034**
OIL TANKERS (PRODUCT CARRIERS)			
A. The Shipping Corpn.of India Ltd., Bombay.			
1. m.t. Dadabhai Nauroji	1977	15045	24400
2. m.t. Aurobindo	1976	15045	24411
3. m.t. Kalandia	1976	15045	24490
4. m.t. Major Hoshiar Singh PVC	1985	28704	45421
5. m.t. Lance Naik Albert Ekka	1985	28704	45473
6. m.t. Flying Officer Nirmal Jit Singh Shekhawat PVC	1985	28704	45485
7. m.t. Lt.Arun Khetarpal	1985	28704	45453
		159951	**255133**

Contd.....

Owner/Name of the Ship	Year of Built	G.R.T. (Tonnes)	D.W.T. (Tonnes)
1	2	3	4
B. The Great Eastern Shipping Co.Ltd., Bombay.			
8. m.t. Jag Prakash	1974	15489	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
16. m.t. Jag Padma	1982	27771	47048
17. m.t. Jag Laxmi	1976	66723	122146
		232578	**372160**
C. M/s.Varun Shipping Co.Ltd., Bombay.			
18. m.t. Vijaydoot	1984	4462	7313
19. m.t. Vishwadoot	1982	18959	29999
20. m.t. Hansdoot	1983	4462	7334
21. m.t. Shaktidoot	1982	17751	29999
22. m.t. Jaldoot	1984	22989	34247
		68623	**108892**
D. M/s.Essar Shipping Ltd., Bombay.			
23. m.t. Nand Ekta	1982	4309	6643
24. m.t. Nandu	1992	80569	149500
25. m.t. Nand Kala	1992	3827	6702
26. m.t. Nand Kavita	1970	15098	25603
27. m.t. Nand Kishore	1981	13906	19602
28. m.t. Nand Hari	1981	11135	19604
29. m.t. Nand Vasu	1983	25692	39701
		154536	**267355**
E. M/s.Century Shipping., Bombay.			
30. m.t. Aditya Vikram	1981	3850	7070
31. m.t. Aditya Vardhan	1983	4749	7985
32. m.t. Aditya Vaibhav	1983	6481	10885
33. m.t. Aditya Vijay	1981	16899	29990
		31979	**55930**
F. M/s.Continental Shipping Corpn.Ltd., Bombay.			
34. m.t. Continental Bose (Ex.Sunny Crane)	1981	3467	6157
Total 34 Vessels		**651134**	**1065627**
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 1992-93.

(Million Tonnes)

Name of the Port	Year	Total Traffic	POL Traffic	POL as %age of total Traffic at the port
1	2	3	4	5
Calcutta/Haldia*	1969-70	6.89	1.53	22.5
	1979-80	8.56	4.58	53.5
	1982-83	10.5	4.59	43.7
	1983-84	10.28	4.75	46.2
	1984-85	10.19	5.02	49.3
	1985-86	12.13	6.06	50.0
	1986-87	12.07	5.91	49.0
	1987-88	13.07	6.19	47.7
	1988-89	14.22	6.47	45.5
	1989-90	14.45	6.44	44.6
	1990-91	15.24	7.26	47.6
	1991-92 *	15.96	7.66	48.0
	1992-93 *	18.32	8.92	48.7
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
	1992-93 *	29.08	20.11	69.2
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
	1992-93 *	25.33	9.81	38.7
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
	1992-93 *	7.96	6.18	77.6

Contd.....

(Million Tonnes)

Name of the Port	Year	Total Traffic	POL Traffic	POL as %age of total Traffic at the port
1	2	3	4	5
Kandla**	1969-70	2.11	0.98	46.4
	1979-80	7.27	5.45	75.0
	1982-83	12.65	10.74	84.9
	1983-84	14.16	11.36	80.2
	1984-85	15.75	11.94	75.8
	1985-86	16.49	12.34	74.9
	1986-87	16.19	11.93	74.9
	1987-88	18.08	13.09	72.4
	1988-89	17.81	13.08	73.4
	1989-90	18.93	14.36	75.9
	1990-91	19.69	15.06	76.5
	1991-92 *	21.00	16.50	78.6
	1992-93 *	22.91	17.95	78.4
J.N.P.T.	1989-90	0.70	--	--
	1990-91	2.03	--	--
	1991-92*	2.80	--	--
	1992-93*	3.00	--	--
Vishakapatnam	1969-70	8.30	1.94	23.4
	1979-80	10.23	1.94	19.0
	1982-83	10.18	2.10	20.6
	1983-84	11.35	4.03	35.5
	1984-85	12.87	4.47	34.7
	1985-86	15.91	6.27	39.4
	1986-87	15.04	5.31	35.3
	1987-88	15.37	5.57	36.2
	1988-89	20.37	6.99	34.3
	1989-90	21.12	6.83	32.3
	1990-91	19.42	5.60	28.8
	1991-92 *	21.52	6.38	29.6
	1992-93 *	22.77	7.59	33.3
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
	1992-93*	16.33	1.80	11.0
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 Traffic 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
	1992-93*	7.61	0.20	2.6
Port of Tuticorin	1977-78	0.63	0.35	55.6
	1979-80	2.41	0.44	18.3
	1982-83	3.23	0.52	16.1
	1983-84	3.55	0.43	13.5
	1984-85	3.77	0.51	13.5
	1985-86	4.22	0.34	8.1
	1986-87	4.15	0.33	7.2
	1987-88	4.26	0.37	9.4
	1988-89	5.14	0.48	9.3
	1989-90	5.32	0.48	9.0
	1990-91	5.08	0.47	9.3
	1991-92*	5.87	0.50	8.5
	1992-93*	6.21	0.51	8.2
New Mangalore	1977-78	0.38	0.20	52.6
	1979-80	0.90	0.21	23.3
	1982-83	2.27	0.35	15.4
	1983-84	2.84	0.35	12.3
	1984-85	3.38	0.44	13.0
	1985-86	3.69	0.41	11.1
	1986-87	5.43	0.53	9.8
	1987-88	6.11	0.46	8.2
	1988-89	7.08	0.57	7.3
	1989-90	7.66	0.58	7.6
	1990-91	8.03	0.61	7.6
	1991-92*	8.27	0.62	7.5
	1992-93*	7.09	0.63	8.9
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
	1992-93*	166.61	73.70	44.2

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

MOVEMENT OF POL TRAFFIC ON RAILWAYS SINCE 1970-71

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

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)								
01.04.1982	71.4	143.3	207.6	357.2	425.5	584.4	729.2	828.0
01.04.1983	78.0	175.2	267.0	393.9	478.5	655.5	796.5	919.5
15.04.1985	78.0	175.2	267.0	433.3	526.4	721.1	876.2	1011.5
01.12.1986	84.3	203.4	326.6	522.1	639.6	814.6	1123.2	1284.2
01.04.1988	89.4	215.6	346.2	553.4	678.0	969.5	1190.6	1361.8
01.04.1989	99.2	239.3	384.3	614.3	752.6	1076.1	1321.6	1511.6
01.04.1990	106.1	256.1	411.2	567.3	805.3	1151.4	1414.1	1617.4
01.10.1990	109.1	263.2	422.7	675.7	827.9	1183.7	1453.8	1662.8
16.08.1991	120.0	289.5	465.0	743.3	910.7	1302.1	1599.20	1829.1
01.04.1992	129.0	311.2	499.9	799.0	979.0	1399.8	1719.1	1966.3
01.04.1993	141.9	342.3	549.9	894.9	1096.5	1567.8	1925.4	2202.3
NON - DANGEROUS (POL - PRODUCTS)								
01.06.1982	53.5	106.3	153.5	263.6	313.5	430.4	530.5	609.0
01.06.1983	59.2	130.5	197.8	290.9	352.9	482.7	586.1	676.3
01.06.1984	63.9	141.7	215.1	316.6	384.3	525.9	638.7	737.1
15.04.1985	63.9	141.7	215.1	348.3	422.7	578.5	702.6	810.8
11.12.1986	69.1	164.5	263.2	419.7	513.6	733.7	900.6	1029.8
01.04.1988	78.5	188.5	301.4	481.0	588.9	841.6	1033.2	1181.6
01.04.1989	87.2	208.7	334.5	533.9	653.7	934.2	1146.8	1311.6
01.04.1990	93.3	223.3	357.9	571.3	699.5	999.6	1227.1	1403.4
01.10.1990	95.9	229.6	368.0	587.3	719.1	1027.6	1261.5	1442.8
16.08.1991	105.5	252.6	404.8	646.0	791.0	1130.4	1387.7	1587.1
01.04.1992	109.5	261.7	409.0	668.4	818.2	1169.2	1435.1	1641.2
01.04.1993	133.4	320.4	514.5	836.4	1024.1	1464.3	1798.2	2056.5

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

Source : Railway Board.

CRUDE OIL, NATURAL GAS & PRODUCT PIPELINES IN INDIA AS ON 1.4.1993

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	48.90	12-3/4"
Nawagam-Koyali	ONGC	77.63	14"
Sanand -Kalol	ONGC	12.52	8-5/8"
Sobhashan - North Kadi	ONGC	20.23	8-5/8"
North Kadi - Kalol	ONGC	35.59	12-3/4"
Jhalora - Sanand	ONGC	9.36	8-5/8"
Lahwa - Moran	ONGC	17.50	12-3/4"
Rudrasagar - Lakwa	ONGC	38.00	8-5/8"
Geleki - Dikhow	ONGC	18.90	8-5/8"
Goleki - Jorhat	ONGC	48.40	14"
Borhollah - Jorhat pipelines	ONGC	42.80	12-3/4"
Nada to GNAQ	ONGC	23.00	8"
Lanwa to Balol	ONGC	14.50	12"
Nawagam to Koyali (Vaded to Akhdol Section)	ONGC	23.30	18"
GNAQ to Jambusar Junction Point	ONGC	12.70	8"
North Kadi Kalol GGS-I to S.Kadi CTF	ONGC	5.10	12-3/4"
Santhal CTF to North Kadi	ONGC	4.52	12-3/4"
Jotana GGS-I to Santhal CTF	ONGC	2.73	4-1/2"
Viraj GGS-I to South Kadi CTF	ONGC	5.83	8-5/8"
Geleki-Dikhu Junction Point	ONGC	17.80	12-3/4"
Nawagam to Koyali	ONGC	79.33	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 GGS to Mehsana CTF	ONGC	20.50	18"
Lanwa Insitu Plant to Lanwa EPS-II	ONGC	1.70	12"
Nawagam to Koyali	ONGC	0.80	18"
GNBI to GGS-IV	ONGC	4.20	2"
Dahej to Gandhar GGS-IV	ONGC	10.00	4"
Dikom - Duliajan	OIL	6.00	200 mm
Dikom - Duliajan	OIL	22.50	250 mm
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	5.30 each	42"
Salaya-Viramgam	IOC	275.00	28"
Viramgam-Koyali	IOC	141.00	18"
Viramgam-Mathura	IOC	803.00	24"
Total Onshore		**3467.16**	

Contd.....

CRUDE OIL, NATURAL GAS & PRODUCT PIPELINES IN INDIA AS ON 1.4.1993

Pipelines	Owned by	Length in Kms.	Diametre in Inches/mm
1	2	3	4
II. CRUDE PIPELINES (OFFSHORE)		**530.97**	
Heera-Uran	ONGC	80.61	24"
BH (platform F) to Uran	ONGC	203.00	30"
Uran-Trombay	ONGC	24.00	36"
Trombay-Bhutcher Island	ONGC	4.40	36"
HRA-R-12	ONGC	38.92	12"
Gandhar-Saraswani	ONGC	55.00	12"
Nawagam-Jhalora-Kalol	ONGC	55.00	14"
GNAQ-Junction Point of Gandhar Saraswani	ONGC	15.00	4"
Nada-GANQ	ONGC	25.00	4"
BPA-BH-URAN	ONGC	15.97	12"
ICP-BHS	ONGC	8.37	12"
SBM to Nararabet	IOC	5.70	42"
III. GAS PIPELINES(ONSHORE)		**3072.21**	
Sanand-Kalol	ONGC	12.67	6-5/8"
Jhalora GGS-I to Sanand GGS-2	ONGC	9.27	8-5/8"
Jotna GGS-1 to Santhal CTF TO N. Kadi GGS-1	ONGC	7.17	8-5/8"
Motwan to Ajkleshwar CTF	ONGC	2.89	8-5/8"
Ramol GCS to Nawagam CTF	ONGC	17.45	6-5/8"
Nawagam CTF to Amul Diary CTF	ONGC	50.00	4-1/2"
Narsapur-Palakollu	ONGC	12.20	8"
South Santhal CTF to Lanwa EPS-I	ONGC	27.50	4"
Sanand GGS-I to GGS-2	ONGC	5.00	8"
Dahej to Gandhar Via Pakhajan	ONGC	26.50	8"
Sobhasan GGS-1 to S. Santhal CTF	ONGC	4.50	12"
Sobhasan GGS-2 to S. Santhal CTF	ONGC	4.20	12"
Kalol GGS-1 to Kalol GGS-7	ONGC	2.54	8"
Kalol GGS-I to GGS-XI	ONGC	4.55	200 mm
Kalol GGS-I to XI	ONGC	4.55	100 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"
Kalol GGS-1 to GGS-7	ONGC	3.30	8"
Cambay-Dhuvaran	GAIL	25.00	14"
Ankleshwar-Uttaran	GAIL	38.25	16"
Ankleshwar-Baroda	GAIL	96.55	14"
Nawagam-Calico Mills	GAIL	24.50	8-5/8"
Kalol-IFFCO(FG)	GAIL	2.51	8-5/8"
Kalol-IFFCO(AS)	GAIL	2.51	12-3/4"
Sobhashan-Dudh Sagar Dairy	GAIL	9.20	8-5/8"
Dabka GCS Sarasvani Valve Platform	GAIL	10.50	4-1/2"
North Kadi CTF - S.Kadi CTF - Kadi GIDC	GAIL	16.40	8-5/8"
Kalol GCS - Kadi GIDC	GAIL	19.40	8-5/8"
Uttran Kavas	GAIL	24.50	12-3/4"
Hazira-Karibhco	GAIL	4.00	16"
Uttran-Hazira	GAIL	14.00	36"
ASEB Gas Pipeline	GAIL	16.15	12-3/4"

Contd.....

CRUDE OIL, NATURAL GAS & PRODUCT PIPELINES IN INDIA AS ON 1.4.1993

Pipelines	Owned by	Length in Kms.	Diametre in Inches/mm
1	2	3	4
Lakwa to Maibella Dhiku Junction PT - Lakwa CTF	GAIL	23.50	12-3/4"
Narimanam-Nagapattinam	GAIL	14.00	4"
Naraspur-Kevvur	GAIL	72.00	8"
Naraspur-Tatipaka	GAIL	26.60	14"
Gandhar-Dabka	GAIL	47.00	12"
GIPCO to Chokari Via Undera	GAIL	32.00	12"
Chokari-T point to M/s GIPCO	GAIL	32.19	12"
Gandhar GGS to M/s GNFC	GAIL	42.00	18"
Kalol-CTF to tap-off point Chankheda from T-connection at Ranasan to AE Co.	GAIL	35.20	8"
Chandkheda tap off point to Ramason tap off point			
(a) Main line	GAIL	15.00	4"
(b) Submerged river crossing across river sabarmati	ONGC	0.41	4"
Hajira - Bijaypur	GAIL	641.00	36"
Bijaypur - Boreri	GAIL	110.00	18"
Boreri - 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 - NTPC Kawas	GAIL	8.00	12"
Vagodia - IPCL	GAIL	32.00	18"
Ghaziabad Spur II	GAIL	10.00	4"-6"
Tatipaka - Kakinada	GAIL	76.00	18"
Kakinada - NFCL	GAIL	20.00	12"
Delhi - Sonepat - Bahadurgarh	GAIL	80.00	4"-8"
Dadri - Sikandrabad	GAIL	14.00	4"
IPCL - GSFC	GAIL	1.10	18"
Desu Maruti	GAIL	35.00	12"
Boreri Gadepan	GAIL	32.00	18"
Penumadam Kavitam	GAIL	6.00	4"
Narimanam GCS - SPIC FINE	GAIL	11.00	6"
Digboi - Duliajan	OIL	42.00	10"
Hapjan to Kathalguri GGS	OIL	10.00	200 mm
IV. GAS PIPELINES (OFFSHORE)		**602.91**	
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"
South Bassein to Umrat	ONGC	216.00	36"
BPB - Bassein Hazira B	ONGC	9.98	30"
Heera - Uran	ONGC	80.93	26"
Thal Vikram Ispat	GAIL	30.00	12"
Trombay - RCF	GAIL	6.00	18"
Uran-Thal	GAIL	21.00	26"
Total Gas Pipelines (III+ IV)		**3675.12**	

Contd.....

CRUDE OIL, NATURAL GAS & PRODUCT PIPELINES IN INDIA AS ON 1.4.1993

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	146.60	16"
Delhi-Ambala	IOC	202.70	14"
Ambala-Jallandhar	IOC	165.00	12-3/4"
Eranakulam Instl. to FACT - Alwaye	BPCL	13.00	4"
BPCL (R) to Pir Pau Jetty	BPCL	3.50	8"
BPCL (R) to HPCL (R)	BPCL	3.00	4"
BPCL (R) 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		**2714.78**	
VI. LPG Pipelines (OFFSHORE)			
Uran - Trombay	ONGC	24.00	8"
VII. NGL Pipelines (OFFSHORE)			
Uran-Trombay	ONGC	24.00	8"
Grand Total (I to VII)		**10436.03**	

* 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
1993	Nos.	4016	3968		5605	1294	283	15166
	%	26.5	26.2		37.0	8.5	1.8	100

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

STATE-WISE NUMBER OF RETAIL OUTLETS, MPDC's, LDO/SKO DEALERS AND LPG DISTRIBUTORS AS ON 1.4.1993

State/Union Territories	Retail outlets	MPDC	LDO/SKO dealers	LPG distributors
1	2	3	4	5
STATES				
1. Andhra Pradesh	1195	20	600	355
2. Arunachal Pradesh	26	2	30	14
3. Assam	324	1	338	107
4. Bihar	918	21	390	150
5. Goa	65	1	17	28
6. Gujarat	968	13	458	297
7. Haryana	494	20	137	124
8. Himachal Pradesh	78	1	24	56
9. Jammu & Kashmir	115	1	30	57
10. Karnataka	928	4	305	247
11. Kerala	700	1	233	172
12. Madhya Pradesh	874	18	348	226
13. Maharashtra	1538	16	659	558
14. Manipur	28	3	34	10
15. Meghalaya	49	-	35	15
16. Mizoram	13	1	16	10
17. Nagaland	26	1	18	14
18. Orissa	332	7	167	85
19. Punjab	946	17	230	171
20. Rajasthan	899	28	236	170
21. Sikkim	10	-	8	2
22. Tamil Nadu	1408	-	454	309
23. Tripura	29	1	39	10
24. Uttar Pradesh	1933	72	654	457
25. West Bengal	1008	16	430	229
UNION TERRITORIES :				
26. A.N. Islands	3	-	1	1
27. Chandigarh	21	-	11	27
28. D.N. Haveli	3	-	1	1
29. Delhi	244	1	98	222
30. Daman & Diu	4	-	5	2
31. Pondicherry	27	-	8	5
32. Lakshdweep	0	-	0	1
GRAND TOTAL	**15206**	**266**	**6014**	**4132**

STATE-WISE NUMBER OF LPG DOMESTIC CONSUMERS AS ON 1.4.1993

(Lakh in Numbers)

SR. NO.	STATES/UNION TERRITORIES	IOC	AOD	TOTAL IOC	BPCL	HPCL	GRAND TOTAL
1	2	3	4	5	6	7	8
STATES							
1.	Andhra Pradesh	5.51	0.00	5.51	2.50	7.45	15.46
2.	Arunachal Pradesh	0.06	0.11	0.17	0.00	0.00	0.17
3.	Assam	1.25	1.65	2.90	0.00	0.00	2.90
4.	Bihar	4.76	0.00	4.76	0.33	0.71	5.80
5.	Goa	0.01	0.00	0.01	0.49	0.76	1.26
6.	Gujarat	10.33	0.00	10.33	3.49	3.48	17.30
7.	Haryana	3.47	0.00	3.47	1.56	0.67	5.70
8.	Himachal Pradesh	1.31	0.00	1.31	0.04	0.27	1.62
9.	Jammu & Kashmir	0.63	0.00	0.63	0.13	1.19	1.95
10.	Karnataka	3.50	0.00	3.50	2.05	4.17	9.72
11.	Kerala	4.32	0.00	4.32	1.46	0.71	6.49
12.	Madhya Pradesh	5.88	0.00	5.88	1.54	3.04	10.46
13.	Maharashtra	1.66	0.00	1.66	16.52	14.60	32.78
14.	Manipur	0.11	0.29	0.40	0.00	0.00	0.40
15.	Meghalaya	0.13	0.14	0.27	0.00	0.00	0.27
16.	Mizoram	0.07	0.13	0.20	0.00	0.00	0.20
17.	Nagaland	0.10	0.14	0.24	0.00	0.00	0.24
18.	Orissa	1.13	0.00	1.13	0.11	1.31	2.55
19.	Punjab	4.76	0.00	4.76	1.59	0.91	7.26
20.	Rajasthan	3.44	0.00	3.44	1.65	1.82	6.91
21.	Sikkim	0.08	0.00	0.08	0.00	0.00	0.08
22.	Tamil Nadu	11.42	0.00	11.42	2.54	1.75	15.71
23.	Tripura	0.13	0.15	0.28	0.00	0.00	0.28
24.	Uttar Pradesh	15.84	0.00	15.84	3.90	1.67	21.41
25.	West Bengal	7.04	0.00	7.04	0.62	2.16	9.82
	TOTAL	**86.94**	**2.62**	**89.56**	**40.51**	**46.67**	**176.73**
UNION TERRITORIES							
1.	Andaman & Nicobar	0.05	0.00	0.05	0.00	0.00	0.05
2.	Chandigarh	0.95	0.00	0.95	0.11	0.30	1.36
3.	Dadra & Nagar Haveli	0.00	0.00	0.00	0.00	0.04	0.04
4.	Delhi	8.98	0.00	8.98	2.79	1.73	13.50
5.	Daman & Diu	0.00	0.00	0.00	0.00	0.07	0.07
6.	Lakshadweep	0.01	0.00	0.01	0.00	0.00	0.01
7.	Pondicherry	0.22	0.00	0.22	0.04	0.04	0.30
8.	Silvasa	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	**10.21**		**10.21**	**2.94**	**2.18**	**15.33**
	ALL INDIA	**97.15**	**2.62**	**99.77**	**43.45**	**48.85**	**192.07**

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	179.72	11.16	190.88	11467	30357	47250	149464	47396	5034	201894
1988-89	194.60	12.40	207.00	13217	32040	48489	157510	57793	5822	221125
1989-90	200.89	12.80	213.69	16988	34087	51374	178522	61996	4623	245141
1990-91	211.73	13.77	225.50	17998	33021	51272	186452	71535	6244	264231
1991-92	229.28	14.55	243.83	18645	30346	50978	208551	72599	5561	286711
1992-93*	238.20	16.62	254.82	18060	26950	53127	224485	69833	6748	301066

* = Provisional @ = Includes RBF

Source = i) Central Electricity Authority and Economic Survey 1992-93 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

INTERNATIONAL PETROLEUM STATISTICS

INTERNATIONAL
PETROLEUM STATISTICS

XX. INTERNATIONAL PETROLEUM STATISTICS

World Proved Reserves of Crude Oil at end 1992

Country	Thousand million tonnes	Thousand million barrels	Share of total	R/P ratio
1	2	3	4	5
USA	4.1	32.1	3.2%	9.8
Canada	0.9	7.6	0.8%	9.6
Total North America	**5.0**	**39.7**	**4.0%**	**9.8**
Argentina	0.2	1.6	0.2%	8.0
Brazil	0.4	3.0	0.3%	12.2
Ecuador	0.2	1.6	0.2%	12.8
Mexico	7.2	51.3	5.1%	46.2
Venezuela	9.0	62.6	6.2%	69.7
Other Latin America	0.5	3.7	0.4%	13.1
Total Latin America	**17.5**	**123.8**	**12.4%**	**43.7**
Norway	1.2	8.8	0.9%	10.6
United Kingdom	0.6	4.1	0.4%	5.9
Other OECD Europe	0.4	2.9	0.3%	13.7
Total OECD Europe	**2.2**	**15.8**	**1.6%**	**9.2**
Former Soviet Union	7.8	57.0	5.7%	17.3
of which : Russia	6.6	48.4	4.8%	16.7
Kazakhstan	0.7	5.2	0.5%	26.5
Azerbaijan	0.2	1.3	0.1%	14.4
Others	0.3	2.1	0.2%	18.8
Other Non-OECD Europe	0.3	2.2	0.2%	24.5
Total Non-OECD Europe	**8.1**	**59.2**	**5.9%**	**17.5**
Abu Dhabi	12.1	92.2	9.2%	*
Dubai & Northern Emirates	0.8	5.9	0.6%	36.6
Iran	12.7	92.9	9.2%	73.6
Iraq	13.4	100.0	9.9%	*
Kuwait	12.9	94.0	9.3%	*
Neutral Zone	0.7	5.0	0.5%	42.0
Oman	0.6	4.5	0.4%	17.1
Qatar	0.5	3.7	0.4%	21.6
Saudi Arabia	35.1	257.8	25.6%	82.0
Syria	0.2	1.7	0.2%	9.7
Yemen	0.5	4.0	0.4%	60.9
Other Middle East	+	0.1	+	4.3
Total Middle East	**89.5**	**661.8**	**65.7%**	**99.6**
Algeria	1.2	9.2	0.9%	21.0
Angola	0.2	1.5	0.1%	7.9
Egypt	0.9	6.2	0.6%	18.6
Gabon	0.1	0.7	0.1%	6.8
Libya	3.0	22.8	2.3%	41.2
Nigeria	2.4	17.9	1.8%	26.6
Tunisia	0.2	1.7	0.2%	42.7
Other Africa	0.3	1.9	0.2%	14.1
Total Africa	**8.3**	**61.9**	**6.2%**	**24.9**
Brunei	0.2	1.3	0.1%	20.3
China	3.2	24.0	2.4%	22.2
India	0.8	6.0	0.6%	28.1
Indonesia	0.9	5.8	0.6%	10.5
Japan	+	0.1	+	9.0
Malaysia	0.5	3.7	0.4%	14.9
Other Asia	0.2	1.7	0.2%	14.0
Australia	0.2	1.8	0.2%	9.4
New Zealand	+	0.2	+	11.6
Total Asia & Australasia	**5.9**	**44.6**	**4.5%**	**17.9**
TOTAL WORLD	**136.5**	**1006.8**	**100.0%**	**43.1**
Of which OECD	7.4	57.6	7%	9.6
Of which OPEC	104.9	772.1	76.7%	81.8

*Over 100 years + Less than 0.05 Source: BP Statistical Review of World Energy June, 1993.

WORLD PROVED RESERVES OF NATURAL GAS AT END 1992

Country	Trillion cubic feet	Trillion cubic metres	Share of total	R/P ratio
1	2	3	4	5
USA	167.1	4.7	3.4%	9.4
Canada	95.7	2.7	2.0%	23.5
Total North America	**262.8**	**7.4**	**5.4%**	**12.0**
Argentina	22.7	0.6	0.5%	28.0
Ecuador	3.9	0.1	0.1%	*
Mexico	70.9	2.0	1.5%	71.9
Trinidad	8.7	0.2	0.2%	44.8
Venezuela	126.5	3.6	2.6%	*
Other Latin America	26.8	0.8	0.5%	50.6
Total Latin America	**259.5**	**7.3**	**5.4%**	**75.8**
Germany	12.1	0.3	0.2%	19.3
Netherlands	68.9	1.9	1.4%	28.1
Norway	70.6	2.0	1.4%	72.1
United Kingdom	19.1	0.5	0.4%	10.2
Other OECD Europe	21.1	0.6	0.4%	20.9
Total OECD Europe	**191.8**	**5.3**	**3.8%**	**27.6**
Former Soviet Union	1942.3	55.0	39.8%	67.8
of which : Russia	1681.2	47.6	34.4%	71.5
Ukraine	61.1	1.7	1.3%	79.3
Uzbekistan	38.5	1.1	0.8%	24.6
Turkmenistan	88.1	2.5	1.8%	40.1
Others	73.4	2.1	1.5%	*
Other Non-OECD Europe	21.0	0.6	0.4%	15.7
Total Non-OECD Europe	**1963.3**	**55.6**	**40.2%**	**65.5**
Abu Dhabi	188.4	5.3	3.9%	*
Bahrain	5.8	0.2	0.1%	22.7
Dubai & Northern Emirates	16.2	0.5	0.3%	88.1
Iran	699.2	19.8	14.3%	*
Iraq	109.5	3.1	2.2%	*
Kuwait	52.4	1.5	1.1%	*
Qatar	227.0	6.4	4.6%	*
Neutral Zone	1.0	+	+	*
Saudi Arabia	182.6	5.2	3.7%	*
Other Middle East	38.0	1.1	0.8%	*
Total Middle East	**1520.1**	**43.1**	**31.0%**	*
Algeria	128.0	3.6	2.6%	70.3
Egypt	15.4	0.4	0.3%	44.5
Gabon	0.4 +	+	+	*
Libya	46.2	1.3	0.9%	*
Nigeria	120.0	3.4	2.5%	*
Other Africa	36.9	1.0	0.8%	*
Total Africa	**346.9**	**9.7**	**7.1%**	*
Bangladesh	25.4	0.7	0.5%	*
Brunei	14.0	0.4	0.3%	40.0
China	49.4	1.4	1.0%	92.6
India	25.9	0.7	0.5%	49.9
Indonesia	64.4	1.8	1.3%	34.1
Japan	1.0	+	+	12.7
Malaysia	67.8	1.9	1.4%	72.9
Pakistan	31.0	0.9	0.6%	53.5
Other Asia	40.5	1.1	0.8%	*
Australia	18.2	0.5	0.4%	22.0
New Zealand	3.4	0.1	0.1%	20.5
Total Asia & Australasia	**341.0**	**9.5**	**6.9%**	**52.5**
TOTAL WORLD	**4885.4**	**138.3**	**100.0%**	**64.8**
Of which OECD	477.2	13.5	9.8%	16.0
Of which OPEC	1965.7	55.7	40.2%	*

*Over 100 years + Less than 0.05 Source: BP Statistical Review of World Energy June, 1993.

WORLD CRUDE OIL* PRODUCTION 1982-1992

(Million Tonnes)

Country	1982	1985	1986	1987	1988	1989	1990	1991	1992 (P)	% Change 1992 over 1991	% share of total 1992
USA	484.5	500.8	486.1	471.2	461.9	433.0	420.6	427.2	**416.6**	- 2.5	13.1
Canada	75.1	86.2	86.2	90.9	95.4	93.2	93.7	93.9	**98.2**	+ 4.6	3.1
Total North America	**559.6**	**587.0**	**572.3**	**562.2**	**557.4**	**526.2**	**514.3**	**521.1**	**514.8**	- **1.2**	**16.2**
Argentina	25.6	24.0	22.5	22.3	23.5	22.9	24.0	25.5	**27.9**	+ 9.4	0.9
Brazil	13.4	28.1	28.7	29.7	28.2	30.0	33.0	32.7	**33.0**	+ 1.0	1.0
Colombia	7.4	8.9	15.3	19.6	19.3	20.1	21.9	21.6	**22.2**	+ 2.9	0.7
Euador	9.7	13.5	13.6	8.8	15.0	14.5	15.0	15.7	**16.7**	+ 6.6	0.5
Mexico	149.4	149.7	135.6	141.8	140.7	143.6	147.1	154.8	**154.9**	+	4.9
Trinidad	8.9	8.8	8.4	8.3	7.6	7.4	7.4	7.4	**7.2**	- 3.1	0.2
Venezuela	101.0	90.0	96.9	98.2	103.1	103.3	115.3	128.7	**129.0**	+ 0.2	4.1
Other Latin America	14.6	13.6	12.9	12.0	10.6	10.3	10.2	9.2	**9.1**	- 1.8	0.3
Total Latin America	**329.9**	**336.5**	**333.9**	**340.6**	**347.8**	**352.1**	**373.9**	**395.6**	**400.0**	+ **1.1**	**12.6**
Denmark	1.7	2.9	3.6	4.6	4.7	5.5	5.9	7.0	**7.8**	+ 11.0	0.2
Norway	25.7	40.3	44.1	49.1	56.7	74.9	81.9	93.4	**106.6**	+ 14.2	3.4
United Kingdom	103.4	128.2	128.6	123.3	114.4	91.8	91.6	91.3	**94.2**	+ 3.2	3.0
Other OECD Europe	16.7	20.7	21.7	22.6	23.2	22.1	22.3	22.5	**21.4**	- 5.1	0.7
Total OECD Europe	**147.5**	**192.1**	**198.0**	**199.6**	**199.0**	**194.2**	**201.7**	**214.1**	**229.9**	+ **7.4**	**7.2**
Former Soviet Union	*615.6*	*596.7*	*615.1*	*625.2*	*623.7*	*609.9*	*570.4*	*515.4*	*449.9*	- *12.7*	*14.2*
of which: Russia	n/a	542.3	560.9	569.5	568.8	554.9	515.9	461.1	**396.0**	- 14.1	12.5
Kazakhstan	n/a	22.7	23.3	24.1	25.0	25.4	25.8	26.6	**26.7**	+ 0.4	0.8
Azerbaijan	n/a	13.2	13.1	13.9	13.7	13.2	12.5	12.0	**11.9**	- 1.2	0.4
Others	n/a	18.5	17.8	17.7	16.2	16.5	16.2	15.7	**15.3**	- 2.4	0.5
Other Non-OECD Europe	24.0	21.7	22.0	21.0	20.7	20.0	18.0	14.2	**12.3**	- 13.2	0.4
Total Non-OECD Europe	**639.6**	**618.4**	**637.1**	**646.2**	**644.4**	**630.0**	**588.4**	**529.7**	**462.2**	- **12.7**	**14.6**
Abu Dhabi	42.5	41.6	50.4	56.1	60.0	73.7	85.7	100.3	**96.7**	- 3.6	3.1
Dubai & N. Emirates	18.1	22.5	22.6	24.3	24.3	23.5	23.3	23.1	**21.8**	- 5.8	0.7
Iran	119.8	110.0	94.5	114.7	112.5	141.1	155.3	162.0	**172.2**	+ 6.3	5.4
Iraq	49.6	70.6	85.5	102.4	127.4	138.6	98.2	11.6	**23.6**	+104.0	0.7
Kuwait	34.9	45.7	62.3	53.5	66.6	81.1	51.8	6.6	**45.6**	+592.4	1.4
Neutral Zone	16.4	17.0	17.9	20.2	16.6	19.3	16.3	5.2	**17.0**	+225.9	0.5
Oman	16.2	25.4	28.0	29.1	29.8	29.4	34.1	36.1	**36.1**	+ 0.1	1.1
Qatar	16.3	15.9	16.6	15.9	16.9	19.3	21.2	20.5	**22.6**	+ 10.3	0.7
Saudi Arabia	327.9	173.1	251.2	212.2	256.6	257.3	326.1	420.2	**427.9**	+ 1.9	13.5
Syria	9.2	9.4	10.2	12.2	14.5	17.3	21.0	24.5	**25.2**	+ 2.9	0.8
Yemen	—	—	—	0.1	8.5	9.7	9.5	10.9	**9.0**	- 17.1	0.3
Other Middle East	2.3	2.2	2.2	2.5	2.2	2.1	2.2	2.1	**2.0**	- 2.2	0.1
Total Middle East	**653.1**	**533.3**	**641.4**	**643.3**	**735.7**	**812.2**	**844.7**	**822.9**	**899.7**	+ **9.3**	**28.4**
Algeria	45.8	47.7	48.9	48.9	47.2	51.5	55.2	56.4	**57.0**	+ 1.1	1.8
Angola	6.4	11.8	14.4	17.9	23.1	23.1	24.1	25.6	**27.0**	+ 5.5	0.9
Cameroon	5.5	8.0	8.9	8.4	9.0	8.5	7.9	7.5	**7.0**	- 7.1	0.2
Congo	4.3	5.6	5.8	5.7	6.6	7.5	7.6	7.5	**8.8**	+ 17.9	0.3
Egypt	33.3	45.1	41.1	45.3	44.2	44.5	45.5	45.4	**46.1**	+ 1.5	1.5
Gabon	7.8	7.7	8.1	7.8	8.7	10.6	13.6	14.8	**14.7**	- 0.4	0.5
Libya	56.2	52.7	49.9	47.9	50.6	55.5	64.8	72.2	**73.0**	+ 1.1	2.3
Nigeria	63.5	72.9	72.2	63.7	67.6	80.6	87.8	93.6	**91.6**	- 2.1	2.9
Other Africa	6.2	7.1	6.9	6.8	6.6	6.8	6.1	6.7	**7.1**	+ 6.4	0.2
Total Africa	**228.9**	**258.5**	**256.2**	**252.3**	**263.6**	**288.6**	**312.6**	**329.7**	**332.4**	+ **0.8**	**10.5**
Brunei	8.1	7.4	8.3	7.0	7.0	7.0	7.0	8.0	**9.0**	+ 12.3	0.3
China	101.7	124.9	130.7	132.9	137.0	137.6	138.3	139.8	**142.0**	+ 1.6	4.5
India	19.8	29.9	31.0	30.4	31.9	34.2	33.9	31.7	**28.7**	- 9.6	0.9
Indonesia	69.1	61.9	66.7	63.2	64.1	67.9	69.8	76.6	**74.3**	- 3.0	2.3
Malasia	14.6	21.3	26.2	24.6	26.7	28.8	30.6	32.0	**32.6**	+ 2.0	1.0
Other Asia	3.2	5.3	6.3	6.5	5.7	7.5	10.5	11.5	**17.3**	+ 50.5	0.6
Australasia	19.5	29.6	28.3	28.8	27.9	26.5	28.5	27.3	**26.9**	- 1.7	0.9
Total Asia & Australasia	**235.9**	**280.3**	**297.4**	**293.4**	**300.3**	**309.6**	**318.6**	**326.9**	**330.7**	+ **1.2**	**10.4**
TOTAL WORLD	**2794.5**	**2806.1**	**2936.3**	**2937.6**	**3048.2**	**3112.9**	**3154.1**	**3140.0**	**3169.7**	+ **0.9**	**100.0**
of which: OECD	727.0	809.2	799.2	791.2	784.8	747.5	745.1	763.3	**772.4**	+ 1.2	24.4
OPEC	978.4	842.7	957.3	937.8	1036.9	1137.7	1199.3	1207.4	**1283.7**	+ 6.3	40.5

* Include 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, 1993. n/a : Not available.

CRUDE OIL PRODUCTION BY OPEC MEMBER COUNTRIES (1980-1992)

(Million Tonnes)

OPEC Countries	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992(P)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Algeria	52	46	46	43	46	48	49	49	47	52	55	56	57
Ecuador	10	10	10	12	13	14	14	9	15	15	15	16	17
Gabon	9	8	8	8	8	8	8	8	9	11	14	15	15
Indonesia	78	82	69	65	68	62	67	63	64	68	70	77	74
Iran	74	66	120	122	109	110	95	115	113	141	155	162	172
Iraq	130	44	50	54	60	71	86	102	127	139	98	12	24
Kuwait	72	48	35	45	49	46	62	54	67	81	52	7	46
Libya	88	59	56	53	53	53	50	48	51	56	65	72	73
Nigeria	102	71	64	61	69	73	72	64	68	81	88	94	92
Qatar	22	20	16	15	20	16	17	16	17	19	21	21	23
Saudi Arabia	493	491	328	256	233	173	251	212	257	257	326	420	428
U.A.E.	112	92	75	72	80	79	89	100	99	115	125	126	134
Venezuela	116	113	101	96	96	90	97	98	103	103	115	129	129
TOTAL	**1358**	**1150**	**978**	**902**	**904**	**843**	**957**	**938**	**1037**	**1138**	**1199**	**1207**	**1284**

(P) = Provisional.
Source : BP Statistical Review of World Energy June 1993.

WORLD PRODUCTION OF NATURAL GAS* 1982-1992

(Million Tonnes Oil equivalent)

Country	1982	1985	1986	1987	1988	1989	1990	1991	1992 (P)	% Change 1992 over 1991	% share of total 1992
USA	456.4	422.7	411.8	426.2	436.1	441.4	454.2	452.7	452.3	- 0.1	24.6
Canada	66.5	68.9	64.3	70.7	81.7	87.0	89.4	94.8	103.8	+ 9.5	5.6
Total North America	**522.9**	**491.6**	**476.1**	**496.9**	**517.8**	**528.4**	**543.6**	**547.5**	**556.1**	**+ 1.6**	**30.2**
Argentina	8.7	12.7	16.9	16.8	19.3	21.8	20.7	19.8	20.7	+ 4.5	1.1
Bolivia	2.4	2.2	2.3	2.4	2.5	2.6	2.7	2.7	2.7	+ 1.8	0.1
Colombia	2.5	3.7	3.7	3.7	4.4	4.3	4.7	4.8	4.7	- 1.8	0.3
Mexico	25.7	25.3	22.3	23.7	23.5	24.1	25.5	25.4	25.1	- 0.9	1.4
Trinidad	2.2	2.9	3.2	3.5	4.0	3.9	5.0	5.1	5.0	- 3.5	0.3
Venezuela	15.3	15.6	17.2	16.7	16.9	16.8	19.5	22.9	22.9	+	1.2
Other Latin America	3.8	5.7	5.8	5.9	5.9	5.5	6.3	6.0	6.0	+	0.3
Total Latin America	**60.6**	**68.1**	**71.4**	**72.7**	**76.5**	**79.0**	**84.4**	**86.7**	**87.1**	**+ 0.5**	**4.7**
France	6.2	4.5	3.5	3.2	2.6	2.7	2.8	2.9	2.8	- 2.8	0.2
Germany	15.5	15.7	17.2	19.1	17.3	16.3	16.6	15.8	16.0	+ 1.7	0.9
Italy	12.7	12.4	14.4	14.7	14.9	15.3	15.6	15.7	15.3	- 2.4	0.8
Netherlands	58.3	64.4	56.2	56.1	49.9	54.1	54.5	62.1	62.5	+ 0.7	3.4
Norway	22.9	22.8	24.3	26.7	26.8	27.7	25.1	24.6	25.0	+ 1.7	1.4
United Kingdom	30.5	37.1	39.0	40.8	39.3	38.3	42.5	47.3	47.7	+ 0.8	2.6
Other OECD Europe	2.7	4.1	4.6	4.5	5.0	6.8	6.7	7.6	7.7	+ 0.9	0.4
Total OECD Europe	**148.8**	**161.0**	**159.2**	**165.1**	**155.8**	**161.2**	**163.8**	**176.0**	**177.0**	**+ 0.6**	**9.7**
Former Soviet Union	*414.3*	*539.8*	*576.1*	*610.7*	*646.5*	*668.4*	*684.1*	*680.6*	*655.3*	*- 3.7*	*35.6*
of which: Russia	n/a	387.9	422.3	457.0	495.2	517.0	537.6	539.8	537.6	- 0.4	29.2
Ukrain	n/a	36.0	33.3	29.9	27.2	25.9	23.8	20.5	17.6	-13.9	1.0
Uzbekistan	n/a	29.0	32.4	33.4	33.5	34.5	34.2	35.2	35.9	+ 2.0	2.0
Turkmenistan	n/a	69.8	71.1	74.0	74.1	75.5	73.7	70.8	50.3	-28.9	2.7
Others	n/a	17.0	16.9	16.4	16.5	15.5	14.8	14.4	13.9	- 3.3	0.8
Other Non-OECD Europe	37.9	41.4	42.2	40.4	36.9	36.4	30.8	28.2	25.9	- 8.4	1.4
Total Non-OECD Europe	**452.2**	**581.1**	**618.2**	**651.1**	**683.4**	**704.8**	**714.9**	**708.9**	**681.2**	**- 3.9**	**37.1**
Abu Dhabi	6.0	11.0	12.9	14.3	14.7	16.7	15.5	17.3	18.6	+ 7.8	1.0
Iran	6.5	13.1	13.7	14.4	18.0	19.5	21.5	23.2	23.7	+ 2.1	1.3
Saudi Arabia	11.2	16.9	23.0	24.1	26.2	26.8	27.5	29.9	30.8	+ 3.1	1.7
Other Middle East	13.0	15.8	18.0	21.3	26.1	30.4	28.6	24.4	32.0	+31.1	1.7
Total Middle East	**36.7**	**56.8**	**67.6**	**74.1**	**85.0**	**93.4**	**93.1**	**94.8**	**105.1**	**+10.9**	**5.7**
Algeria	24.0	30.9	31.1	35.6	37.5	40.2	42.5	45.1	46.4	+ 3.0	2.5
Egypt	2.0	4.6	5.1	5.7	6.2	6.9	7.2	8.2	8.8	+ 7.9	0.5
Libya	3.0	4.7	5.7	6.0	5.1	5.4	6.0	5.9	6.1	+ 3.5	0.3
Nigeria	1.1	1.3	1.1	3.3	3.4	3.9	3.8	4.0	4.4	+11.4	0.2
Other Africa	0.7	1.0	0.9	0.8	0.8	0.9	0.9	0.9	1.0	+ 8.6	0.1
Total Africa	**30.8**	**42.5**	**43.9**	**51.4**	**53.0**	**57.3**	**60.4**	**64.1**	**66.7**	**+ 4.3**	**3.6**
Brunei	8.3	7.6	7.8	7.9	7.8	7.5	8.5	8.7	8.9	+ 1.9	0.5
China	10.0	11.5	11.8	12.5	12.6	12.9	13.2	13.4	13.6	+ 1.5	0.7
Japan	1.8	2.0	1.9	2.0	1.9	1.8	1.8	1.9	1.9	+ 1.3	0.1
India	2.9	7.1	7.4	8.5	10.0	11.2	13.0	13.5	13.3	- 1.4	0.7
Indonesia	17.7	27.3	31.8	32.9	34.2	39.9	42.7	45.7	48.1	+ 5.2	2.6
Malaysia	—	9.2	12.6	14.0	14.8	16.8	17.3	19.3	23.7	+23.0	1.3
Other East Asia	1.2	4.6	3.8	5.0	6.5	6.8	7.0	9.1	9.6	+ 5.4	0.5
Pakistan	7.9	9.3	9.9	10.7	11.3	11.2	12.9	13.6	14.8	+ 8.5	0.8
Other South Asia	6.2	5.7	6.1	6.8	7.3	5.3	5.3	5.5	6.3	+15.2	0.3
Australasia	12.6	15.3	17.4	17.3	18.0	20.1	22.8	23.5	25.3	+ 7.8	1.4
Total Asia & Australasia	**68.6**	**99.6**	**110.5**	**117.6**	**124.4**	**133.5**	**144.5**	**154.2**	**165.5**	**+ 7.4**	**8.9**
TOTAL WORLD	**1320.6**	**1500.7**	**1546.9**	**1628.9**	**1695.9**	**1757.6**	**1804.7**	**1832.2**	**1838.7**	**+ 0.4**	**100.0**
of which: OECD	686.0	669.8	654.5	681.3	693.5	711.6	731.9	748.7	760.3	+ 1.6	41.3
LDCs	182.4	250.1	274.2	296.6	319.0	341.3	357.8	374.2	397.2	+ 6.2	21.6

* Excluding gas flared or recycled
P : Provisional

\+ Less than 0.05 n/a : Not available

Source : BP Statistical Review of World Energy June 1993

WORLD CONSUMPTION OF NATURAL GAS 1982-1992*

(Million Tonnes Oil equivalent)

Country	1982	1985	1986	1987	1988	1989	1990	1991	1992 (P)	% Change 1992 over 1991	% share of total 1992
USA	462.6	449.4	421.1	447.2	467.5	488.5	486.3	494.7	512.2	+ 3.5	28.8
Canada	48.9	44.8	40.9	41.2	52.8	57.5	55.6	56.7	58.9	+ 3.9	3.3
Total North America	**511.5**	**494.2**	**462.0**	**488.4**	**520.3**	**546.0**	**541.9**	**551.4**	**571.1**	**+ 3.6**	**32.1**
Argentina	12.1	14.9	14.3	14.8	16.0	17.1	16.3	16.9	17.7	+ 4.8	1.0
Brazil	1.4	3.1	3.4	3.1	3.1	3.2	3.6	4.2	4.5	+ 9.4	0.3
Mexico	26.1	24.6	24.0	24.0	24.1	25.1	26.7	26.6	26.3	- 1.1	1.5
Venezuela	15.3	15.4	16.2	16.7	17.0	17.1	17.6	18.6	19.5	+ 4.8	1.1
Other Latin America	6.2	7.6	7.8	7.9	8.3	8.7	8.8	10.1	9.9	- 2.2	0.6
Total Latin America	**61.1**	**65.6**	**65.7**	**66.5**	**68.5**	**71.2**	**73.0**	**76.4**	**77.9**	**+ 2.1**	**4.4**
Austria	3.8	4.5	4.4	4.6	4.4	4.7	5.2	5.4	5.4	- 1.0	0.3
Belgium & Luxembourg	7.8	8.4	7.6	8.5	8.4	9.4	9.5	9.0	9.2	+ 1.6	0.5
Denmark	—	0.6	1.0	1.3	1.6	1.7	1.8	1.9	2.0	+ 5.3	0.1
Finland	0.6	0.8	1.0	1.4	1.4	1.9	2.3	2.4	2.5	+ 3.7	0.1
France	24.0	23.3	24.2	25.0	23.6	24.4	26.4	27.5	28.4	+ 3.3	1.6
Germany	45.8	49.1	49.1	53.2	52.4	53.5	53.9	56.6	56.4	- 0.4	3.2
Greece	—	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	29.0	+
Iceland	—	—	—	—	—	—	—	—	—	—	—
Republic of Ireland	1.4	1.8	1.1	1.0	1.2	1.5	1.3	1.5	1.6	+ 7.3	0.1
Italy	22.0	27.2	28.9	32.2	34.1	36.9	39.1	41.5	41.2	- 0.7	2.3
Netherlands	30.4	32.5	32.7	33.6	30.6	31.3	31.0	34.2	33.5	- 2.1	1.9
Norway	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Spain	2.3	2.1	2.5	2.7	3.5	4.5	5.0	5.5	5.9	+ 6.2	0.3
Sweden	—	0.1	0.2	0.3	0.4	0.6	0.6	0.6	0.6	+ 6.6	+
Switzerland	0.8	1.0	0.9	0.9	1.1	1.3	1.3	1.5	1.6	+ 8.4	0.1
Turkey	0.0	0.0	0.4	0.6	1.0	2.7	3.0	4.0	4.2	+ 4.7	0.2
United Kingdom	42.2	48.4	49.2	50.5	47.9	47.4	49.0	52.8	52.7	- 0.2	3.0
Total OECD Europe	**181.1**	**199.9**	**203.3**	**215.9**	**211.7**	**221.9**	**229.5**	**244.5**	**245.4**	**+ 0.3**	**13.8**
Former Soviet Union	*382.0*	*489.7*	*505.0*	*529.7*	*558.6*	*570.4*	*608.9*	*599.0*	*573.2*	*- 4.3*	*32.2*
of which: Russia	n/a	325.1	328.9	347.8	367.1	372.5	390.5	388.0	388.5	+ 0.1	21.8
Ukraine	n/a	80.8	85.3	87.1	92.4	93.4	115.0	109.3	88.2	-19.4	5.0
Others	n/a	83.8	90.8	94.7	99.2	104.5	103.4	101.8	96.5	- 5.1	5.4
Czechoslovakia	7.2	8.1	9.2	9.4	9.5	9.9	10.9	10.2	7.9	-22.7	0.4
Hungary	8.1	9.5	10.1	10.0	9.9	10.1	9.4	8.8	7.8	-11.2	0.4
Poland	8.3	8.9	9.5	9.8	9.7	9.5	8.9	7.2	8.0	+10.9	0.4
Other Non-OECD Europe	36.0	41.1	41.9	42.1	38.8	42.7	38.5	33.7	28.1	-16.7	1.6
Total Non-OECD Europe	**441.6**	**557.3**	**575.7**	**600.9**	**626.6**	**642.6**	**676.6**	**659.0**	**625.0**	**- 5.2**	**35.0**
Total Middle East	**31.7**	**45.3**	**51.4**	**56.8**	**66.0**	**73.5**	**74.0**	**71.6**	**80.0**	**+11.7**	**4.5**
Total Africa	**22.8**	**26.2**	**27.4**	**27.6**	**28.8**	**30.7**	**32.0**	**31.4**	**32.6**	**+ 3.6**	**1.8**
Australia	10.9	12.4	13.8	14.0	14.3	15.7	16.5	15.3	15.3	- 0.1	0.9
China	9.5	11.5	12.1	12.8	12.7	12.9	13.2	13.4	13.6	+ 1.3	0.8
India	2.1	3.5	5.5	5.7	6.6	9.6	11.2	12.7	14.4	+13.5	0.8
Indonesia	3.1	5.4	5.6	5.8	6.0	6.8	7.7	8.1	8.5	+ 4.6	0.5
Japan	24.7	35.9	36.7	38.0	40.3	43.1	46.1	49.2	50.4	+ 2.4	2.8
Malaysia	0.8	2.4	3.5	4.8	5.6	6.7	6.8	8.1	9.5	+17.8	0.5
New Zealand	1.3	3.3	4.2	3.8	4.2	4.0	4.0	4.0	4.2	+ 5.8	0.2
Philippines	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	—	—	—	—	—	—
South Korea	—	—	0.1	2.1	2.7	2.6	2.9	3.5	4.6	+30.8	0.3
Taiwan	1.1	1.0	0.9	0.9	1.0	1.0	1.3	1.9	2.0	+ 9.0	0.1
Thailand	1.1	2.6	2.4	3.5	5.2	4.6	5.6	6.8	7.4	+ 8.6	0.4
Other Asia	11.3	12.7	13.6	14.6	16.0	16.6	17.7	18.8	19.1	+ 1.6	1.1
Total Asia & Australasia	**65.9**	**90.7**	**98.4**	**106.0**	**114.6**	**123.6**	**133.0**	**141.8**	**149.0**	**+ 5.1**	**8.4**
TOTAL WORLD	**1315.7**	**1479.2**	**1483.9**	**1562.1**	**1636.5**	**1709.5**	**1760.0**	**1776.1**	**1781.0**	**+ 0.3**	**100.0**
of which: OECD	729.5	745.7	720.0	760.1	790.8	830.7	838.0	864.4	886.4	+ 2.5	49.8
LDCs	144.6	176.2	188.2	201.1	219.1	236.2	245.4	252.7	269.6	+ 6.7	15.2

\+ Less than 0.05 P : Provisional n/a : Not available Source : BP Statistical Review of World Energy June 1993.

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

PRODUCTIVITY OF PRODUCING WELLS IN SELECTED FIELDS IN OPEC MEMBER COUNTRIES-1992
(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	8179	N.A.	N.A.	1198	772	88
Divided Zone	7300	160	71	231	N.A.	N.A.
Ecuador	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Gabon	7995	135	250	385	292	103
Indonesia	4300	1144	6182	7326	1348	25
I.R.Iran	9497	730	—	730	3432	641
Iraq	N.A.	N.A.	N.A.	N.A.	526	N.A.
Kuwait	3843	350	—	350	1058	412
S.P. Libyan A.J.	9586	678	457	1135	1433	172
Nigeria	14,071	349	1352	1701	1832	147
Qatar	5779	260	8	268	423	215
Saudi Arabia	8000	1400	10	1410	8332	806
U.A.E.	9050	971	365	1336	2266	231
Venezuela	6851	1212	12184	13396	2346	24
Total OPEC	6788	7389	20879	29466	24060	111

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

N.A. = Not Available.
— = Nil or negligible
Source = OPEC Annual Statistical Bulletin - 1992

WORLD OIL REFINING CAPACITIES AT END 1985 TO 1992

(Million Tonnes Per Annum)

COUNTRY/AREA.	1985	1986	1987	1988	1989	1990	1991	1992 (P)	% change 1992 over 1991	% Share of Total 1992
1	2	3	4	5	6	7	8	9	10	11
North America	**870**	**876**	**883**	**871**	**865**	**871**	**874**	**855**	**-2.2**	**23.2**
USA	767	773	790	779	773	778	779	762	-2.2	20.7
Canada	103	103	93	92	92	93	95	93	-2.1	2.5
Latin America	**349**	**348**	**360**	**361**	**375**	**378**	**374**	**379**	**1.3**	**10.3**
Argentina	33	33	34	34	34	34	34	35	2.9	1.0
Brazil	68	63	64	66	68	68	68	69	1.5	1.9
Mexico	67	67	75	75	83	83	76	76	0.0	2.1
Netherlands Antill	16	16	16	16	16	16	23	23	0.0	0.6
Trinidad	13	15	15	15	15	12	12	12	0.0	0.3
Venezuela	61	61	63	60	58	61	61	61	0.0	1.7
Other Latin America	92	93	93	95	101	103	99	102	3.0	2.8
OECD Europe	**745**	**729**	**723**	**715**	**694**	**693**	**704**	**696**	**-1.0**	**18.9**
Belgium	36	35	35	35	35	35	35	34	-2.9	0.9
France	108	101	94	90	84	84	84	85	1.2	2.3
Germany	113	110	108	108	100	101	110	111	0.9	3.0
Italy	128	127	123	117	116	114	114	106	-7.0	2.8
Netherlands	69	69	69	69	63	62	62	62	0.0	1.6
Spain	62	62	62	62	62	62	62	62	0.0	1.6
United Kingdom	93	91	90	91	91	92	92	92	0.0	2.4
Other OECD Europe	137	135	140	143	143	143	144	144	0.0	3.8
Non-OECD Europe	**717**	**734**	**736**	**742**	**758**	**758**	**757**	**640**	**-15.5**	**16.9**
Former Soviet Union	596	609	609	610	611	611	611	503	-17.7	13.3
Other Non-OECD Europe	121	126	127	132	148	148	147	137	-6.8	3.6
Middle East	**189**	**191**	**206**	**216**	**221**	**249**	**216**	**245**	**13.4**	**6.5**
Bahrain	12	12	12	12	12	12	12	12	0.0	0.3
Iran	26	26	26	26	26	36	36	54	50.0	1.4
Iraq	16	16	16	16	16	16	16	16	0.0	0.4
Kuwait	31	31	31	41	41	41	8	17	112.5	0.4
Saudi Arabia	55	56	68	68	74	92	93	93	0.0	2.5
Other Middle East	48	50	52	52	52	52	51	52	2.0	1.4
Africa	**127**	**127**	**131**	**140**	**139**	**142**	**142**	**146**	**2.8**	**3.9**
Asia & Australasia	**626**	**621**	**615**	**612**	**622**	**656**	**686**	**723**	**5.4**	**19.1**
China	107	108	111	116	123	143	143	143	0.0	3.8
Indonesia	36	36	36	37	37	37	39	39	0.0	1.0
Japan	247	234	227	217	208	218	229	236	3.1	6.2
Singapore	51	48	43	46	50	53	54	56	3.7	1.5
South Asia	57	61	64	64	65	67	67	64	-4.5	1.7
Of which India*	37.8	45.6	46.7	48.7	51.8	51.8	51.8	51.8	0.0	1.4
Other Asia	93	98	98	95	101	102	117	148	26.5	3.9
Australasia	35	37	36	37	37	36	36	37	2.8	1.0
TOTAL WORLD	**3623**	**3626**	**3653**	**3658**	**3674**	**3748**	**3752**	**3684**	**-1.8**	**100.0**

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

SOURE : BP Statistical review of World Energy June 1993.

WORLD REFINERY CRUDE THROUGHPUT : 1980 TO 1992

(Million Tonnes Per Annum)

COUNTRY/AREA.	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992 (P)	% age change 1992 over 1991	% Share of total 1992
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
U.S.A.	673	619	585	580	598	596	631	638	657	665	666	660	665	0.9	21.7
Canada	95	88	75	72	73	71	69	73	76	77	79	74	72	-2.7	2.3
Latin America	328	333	308	296	290	277	279	286	298	306	312	307	311	1.3	10.1
OECD Europe	635	565	522	504	510	494	522	515	534	576	590	622	640	2.9	20.8
Middle East	122	109	133	153	165	182	187	195	212	216	215	189	206	9.0	6.7
Africa	73	76	84	84	89	92	95	99	104	108	117	117	118	0.9	3.8
China	71	69	75	79	88	88	93	97	101	105	107	113	121	7.1	3.9
Japan	200	180	167	162	167	155	148	144	149	158	171	181	193	6.6	6.3
South Asia	35	39	42	44	44	51	56	57	57	61	61	60	64	6.7	2.1
Of which India	25	30	32	34	35	41	45	47	48	52	52	51	54	5.9	1.8
Other Asia	119	125	117	120	124	133	139	138	157	167	178	204	225	10.3	7.3
Australasia	32	33	31	30	31	29	29	32	34	35	35	37	37	+	1.2
Non-OECD Europe	563	606	609	608	597	582	595	597	601	593	558	500	420	-16.0	13.7
TOTALWORLD:	**2946**	**2842**	**2748**	**2732**	**2771**	**2750**	**2843**	**2872**	**2976**	**3067**	**3089**	**3063**	**3072**	**0.3**	**100.0**
Of which OECD & LDCs	**2304**	**2159**	**2139**	**2124**	**2175**	**2168**	**2247**	**2275**	**2377**	**2474**	**2532**	**2564**	**2651**	**3.4**	**86.3**

SOURCE: BP Statistical Review of the World Energy, June 1993.

P : Provisional + : Less than 0.05

COUNTRY-WISE WORLD OIL CONSUMPTION 1982-1992*

(Million Tonnes Oil equivalent)

Country	1982	1985	1986	1987	1988	1989	1990	1991	1992 (P)	% Change 1992 over 1991	% share of total 1992
USA	705.5	720.2	749.3	764.8	796.7	795.3	781.8	765.6	781.0	+ 2.0	25.0
Canada	72.9	68.5	71.0	73.1	76.8	80.3	77.7	74.8	76.4	+ 2.2	2.4
Total North America	778.4	788.7	820.3	837.9	873.5	875.6	859.5	840.4	857.4	+ 2.0	27.4
Argentina	20.9	19.0	20.5	21.8	21.8	19.8	18.5	19.2	19.6	+ 2.3	0.6
Brazil	52.8	51.7	56.3	57.6	58.9	59.5	58.4	59.0	59.7	+ 1.2	1.9
Mexico	60.7	60.5	60.3	62.0	62.2	65.6	69.6	72.1	73.6	+ 1.6	2.3
Venezuela	19.2	17.2	18.1	18.1	18.9	17.9	18.3	18.5	19.6	+ 5.8	0.6
Other Latin America	61.1	60.5	61.7	63.7	66.4	70.3	68.6	69.9	69.8	- 0.1	2.2
Total Latin America	**214.7**	**208.9**	**216.9**	**223.2**	**228.2**	**233.1**	**233.4**	**238.7**	**242.0**	**+ 1.4**	**7.6**
Austria	10.5	9.8	10.4	10.7	10.6	10.4	10.8	11.6	11.3	- 3.2	0.4
Belgium & Luxembourg	23.3	20.8	23.5	23.7	24.4	24.4	24.8	26.5	26.9	+ 1.6	0.9
Denmark	11.0	10.7	10.5	9.6	9.5	9.2	9.0	9.1	10.5	+15.9	0.3
Finland	11.3	10.8	11.3	11.2	11.0	11.0	11.0	10.6	10.4	- 1.8	0.3
France	91.5	84.3	86.0	86.6	86.0	88.4	89.4	94.6	94.4	- 0.2	3.0
Germany	125.9	126.3	133.3	129.5	129.4	121.6	127.2	133.1	134.3	+ 0.9	4.3
Greece	11.9	12.0	12.2	13.2	13.7	15.0	15.7	15.8	16.0	+ 1.5	0.5
Iceland	0.5	0.5	0.5	0.6	0.6	0.7	0.6	0.6	0.7	+12.3	+
Republic of Ireland	4.6	4.0	4.8	4.1	3.9	4.0	4.4	4.6	4.6	+ 0.9	0.1
Italy	90.7	84.4	86.5	90.1	91.7	93.8	93.6	92.4	94.2	+ 1.9	3.0
Netherlands	31.0	29.2	32.4	32.4	34.5	33.9	35.0	35.8	36.1	+ 0.8	1.2
Norway	8.3	9.0	9.3	9.7	9.2	9.0	9.2	8.7	8.7	- 0.4	0.3
Portugal	9.5	8.8	9.5	8.9	8.7	11.3	11.1	11.5	12.9	+11.9	0.4
Spain	47.8	42.9	42.7	44.7	45.8	48.1	48.7	49.4	50.0	+ 1.4	1.6
Sweden	20.5	18.4	18.7	17.1	16.3	16.5	16.4	15.7	16.5	+ 5.1	0.5
Switzerland	11.2	12.0	13.2	12.4	12.4	11.9	12.8	13.0	13.1	+ 1.3	0.4
Turkey	16.5	16.8	18.3	21.0	22.3	20.8	22.1	22.1	23.5	+ 6.4	0.8
United Kingdom	75.6	77.4	77.4	75.2	79.2	81.7	82.3	82.5	82.4	- 0.2	2.6
Total OECD Europe	**601.6**	**578.1**	**600.5**	**600.7**	**609.2**	**611.7**	**624.1**	**637.6**	**646.5**	**+ 1.4**	**20.7**
Former Soviet Union	*422.4*	*415.7*	*416.5*	*418.5*	*413.2*	*411.4*	*406.3*	*390.6*	*333.4*	*-14.6*	*10.7*
of which: Russia	n/a	244.3	247.6	249.8	248.0	252.8	251.0	243.4	220.0	- 9.6	7.0
Ukraine	n/a	65.2	63.3	65.9	60.6	58.0	56.5	49.5	34.5	-30.3	1.1
Others	n/a	106.2	105.6	102.8	104.6	100.6	98.8	97.7	78.9	-19.2	2.5
Czechoslovakia	16.9	17.2	17.0	17.1	16.6	17.1	15.4	13.2	11.5	-12.8	0.4
Hungry	10.2	10.3	9.6	9.7	8.9	8.3	8.4	8.0	8.3	+ 4.3	0.3
Poland	13.6	14.3	14.5	14.5	15.2	15.5	14.1	13.5	14.1	+ 5.0	0.5
Other Non-OECD Europe	49.1	47.4	53.1	52.3	53.4	53.7	49.5	32.7	24.2	-26.0	0.8
Total Non-OECD Europe	**512.2**	**504.9**	**510.7**	**512.1**	**507.3**	**506.0**	**493.7**	**458.0**	**391.5**	**-14.5**	**12.6**
Total Middle East	**122.5**	**144.7**	**143.6**	**149.1**	**147.5**	**152.7**	**162.8**	**162.5**	**168.4**	**+ 3.7**	**5.4**
Total Africa	**77.9**	**82.7**	**81.8**	**85.4**	**87.6**	**91.8**	**95.1**	**96.3**	**97.0**	**+ 0.7**	**3.1**
Australia	28.4	27.0	28.2	28.7	29.9	31.1	31.6	30.8	31.1	+ 1.1	1.0
China	82.4	90.3	100.0	105.3	110.2	112.3	110.3	117.9	128.1	+ 8.7	4.1
India	35.4	43.3	45.5	47.0	51.5	55.8	57.9	58.9	62.0	+ 5.3	2.0
Indonesia	22.2	22.0	22.1	24.1	25.2	26.9	31.0	32.4	35.1	+ 8.4	1.1
Japan	207.8	206.3	208.5	209.2	224.7	232.9	247.7	252.1	258.8	+ 2.7	8.3
Malaysia	9.0	9.4	9.4	9.6	10.1	10.9	13.0	13.9	14.0	+ 1.0	0.4
New Zealand	3.9	3.8	4.0	4.3	4.4	4.5	4.8	5.1	5.2	+ 3.0	0.2
Phillipines	9.8	7.4	7.8	8.9	9.8	10.9	11.4	11.7	13.7	+16.8	0.4
Singapore	10.7	11.8	13.9	14.2	16.5	18.9	19.5	19.9	21.0	+ 5.7	0.7
South Korea	24.1	24.7	27.4	29.0	34.7	39.8	48.5	58.7	71.2	+21.2	2.3
Taiwan	13.3	15.9	18.1	19.0	22.9	25.0	26.2	27.9	28.6	+ 2.5	0.9
Thailand	10.0	11.0	11.3	12.8	14.5	17.2	19.3	21.1	23.7	+12.6	0.8
Other Asia	23.6	25.8	26.4	27.1	28.4	29.4	31.4	30.7	33.1	+ 7.5	1.1
Total Asia & Australasia	**480.6**	**498.7**	**522.6**	**539.2**	**582.8**	**615.6**	**652.6**	**681.1**	**725.6**	**+ 6.5**	**23.3**
TOTAL WORLD	**2787.9**	**2806.7**	**2896.4**	**2947.6**	**3036.1**	**3086.5**	**3121.2**	**3114.6**	**3128.4**	**+ 0.5**	**100.0**
of which: OECD	1620.1	1603.9	1661.5	1680.8	1741.7	1755.8	1767.7	1766.0	1799.0	+ 1.9	57.6
LDCs	655.6	697.9	724.2	754.7	787.1	824.7	859.8	890.6	937.9	+ 5.3	29.9

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

\+ less than 0.05 P : Provisional n/a : Not available Source : BP Statistical Review of World Energy, June 1993.

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

PRODUCT-WISE REGIONAL CONSUMPTION OF MAIN PETROLEUM PRODUCTS DURING 1982-92

(Million Tonnes)

Country	1982	1985	1986	1987	1988	1989	1990	1991	1992 (P)	% Change 1992 over 1991	% share of total 1992
USA											
Gasolines	294.4	305.4	314.3	325.2	333.8	335.6	329.5	324.2	330.6	+ 2.0	42.3
Middle distillates	186.6	204.8	213.4	218.6	229.7	231.7	230.5	225.3	228.9	+ 1.6	29.3
Fuel oil	90.8	67.3	78.2	69.4	76.0	75.0	67.2	63.0	59.2	- 5.9	7.6
Others	133.8	142.6	143.5	151.6	157.2	153.1	154.6	153.1	162.2	+ 5.9	20.8
Total USA	**705.6**	**720.1**	**749.4**	**764.8**	**796.7**	**795.4**	**781.8**	**765.6**	**780.9**	**+ 2.0**	**100.0**
Canada											
Gasolines	28.4	27.7	29.2	29.2	28.3	28.7	28.4	27.4	28.0	+ 2.2	36.6
Middle distillates	23.1	2[illegible]	22.6	22.8	24.2	25.1	24.0	22.4	22.6	+ 0.7	29.5
Fuel oil	9.8	5.6	6.4	7.1	7.7	9.4	8.7	7.7	7.7	+ 0.3	10.0
Others	11.6	13.0	12.9	13.9	16.5	17.1	16.6	17.3	18.2	+ 5.2	23.9
Total Canada	**72.9**	**68.5**	**71.1**	**73.0**	**76.7**	**80.3**	**77.7**	**74.8**	**76.5**	**+ 2.2**	**100.0**
OECD Europe											
Gasolines	135.5	139.5	146.0	149.1	154.4	156.5	163.0	163.3	166.0	+ 1.6	25.7
Middle distillates	215.6	228.1	238.8	240.9	243.9	242.1	247.9	258.9	262.3	+ 1.3	40.6
Fuel oil	162.0	120.6	121.4	114.1	109.5	110.9	110.0	109.3	110.9	+ 1.5	17.2
Others	88.3	89.7	93.9	96.6	101.2	102.1	103.2	106.2	107.3	+ 1.0	16.5
Total OECD Europe	**601.4**	**577.9**	**600.1**	**600.7**	**609.0**	**611.6**	**624.1**	**637.7**	**646.5**	**+ 1.4**	**100.0**
Japan											
Gasolines	38.6	41.5	43.1	44.4	46.7	49.4	51.0	52.8	55.9	+ 5.9	21.6
Middle distillates	58.0	63.6	66.6	69.5	76.8	79.2	83.1	86.5	88.5	+ 2.4	34.2
Fuel oil	78.8	62.4	59.2	56.9	61.8	62.9	71.0	68.9	68.4	- 0.7	26.4
Others	32.5	38.8	39.6	38.5	39.4	41.3	42.6	43.9	45.9	+ 4.6	17.8
Total Japan	**207.9**	**206.3**	**208.5**	**209.3**	**224.7**	**232.8**	**247.7**	**252.1**	**258.7**	**+ 2.7**	**100.0**
Australasia											
Gasolines	13.4	13.5	13.4	13.5	14.0	14.5	14.7	14.6	14.7	+ 0.8	40.3
Middle distilates	10.1	10.4	10.9	11.5	12.1	12.6	12.9	13.0	13.6	+ 4.2	37.3
Fuel oil	4.4	2.9	2.6	2.5	2.5	2.7	2.4	2.5	2.0	-21.2	5.4
Others	4.4	3.9	5.2	5.5	5.7	5.8	6.4	5.8	6.2	+ 6.9	17.0
Total Australasia	**32.3**	**30.7**	**32.1**	**33.0**	**34.3**	**35.6**	**36.4**	**35.9**	**36.5**	**+ 1.4**	**100.0**
Asian LDCs											
Gasolines	34.7	38.2	41.6	46.8	49.5	54.3	65.1	69.9	78.9	+12.9	18.3
Middle distillates	92.6	104.5	113.1	14.9	125.7	136.1	143.4	153.4	167.8	+ 9.4	39.0
Fuel oil	85.3	86.5	89.1	93.1	102.6	110.4	112.2	117.1	125.9	+ 7.5	29.2
Others	27.9	32.3	38.3	42.2	46.0	46.3	48.0	52.7	58.0	+10.1	13.5
Total Asian LDCs	**240.5**	**261.5**	**282.1**	**297.0**	**323.8**	**347.1**	**368.7**	**393.1**	**430.6**	**+ 9.5**	**100.0**
Non-Asian LDCs											
Gasolines	85.2	92.8	94.2	95.9	96.9	101.4	105.5	107.8	111.7	+ 3.6	22.0
Middle distillates	138.0	151.4	152.0	158.1	157.4	159.3	163.8	166.8	169.3	+ 1.5	33.4
Fuel oil	128.4	125.4	127.9	131.0	132.1	138.5	139.6	139.1	138.2	- 0.6	27.2
Others	63.5	66.7	68.1	72.6	76.9	78.4	82.5	83.6	88.3	+ 5.6	17.4
Total Non-Asian LDCs	415.1	436.3	442.2	457.6	463.3	477.6	491.4	497.3	507.5	+ 2.1	100.0
OECD & LDCs											
Gasolines	630.2	658.6	681.8	704.1	723.6	740.4	757.2	760.0	785.8	+ 3.4	28.7
Middle distillates	724.0	785.0	817.4	836.3	869.8	886.1	905.6	926.3	953.0	+ 2.9	34.8
Fuel oil	559.5	470.7	484.8	474.1	492.2	509.8	511.1	507.6	512.3	+ 0.9	18.7
Others	362.0	387.0	401.5	420.9	442.9	444.1	453.9	462.6	486.1	+ 5.1	17.8
TOTAL OECD & LDCs	**2275.7**	**2301.3**	**2385.5**	**2435.4**	**2528.5**	**2580.4**	**2627.8**	**2656.5**	**2737.2**	**+ 3.0**	**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. 1993.

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 1992 &1980

(Million Tonnes)

COUNTRY/REGION	1992(P)				1980			
	Production	Consumption	Deficit Surplus	% extent of dependence.	Production	Consumption	Deficit Surplus	% extent of dependence.
1.	2.	3.	4.	5.	6.	7.	8.	9.
North America (Including Canada)	514.8	857.4	-342.6	-40.0	567.6	881.7	– 314.1	–35.6
Latin America	400.0	242.0	158.0	65.3	298.6	222.8	+ 75.8	+ 34.0
OECD Europe	229.9	646.5	-416.6	-64.4	121.5	681.1	– 559.6	– 82.2
Middle East	899.7	168.4	731.3	434.3	927.4	99.8	+ 827.6	829.3
Africa	332.4	97.0	235.4	242.7	301.7	70.4	+ 231.3	328.6
Asia	303.8	689.3	-385.5	-55.9	221.9	486.9	– 265.0	-54.4
Of which India	27.9	63.7	– 35.8	– 56.2	9.4	25.1	– 15.7	-62.5
Japan	–	258.8	– 258.8	– 100.0	0.4	237.7	– 237.3	– 99.8
China	142.0	128.1	13.9	10.9	105.8	88.0	+ 17.8	+ 20.2
Australasia	26.9	31.1	– 4.2	– 13.5	19.2	33.9	– 14.7	– 43.4
Ex- U.S.S.R.	449.9	333.4	116.5	34.9	603.0	448.1	– 154.9	– 34.6
Central Europe	12.3	58.1	– 45.8	– 78.8	22.9	97.8	–74.9	– 76.6
TOTAL WORLD:	3169.7	3128.4	41.3	1.3	3083.8	3024.0	+ 59.8	2.0

(P) = Provisional.

SOURCE : B.P. Statistical Review of World Energy June, 1993

WORLD CRUDE OIL & PETROLEUM PRODUCTS IMPORTS / EXPORTS - 1992 *

(Million Tonnes)

Country/Area	IMPORTS		EXPORTS	
	Crude	Products	Crude	Products
1.	2.	3.	4.	5.
U.S.A.	302.3	85.9	1.6	44.0
Canada	25.4	8.4	39.7	14.1
Latin America	35.4	9.0	134.3	46.0
OECD Europe	425.8	82.0	34.8	34.2
Middle East	1.1	2.2	675.8	67.8
North Africa	5.7	2.3	103.7	33.7
West Africa	1.5	4.3	118.9	2.5
East & Southern Africa	21.5	6.1	—	—
South Asia	35.7	11.2	0.3	1.2
Other Asia	147.7	53.1	48.3	27.2
Japan	215.6	46.7	—	5.8
Australasia	16.6	2.0	7.7	3.6
Non-OECD Europe & China	32.2	15.6	80.2	39.7
Destination not known*	2.4	15.5	23.6	24.5
Total World	1268.9	344.3	1268.9	344.3

* 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 1993.

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

(Million Tonnes)

Country	1980	1985	1986	1987	1988	1989	1990	1991	1992
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
CRUDE OIL:									
Algeria	35.6	13.5*	12.7*	11.9*	12.1*	13.9	13.9*	17.1	16.5*
Ecuador	5.4	9.6	9.7	6.2	9.4	8.7	8.5	8.9	NA
Gabon	7.5	8.1	7.5	6.9	7.3	8.6	11.9*	13.8	13.6
Indonesia	49.2	35.0	39.4	34.8	32.2	33.5	34.0	39.7	38.7*
Iran, IR	39.7	77.9*	72.2*	84.9*	84.4*	100.5	110.2*	120.1*	125.8*
Iraq	123.5	53.9*	69.2*	85.2*	104.3*	112.2*	79.2*	2.1r	2.5*
Kuwait	64.5	23.6	37.5*	30.1*	34.8*	42.2*	32.0*	4.2*	34.6*
Libya	84.3	44.4*	53.0*	40.2*	44.3*	43.3*	54.1*	60.6*	58.7*
Nigeria	97.6	66.2	60.5	52.9	55.3*	75.7	76.9*	79.9*	78.9*
Qatar	23.2	13.9	15.2*	12.6*	15.2*	15.9*	17.3	16.7	18.0
Saudi Arabia	459.1	106.8	162.1	120.0	150.8	165.6	223.4r	324.0r	329.1
U.A.E.	84.5	48.5*	56.2*	62.0*	66.9*	81.9*	94.1*	109.0*	102.5*
Venezuela	64.1	41.0	47.1	51.0	48.4	49.0	61.7	68.6r	67.6*
TOTAL:	**1138.2**	**542.4**	**642.3**	**598.7**	**665.4**	**751.0**	**817.2**	**864.6**	**886.6**
REFINED PETROLEUM PRODUCTS:									
Algeria	7.4	15.9*	18.7*	18.1*	18.7*	19.6	22.5*	19.9	20.9*
Ecuador	1.1	0.7	0.9	0.8	1.2	1.1	1.3	1.2	NR
Gabon	0.5	0.2*	0.1*	0.1*	0.1	Neg.	0.1*	0.2	0.3
Indonesia	8.1	7.4	7.9	9.3	10.2	11.5	11.9	11.5	15.0*
Iran, IR	7.0	2.0*	0.5*	0.1*	0.4*	1.9*	3.0*	4.4*	3.8*
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*	12.7*
Libya	3.6	4.5*	5.1*	5.5*	4.5*	6.3*	7.5*	7.0*	8.5*
Nigeria	3.7	1.0	0.4	0.8	1.0*	1.5	1.5*	1.5	1.5*
Qatar	0.1	1.4*	1.8*	2.0*	2.2*	3.7*	3.7*	4.1	5.2*
Saudi Arabia	20.6	28.5	35.4	50.7	56.8	53.4	64.8r	60.9r	63.6
U.A.E.	1.0	4.6*	5.5*	5.7*	5.8*	7.7*	8.2*	8.5*	8.6*
Venezuela	28.1	26.3	28.4	23.7	31.0	30.8	30.7	35.3r	30.8
TOTAL:	**100.0**	**117.6**	**131.1**	**149.8**	**169.0**	**179.2**	**177.8**	**156.3**	**170.4**

* Provisional or estimated figures, as of July 13, 1993.

r = Revised

NR = Not reported

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

Source : OPEC Annual Statistical Bulletin 1992

CRUDE OIL IMPORTS FROM OPEC MEMBER COUNTRIES BY REGIONS 1980-1992

(Million Tonnes)

IMPORT REGION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
North America	210.7	149.7	79.6	66.2	65.2*	60.9*	107.2*	124.4*	135.8	170.9*	190.9	189.6	179.4
Of which USA	188.0	133.4	70.2	60.8	60.4	56.3	99.9	118.6	130.3	162.6	181.0	179.6	174.3
Latin America	111.6	89.4	68.9	60.5	56.5*	45.4*	40.9*	32.6*	37.3	33.6*	35.9*	33.7	40.6
Western Europe	453.1	355.7	275.6	232.8	233.1*	223.3*	261.7*	218.6*	235.9	259.7*	272.7*	279.0	280.4
Of which:													
France	100.0	71.8	57.0	44.1	42.9	37.3	42.8	25.8	29.2	35.1	40.0	44.9	42.5
Germany	65.8	47.1	40.2	32.5	25.1	20.6	25.9	23.2	27.9	32.3	35.0	36.8	38.9
Italy	67.5	65.6	61.0	52.7	51.2	49.3	56.8	49.5	44.2	48.7	56.4	61.3	56.9
U.K.	34.5	24.2	18.5	12.4	9.6	10.5	12.7	9.1	11.9	10.2	14.7	14.2	14.0
Middle East	21.8	21.7	23.8	19.2	18.5	19.1*	21.1*	15.2*	13.9	14.1*	14.9*	14.5	14.9
Africa	16.2	14.8	10.1	7.5	8.3*	8.2*	9.8*	11.0*	9.9	11.6*	14.7*	17.8	14.2
Asia and Far East	285.3	264.9	225.4	212.2	192.4*	162.2*	167.3*	164.8*	193.1	224.4*	257.1*	299.6	336.4
Of which:													
Japan	176.2	153.0	138.4	134.0	134.9	114.4*	107.6	113.7	115.6	133.2	147.6	155.6	165.5
Oceania	10.6	10.4	9.1	5.3	4.8*	2.3*	3.1*	5.7*	4.3	7.0	5.9	6.5	9.0
Eastern Europe	17.2	8.9	8.6	6.0	9.8	11.0*	21.9*	20.2	23.5	25.7*	16.5*	11.4	11.7
Unspecified	6.2	-	2.8	3.1	2.6	0.4	-	-	2.1	-	-	3.6	-
OECD Area	850.6	668.9	502.6	438.4	438.0	393.6	475.1	456.9	484.3	561.7	608.4	624.1	626.6
TOTAL WORLD	1132.7	915.6	703.9*	612.9*	591.2*	532.8*	632.6*	592.5*	656.0*	747.0*	808.7*	855.8*	886.6*

r = Revised.
Source = OPEC Annual Statistical Bulletin 1992.
Note : Figures Converted to million tonnes using Conversion factor : 1 barrel = 0.136 Metric tonnes
* = provisional or estimated figures, as of July 13. 1993.
- = Nil or Negligible

COUNTRY-WISE OPEC CRUDE OIL EXPORT BY REGIONS : 1992(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	27.4	299.8	-	-	327.2	-	-	-	4.9	4.9	-	-	332.1*
2. Gabon	154.0	77.9	3.9	13.0	248.8	19.6	2.6	-	2.0	24.2	-	-	273.0
3. Indonesia	91.5	-	48.5	423.0	563.0	-	214.7	-	-	214.7	-	-	777.7*
4. Iran.IR	7.9	1195.0	2.1	354.8	1439.6	125.0	583.2	30.0	45.0	783.2	185.0	-	2528.0
5. Iraq	-	-	-	-	-	-	-	50.00	-	-	-	-	50.00*
6. Kuwait	39.5	130.9	-	236.1	406.5	30.0	259.1	-	-	289.1	-	-	695.6*
7. S.P.Libyan.A	-	1095.0	-	-	1095.0	-	20.0	-	20.0	40.0	45.0	-	1180.0*
8. Nigeria	753.3	690.7	-	-	1438.0	45.0	10.0	-	80.0	135.0	6.0	-	1585.0*
9. Qatar	-	5.6	3.4	257.9	266.9	14.1	77.1	-	4.2	95.4	-	-	362.3
10. Saudi Arabia	1684.6	1743.2	50.5	990.0	4468.3	186.0	1645.5	214.2	97.2	2142.9	-	-	6611.2
11 U.A.E.	86.9	192.8	72.0	1041.2	1392.9	10.0	622.1	5.0	30.0	667.1	-	-	2060.0*
12 .Venezuela	758.6	201.9	-	8.6	969.1	386.9	-	-	1.3	388.2	-	-	1357.3
TOTAL	**3603.7**	**5632.8**	**180.4**	**3324.6**	**12615.3**	**816.6**	**3434.3**	**299.2**	**284.6**	**4784.7**	**236.0**	**-**	**17812.2**

SOURCE: OPEC Annual Statistical Bulletin 1992.
P : Provisional
* : Provisional or estimated figures, as of July 13, 1993.

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 – 1992

(Billion US $)

OPEC MEMBER COUNTRIES	1980	1983	1984	1986	1988	1989	1990	1991	1992(P)
1	2	3	4	5	6	7	8	9	10
Algeria	12.65	9.47	9.19	4.82	4.99	7.00	8.85	9.59	8.17
Ecuador	1.55	1.58	1.78	0.98	0.98	1.15	1.26	1.03	N.A.
Gabon	1.74	1.65	1.68	0.72	0.78	1.20	1.97	1.74	1.71
Indonesia	12.85	13.48	12.10	5.17	5.19	6.06	6.48	5.75r	6.20
Iran	13.29	19.02	12.26	6.26	9.21	10.81	16.70	15.28	15.70
Iraq	26.10	7.82	9.35	6.91	10.95	14.50	9.46	0.38r	0.33
Kuwait	17.68	9.74	10.74	6.38	6.39	9.31	5.54	1.40r	6.22
Libya	21.38	11.86	10.59	5.44	5.17	7.50	9.80	10.02	9.20
Nigeria	25.29	10.06	11.75	6.01	6.27	7.47	13.20	12.15	11.69
Qatar	5.41	3.11	4.39	1.72	1.71	1.96	2.96	2.19	3.20
Saudi Arabia	105.81	42.81	34.24	16.98	20.21	24.10	40.13	42.66r	47.56
U.A.E.	19.56	12.24	12.98	7.45	7.35	11.30 r	15.60 r	14.77r	14.49
Venezuela	17.56	13.86	14.82	7.18	8.16	10.00	13.95	12.31r	11.78
TOTAL:	**280.86**	**156.69**	**145.87**	**76.01**	**87.35**	**111.35**	**145.90**	**130.67**	**136.25**

SOURCE: OPEC Annual Statistical Bulletin - 1992

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

Note : Figures when added, may not correspond to totals, due to rounding off

Starting 1980, Saudi Arabian data excludes NGLs.

Total OPEC for 1991 excludes revenues for Iraq and Kuwait

r : Revised

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

COUNTRIES	AMOUNT (Million of U.S.$)				As percentage of donor G.N.P.			
	1988	1989	1990	1991(P)	1988	1989	1990	1991(P)
1.	2.	3.	4.	5.	6.	7.	8.	9.
OECD:								
Italy	3193	3613	3395	3352	0.39	0.42	0.32	0.30
New Zealand	104	87	95	100	0.27	0.22	0.23	0.25
United Kingdom	2645	2587	2638	3348	0.32	0.31	0.27	0.32
Japan	9134	8965	9069	10952	0.32	0.31	0.31	0.32
Austria	301	283	394	548	0.24	0.23	0.25	0.34
Finland	608	706	846	930	0.59	0.63	0.64	0.76
Australia	1101	1020	955	1050	0.46	0.38	0.34	0.38
Canada	2347	2320	2470	2604	0.50	0.44	0.44	0.45
Netherlands	2331	2094	2592	2517	0.98	0.94	0.94	0.88
Belgium	601	703	889	831	0.39	0.46	0.45	0.42
France	6865	7450	9380	7484	0.72	0.78	0.79	0.62
United States	10141	7676	11394	11362	0.21	0.15	0.21	0.20
Denmark	922	937	1171	1300	0.89	0.93	0.93	0.96
Germany	4731	4949	6320	6890	0.39	0.41	0.42	0.41
Norway	985	917	1305	1178	1.13	1.05	1.17	1.14
Sweden	1534	1799	2012	2116	0.86	0.96	0.90	0.92
Switzerland	617	558	750	863	0.32	0.30	0.31	0.36
Ireland	57	49	57	72	0.20	0.17	0.16	0.19
TOTAL :	**48114**	**46713**	**55632**	**55519**				
OPEC								
Nigeria	14	70	13	NA	0.05	0.28	0.06	NA
Iran	39	-94	2	NA	0.01	-0.02	NA	NA
Iraq	-22	21	55	0	-0.04	0.04	NA	NA
Algeria	13	40	7	5	0.03	0.11	0.03	0.01
Venezuela	55	52	15	NA	0.09	0.13	0.03	NA
Libya	129	86	4	25	0.63	0.41	0.01	0.09
Saudi Arabia	2048	1171	3692	1704	2.53	1.37	3.90	1.44
Kuwait	108	169	1666	387	0.40	0.54	--	NA
U.A.E.	–17	2	888	558	–0.07	0.02	2.65	1.66
Qatar	4	–2	1	1	0.08	–0.04	0.02	0.01
TOTAL OAPEC	**2361**	**NA**	**NA**	**NA**	**0.86**	**NA**	**NA**	**NA**
TOTAL OPEC	**2369**	**1514**	**6341**	**NA**	**0.34**	**0.21**	**NA**	**NA**

P : Provisional NA : Not available

Source : World Development Report 1993.

LOAN ASSISTANCE FROM OPEC AND OTHER OIL SUPPLYING NATIONS: 1980-81 TO 1991-92

(Rs. Crores)

	1980-81	1982-83	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991 92
	1	2	3	4	5	6	7	8	9
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	207.2	218.4	295.3	137.4
OPEC:									
Abu Dhabi Fund:									
Authorisation	--	--	--	--	--	--	--	--	
Utilisation	2.0	--	--	--	--	--	--	--	
OPEC Fund Loans									
Authorisation	39.8	29.3	--	9.0	10.4	14.6	--	11.6	
Utilisation	3.4	37.4	4.7	7.4	24.5	29.0	6.9	9.8	18.1
U.A.E. Loans :									
Authorisation	--	--	--	--	--	--	--	--	
Utilisation	--	--	--	--	--	--	--	--	
Saudi Arab Fund: for Devep.									
Authorisation	--	--	51.6	--	50.2	--	--	--	
Utilisation	13.0	12.4	0.2	7.4	0.9	5.6	42.6	29.7	26.5
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:									
Authorisation	82.9	--	--	--	--	--	--	--	
Utilisation	0.7	--	--	--	--	--	--	--	
Iran-Loans:									
Authorisation	--	--	--	--	--	--	--	--	
Utilisation	17.3	--	--	--	--	--	--	--	
TOTAL OPEC ASSISTANCE:									
Authorisation	122.7	29.3	82.4	9.0	60.6	50.7	--	11.6	
Utilisation	45.0	75.3	58.3	37.8	36.2	36.4	51.0	40.8	44.6

Note:- 1. Figures of authorisation of assistance include agreements signed on Government and non-Government assistance.
2. Utilization of assistance is on Government and non-Government accounts.
3. Utilization figures are exclusive of suppliers credit and commercial borrowings.

SOURCE : Economic Survey, 1992-93

-- : Nil

OFFICIAL SELLING PRICE OF KEY OPEC CRUDE SINCE 1987

(US $/bbl)

Period		Country/Crude Name													
		Kuwait	S.P.Libyan A.J.	Nigeria	Qatar	Saudi Arabia		UAE	Venezuela	Indonesia	I.R.Iran		Iraq		Oman
		Kuwait Exp. 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
1992		-	19.52	19.59	18.45	16.36	15.16	18.83	16.02	20.51	17.73	16.68	-	-	17.68
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
1992	Jan.	-	18.48	18.33	16.60	14.20	12.70	17.27	13.20	19.89	15.80	14.80	-	-	15.75
	Feb.	-	18.60	17.93	17.13	14.78	13.28	17.46	13.34	19.34	16.33	15.33	-	-	16.28
	Mar.	-	17.88	17.60	17.10	14.75	13.35	17.20	13.72	18.30	16.30	15.30	-	-	16.25
	Apr.	15.67	19.22	19.07	17.88	15.77	14.52	17.98	15.06	18.68	17.18	16.18	-	-	17.13
	May	16.81	20.10	20.13	18.83	16.91	15.76	19.13	16.39	20.03	18.18	17.18	-	-	18.13
	June	18.24	21.29	21.34	20.13	18.34	17.19	20.49	17.88	21.76	19.54	18.54	-	-	19.49
	July	17.74	20.39	20.80	19.88	17.84	16.69	20.04	17.95	22.59	19.09	18.09	-	-	19.04
	Aug.	17.08	19.85	20.30	19.24	17.18	16.03	19.38	17.59	22.03	18.43	17.43	-	-	18.38
	Sep.	17.50	20.35	20.74	19.70	17.60	16.50	20.19	17.64	21.41	18.91	17.91	-	-	18.86
	Oct.	17.34	20.45	20.86	19.51	17.44	16.34	19.95	17.80	21.24	18.74	17.74	-	-	18.69
	Nov.	16.28	19.40	19.85	18.25	16.38	15.38	18.85	16.58	20.98	17.70	16.40	-	-	17.65
	Dec.	15.29	18.41	18.36	17.37	15.39	14.48	18.14	15.16	19.56	16.78	15.48	-	-	16.73

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 1992.

DEVELOPMENT OF CRUDE PETROLEUM PRICES (FOB) 1990-1993

(Official Selling Prices)

(US $/bbl.FOB)

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

Country Export Shares

(percentages)

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

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

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

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

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

FOB PRICE OF PETROLEUM PRODUCTS
(US Dollars/Barrel)

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

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

NATURAL GAS PRICES IN INDUSTRIAL / DEVELOPED COUNTRIES OF THE WORLD

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

Country	1980	1986	1988	1989	1990	1991	1992
A. FOR INDUSTRIAL USE							
Australia	73.04	95.43	115.70	115.84	123.12	135.97	126.95
Austria	172.95	201.11	166.61	142.25	176.43	188.69	183.83
Belgium	151.54	154.98	114.63	113.96	144.37	159.16	144.48
Canada	65.44	97.70	92.21	83.42	83.69	87.03	83.70
Finland	203.28	136.53	116.14	118.92	146.78	140.25	129.53
France	176.13	157.15	133.54	129.58	155.16	151.30	152.78
Germany	156.75	196.66	141.49	143.94	187.50	201.15	200.51
Ireland	N.A.	333.53	302.89	281.87	328.93	319.94	338.44
Italy	173.47	101.32	89.78	107.80	157.18	170.57	177.15
Japan	448.73	507.00	478.24	449.71	412.57	424.68	449.17
Netherlands	146.23	128.27	110.52	104.38	122.90	N.A.	N.A.
New Zealand	133.89	116.29	215.30	189.28	192.43	198.73	184.89
Spain	237.45	258.70	247.97	247.43	N.A.	N.A.	N.A.
Switzerland	265.11	319.62	255.67	220.29	253.61	282.96	298.26
United Kingdom	162.14	148.68	163.86	143.08	158.45	162.01	157.60
United States	98.63	124.44	114.04	112.50	111.44	101.04	106.34
OECD Europe	164.20	160.82	136.12	135.61	163.14	N.A.	N.A.
OECD	117.66	139.25	125.22	123.16	130.62	N.A.	N.A.
B. FOR HOUSEHOLD USE							
Australia	196.69	187.51	247.74	264.12	268.78	287.60	283.42
Austria	402.09	472.50	367.99	331.52	391.82	397.86	420.11
Belgium	321.20	365.72	345.58	340.94	415.62	418.56	430.48
Canada	103.72	149.62	170.67	175.34	185.48	181.59	184.44
Finland	203.28	147.08	138.27	142.43	176.84	170.24	155.41
France	414.10	455.19	432.29	406.13	474.46	461.96	499.98
Germany	334.97	373.58	318.57	311.71	396.53	424.59	455.12
Ireland	N.A.	553.76	443.23	412.46	481.32	476.21	506.46
Italy	210.34	347.97	440.63	469.75	642.32	760.44	N.A.
Japan	617.19	832.28	977.69	989.49	945.99	1016.43	1104.66
Netherlands	227.06	327.51	281.09	249.78	335.49	367.29	383.72
New Zealand	232.72	143.18	225.91	223.00	231.29	254.53	238.23
Spain	509.29	541.09	483.24	484.51	N.A.	N.A.	N.A.
Switzerland	362.22	398.18	451.85	401.57	481.75	491.23	510.33
United Kingdom	219.88	240.51	299.86	291.77	329.08	335.56	344.46
United States	141.78	224.61	210.74	216.91	233.77	237.81	227.31
OECD Europe	253.82	331.09	347.81	344.55.	430.90	467.53	N.A.
OECD	186.83	282.44	286.91	288.70	332.57	356.38	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 1993.

CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price(*) 1990	1991	1992	1993
		CARIBBEAN MARKET				
Latin America & Caribbean						
Antigua	St. Johns	Crude	129.18	120.42	114.59	121.09
		Gasoline	235.00	217.40	221.10	219.20
		Kerosene	212.70	216.70	203.30	199.60
		Gas Oil	190.10	223.30	181.30	186.00
		Fuel Oil	93.90	81.10	75.70	91.20
Argentina	La Plata	Crude	139.36	131.62	125.79	132.29
		Gasoline	246.30	231.00	234.70	232.80
		Kerosene	224.10	230.30	216.90	213.20
		Gas Oil	201.40	236.90	194.90	199.50
		Fuel Oil	105.20	94.70	89.30	104.70
Bahamas	Freeport	Crude	129.12	120.31	114.48	120.97
		Gasoline	236.90	221.50	225.20	223.30
		Kerosene	214.70	220.80	207.30	203.60
		Gas Oil	192.00	227.40	185.40	190.00
		Fuel Oil	95.80	85.20	79.80	95.20
Barbados	Bridgetown	Crude	129.31	120.58	114.76	121.25
		Gasoline	235.10	217.50	221.20	219.30
		Kerosene	212.80	216.80	203.40	199.70
		Gas Oil	190.20	223.40	181.40	186.00
		Fuel Oil	94.00	81.20	75.80	91.30
Belize	Belize	Crude	0.00	0.00	0.00	0.00
		Gasoline	236.70	219.40	223.10	221.20
		Kerosene	214.40	218.70	205.30	201.60
		Gas Oil	191.80	225.30	183.40	188.00
		Fuel Oil	95.60	83.20	77.80	93.20
Bermuda	Hamilton	Crude	0.00	0.00	0.00	0.00
		Gasoline	237.40	220.00	223.70	221.80
		Kerosene	215.20	219.30	205.90	202.20
		Gas Oil	192.50	225.90	184.00	188.60
		Fuel Oil	96.40	83.80	78.30	93.80
Brazil	Santos	Crude	136.64	129.61	123.78	130.28
		Gasoline	243.10	227.50	231.20	229.30
		Kerosene	220.90	226.80	213.40	209.70
		Gas Oil	198.20	233.50	191.50	196.10
		Fuel Oil	102.00	91.30	85.90	101.30

Contd.....

CIF PRICE OF THE CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price(*) 1990	1991	1992	1993
Chile	Valparaiso	Crude	140.63	133.17	127.34	133.83
		Gasoline	247.70	231.70	235.40	233.50
		Kerosene	225.50	231.00	217.60	213.90
		Gas Oil	202.90	237.60	195.60	200.20
		Fuel Oil	106.70	95.40	90.00	105.40
Colombia	Barranquilla	Crude	128.26	119.10	113.27	119.77
		Gasoline	235.10	217.20	220.90	219.00
		Kerosene	212.90	216.50	203.00	199.30
		Gas Oil	190.20	223.10	181.10	185.70
		Fuel Oil	94.00	80.90	75.50	90.90
Costa Rica	Puerto Limon	Crude	129.34	120.52	114.69	121.19
		Gasoline	236.70	219.30	223.00	221.10
		Kerosene	214.50	218.60	205.20	201.50
		Gas Oil	191.80	225.20	183.20	187.80
		Fuel Oil	95.60	83.00	77.60	93.00
Dominican R.	Santo Domingo	Crude	128.34	119.18	113.35	110.85
		Gasoline	235.00	217.30	221.00	219.10
		Kerosene	212.70	216.60	203.20	199.50
		Gas Oil	190.10	223.20	181.20	185.90
		Fuel Oil	93.90	81.00	75.60	91.10
El Salvador	Cutuco	Crude	130.07	121.75	115.92	122.41
		Gasoline	242.40	225.30	229.00	227.10
		Kerosene	220.10	224.60	211.20	207.40
		Gas Oil	197.50	231.20	189.20	193.80
		Fuel Oil	101.30	89.00	83.60	99.00
Guatemala	Puerto Barrios	Crude	129.08	119.73	113.90	120.40
		Gasoline	236.80	219.60	223.30	221.40
		Kerosene	214.60	218.90	205.50	201.80
		Gas Oil	191.90	225.50	183.50	188.10
		Fuel Oil	95.70	83.30	77.90	93.30
Haiti	Port au Prince	Crude	0.00	0.00	0.00	0.00
		Gasoline	235.40	217.90	221.60	219.70
		Kerosene	213.10	217.20	203.70	200.00
		Gas Oil	190.50	223.80	181.80	186.40
		Fuel Oil	94.30	81.60	76.20	91.60
Honduras	Puerto Cortez	Crude	129.75	120.41	114.59	121.08
		Gasoline	238.20	219.80	223.50	221.60
		Kerosene	216.00	219.10	205.70	202.00
		Gas Oil	193.30	225.70	183.70	188.40
		Fuel Oil	97.10	83.50	78.10	93.60

Contd.....

CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price(*) 1990	1991	1992	1993
Jamaica	Kingston	Crude	128.74	120.08	114.25	120.75
		Gasoline	235.30	217.80	221.50	219.60
		Kerosene	213.10	217.10	203.70	200.00
		Gas Oil	190.40	223.70	181.70	186.30
		Fuel Oil	94.30	81.50	76.10	91.50
Nicaragua	Corinto	Crude	129.80	120.50	114.68	121.17
		Gasoline	242.70	225.50	229.20	227.30
		Kerosene	220.40	224.80	211.40	207.70
		Gas Oil	197.80	231.40	189.50	194.10
		Fuel Oil	101.60	89.30	83.80	99.30
Panama	Puerto Las Minas	Crude	128.91	120.08	114.25	120.75
		Gasoline	235.60	218.10	221.80	219.90
		Kerosene	213.30	217.40	204.00	200.30
		Gas Oil	190.70	224.00	182.00	186.60
		Fuel Oil	94.50	81.80	76.40	91.80
Surinam	Paramaribo	Crude	0.00	0.00	0.00	0.00
		Gasoline	236.10	218.80	222.50	220.60
		Kerosene	213.80	218.10	204.60	200.90
		Gas Oil	191.20	224.70	182.70	187.30
		Fuel Oil	95.00	82.50	77.10	92.50
Uruguay	Montevideo	Crude	134.09	126.39	120.56	127.06
		Gasoline	245.20	229.80	233.50	231.60
		Kerosene	223.00	229.10	215.70	212.00
		Gas Oil	200.30	235.70	193.70	198.30
		Fuel Oil	104.10	93.50	88.10	103.50
		Africa South of Sahara				
Benin	Cotonou	Crude	0.00	0.00	0.00	0.00
		Gasoline	244.30	228.80	232.50	230.60
		Kerosene	222.10	228.10	214.70	211.00
		Gas Oil	199.40	234.70	192.70	197.30
		Fuel Oil	103.20	92.50	87.10	102.50
Cameroon	Douala	Crude	0.00	0.00	0.00	0.00
		Gasoline	240.00	230.90	234.70	232.80
		Kerosene	217.80	230.20	216.80	213.10
		Gas Oil	195.10	236.90	194.90	199.50
		Fuel Oil	98.90	94.70	89.30	104.70

Contd.....

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

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

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CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

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

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CIF PRICE OF CRUDE PETROLEUM AND PETROLEUM PRODUCTS

(US Dollars per Metric Ton)

Country	Discharge Port	Product	Price (*) 1990	1991	1992	1993
Portugal	Lisbon	Crude	133.45	125.64	119.81	126.31
		Gasoline	243.40	226.80	230.50	228.60
		Kerosene	221.10	226.00	212.60	208.90
		Gas Oil	198.50	232.70	190.70	195.30
		Fuel Oil	102.30	90.50	85.10	100.50
Spain	Huelva	Crude	133.51	125.61	119.78	126.27
		Gasoline	238.10	227.50	231.20	229.30
		Kerosene	215.80	226.80	213.40	209.70
		Gas Oil	193.20	233.40	191.40	196.10
		Fuel Oil	97.00	91.20	85.80	101.30
MIDDLE EAST MARKET						
Africa South of Sahara						
Djibouti	Djibouti	Crude	129.08	120.29	114.46	120.95
		Gasoline	241.80	307.30	242.10	231.30
		Kerosene	206.80	403.20	200.00	216.50
		Gas Oil	189.50	368.80	191.30	203.70
		Fuel Oil	95.30	102.30	72.10	95.60
Ethiopia	Assab	Crude	129.49	120.70	114.87	121.37
		Gasoline	243.00	308.20	243.00	232.20
		Kerosene	208.00	404.10	200.90	217.40
		Gas Oil	190.70	369.70	192.20	204.60
		Fuel Oil	96.50	103.20	72.90	96.50
Kenya	Mombassa	Crude	130.07	121.56	115.73	122.22
		Gasoline	245.20	310.00	244.80	234.00
		Kerosene	210.20	405.90	202.70	219.30
		Gas Oil	192.90	371.60	194.00	206.40
		Fuel Oil	98.70	105.00	74.80	98.30
Madagascar	Tamatave	Crude	131.09	122.74	116.91	123.40
		Gasoline	244.50	312.60	247.30	236.50
		Kerosene	209.50	408.40	205.20	221.80
		Gas Oil	192.20	374.10	196.50	209.00
		Fuel Oil	98.00	107.50	77.30	100.80
Mauritius	Port Louis	Crude	0.00	0.00	0.00	0.00
		Gasoline	246.20	312.60	247.30	236.50
		Kerosene	211.30	408.40	205.20	221.80
		Gas Oil	193.90	374.10	196.50	209.00
		Fuel Oil	99.70	107.50	77.30	100.80
Mozambique	Maputo	Crude	131.57	123.67	117.84	124.34
		Gasoline	250.70	314.60	249.30	238.50
		Kerosene	215.70	410.50	207.20	223.80
		Gas Oil	198.40	376.10	198.50	211.00
		Fuel Oil	104.20	109.50	79.30	102.80
Namibia	Walvis Bay	Crude	0.00	0.00	0.00	0.00
		Gasoline	245.30	319.30	254.00	243.20
		Kerosene	210.40	415.20	212.00	228.50
		Gas Oil	193.00	380.80	203.20	215.70
		Fuel Oil	98.90	114.30	84.00	107.60
Reunion	Reunion	Crude	0.00	0.00	0.00	0.00
		Gasoline	250.70	312.90	247.70	236.80
		Kerosene	215.70	408.80	205.60	222.10
		Gas Oil	198.40	374.40	196.90	209.30
		Fuel Oil	104.20	107.90	77.60	101.20
Seychelles	Port Victoria	Crude	0.00	0.00	0.00	0.00
		Gasoline	245.30	309.10	243.80	233.00
		Kerosene	210.40	404.90	201.70	218.30
		Gas Oil	193.00	370.60	193.00	205.40
		Fuel Oil	98.90	104.00	73.80	97.30

Contd.....

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

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

Contd.....

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

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

Contd.....

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

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

Contd.....

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

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

(*) Mid-February Quotations

Product Specifications:

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

Conversion Factors:

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

1 Barrel = 42 Gallons.

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

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

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

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

Contd.....

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

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assessment	DIFFERENCE (+) Premium (–) Discount
1.6.84	28.48	27.41	-1.07
8.6.84	28.48	27.51	-0.97
15.6.84	28.48	27.30	-1.18
22.6.84	28.48	27.09	-1.39
29.6.84	28.48	27.94	-1.54
7.9.84	28.48	27.36	-1.12
14.9.84	28.48	27.43	-1.05
21.9.84	28.48	27.49	-0.99
28.9.84	28.48	27.62	-0.86
7.12.84	27.88	26.93	-0.94
14.12.84	27.88	26.79	-1.09
21.12.84	27.88	26.77	-1.10
28.12.84	27.88	26.96	-0.92
1.3.85	27.66	27.11	-0.58
8.3.85	27.67	27.08	-0.54
15.3.85	27.62	27.13	-0.55
22.3.85	27.54	27.07	-0.47
29.3.85	27.53	27.03	-0.50
10.5.85	27.48	26.38	-1.10
17.5.85	27.40	25.94	-1.46
24.5.85	27.40	25.84	-1.56
6.9.85	27.42	26.69	-0.73
13.9.85	27.37	26.50	-0.87
20.9.85	27.37	26.50	-0.87
27.9.85	27.37	26.76	-0.61
6.12.85	27.34	26.32	-0.95
13.12.85	27.28	26.28	-0.98
20.12.85	27.26	26.32	-0.94
27.12.85	27.26	26.33	-0.93
7.3.86	24.34	13.18	-11.06
14.3.86	24.24	13.27	-11.02
21.3.86	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
1.6.90	16.79	13.59	-3.20
8.6.90	16.77	13.40	-3.36
15.6.90	16.76	13.37	-3.39
22.6.90	16.73	12.97	-3.76
29.6.90	16.75	13.38	-3.37

Contd.....

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

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

Contd.....

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

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assessment	DIFFERENCE (+) Premium (–) Discount
4.6.92	18.39	19.35	0.96
11.6.92	18.44	19.56	1.12
18.6.92	18.43	19.63	1.20
25.6.92	18.48	19.83	1.35
1.7.92	18.91	19.36	0.55
9.7.92	19.11	19.06	-0.05
16.7.92	19.08	18.99	-0.09
23.7.92	19.10	19.10	0.00
30.07.92	19.10	19.13	0.03
6.8.92	18.94	18.64	-0.30
20.8.92	18.81	18.51	-0.30
27.8.92	18.81	18.43	-0.38
3.9.92	18.59	18.53	-0.06
10.9.92	18.51	18.83	0.32
17.9.92	18.51	19.13	0.62
24.9.92	18.50	19.02	0.52
1.10.92	18.50	18.90	0.40
8.10.92	18.66	18.89	0.23
15.10.92	18.67	19.27	0.60
22.10.92	18.67	19.05	0.38
29.10.92	18.66	18.35	-0.31
5.11.92	18.48	17.99	-0.49
12.11.92	18.47	18.05	-0.42
19.11.92	18.46	17.82	-0.64
24.11.92	18.46	17.64	-0.82
3.12.92	18.14	17.30	-0.84
10.12.92	18.11	16.72	-1.39
17.12.92	18.08	16.74	-1.34
22.12.92	18.09	17.04	-1.05
7.1.93	17.78	16.25	-1.53
14.1.93	17.57	15.88	-1.69
21.1.93	17.52	15.55	-1.97
28.1.93	17.57	16.30	-1.27
4.2.93	17.32	16.84	-0.48
11.2.93	17.20	16.94	-0.26
18.2.93	17.19	16.58	-0.61
25.2.93	17.19	17.13	-0.06
4.3.93	17.50	17.43	-0.07
11.3.93	17.52	17.44	-0.08
18.3.93	17.51	17.16	-0.35
25.3.93	17.51	16.95	-0.56

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

DEVELOPMENT OF CRUDE PETROLEUM PRICES (FOB) 1992-93

(Official Selling Prices)

(US $/bbl.FOB)

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

Country Export Shares

(percentages)

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

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

DEVELOPMENT OF SPOT PRICES OF KEY OPEC CRUDE OILS SINCE JANUARY 1987

(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
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	
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	-	-	-

Source : Monthly OPEC Bulletins.

Contd.....

DEVELOPMENT OF SPOT PRICES OF KEY OPEC CRUDE OILS SINCE JANUARY 1987

(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
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	-	-	-	-
April	17.37	14.52	17.18	-	-	-	
May	18.36	15.76	18.18	16.81	-	-	
June	19.79	17.19	19.54	18.24	-	-	
July	19.29	16.69	19.09	17.74	-	-	
August	18.63	16.03	18.43	17.08	-	-	
September	19.10	16.50	18.91	17.50	-	-	
October	18.94	16.34	18.74	17.34	-	-	
November	17.78	15.38	17.70	16.28	-	-	
December	16.88	14.48	16.78	15.29	-		
1993							
January	15.92	13.52	15.74	14.59	-	-	
February	16.84	14.32	16.48	15.34	-	-	
March	17.39	14.44	16.25	15.69	-	-	

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
1.1.93	50.0	114.0	108.0	104.0	72.0	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 1992

Country	US $ Exchange Rates in National Currencies	Gasoline (US$/litre)	Automotive Diesel Oil (US$/litre)	Heavy fuel Oil for Industry (US$/tonnes)	Light Fuel Oil for House hold (US$/1000 litres)	Light Fuel Oil for Industry use (US$/1000 litres)
1.	2.	3.	4.	5.	6.	7.
Australia	1.36	0.499	0.482	NA	NA	NA
Austria	10.99	0.970	0.607	130.12	400.36	254.01
Belgium	32.15	0.987	0.622	99.95	232.24	195.33
Canada	1.21	0.456	0.439	102.94	309.76	175.35
Denmark	6.04	0.961	0.478	126.04	668.35	251.49
Finland	4.49	1.014	0.665	144.24	302.61	248.14
France	5.29	0.991	0.551	120.23	386.64	272.01
Germany	1.56	0.980	0.601	133.83	287.64	252.30
Greece	190.47	0.820	0.547	162.76	475.64	547.09
Ireland	0.59	1.004	0.736	142.71	410.71	285.70
Italy	1232.00	1.236	0.767	189.15	914.65	768.59
Japan	126.70	0.977	0.592	210.32	398.82	273.35
Luxembourg	NA	NA	NA	NA	NA	NA
Netherlands	1.76	1.143	0.552	178.47	383.68	NA
New Zealand	1.86	0.541	0.261	227.39	NA	228.47
Norway	6.21	1.283	0.439	404.52	464.44	386.75
Portugal	134.82	1.083	0.702	196.42	741.73	701.51
Spain	102.40	0.943	0.634	129.57	406.25	356.23
Sweden	5.82	1.136	0.669	366.33	555.42	411.62
Switzerland	1.41	0.761	0.731	137.27	230.55	207.54
Turkey	6860.60	0.745	0.536	164.58	551.44	NA
UK	0.57	0.882	0.672	114.36	219.15	198.03
USA	1.00	0.298	0.295	85.76	253.87	175.67

Source : International Energy Agency-Energy prices and taxes Second quarter 1993

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

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

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

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

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

(1) Monopoly Price (2) Air India Contract Price. $: Australian cents per litre.
@ : 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 1992

(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	6.3	11.4	0.4	8.2	5.0	1.1	1.4	8.4	45.6
Canada	51.9	-	0.2	0.7	-	0.4	0.4	-	0.2	-	53.8
Latin America	131.4	5.2	-	33.8	0.1	4.4	5.4	-	-	-	180.3
OECD Europe	23.3	16.4	1.0	-	5.4	3.0	0.1	-	12.4	7.4	69.0
Middle East	88.3	5.1	23.5	197.4	28.5	189.2	185.3	9.2	17.1	-	743.6
North Africa	9.5	0.7	-	113.6	5.7	2.3	0.7	-	4.9	-	137.4
West Africa	56.9	2.7	3.5	57.0	-	0.9	0.4	-	-	-	121.4
East & Southern Africa	-	-	-	-	-	-	-	-	-	-	-
South Asia	-	-	-	0.1	-	0.4	0.8	-	0.2	-	1.5
Other Asia	5.2	0.1	0.5	1.4	0.8	4.4	46.1	4.8	11.6	0.6	75.5
Japan	-	-	0.1	-	-	4.7	-	-	0.9	0.1	5.8
Australasia	0.9	-	-	0.2	-	4.2	4.2	-	0.4	1.4	11.3
Ex-USSR	0.9	0.1	0.1	78.8	0.2	5.2	0.5	-	23.3	-	109.1
Other Non-OECD Europe	-	-	-	4.1	-	-	-	-	0.1	-	4.2
China	4.4	-	0.2	-	-	10.7	13.4	0.1	-	-	28.8
Unidentified *	15.5	0.1	9.0	9.3	0.3	9.7	-	3.4	0.8	-	48.1
TOTAL IMPORTS	**388.2**	**33.8**	**44.4**	**507.8**	**41.4**	**247.7**	**262.3**	**18.6**	**73.3**	**17.9**	**1635.4**

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

@ Excluding China and Japan

Source: B.P. Statistical Review of World Energy June, 1993

WORLD PRIMARY ENERGY CONSUMPTION BY FUEL* - 1992

(Million Tonnes Oil Equivalent)

Country/Area	Oil	Natural Gas	Coal	Nuclear Energy	Hydro-Electric	Total
1.	2.	3.	4.	5.	6.	7.
USA	781.0	512.2	476.7	167.5	23.4	1960.8
Canada	76.4	58.9	25.2	21.0	27.1	208.6
Total North America	**857.4**	**571.1**	**501.9**	**188.5**	**50.5**	**2169.4**
Argentina	19.6	17.7	1.0	1.8	1.7	41.8
Brazil	59.7	4.5	10.5	0.5	19.5	94.8
Mexico	73.3	26.3	3.3	1.0	1.9	105.7
Venezuela	19.6	19.5	0.3	-	3.5	42.9
Other Latin America	69.8	9.9	6.3	-	7.0	93.0
Total Latin America	**242.0**	**77.9**	**21.4**	**3.3**	**33.6**	**378.2**
Austria	11.3	5.4	3.4	-	3.2	23.3
Belgium & Luxembourg	26.9	9.2	10.4	10.6	+	57.0
Denmark	10.5	2.0	6.7	-	+	19.1
Finland	10.4	2.5	2.7	4.7	1.3	21.6
France	94.4	28.4	18.1	87.6	5.2	233.7
Germany	134.3	56.4	102.1	41.0	1.4	335.1
Greece	16.0	0.2	8.0	-	0.3	24.4
Iceland	0.7	-	+	-	0.4	1.1
Republic of Ireland	4.6	1.6	2.2	-	0.1	8.4
Italy	94.2	41.2	13.6	-	3.9	152.9
Netherlands	36.1	33.5	7.2	1.0	-	77.9
Norway	8.7	-	0.4	-	8.3	17.4
Portugal	12.9	-	3.1	-	0.4	16.4
Spain	50.0	5.9	19.2	14.5	1.7	91.3
Sweden	16.5	0.6	2.2	15.7	6.2	41.2
Switzerland	13.1	1.6	0.2	5.7	2.9	23.6
Turkey	23.5	4.2	21.5	-	2.3	51.5
United Kingdom	82.4	52.7	59.2	16.7	0.5	211.5
Total OECD Europe	**646.5**	**245.4**	**280.2**	**197.5**	**38.1**	**1407.4**
Former Soviet Union	333.4	573.2	270.7	43.6	18.6	1239.5
of which : Russia	220.0	388.5	166.1	26.9	13.7	815.2
: Ukraine	34.5	88.2	59.3	12.9	0.8	195.8
: Others	78.9	96.5	45.3	3.7	4.0	228.5
Czechoslovakia	11.5	7.9	27.6	6.0	0.4	53.4
Hungary	8.3	7.8	4.4	3.6	+	24.2
Poland	14.1	8.0	74.9	-	0.1	97.1
Other Non-OECD Europe	24.2	28.1	36.9	5.2	4.0	98.3
Total Non-OECD Europe	**391.5**	**625.0**	**414.5**	**58.3**	**23.0**	**1512.5**
Total Middle East	**168.4**	**80.0**	**4.4**	**-**	**1.2**	**254.0**
Total Africa	**97.0**	**32.6**	**79.0**	**2.4**	**6.2**	**217.1**
Australia	31.1	15.3	39.9	-	1.3	87.7
China	128.1	13.6	527.1	0.1	11.5	680.4
India	62.0	14.4	111.5	1.7	5.9	195.5
Indonesia	35.1	8.5	4.5	-	0.7	48.8
Japan	258.8	50.4	77.9	56.7	7.2	451.0
Malaysia	14.0	9.5	1.6	-	0.4	25.5
New Zealand	5.2	4.2	0.8	-	2.1	12.4
Philippines	13.7	-	1.0	-	0.3	15.0
Singapore	21.0	-	-	-	-	21.0
South Korea	71.2	4.6	23.3	14.6	0.4	114.1
Taiwan	28.6	2.0	16.5	8.7	0.7	56.6
Thailand	23.7	7.4	4.8	-	0.3	36.2
Other Asia	33.1	19.1	53.9	0.1	5.2	111.4
Total Asia & Australasia	**725.6**	**149.0**	**862.8**	**81.9**	**36.0**	**1855.6**
TOTAL WORLD	**3128.4**	**1781.0**	**2164.2**	**531.9**	**188.6**	**7794.2**
Of which OECD	1799.0	886.4	900.7	442.7	99.2	4127.9
Of which LDCs	937.9	269.6	849.0	30.9	66.4	2153.8

*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, 1993.

ESTIMATED PER CAPITA PRIMARY ENERGY CONSUMPTION SOME INTERNATIONAL COMPARISONS (1992)

(Kgm. Oil Equivalent)

Country / Area	Oil	Natural Gas	Coal	Nuclear Energy	Hydro-electric	Total
1	2	3	4	5	6	7
USA	3091	2027	1886	663	92	7759
Canada	2798	2158	923	729	993	7641
Total North America	**3062**	**2040**	**1793**	**673**	**180**	**7748**
Austria	1449	692	436	—	410	2987
Belgium & Luxembourg	2690	920	1040	1060	+	5757
Denmark	2019	385	1288	—	+	3673
Finland	2080	500	540	940	260	4320
France	1656	498	318	1537	91	4100
Germany	1677	704	1275	512	17	4183
Greece	1553	19	777	—	29	2369
Iceland	2333	—	+	—	1333	3667
Republic of Ireland	1314	457	629	—	29	2400
Italy	1630	713	235	—	67	2645
Netherlands	2391	2219	477	66	—	5159
Norway	2023	—	93	—	1930	4046
Portugal	1303	—	313	—	40	1656
Spain	1282	151	492	372	44	2341
Sweden	1919	70	256	1825	721	4791
Switzerland	1926	235	29	838	426	3471
Turkey	410	73	375	—	84	899
United Kingdom	1430	915	1028	290	9	3672
Total OECD Europe	**1484**	**563**	**643**	**454**	**87**	**3231**
Ex-USSR	1154	1983	937	175	75	4972
Czechoslovakia	732	503	1758	382	25	3401
Hungary	806	757	427	350	+	2350
Poland	369	209	1961	—	3	2542
Others	401	466	612	86	66	1630
Total Non-OECD Europe	**947**	**1511**	**1002**	**141**	**56**	**3658**
Total Middle East	**1445**	**687**	**38**	**—**	**10**	**2180**
Australia	1798	884	2306	—	75	5069
China	111	12	45	+	10	592
India *	72	17	129	2	7	226
Indonesia	194	47	25	—	4	269
Japan	2089	407	629	458	58	3640
Malaysia	769	522	88	—	22	1401
New Zealand	1529	1235	235	—	618	3647
Phillippines	218	—	16	—	5	238
Singapore	7500	—	—	—	—	7500
Thailand	414	129	84	—	5	633
Others	215	49	159	30	12	465
Total Asia & Australasia	**246**	**51**	**292**	**28**	**12**	**625**
Total World	**556**	**316**	**384**	**94**	**33**	**1384**
Of which OECD	**2091**	**1030**	**1047**	**515**	**115**	**4799**

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

Source : (i) BP Statistical Review of World Energy June, 1993
(ii) World Development Report 1993 for population projections.

ESTIMATED PER CAPITA CONSUMPTION OF MAIN PETROLEUM PRODUCTS-SOME INTERNATIONAL COMPARISONS 1992

kg./per capita

Country/Area	Gasoline	Middle Distillates	Fuel	Other*	Total
1.	2.	3.	4.	5.	6.
U.S.A.	1308	906	234	642	3090
Canada	1026	828	282	666	2802
OECD Europe	381	603	255	246	1485
Japan	451	714	552	370	2088
Australasia	710	657	97	299	1763
India	4	42	11	11	68
OECD	692	716	289	395	2092

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

SOURCES: 1. BP Statistical Review of World Energy June, 1993.

2. World Development Report, 1993 for population.

NOTE : Figures for India Inserted.

TRENDS IN WORLD PRIMARY ENERGY CONSUMPTION

(Million Tonnes Oil Equivalent)

YEAR	Oil	Natural Gas	Coal	Hydro-Electricity	Nuclear Energy	Total
1.	2.	3.	4.	5.	6.	7.
1975	2720.9	1084.5	1715.3	353.4	86.1	5960.2
1976	2891.1	1145.7	1785.4	364.0	106.5	6292.7
1977	2984.2	1167.7	1830.0	373.3	132.1	6487.3
1978	3084.4	1213.3	1860.3	405.6	151.6	6715.2
1979	3141.7	1282.8	1967.9	424.4	155.9	6972.7
1980	3024.1	1296.4	1966.0	433.6	172.9	6893.0
1981	2918.3	1312.1	1959.1	443.2	203.2	6835.9
1982	2820.3	1308.9	2002.2	460.0	222.7	6814.1
1983	2797.3	1325.0	2039.2	482.0	248.0	6891.5
1984	2843.0	1426.5	2114.5	498.7	297.7	7180.4
1985	2826.5	1474.7	2209.6	510.2	350.9	7371.9
1986	2905.2	1487.4	2262.6	519.9	377.4	7552.5
1987	2948.4	1557.8	2341.9	534.3	406.3	7788.7
1988	3038.5	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	3141.6	1776.1	2164.5	190.8	535.0	7780.3
1992	3128.4	1781.0	2164.2	188.6	531.9	7794.2

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

P = Provisional.

PRIMARY ENERGY* CONSUMPTION IN SELECTED COUNTRIES/AREAS OF THE WORLD - 1982, 1985, 1988, 1989, 1990, 1991 and 1992

(Million Tonnes Oil eqvt.)

COUNTRY/AREA	1982	1985	1988	1989	1990	1991	1992(P)	% Change 1992 over 1991	% share of of total 1992
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
USA	1659.3	1743.2	1904.3	1928.0	1929.5	1925.2	**1960.8**	+1.8	25.2
Canada	177.1	178.9	200.8	211.2	202.2	205.6	**208.6**	+1.5	2.7
Total North America	**1836.4**	**1922.1**	**2105.1**	**2139.2**	**2131.7**	**2130.8**	**2169.4**	**+1.8**	**27.9**
Argentina	36.0	38.0	42.0	40.8	39.2	40.4	**41.8**	+3.3	0.5
Brazil	72.7	79.9	89.0	91.1	89.4	92.3	**94.8**	+2.7	1.2
Mexico	91.2	90.4	91.2	96.2	102.5	105.0	**105.7**	+0.7	1.4
Venezuela	36.2	34.7	39.0	38.4	39.4	40.8	**42.9**	+4.9	0.5
Other Latin America	75.2	77.8	86.2	91.6	90.3	93.6	**93.0**	-0.6	1.2
Total Latin America	**311.3**	**320.8**	**347.4**	**358.1**	**360.8**	**372.1**	**378.2**	**+1.6**	**4.9**
Austria	19.6	20.3	20.9	21.0	22.3	23.7	**23.3**	-1.6	0.3
Belgium & Luxembourg	46.0	48.1	51.8	53.1	55.1	56.8	**57.0**	+0.5	0.7
Denmark	16.7	18.4	18.0	16.5	16.8	19.3	**19.1**	-0.7	0.2
Finland	19.1	20.6	21.8	21.7	21.9	22.4	**21.6**	-3.7	0.3
France	177.3	192.7	203.0	214.1	219.9	232.2	**233.7**	+0.7	3.0
Germany	329.2	354.5	356.6	348.9	351.6	342.2	**335.1**	-2.1	4.3
Greece	16.2	18.4	21.4	23.2	24.1	23.9	**24.4**	+2.0	0.3
Iceland	0.9	0.9	1.0	1.0	1.0	1.0	**1.1**	+7.0	+
Republic of Ireland	6.9	6.8	7.3	7.8	8.1	8.3	**8.4**	+2.2	0.1
Italy	133.2	132.2	144.5	148.4	151.3	153.0	**152.9**	+0.0	2.0
Netherlands	67.7	69.7	74.3	74.4	76.4	79.2	**77.9**	-1.7	1.0
Norway	16.2	17.3	17.7	17.6	17.8	17.4	**17.4**	-0.1	0.2
Portugal	10.7	10.5	12.0	14.3	14.7	15.3	**16.4**	+7.1	0.2
Spain	71.9	72.9	78.7	86.9	89.1	90.6	**91.3**	+0.8	1.2
Sweden	36.9	41.9	41.8	40.7	42.2	43.0	**41.2**	-4.2	0.5
Switzerland	19.2	22.2	22.6	21.6	22.8	23.1	**23.6**	+1.9	0.3
Turkey	25.6	28.6	47.4	49.6	49.5	50.1	**51.5**	+2.8	0.7
United Kingdom	192.9	201.3	206.9	208.2	209.7	214.2	**211.5**	-1.3	2.7
Total OECD Europe	**1206.2**	**1277.3**	**1347.7**	**1369.0**	**1394.3**	**1415.7**	**1407.4**	**-0.6**	**18.1**
Former Soviet Union	1177.7	1289.5	1374.3	1368.6	1397.7	1340.2	**1239.5**	-7.5	15.9
of which: Russia	n/a	804.3	862.2	866.5	867.0	842.4	**815.2**	-3.2	10.5
Ukraine	n/a	237.2	243.5	234.1	266.9	239.5	**195.8**	-18.3	2.5
Others	n/a	248.0	268.5	268.0	263.8	258.3	**228.5**	-11.5	2.9
Czechoslovakia	70.4	73.7	76.0	74.7	66.5	61.4	**53.4**	-13.0	0.7
Hungary	27.0	29.6	29.6	28.9	27.2	26.2	**24.2**	-7.8	0.3
Poland	112.9	122.2	126.7	121.9	100.9	98.3	**97.1**	-1.2	1.2
Other Non-OECD Europe	143.0	143.2	149.7	150.9	141.5	113.2	**98.3**	-13.1	1.3
Total Non-OECD Europe	**1531.0**	**1658.2**	**1756.2**	**1745.0**	**1733.8**	**1639.3**	**1512.5**	**-7.7**	**19.4**
Total Middle East	**156.2**	**193.7**	**217.9**	**230.7**	**241.4**	**238.9**	**254.0**	**+6.3**	**3.3**
Total Africa	**181.2**	**189.9**	**206.8**	**208.3**	**215.7**	**214.7**	**217.1**	**+1.1**	**2.8**
Australia	72.3	76.1	81.5	86.4	89.0	84.9	**87.7**	+3.2	1.1
China	422.3	526.5	600.6	640.2	650.6	646.1	**680.4**	+5.3	8.7
India **	105.9	128.8	160.5	171.2	179.0	185.5	**195.5**	+5.4	2.5
Indonesia	25.7	28.5	34.0	37.9	42.9	45.1	**48.8**	+8.3	0.6
Japan	328.0	360.7	392.7	408.0	428.1	443.2	**451.0**	+1.8	5.8
Malaysia	10.0	12.4	16.3	19.2	21.5	23.8	**25.5**	+7.3	0.3
New Zealand	8.2	9.7	11.7	11.8	12.1	12.2	**12.4**	+1.0	0.2
Philippines	10.3	9.0	11.3	12.3	12.9	13.3	**15.0**	+12.8	0.2
Singapore	10.7	11.8	16.5	18.9	19.5	19.9	**21.0**	+5.7	0.3
South Korea	40.9	51.2	72.9	79.1	89.6	101.7	**114.1**	+12.2	1.5
Taiwan	23.0	32.0	42.3	44.0	49.4	53.4	**56.6**	+6.1	0.7
Thailand	12.1	15.5	22.2	25.0	29.2	32.9	**36.2**	+10.2	0.5
Other Asia	76.4	83.4	96.1	99.5	104.5	106.8	**111.4**	+4.3	1.4
Total Asia & Australasia	**1145.8**	**1345.6**	**1558.6**	**1653.5**	**1728.3**	**1768.8**	**1855.6**	**+4.9**	**23.8**
TOTAL WORLD	**6368.1**	**6907.6**	**7539.7**	**7703.8**	**7806.0**	**7780.3**	**7794.2**	**+0.2**	**100.0**
of which: OECD	3451.1	3645.9	3938.7	4014.4	4055.2	4086.8	**4127.9**	+1.0	53.1
LDCs	1386.0	1603.5	1844.8	1944.4	2017.0	2054.2	**2153.8**	**+4.8**	27.7

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

\+ Less than 0.05 Source: B.P. Statistical Review of World Energy June, 1993

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

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

(Million b/d of oil equivalent)

COUNTRY	1970		1980		1995	
	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 1992

Country	Mid-Year Population 1992 (Million)	GNP 1992 (Bn.$)	Per capita GNP 1992($)	Oil exports 1992 (Bn.$)	Total exports FOB (Bn.$)	Oil exports as % of total exports	Oil reserves 1.1.92 (Bn.bbls)	Gas reserves 1.1.92 (Bn.CM)	Producing oil wells (Dec.91)	Refining capacity 1.1.92 (000/bbls/day)	Exports* of products (000 bbls/day
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
Algeria	26.31	47.58	1809	8.17	12.11	67.5	9.20	3650	1198	474.5	419.1*
Ecuador	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Gabon	1.25	5.20	4160	1.71	2.08	82.2	2.41	106	385	20.0	5.4
Indonesia	186.47	127.19	682	6.20	30.44	20.4	10.79	3180	7326	782.8	302.0*
I.R.Iran	59.46	123.89	2083	15.70	17.37	90.4	92.86	20700	730	946.0	77.0*
Iraq	20.24	-	-	0.33	0.35	94.3	100.00	3100	NA	550.0	-
Kuwait	2.34	21.71	9295	6.22	6.72	92.6	96.50	1485	350	670.0	256.0*
Libya	4.88	29.24	5991	9.20	9.69	94.9	22.80	1299	1135	342.0	170.0*
Nigeria	122.16	26.33	216	11.69	12.18	96.0	20.00	3400	1701	400.5	30.0*
Qatar	0.42	6.83	16465	3.20	3.37	95.0	4.50	7079	268	63.0	103.8
Saudi Arabia	15.78	110.98	7031	47.56	50.76	93.7	261.20	5249	1410	1750.0	1277.1
U.A.E.	1.67	37.65	22543	14.49	21.09	68.7	98.10	5795	1336	192.5	173.0*
Venezuela	20.27	61.14	3016	11.78	13.89	84.8	63.33	3693	13396	1224.0	617.9
TOTAL OPEC	461.24	597.74	1296	136.25	183.10	74.4	781.69	58736	29466+	7415.3	3424.3

+ Total includes figures for Saudi Arabian - Kuwaiti Divided Zone.
* provisional or estimated figures, as of July 13, 1993
NR = Not reported
- = Not available
Source : OPEC Annual Bulletin 1992.

PART II

PLAN STATISTICS

PART II

PLAN STATISTICS

ACTUAL EXPENDITURE FOR SEVENTH PLAN, 1990-91, 1991-92 AND BUDGET/ REVISED ESTIMATES FOR 1992-93 AND BUDGET ESTIMATES FOR 1993-94 FOR MINISTRY OF PETROLEUM & NATURAL GAS

(Rs. Crores)

Undertaking	7th Plan Expenditure	Actual Expenditure		1992-93		1993-94 (BE)
	1985-90	1990-91	1991-92	(BE)	(RE)	
1	2	3	4	5	6	7
A. EXPLORATION & PRODUCTION						
1. ONGC	11603	2738	2340	4420	6200	8610
2. OIL	829	205	243	222	268	280
3. GAIL	1801	126	139	152	285	425
4. Ministry of Petroleum & Natural Gas	171	-	-	-	-	-
SUBTOTAL (A)	**14404**	**3069**	**2722**	**4794**	**6753**	**9315**
B. REFINING & MARKETING						
1. IOC	641	293	386	799	649	1380
2. HPCL	393	92	91	147	158	124
3. BPCL	390	56	52	69	70	120
4. MRL	76	33	48	118	254	190
5. CRL	66	33	16	45	94	184
6. BRPL	Neg.	Neg.	8	56	71	91
7. Lubrizol India Ltd.	25	13	8	6	6	19
8. Engineers India Ltd.	21	1	1	5	5	2
9. IBP Co. Ltd.	1	2	8	15	99	99
SUBTOTAL (B)	**1613**	**523**	**618**	**1260**	**1406**	**2209**
C. PETROCHEMICALS						
1. BRPL	121	-	8	13	6	17
2. BPCL	13	Neg.	Neg.	14	1	12
3. CRL	83	Neg.	2	2	14	15
4. IOC	6	2	8	13	16	20
5. HPCL	2	3	11	10	11	1
6. MRL	25	1	1	70	81	60
7. GAIL	2	10	8	Neg.	131	425
SUBTOTAL (C)	**252**	**16**	**38**	**122**	**260**	**550**
D. ENGINEERING						
1. IBP. Co. Ltd. & Others	58	16	18	32	38	40
GRAND TOTAL (A+B+C+D)	**16327**	**3624**	**3396**	**6208**	**8457**	**12114**

Neg : Negligible.

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)

	Unit	ONGC	OIL	TOTAL
(1)	(2)	(3)	(4)	(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	UNIT	1989-90 (Actual)	1991-92 (Actual)	1992-93 (Actual)	1996-97 (Target)
(1)	(2)	(3)	(4)	(5)	(6)
1. PRODUCTION OF CRUDE OIL					
(i) ON SHORE	(Million Tonnes)	12.37	11.38	11.20	17.83
(ii) OFF-SHORE	(Million Tonnes)	21.72	18.96	15.75	29.25
TOTAL	(Million Tonnes)	34.09	30.34	26.95	47.08
2. PRODN. OF NATURAL GAS					
(i) ON-SHORE	(Bn.Cubic Metres)	3.90	4.25	4.71	9.04
(ii) OFF-SHORE	(Bn.Cubic Metres)	13.09	14.39	13.35	21.14
(iii) TOTAL	-do-	16.99	18.64	18.06	30.18
3. REFINING					
(i) REFINING CAPACITY (At year end)	(Million tonnes)	51.85	51.85	51.85	73.55
(ii) REFINERY CRUDE THROUGHPUT	(Million tonnes)	51.94	51.42	53.48	65.12
(iii) REFINERY PRODUCTION	(Million tonnes)	48.69	48.35	50.36	61.20
4. NET IMPORTS (QTY.)					
(i) CRUDE OIL	(Million tonnes)	19.49	23.99	29.25	NA
(ii) PETROLEUM PRODUCTS	(Million tonnes)	3.97	6.51	7.56	NA
TOTAL	(Million tonnes)	23.46	30.50	36.81	NA
Value of Crude oil & Petroleum Products.	(Rs./Crores)	5649	11824	15439	NA
5. Demand of Petroleum Products	(Million tonnes)	54.10	56.97	59.21	79.37
6. LPG					
(i) Production	(Million tonnes)	1.95	2.49	2.62	2.06*
(ii) Number of Customers of year end	(Million)	16.20	18.14	19.21	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	1992 -93	1996 -97	2001 -02
Demand for Petroleum Products (MMT)	38.80	54.10	55.04	56.97	59.21	79.37	102.51
Annual Growth Rate over the five years ending in the year (%)	5.4	6.9	6.1	5.5	5.0	6.9	5.2
Share of Middle Distillates (%)	57.8	60.0	60.2	60.4	61.5	57.7	57.8

Source: VIIIth Five Year Plan Document.

IMPORT AVAILABILITY RATIOS OF CRUDE OIL & PETROLEUM PRODUCTS 1979-80 TO 1992-93

(Million tonnes)

	1979 -80	1984 -85	1989 -90	1990 -91	1991 -92	1992 -93
A. CRUDE OIL						
i) Production	11.77	28.99	34.09	33.02	30.34	26.95
ii) Imports	16.12	7.16	19.49	20.70	23.99	29.25
iii) Availability (Net)	27.89	36.15	53.58	53.72	54.33	56.20
iv) Item (2) as % of Item (3)	57.80	19.81	36.38	38.53	44.16	52.05
B. PETROLEUM PRODUCTS						
i) Production	25.79	33.24	48.69	48.57	48.35	50.36
ii) Imports	4.72	6.09	6.56	8.66	9.45	11.28
iii) Availability (Gross)	30.51	39.33	55.25	57.23	57.80	61.64
iv) Item (2) as % of Item (3)	15.47	15.48	11.87	15.13	16.35	18.30

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
Annual Plan (1990-91)	9775
Annual Plan (1991-92)	11824

*- Net of POL Imports.

PART III

FINANCIAL PERFORMANCE / STRUCTURE & QUICK REVIEW

FINANCIAL REVIEW/STRUCTURE OF THE PUBLIC/JOINT SECTOR UNDERTAKINGS UNDER THE PURVIEW OF MINISTRY OF PETROLEUM & NATURAL GAS 1991-92 AND QUICK FINANCIAL REVIEW 1992-93

FINANCIAL STRUCTURE/REVIEW 1991-92

The financial structure of the Public Sector Undertakings for three years upto 1991-92 is given in the attached statements. The glossary of the terms used is given at the end. The Public Sector Undertakings have been divided into four categories viz., (A) Oil Exploration and Production (B) Refining and Marketing (C) Petrochemicals and (D) Engineering Units. In the review that follows, overall financial position of all undertakings has been given followed by an analysis of the consolidated position under each of the above mentioned categories.

OVER ALL FINANCIAL POSITION

(Rs./Crores)

Particulars		1989-90	1990-91	1991-92
1.	Paid up capital			
	(a) Ordinary	1890.16	1899.53	1899.52
	(b) Preference	0.50	0.00	0.00
	Total paid up capital	**1890.66**	**1899.53**	**1899.52**
2.	Reserves and Surplus	15299.76	17424.45	18960.38
3.	Loans	13654.94	16428.45	16453.09
4.	Net Worth	16550.63	18546.65	18139.99
5.	Capital Employed	15964.58	19755.12	21323.68
5.1.	Net Fixed Assets	10777.14	12573.92	13834.44
5.2.	Working Capital	5187.44	7181.20	7489.24
6.1	Sales Turnover	42325.05	46049.83	48422.64
6.2.	Other Income	534.91	1068.98	1175.25
	Total	**42859.96**	**47118.81**	**49597.89**
7.	Adjusted gross profit	3995.34	2376.20	3139.07
8.	Net profit	2903.09	2312.53	1811.56
9.	Dividend Paid	156.85	171.40	200.50
10.	Corporate Tax	764.48	544.34	743.03

CAPITAL INVESTMENT

The Capital investment defined as the sum total of paid up capital and loans has registered a marginal increase of 0.1% from Rs.18327.98 crores in 1990-91 to Rs.18352.61 crores in 1991-92. The increase in the capital investment in 1991-92 was on account of increase in loans from Rs.16428.45 crores to Rs.16453 crores. There was, however, no change in the paid up capital of the companies during the year under review and remained at the last years level of Rs.1899.52 crores. The position of changes in borrowings is as under :-

LOANS

(Rs./Crores)

	Names of the undertaking	1990-91	1991-92	% increase/ decrease
1.	Oil & Natural Gas Commission	6730.53	9711.32	44.3
2.	Oil India Limited	308.89	447.26	44.8
3.	Gas Authority of India Ltd.	840.93	937.40	11.5
4.	Indian Oil Corporation Ltd.	7127.69	3626.82	(-) 49.1
5.	Bharat Petroleum Corpn. Ltd.	343.92	322.99	(-) 6.1
6.	Madras Refineries Ltd.	233.74	400.70	71.4
7.	Hindustan Petroleum Corpn. Ltd.	432.78	476.56	10.1
8.	IBP Co. Ltd.	64.72	138.29	113.7
9.	Cochin Refineries Ltd.	123.70	143.50	16.0
10.	Indian Oil Blending Ltd.	9.55	6.87	(-) 28.1
11.	Lubrizol India Ltd.	27.91	28.74	3.0
12.	Bongaigaon Refineries & Petrochemicals Ltd.	35.79	48.90	36.6
13.	Balmer Lawrie Ltd.	70.82	98.15	38.6
14.	Engineers India Ltd.	3.50	2.75	(-) 21.4
15.	Biecco Lawrie Ltd.	50.22	54.37	8.3
16.	ONGC - V	23.75	8.47	(-) 64.3

The position of the foreign loans during three years 1989-90, 1990-91 and 1991-92 is given below :-

(Rs./Crores)

		1989-90	1990-91	1991-92
(a)	Foreign Loans	10333.69	13256.88	12128.58
(b)	Total Loans	13654.94	16428.45	16453.09
(c)	% of Foreign Loans to Total Loans	76.0	80.7	73.7

IOC and ONGC together accounts for 94.8% of total foreign loans outstanding on 31.3.92.

The total loans/net worth ratio of all undertakings together increased from 0.89 in 1990-91 to 0.91 in 1991-92.

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 7.9% from Rs.197555.12 crores in 1990-91 to Rs.21323.68 crores in 1991-92. The details of changes in Capital employed is given below :-

(A) NET FIXED ASSETS

(Rs./Crores)

	Name of the Undertakings	1990-91	1991-92	% increases/ decrease
1.	Oil & Natural Gas Commission	7713.35	8222.79	6.6
2.	Oil India Limited	200.40	294.63	47.0
3.	Gas Authority of India Limited	1436.01	1504.13	4.7
4.	Indian Oil Corporation Limited	1091.23	1348.93	23.6
5.	Bharat Petroleum Corporation Limited	636.92	788.85	23.9
6.	Hindustan Petroleum Corporation Limited	677.98	785.80	15.9
7.	Madras Refineries Limited	184.27	237.55	28.9
8.	IBP Company Limited	50.25	65.06	29.5
9.	Lubrizol India Limited	27.19	45.99	69.1
10.	Indian Oil Blending Limited	14.18	14.44	1.8
11.	B.R.P.L.	221.11	192.95	(-) 12.7
12.	Engineers India Limited	38.27	37.26	(-) 2.6
13.	Balmer Lawrie Limited	22.59	34.06	50.8
14.	Biecco Lawrie Limited	0.76	0.74	(-) 2.6
15.	Cochin Refineries	259.27	261.14	0.7

(B) WORKING CAPITAL

		1990-91	1991-92	% increases/ decrease
1.	Oil & Natural Gas Commission	3517.33	4749.26	35.0
2.	Oil India Limited	447.91	406.62	(-) 9.2
3.	Indian Oil Corporation Limited	2440.76	1312.54	(-) 46.2
4.	Gas Authority of India Limited	(-) 96.60	(-) 25.62	73.5
5.	Bharat Petroleum Corporation Limited	82.23	58.31	(-) 29.1
6.	Cochin Refineries Limited	87.75	129.50	47.6
7.	Madras Refineries Limited	164.75	216.36	31.3
8.	Hindustan Petroleum Corporation Limited	208.51	184.84	(-) 11.4
9.	Lubrizol India Limited	36.25	36.83	1.6
10.	IBP Company Limited	23.21	70.43	203.4
11.	Indian Oil Blending Limited	2.14	2.61	22.0
12.	B.R.P.L.	131.19	170.52	30.0
13.	Engineers India Limited	54.59	80.0	46.5
14.	Balmer Lawrie Limited	67.64	83.86	24.0
15.	ONGC Videsh Limited	11.11	9.04	(-) 18.6
16.	Biecco Lawrie	2.42	4.14	71.1

SALES TURNOVER

The sales turnover of all the Undertakings clubbed together increased by 5.2% from Rs.46049.83 crores in 1990-91 to Rs.48422.64 crores in 1991-92. The company-wise share of sales turnover showing the amount is as under :-

(Rs./Crores)

		1990-91	1991-92	% Share
1.	IOC	19529.68	20720.87	42.8
2.	ONGC	8477.42	8098.99	16.7
3.	HPCL	6283.13	6862.65	14.2
4.	BPCL	5283.06	5698.44	11.8
5.	MRL	1647.88	1612.67	3.3
6.	CRL	1488.64	1486.14	3.0
7.	GAIL	791.01	1046.85	2.2
8.	IBP Co.	903.83	1034.12	2.1
9.	OIL	663.03	634.03	1.3
10.	BRPL	414.62	466.21	1.0
11.	Others	567.53	761.67	1.6
	Total	**46049.83**	**48422.64**	100.0

PROFITABILITY

The adjusted gross profit which stood at Rs.2376.20 crores during 1990-91 increased to Rs.3139.07 crores in 1991-92. The adjusted gross profit expressed as a percentage of sales turnover went up from 5.16% in 1990-91 to 6.5% in 1991-92. The return on capital employed increased from 12.03% to 14.7%. The net profits, however, declined from Rs.2312.53 crores in 1990-91 to Rs.1811.56 crores in 1991-92. The net profit expressed as a percentage of paid-up Capital went down from 121.7% in 1990-91 to 95.4% in 1991-92 while that of net profits to net worth went down from 12.47% to 10.0%.

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.171.40 crores in 1990-91 to Rs.200.50 crores in 1991-92. The highest amount of dividend was paid by Oil & Natural Gas Commission which paid Rs.61.71 crores in 1991-92. The Indian Oil Corporation Limited paid a dividend of Rs, 40.68 crores in 1991-92. Biecco Lawrie Limited, ONGC's Videsh Limited 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.743.03 crores in 1991-92 as against Rs.544.34 crores in 1990-91.

(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 positions is provided in Table No.4.

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

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

(Rs./Crores)

		1989-90	1990-91	1991-92
1.	Paid up Capital	1241.17	1246.17	1246.17
2.	Loans	6857.07	7904.11	11104.45
3.	Net Worth	11503.07	12432.46	10893.78
4.	Capital Employed	10598.75	13229.65	15160.97
4.1.	Net Fixed Assets	7848.16	9349.90	10021.67
4.2.	Working Capital	2750.59	3879.75	5139.30
5.	Sales Turnover	9372.06	9931.46	9779.87
6.	Adjusted Gross Profit	2595.28	967.01	1641.66
7.	Net Profit.	1738.73	1140.97	546.48
8.	Dividends	59.06	66.19	66.19
9.	Corporate Tax	433.60	102.76	134.79

The salient points of analysis are given as under :-

1. **CAPITAL INVESTMENT :**

There has been an increase of 35% in the Capital investment from Rs.9150.28 crores in 1990-91 to Rs.12350.62 crores in 1991-92. The increase in the capital investment was on account of increases in the loans of the undertakings noted below :-

(Rs./Crores)

		1990-91	1991-92	% increase/ decrease
1.	Oil & Natural Gas Commission	6730.53	9711.32	44.3
2.	Gas Authority of India	840.93	937.40	11.5
3.	Oil India Limited	308.89	447.26	44.8
4.	ONGC-V	23.75	8.47	(-) 64.3

2. CAPITAL EMPLOYED :

The capital employed registered an increase of 14.6% from Rs.13229.65 crores in 1990-91 to Rs.15160.97 crores in 1991-92. 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)

		1990-91	1991-92	% increase
1.	ONGC	7713.35	8222.79	6.6
2.	Oil India Limited	200.40	294.63	47.0
3.	Gas Authority of India Limited	1436.01	1504.13	4.7
4.	ONGC Videsh Limited	0.14	0.12	(-) 14.3

(B) WORKING CAPITAL

1.	Oil & Natural Gas Commission	3517.33	4749.26	35.0
2.	Oil India Limited	447.91	406.62	(-) 9.2
3.	Oil & Natural Gas Commission - Videsh	11.11	9.04	(-) 18.6
4.	Gas Authority of India Limited	(-) 96.60	(-) 25.62	73.5

3. SALES TURNOVER :

The sales turnover under this category went down from Rs.9931.46 crores in 1990-91 to Rs.9779.87 crores in 1991-92 showing a decrease of 1.5%. The sales of Oil & Natural Gas Commission went down from Rs.8477.42 crores in 1990-91 to Rs.8098.99 crores in 1991-92 and that of Oil India Limited decreased from Rs.663.03 to Rs.634.03 crores in the same period. However, there was an increase in the Sales Turnover of Gas Authority of India, from Rs.791.01 crores to Rs.1046.85 crores in the same period.

4. PROFITABILITY :

The adjusted gross profit increased by 69.8% from Rs.767.01 crores in 1990-91 to Rs.1641.66 crores in 1991-92. The gross profits expressed as a %age of sales turnover decreased from 13.6% in 1990-91 to 7.7% in 1991-92. The ratio gross profit to capital employed declined from 10.2% to 5.0%. The ratios of net profit to paid up capital and net worth were 43.9% and 5.0% in 1991-92 against 91.6% and 9.2% respectively in 1990-91.

5. DIVIDEND :

ONGC and OIL have been paying dividend continuously. During 1991-92 the dividend was Rs.66.19 crores which was same as that paid during 1990-91.

6. CORPORATE TAX :

The contribution made by ONGC, OIL and ONG-Videsh by way of taxes to the national exchequer has increased from Rs.102.76 crores in 1990-91 to Rs.134.79 crores in 1991-92.

(B) REFINING AND MARKETING

Financial structure and performance of the individual undertakings have been provided in the Table Nos.10 to 17, which 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)

		1989-90	1990-91	1991-92
1.	Paid up Capital	438.01	437.54	437.54
2.	Loans	6644.61	8364.01	5144.47
3.	Net Worth	4658.86	5676.19	6753.44
4.	Capital Employed	4869.71	5986.89	5559.18
4.1.	Net Fixed Assets	2621.02	2941.29	3547.76
4.2.	Working Capital	2248.69	3045.60	2011.42
5.1.	Sales Turnover	32258.10	35355.03	37729.22
5.2.	Other Income	433.49	966.38	1001.41
	Total	**32691.59**	**36321.41**	**38730.63**
6.	Adjusted Gross Profit	1343.65	1342.77	1400.71
7.	Net Profit	1131.58	1109.25	1196.16
8.	Dividends	88.54	92.10	120.19
9.	Corporate Tax	310.95	430.83	566.78

An analysis of the salient features is given below :

1. **CAPITAL INVESTMENT :**

During the year the capital investment decreased by 36.6% from Rs.8801.55 in 1990-91 to Rs.5582.01 crores in 1991-92. The decrease in 1991-92 was due to decrease in loans in respect of the following undertakings.

LOANS

(Rs./Crores)

		1990-91	1991-92	% decrease
1.	Indian Oil Corporation Limited	7127.69	3626.82	49.1
2.	Bharat Petroleum Corporation Limited	343.92	322.99	6.1
3.	Indian Oil Blending Limited	9.55	6.87	28.1

With the decrease in the loans in 1991-92 the total loans/networth ratio has improved from 1.47 in 1990-91 to 0.76 in 1991.92.

2. **CAPITAL EMPLOYED :**

The capital employed in the Refining and Marketing category decreased by 7.1% from Rs.5986.89 crores in 1990-91 to Rs.5559.18 crores in 1991-92. This was due to steep fall in working capital from Rs.3045.60 crores in 1990-91 to Rs.2011.42 crores in 1991-92 though Net Fixed Assets recorded an increase of 20.6% during the period.

3. **SALES TURNOVER :**

The sales turnover of the companies under this category has increased by 6.7% from Rs.35355.03 crores in 1990-91 to Rs.37729.22 crores in 1991-92. The details of sales turnover in respect of major companies under this category are as under :-

(Rs./Crores)

		1990-91	1991-92
1.	IOC	19529.68	20720.87
2.	BPCL	5283.06	5698.44
3.	HPCL	6283.13	6862.65
4.	CRL	1488.64	1486.14
5.	MRL	1647.88	1612.67
6.	IBP	903.83	1034.12

4. **PROFITABILITY :**

The %age of adjusted gross profit to sales turnover was 3.7% during 1991-92 as against 3.8% in 1990-91.

The adjusted gross profits and net profits were Rs.1400.71 crores and Rs.1196.16 crores in 1991-92 against Rs.1342.77 crores and 1109.25 crores respectively in 1990-91. The return on capital employed which was 22.43% increased 25.2%. The ratio of net profit to paid-up capital and net worth were 273.4% and 17.7% in 1991-92 against 253.5% and 19.5% respectively in 1990-91.

5. **DIVIDEND :**

During 1991-92, the companies under Refining and marketing paid out Rs.120.19 crores as dividend as against Rs.92.10 crores in 1990-91. The amount paid in 1989-90 was Rs.88.54 crores. IOC paid out the highest amount of dividend amounting to Rs.40.68 crores followed by MRL amounting to Rs.23.97 crores.

6. **CORPORATE TAX :**

The taxes paid by this group of companies was Rs.566.78 crores in 1991-92 against Rs.430.83 crores in 1990-91.

(C) PETROCHEMICAL

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

(Rs./Crores)

		1989-90	1990-91	1991-92
1.	Paid-up Capital	199.82	199.82	199.82
2.	Loans	48.97	35.79	48.90
3.	Net Worth	297.12	336.02	362.13
4.	Capital Employed	332.97	352.30	363.47
4.1.	Net Fixed Assets	247.34	221.11	192.95
4.2.	Working Capital	85.63	131.19	170.52
5.	Sales Turnover	402.84	414.62	466.21
6.	Adjusted Gross Profit	43.99	47.00	57.12
7.	Net Profit	28.92	48.50	35.78
8.	Dividend Paid	7.99	9.99	9.99
9.	Corporate Tax	6.00	—	29.20

As analysis of the salient features is as under :-

1. CAPITAL INVESTMENT :

The capital investment increased by 5.6% from Rs.235.61 crores in 1990-91 to Rs.248.72 crores in 1991-92. This is due to increase in loans from Rs.35.79 crores in 1990-91 to Rs.48.90 crores in 1991-92. With the increase in loans, the loans/networth ratio increased from 0.11 in 1990-91 to 0.14 in 1991-92.

2. CAPITAL EMPLOYED :

The capital employed increased by 3.2% from Rs.352.30 crores in 1990-91 to Rs.363.47 crores in 1991-92. The increase in capital employed was due to increase in the working capital of the undertaking as compared to those in 1990-91.

3. SALES TURNOVER :

The Sales turnover increased by 12.4% from Rs.414.62 crores in 1990-91 to Rs.466.21 crores in 1991-92.

4. PROFITABILITY :

The %age of adjusted gross profits to sales turnover stood at 12.3% in 1991-92 as against 11.3% in 1990-91. The return on capital employed increased from 13.3% to 15.7% in the same period. The ratio of Net Profit to paid-up Capital and net worth decreased from 24.3% and 14.4% in 1990-91 to 18% and 9.9% respectively in 1991-92.

CORPORATE TAX

The company paid a corporate tax of Rs.29.20 crores in 1991-92 as against no payment made in 1990-91.

(D) ENGINEERING UNITS

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

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

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

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

(Rs./Crores)

		1989-90	1990-91	1991-92
1.	Paid-up Capital	11.66	16.00	16.00
2.	Loans	104.29	124.54	155.27
3.	Net Worth	91.58	101.98	130.64
4.	Capital Employed	163.15	186.28	240.06
4.1.	Net Fixed Assets	60.62	61.62	72.06
4.2.	Working Capital	102.53	124.66	168.00
5.	Sales Turnover	292.05	348.72	447.34
6.	Adjusted Gross Profit	12.42	19.42	39.58
7.	Net Profit	3.79	13.81	32.94
8.	Dividend	1.26	3.12	4.13
9.	Corporate Tax	13.93	10.75	12.26

An analysis of the saliet features is as under :-

1. **CAPITAL INVESTMENT :**

The Capital Investment under his category increased by 21.9% from Rs.140.54 crores in 1990-91 to Rs.171.27 crores in 1991-92. The increase in the capital investment was due to increase in the borrowings of the under noted companies.

LOANS

(Rs./Crores)

Sl.No.	Name of the Company	1990-91	1991-92	%age increase
1.	Balmer Lawrie Company Limited	70.82	98.15	38.6
2.	Biecco Lawrie Limited	50.22	54.37	8.3
3.	Engineers India Limited	. 3.50	2.5	(-) 28.6

Inspite of the increase in loans, the total loans/net worth ratio slightly improved from 1.22 in 1990-91 to 1.18 in 1991-92.

2. **CAPITAL EMPLOYED :**

The capital employed by the engineering units increased by 28.9% from Rs.186.28 crores in 1990-91 to Rs.240.06 crores in 1991-92. The corresponding increase in the preceding year was 14.2%. The net fixed assets and working capital of the companies under this category was as under :-

(A) NET FIXED ASSETS

(Rs./Crores)

		1989-90	1990-91	1991-92	% + Increase - Decrease
1.	Engineers India Limited	39.65	38.27	37.26	(-) 2.6
2.	Balmer Lawrie Limited	20.21	22.59	34.06	50.8
3.	Biecco Lawrie Limited	0.76	0.76	0.74	(-) 2.6
	TOTAL	**60.62**	**61.62**	**72.06**	**16.9**

(B) WORKING CAPITAL

1.	Engineers India Limited	44.80	54.59	80.00	46.55
2.	Balmer Lawrie Limited	54.76	67.64	83.86	24.0
3.	Biecco Lawrie Limited	2.97	2.42	4.14	71.1
	TOTAL	**102.53**	**124.65**	**168.00**	**34.8**

3. SALES TURNOVER :

The Sales Turnover of the undertakings in this category increased by 28.3% from Rs.348.72 crores in 1990-91 to Rs.447.34 crores in 1991-92. The corresponding increase in the preceding year was 19.4%. The ratio of adjusted gross profit to sales turnover increased from 5.6% in 1990-91 to 8.8% in 1991-92.

4. PROFITABILITY :

The adjusted gross profits have increased from Rs.19.42 crores in 1990-91 to Rs.39.58 crores in 1991-92. The ratio of net profit to paid up capital increased from 86.3% in 1990-91 to 205.9% in 1991-92. The ratio of net Profit to net worth increased from 13.5% to 25.2% during the same period.

5. DIVIDEND :

The Companies under this category paid a dividend of Rs.4.13 crores in 1991-92 against Rs.3.12 crores paid during previous year.

6. CORPORATE TAX :

The contribution made by the companies to National Exchequer by way of taxes was Rs.12.26 crores in 1991-92 as against Rs.10.75 crores paid during the previous year.

QUICK REVIEW OF FINANCIAL STRUCTURE 1992-93

In 1992-93, there were 16 enterprises (including two subsidiaries viz. ONGC's Videsh Limited and Indian Oil Blending Limited) under the department of Petroleum and Natural Gas, Four under "Exploration and Production", Eight under "Refining and Marketing", One Under "Petrochemicals" and Three under "Engineering Services". According to provisional figures available in E & S division, the 16 enterprise together employed a total capital of Rs.25439.50 crores and had a paid-up capital of Rs.1910.12 crores as per enterprise-wise details in Annexure-I. During 1992-93 these enterprises achieved an annual Sales turnover of Rs.56406.62 crores and earned a gross profit of Rs.3291.48 crores. Corresponding figures for the year 1991-92 being rs.48422.64 and Rs.2734.50 crores. Thus the sales turnover increased by 16.5% and the gross profit by 20.4%. The net profit after interest and taxes amounted to Rs.2376.92 crores during 1992-93 as against Rs.1811.56 crores in 1991-92. The ratio of net profit to paid-up capital and net worth worked out to 124.4% and 11.3% in 1992-93 as against 95.4% and 10% respectively in 1991-92.

The over all financial position/results for the year 1992-93 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	447.13	199.82	17.00	1910.12
2. Loans	10839.32	8296.11	47.59	197.06	19380.08
3. Net Worth	12591.13	7873.10	381.18	167.48	21012.89
4. Capital Employed	15028.62	9788.75	339.99	282.14	25439.50
5. Sales turnover	12219.23	43072.93	534.01	580.45	56406.62
6. Gross profit before Interest & Tax	1148.67	2027.49	41.35	73.97	3291.48
7. Net profit after Interest & Tax	1041.37	1263.77	29.01	42.77	2376.92
8. Corporate Tax	6.77	645.10	29.01	28.17	709.05
9. Dividend	86.19	142.88	9.99	5.39	244.45
% age of					
1. Net profit to paid-up Capital	83.6	282.6	14.5	251.6	124.4
2. Net profit to net worth	8.3	16.1	7.6	25.5	11.3
3. Gross Profit to Capital Employed	7.6	20.7	12.2	26.2	12.9

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. 920.70 crores followed by ONGC with a gross profit of Rs. 822.89 crores. However, ONGC earned the highest net profit of Rs. 788.20 crores followed by IOC with Rs. 676.99 Crores and HPCL with Rs. 227.14 Crores.

FINANCIAL STRUCTURE/PROFITABILITY OF THE PUBLIC/JOINT SECTOR UNDERTAKINGS UNDER THE PURVIEW OF MINISTRY OF PETROLEUM & NATURAL GAS DURING 1992-93

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	<---------- Percentages ----------> 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**	**1083932**	**1259113**	**1502862**	**1221923**	**114867**	**104137**	**677**	**8619**	**83.6**	**8.3**	**7.6**
1. ONGC	34285	939108	1077656	1240881	868908	82289	78820	0	6171	229.9	7.3	6.6
2. ONGC Videsh Ltd.	3000	841	9924	1795	--	540	486	54	--	16.2	4.9	30.1
3. OIL	2800	48719	66425	88572	74661	6069	3778	619	448	134.9	5.7	6.9
4. GAIL	84532	95264	105108	171614	278354	25969	21053	4	2000	24.9	20.0	15.1
B. REFINING & MARKETING	**44713**	**829611**	**787310**	**978875**	**4307293**	**202749**	**126377**	**64510**	**14288**	**282.6**	**16.1**	**20.7**
5. IOC	12327	621661	495047	629749	2428968	92070	67699	25800	4930	549.2	13.7	14.6
6. BPCL	5000	32558	95104	91328	599443	32156	17007	12200	1650	340.1	17.9	35.2
7. HPCL	6384	61306	110297	125919	780605	42486	22714	15661	2554	355.8	20.6	33.7
8. CRL	6893	17205	36396	36068	181154	15540	8712	6650	1654	126.4	23.9	43.1
9. MRL	11413	69952	32494	64062	162713	12166	7094	2068	2853	62.2	21.8	19.0
10. IBP Co. Ltd.	736	23398	9525	20769	117377	4447	1283	584	199	174.3	13.5	21.4
11. Lubrizol	1920	3023	6905	9061	35009	3154	1512	1237	442	78.8	21.9	34.8
12. IOBL	40	508	1542	1919	2024	730	356	310	6	890.0	23.1	38.0
C. PETROCHEMICALS	**19982**	**4759**	**38118**	**33999**	**53401**	**4135**	**2901**	**2901**	**999**	**14.5**	**7.6**	**12.2**
13. BRPL	19982	4759	38118	33999	53401	4135	2901	2901	999	14.5	7.6	12.2
D. ENGINEERING UNITS	**1700**	**19706**	**16748**	**28214**	**58045**	**7397**	**4277**	**2817**	**539**	**251.6**	**25.5**	**26.2**
14. EIL	200	200	14159	14327	14953	3936	2935	2417	200	1467.5	20.7	27.5
15. Balmer Lawrie	1303	13797	7444	13125	41058	3380	1321	400	339	101.4	17.7	25.8
16. Biecco Lawrie	197	5709	- 4855	762	2034	81	21	--	--	10.7	- 0.4	10.6
TOTAL (A+B+C+D)	**191012**	**1938008**	**2101289**	**2543950**	**5640662**	**329148**	**237692**	**70905**	**24445**	**124.4**	**11.3**	**12.9**

Source : Annual reports of the companies and data supplied by them.

CONSOLIDATED FINANCIAL STRUCTURE 1991-92
ALL CATEGORIES

TABLE NO. 1

	ITEM	Exploration & Production	Refining & Marketing	Petro-Chemicals	Engineering	Total
1.	Authorised Capital	110000	55460	20000	1950	187410
2.	i) Paid-up Capital	124617	43753	19982	1600	189952
	ii) Preference Capital					
	iii) Reserves & Surpluses	1231269	632003	16244	16522	1896038
3.	i) Total loans	1110445	514447	4890	15527	1645309
	ii) of which foreign	913798	298882	178	—	1212858
4.	Cash credits/advances from banks/others	20893	40006	1658	4038	66595
5.	Net worth	1089378	675344	36213	13064	1813999
6.	i) Gross Block	2111278	771527	40842	11313	2934960
	ii) Less Depreciation	1109111	416751	21547	4109	1551518
	iii) Net fixed assets	1002167	354776	19295	7206	1383444
	iv) Working Capital	513930	201142	17052	16800	748924
	v) Capital Empl. (iii+iv)	1516097	555918	36347	24006	2132368
7.	i) Sales	977987	3772922	46621	44734	4842264
	ii) Other income i.e. intt. earned	13811	100141	1235	2338	117525
	TOTAL	991798	3873063	47856	47072	4959789
8.	i) Total emoluments (incl.perks)	56267	51868	1508	6751	116394
	ii) of which bonus	2282	3504	24	107	5917
	iii) Average Emol. per person	0.73	0.63	0.82	0.72	0.68
9.	Inventories	170316	430392	11312	5326	617346
10.	Gross Profit					
	a) Gross Profit before Intt. & Tax	75770	186962	5825	4893	273450
	b) Adjusted Gross Profit	164166	140071	5712	3958	313907
11.	Net Profit					
	a) Net Profit after Intt. & Taxes	54648	119616	3598	3294	181156
	b) Adjusted Net Profit	141843	71929	3485	2359	219616
12.	Dividends declared	6619	12019	999	413	20050
13.	Corporate Tax	13479	56678	2920	1226	74303
	% age of					
	a) NP to paid-up capital	43.9	273.4	18	205.9	95.4
	Adj. NP to paid-up capital	113.8	164.4	17.4	147.4	115.6
	b) NP to Net Worth	5.0	17.7	9.9	25.2	10.0
	Adj. NP to Net Worth	13.0	10.7	9.6	18.1	12.1
	c) GP to capital emp.	5.0	33.6	16	20.4	12.8
	Adj. GP to capital emp.	10.8	25.2	15.7	16.5	14.7
	d) Sales to Capital Employed	64.5	678.7	128.3	186.3	227.1
	e) GP to Sales	7.7	5.0	12.5	10.9	5.6
	Adj. GP to Sales	16.8	3.7	12.3	8.8	6.5
	f) Total Loans / Net Worth Ratio	1.02	0.76	0.14	1.19	0.91

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

CONSOLIDATED FINANCIAL STRUCTURE 1990-91
ALL CATEGORIES

TABLE NO. 2

	ITEM	Exploration & Production	Refining & Marketing	Petro-Chemicals	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					
	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 Empl. (iii+iv)	1322965	598689	35230	18628	1975512
7.	i) Sales	993146	3535503	41462	34872	4604983
	ii) Other income i.e. intt. earned	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
	% 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) Total Loans/Net Worth Ratio	0.64	1.47	0.11	1.22	0.89

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

TABLE NO. 3

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) Total Loans/Net Worth Ratio	0.60	1.43	0.16	1.14	0.83

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. 4

CONSOLIDATED FINANCIAL STRUCTURE OF EXPLORATION & PRODUCTION

(Rs./Lakhs)

ITEM	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	108000	110000	110000
2. i) Paid-up Capital	124117	124617	124617
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluses	1085012	1191026	1231269
3. i) Total Loans	685707	790411	1110445
ii) Of which Foreign	514991	613544	913798
4. Cash Credits/Advances from Banks/Others	6527	4847	20893
5. Net Worth	1150307	1243246	1089378
i) Gross	1577325	1900261	2111278
ii) Less Depreciation	792509	965271	1109111
iii) Net Fixed Assets	784816	934990	1002167
iv) Working Capital	275059	387975	513930
v) Capital Empl. (iii+iv)	1059875	1322965	1516097
7. i) Sales	937206	993146	977987
ii) Other Income	8592	8035	13811
Total	945798	1001181	991798
8. i) Total Emoluments (incl. perks)	41619	432220	56267
ii) Of which Bonus	1866	1932	2282
iii) Average Emoluments per person p.a.	0.73	0.69	0.73
9. Inventories	139031	155193	170316
10. Gross Profit			
a) Gross Profit before Interest & Tax (Actual)	233605	135143	75770
b) Adjusted Gross Profit	259528	96701	164166
11. Net Profit			
a) Net profit after Tax & Interest (Actual)	173873	114097	54648
b) Adjusted Net Profit	199796	79371	141843
12. Dividends Declared	5906	6619	6619
13. Corporate Tax	43360	10276	13479
% age of:			
a) N.P./Adjusted NP to paidup Capital	140.1/161.0	91.56/63.69	43.9/113.8
b) N.P./Adjusted N.P.to Net Worth	15.1/17.4	9.18/6.38	5.0/13.0
c) GP/Adjusted GP to Capital Emp.	22.0/24.5	10.22/7.31	5.0/10.8
d) Sales to Capital Emp.	88.4	75.07	64.5
e) G.P./Adjusted GP to Sales	24.9/27.7	13.61/9.74	7.7/16.8
f) Total Loans/Net Worth Ratio	0.60	0.64	1.02

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	1989-90	1990-91	1991-92
(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	1020955	1120423	1155125
3. i) Total Loans	577280	673053	971132
ii) Of which Foreign	481354	576694	854730
4. Cash Credits/Advances from Banks/Others	6527	39	20441
5. Net Worth	1016639	1105213	950663
6. i) Gross Block	1344351	1622882	1796181
ii) Less Depreciation	701765	851547	973902
iii) Net Fixed Assets	642586	771335	822279
iv) Working Capital	251258	351733	474926
v) Capital Empl. (iii+iv)	893844	1123068	1297205
7. i) Sales	807809	847742	809899
ii) Other Income	5464	248	2685
Total	813273	847990	812584
8. i) Total Emoluments (incl. perks)	36229	426554	48664
ii) Of which Bonus	1865	1930	1936
iii) Average Emoluments per person p.a.	0.77	0.88	1.00
9. Inventories	121666	135474	145140
10. a) Gross Profit before interest & Tax	211788	109971	51231
b) Adjusted Gross Profit	241986	79617	144044
11. a) Net Profit after Interest & Tax	162384	104830	40832
b) Adjusted Net Profit After Interest & Tax	192582	74476	131871
12. Dividends Declared	5486	6171	6171
13. Corporate Tax.	39700	5141	12173
% age of:			
a) N.P./Adjusted NP to paid-up Capital	473.6/561.7	305.8/217.2	119.1/384.6
b) N.P./Adjusted N.P. to Net Worth	16.0/18.9	9.49/6.7	4.3/13.9
c) GP/Adjusted GP to Capital Emp.	23.7/27.1	9.79/7.1	3.9/11.1
d) Sales to Capital Emp.	90.4	75.5	62.4
e) G.P./Adjusted GP to Sales	26.2/30.0	13.0/9.4	6.3/17.8
f) Total Loans/Net Worth Ratio	0.57	0.61	1.02

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	3000	5000	5000
2. i) Paid-up Capital	2500	3000	3000
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	3735	3918	3733
3. i) Total Loans	-NIL-	2375	847
ii) Of which Foreign	-NIL-	-NIL-	-NIL-
4. Cash Credits/Advances from Banks/Others	-NIL-	-NIL-	-NIL-
5. Net Worth	5274	3306	2599
6. i) Gross Block	17	18	18
ii) Less Depreciation	3	4	6
iii) Net Fixed Assets	14	14	12
iv) Working Capital	2291	1111	904
v) Capital Empl. (iii+iv	2305	1125	916
7. i) Sales	--	--	--
ii) Other Income i.e.int.earned	538	543	451
Total	538	543	451
8. i) Total Emoluments (incl. perks)	24	31	28
ii) Of which Bonus	1	2	1
iii) Average Emoluments	0.89	0.72	1.21
9. Inventories	-NIL-	481	780
10. Gross Profit			
a) Gross Profit before Interest & Tax	447	454	389
b) Adjusted Gross Profit	447	454	0
11. Net Profit			
a) Net Profit after Tax & Interest	297	183	- 184
b) Adjusted net Profit	297	266	0
12. Dividends Declared	-NIL-	-NIL-	-NIL-
13. Corporate Tax.	150	266	570
% age of:			
a) N.P./Adjusted NP to paidup Capital	11.9	6.1/8.9	-6.1/0.0
b) N.P./Adjusted N.P. to Net Worth	5.6	5.5/8.1	-7.1/0.0
c) GP/Adjusted GP to Capital Emp.	19.4	40.4/40.4	42.5/0.0
d) Sales to Capital Emp.	--	0.00	0.0
e) G.P./Adjusted GP to Sales	--	NIL	0.0
f) Total Loans/Net Worth Ratio	--	0.72	0.33

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	5000	5000	5000
2. i) Paid-up Capital	2800	2800	2800
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	60322	66685	70881
3. i) Total Loans	22047	30889	44726
ii) Of which Foreign	16251	17157	30224
4. Cash Credits/Advances from Banks/Others	--	4808	452
5. Net Worth	53976	58028	50054
6. i) Gross Block	75467	83389	93018
ii) Less Depreciation	57632	63349	63555
iii) Net Fixed Assets	17835	20040	29463
iv) Working Capital	36476	44791	40662
v) Capital Empl. (iii+iv)	44311	64831	70125
7. i) Sales	64343	66303	63403
ii) Others Income	2268	6119	4864
Total	66611	72422	68267
8. i) Total Emoluments (incl. perks)	4912	4979	6543
ii) Of which Bonus	--	--	345
iii) Average Emoluments per person p.a.	0.55	0.55	0.72
9. Inventories	11751	14736	17314
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	14105	15313	6813
b) Adjusted Gross Profit	10268	8097	4712
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	8698	6811	4645
b) Adjusted Net Profit	4861	3228	2544
12. Dividends Declared	420	448	448
13. Corporate Tax.	3510	4869	736
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	310.6/173.6	243.25/115.29	165.9/90.9
b) N.P./Adjusted N.P.to Net Worth	16.1/9.0	11.74/5.56	9.3/5.1
c) GP/Adjusted GP to Capital Emp.	31.8/23.2	23.62/12.49	9.7/6.7
d) Sales to Capital Emp.	145.2	102.27	90.4
e) G.P./Adjusted GP to Sales	21.9/16.0	23.10/12.21	10.7/7.4
f) Total Loans/Net Worth Ratio	0.41	0.53	0.89

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	100000	100000	100000
2. i) Paid-up Capital	84532	84532	84532
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	--	--	1530
3. i) Total Loans	86380	84093	93740
ii) Of which Foreign	17386	19693	28844
4. Cash Credits/Advances from Banks/Others	--	--	--
5. Net Worth	74418	76699	86062
6. i) Gross Block	157490	193972	222061
ii) Less Depreciation	33109	50371	71648
iii) Net Fixed Assets	124381	143601	150413
iv) Working Capital	-4966	-9660	-2562
v) Capital Empl. (iii+iv)	119415	133941	147851
7. i) Sales	65054	79101	104685
ii) Others Income	322	1125	5811
Total	65376	80226	110496
8. i) Total Emoluments (incl. perks)	454	656	1032
ii) Of which Bonus	--	--	--
iii) Average Emoluments per person p.a.	0.48	0.61	0.72
9. Inventories	5614	4502	7082
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	7265	9405	17337
b) Adjusted Gross Profit	6827	8533	15410
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	2494	2273	9355
b) Adjusted Net Profit	2056	1401	7428
12. Dividends Declared	--	--	--
13. Corporate Tax.	--	--	--
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	3.0/2.4	2.69/1.66	11.1/8.8
b) N.P./Adjusted N.P.to Net Worth	3.4/2.8	2.96/1.83	10.9/8.6
c) GP/Adjusted GP to Capital Emp.	6.1/5.8	7.02/6.37	11.7/10.4
d) Sales to Capital Emp.	54.5	59.06	70.8
e) G.P./Adjusted GP to Sales	11.2/10.5	11.89/10.79	16.6/14.7
f) Total Loans/Net Worth Ratio	1.16	1.10	1.09

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	54540	54540	55460
2. i) Paid-up Capital	43751	43754	43753
ii) Preference Capital	50	0	0
iii) Reserve & Surpluses	422605	524326	632003
3. i) Total Loans	664461	836401	514447
ii) Of which Foreign	518073	711916	298882
4. Cash Credits/Advances from Banks/Others	61927	30096	40006
5. Net Worth	465886	567619	675344
6. i) Gross Block	599550	677735	771527
ii) Less Depreciation	337448	383607	416751
iii) Net Fixed Assets	262102	294129	354776
iv) Working Capital	224869	304560	201142
v) Capital Empl. (iii+iv)	486971	598689	555918
7. i) Sales	3225810	3535503	3772922
ii) Others Income	43349	96638	100141
Total	3269159	3632141	3873063
8. i) Total Emoluments (incl. perks)	37573	45783	51868
ii) Of which Bonus	3060	3340	3504
iii) Average Emoluments per person p.a.	0.63	0.64	0.63
9. Inventories	318544	412050	430392
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	192323	172406	186962
b) Adjusted Gross Profit	134365	134277	140071
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	113158	110925	119616
b) Adjusted Net Profit	55200	76510	71929
12. Dividends Declared	8854	9210	12019
13. Corporate Tax.	31095	43083	56678
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	258.6/126.2	253.52/174.86	273.4/164.4
b) N.P./Adjusted N.P.to Net Worth	24.3/11.8	19.54/13.48	17.7/10.7
c) GP/Adjusted GP to Capital Emp.	39.5/27.6	28.80/22.43	33.6/25.2
d) Sales to Capital Emp.	662.4	590.54	678.7
e) G.P./Adjusted GP to Sales	6.0/4.2	4.88/3.80	5.0/3.7
f) Total Loans/Net Worth Ratio	1.43	1.47	0.76

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	15000	15000	15000
2. i) Paid-up Capital	12327	12327	12327
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	275049	345341	419952
3. i) Total Loans	544114	712769	362682
ii) Of which Foreign	514227	707873	294990
4. Cash Credits/Advances from Banks/Others	28951	4166	16998
5. Net Worth	287376	357668	432278
6. i) Gross Block	281936	314999	348198
ii) Less Depreciation	185238	205876	213305
iii) Net Fixed Assets	96698	109123	134893
iv) Working Capital	159925	244076	131254
v) Capital Empl. (iii+iv)	256623	353199	266147
7. i) Sales	1747660	1952968	2072087
ii) Others Income	36904	87369	87600
Total	1784564	2040337	2159687
8. i) Total Emoluments (incl. perks)	21417	24462	27301
ii) Of which Bonus	1976	2253	2533
iii) Average Emoluments per person p.a.	0.64	0.74	0.82
9. Inventories	176746	225445	248933
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	121205	97295	107587
b) Adjusted Gross Profit	69375	67873	69055
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	67454	73004	78678
b) Adjusted Net Profit	15624	43582	39255
12. Dividends Declared	2465	2712	4068
13. Corporate Tax.	16528	17701	29800
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	547.2/126.7	592.23/353.55	638.3/318.4
b) N.P./Adjusted N.P.to Net Worth	23.5/5.4	20.41/12.2	18.2/9.1
c) GP/Adjusted GP to Capital Emp.	47.2/27.0	27.55/19.22	40.4/25.9
d) Sales to Capital Emp.	681.0	552.94	778.5
e) G.P./Adjusted GP to Sales	6.9/4.0	4.98/3.48	5.2/3.3
f) Total Loans/Net Worth Ratio	1.89	1.99	0.84

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	5000	5000	5000
2. i) Paid-up Capital	5000	5000	5000
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	49621	61401	74747
3. i) Total Loans	32149	34392	32299
ii) Of which Foreign	756	760	769
4. Cash Credits/Advances from Banks/Others	8573	11547	2725
5. Net Worth	54621	66401	79747
6. i) Gross Block	111873	126630	151763
ii) Less Depreciation	53726	62938	72878
iii) Net Fixed Assets	58147	63692	78885
iv) Working Capital	7618	8223	5831
v) Capital Empl. (iii+iv)	65765	71915	84716
7. i) Sales	488169	528306	569844
ii) Others Income	2386	3242	4112
Total	490555	531548	573956
8. i) Total Emoluments (incl. perks)	6274	7593	9546
ii) Of which Bonus	576	575	582
iii) Average Emoluments per person p.a.	0.60	0.69	0.86
9. Inventories	35977	50980	48802
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	19804	25277	29235
b) Adjusted Gross Profit	17929	23576	26976
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	12257	12781	14846
b) Adjusted Net Profit	10382	14742	12588
12. Dividends Declared	1000	1000	1500
13. Corporate Tax.	4400	8774	10700
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	245.1/207.6	255.61/294.84	296.9/251.8
b) N.P./Adjusted N.P.to Net Worth	22.4/19.0	19.25/22.20	18.6/15.8
c) GP/Adjusted GP to Capital Emp.	30.1/27.3	35.15/32.78	34.5/31.8
d) Sales to Capital Emp.	742.3	734.63	672.7
e) G.P./Adjusted GP to Sales	4.1/3.7	4.78	5.1/4.7
f) Total Loans/Net Worth Ratio	0.59	0.52	0.41

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	10000	10000	10000
2. i) Paid-up Capital	6384	6384	6384
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	61955	72691	83753
3. i) Total Loans	48930	43278	47656
ii) Of which Foreign	--	472	628
4. Cash Credits/Advances from Banks/Others	18160	10166	7803
5. Net Worth	68339	79075	90137
6. i) Gross Block	127319	142513	162698
ii) Less Depreciation	64140	74715	84118
iii) Net Fixed Assets	63179	67798	78580
iv) Working Capital	26472	20851	18484
v) Capital Empl. (iii+iv)	89651	88649	97064
7. i) Sales	604818	628313	686265
ii) Others Income	1957	3694	5079
Total	606775	632008	691344
8. i) Total Emoluments (incl. perks)	5952	9496	9385
ii) Of which Bonus	255	221	140
iii) Average Emoluments per person p.a.	0.62	0.95	0.89
9. Inventories	59091	69920	77233
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	29579	25423	25065
b) Adjusted Gross Profit	27917	21630	21853
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	20026	12014	12977
b) Adjusted Net Profit	18364	8221	9860
12. Dividends Declared	1277	1277	1915
13. Corporate Tax.	4714	8115	7597
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	313.7/287.7	188.19/128.78	203.3/154.4
b) N.P./Adjusted N.P.to Net Worth	29.3/26.9	15.19/10.40	14.4/10.9
c) GP/Adjusted GP to Capital Emp.	33.0/31.1	28.68/24.40	25.8/22.5
d) Sales to Capital Emp.	674.6	708.76	707.0
e) G.P./Adjusted GP to Sales	4.9/4.6	4.05/3.44	3.7/3.2
f) Total Loans/Net Worth Ratio	0.72	0.55	0.53

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	7500	7500	7500
2. i) Paid-up Capital	6891	6894	6893
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	13651	18288	22444
3. i) Total Loans	14256	12370	14350
ii) Of which Foreign	3090	2812	2495
4. Cash Credits/Advances from Banks/Others	2259	764	61
5. Net Worth	20542	25182	29338
6. i) Gross Block	31517	39469	42245
ii) Less Depreciation	11698	13542	16131
iii) Net Fixed Assets	19819	25927	26114
iv) Working Capital	10123	8775	12950
v) Capital Empl. (iii+iv)	29942	34702	39064
7. i) Sales	133707	148864	148614
ii) Others Income	69	120	84
Total	133776	148984	148698
8. i) Total Emoluments (incl. perks)	639	758	1062
ii) Of which Bonus	31	39	43
iii) Average Emoluments per person p.a.	0.56	0.68	0.84
9. Inventories	9611	13387	13428
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	8968	9945	10486
b) Adjusted Gross Profit	8475	8901	10508
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	6876	6084	5604
b) Adjusted Net Profit	6383	5040	5626
12. Dividends Declared	1441	1447	1448
13. Corporate Tax.	1350	3600	4200
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	99.8/92.6	88.25/73.11	81.3/81.6
b) N.P./Adjusted N.P.to Net Worth	33.5/31.1	24.16/20.01	19.1/19.2
c) GP/Adjusted GP to Capital Emp.	30.0/28.3	28.66/25.65	26.8/26/9
d) Sales to Capital Emp.	446.6	428.98	380.4
e) G.P./Adjusted GP to Sales	6.7/6.3	6.68/5.98	7.1/7.1
f) Total Loans/Net Worth Ratio	0.69	0.49	0.49

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	13500	13500	13500
2. i) Paid-up Capital	11413	11413	11413
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	12503	15162	17301
3. i) Total Loans	18913	23374	40070
ii) Of which Foreign	--	--	--
4. Cash Credits/Advances from Banks/Others	--	1124	6228
5. Net Worth	23396	26113	28313
6. i) Gross Block	37570	40708	49544
ii) Less Depreciation	19162	22281	25789
iii) Net Fixed Assets	18408	18427	23755
iv) Working Capital	15205	16475	21636
v) Capital Empl. (iii+iv)	33613	34902	45391
7. i) Sales	132298	164788	161267
ii) Others Income	1266	1041	1051
Total	133564	165829	162318
8. i) Total Emoluments (incl. perks)	1027	939	1480
ii) Of which Bonus	102	88	90
iii) Average Emoluments per person p.a.	0.79	0.68	1.04
9. Inventories	31348	43223	32384
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	10251	10787	8121
b) Adjusted Gross Profit	8982	9810	7727
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	5023	5055	4537
b) Adjusted Net Profit	3754	4078	4143
12. Dividends Declared	2396	2397	2397
13. Corporate Tax.	3469	4040	3000
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	44.0/32.9	44.29/35.73	39.8/36.3
b) N.P./Adjusted N.P.to Net Worth	21.5/16.0	19.36/15.62	16.0/14.6
c) GP/Adjusted GP to Capital Emp.	30.5/26.7	30.91/28.11	17.9/17.0
d) Sales to Capital Emp.	393.6	472.14	355.3
e) G.P./Adjusted GP to Sales	7.7/6.8	6.55/5.95	5.0/4.8
f) Total Loans/Net Worth Ratio	0.81	0.90	1.42

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	2500	2500	2500
2. i) Paid-up Capital	736	736	736
ii) Preference Capital	50	--	--
iii) Reserve & Surpluses	5836	6452	7713
3. i) Total Loans	3350	6472	13829
ii) Of which Foreign	--	--	--
4. Cash Credits/Advances from Banks/Others	3272	1474	5203
5. Net Worth	6622	7188	8438
6. i) Gross Block	5343	7084	8218
ii) Less Depreciation	1645	2059	1712
iii) Net Fixed Assets	3698	5025	6506
iv) Working Capital	2156	2321	7043
v) Capital Empl. (iii+iv)	5854	7346	13549
7. i) Sales	99553	90383	103412
ii) Others Income	532	962	1997
Total	100085	91345	105409
8. i) Total Emoluments (incl. perks)	1233	1559	1813
ii) Of which Bonus	73	152	116
iii) Average Emoluments per person p.a.	0.56	0.64	0.70
9. Inventories	2258	4227	5273
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	850	1386	3027
b) Adjusted Gross Profit	236	690	565
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	601	772	1426
b) Adjusted Net Profit	-13	76	-1036
12. Dividends Declared	113	162	177
13. Corporate Tax.	117	160	0
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	81.7/-1.8	104.89/10.33	193.6/-140.8
b) N.P./Adjusted N.P.to Net Worth	9.1/-0.2	10.74/1.06	16.9/-12.3
c) GP/Adjusted GP to Capital Emp.	14.5/4.0	18.87/9.39	22.3/4.2
d) Sales to Capital Emp.	1700.6	1230.37	763.2
e) G.P./Adjusted GP to Sales	0.9/0.2	1.53/0.76	2.9/0.5
f) Total Loans/Net Worth Ratio	0.51	0.90	1.64

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	1000	1000	1920
2. i) Paid-up Capital	960	960	960
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	3414	4059	4875
3. i) Total Loans	1887	2791	2874
ii) Of which Foreign	--	--	--
4. Cash Credits/Advances from Banks/Others	712	855	988
5. Net Worth	4374	5019	5835
6. i) Gross Block	3110	4283	6536
ii) Less Depreciation	1334	1564	1937
iii) Net Fixed Assets	1776	2719	4599
iv) Working Capital	3372	3625	3683
v) Capital Empl. (iii+iv)	5148	6344	8282
7. i) Sales	18684	20747	29315
ii) Others Income	170	145	182
Total	18854	20892	29497
8. i) Total Emoluments (incl. perks)	531	433	658
ii) Of which Bonus	12	12	0
iii) Average Emoluments per person p.a.	0.95	0.74	1.06
9. Inventories	3446	4796	4265
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	1452	1734	2598
b) Adjusted Gross Profit	1289	1594	2520
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	801	856	1258
b) Adjusted Net Profit	638	754	1179
12. Dividends Declared	158	211	442
13. Corporate Tax.	437	544	951
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	83.4/66.5	89.13/78.54	131.0/122.8
b) N.P./Adjusted N.P.to Net Worth	18.3/14.6	17.05/15.02	21.6/20.2
c) GP/Adjusted GP to Capital Emp.	28.2/25.0	27.34/25.13	31.4/30.4
d) Sales to Capital Emp.	362.9	327.03	354.0
e) G.P./Adjusted GP to Sales	7.8/6.9	8.36/7.68	8.9/8.6
f) Total Loans/Net Worth Ratio	0.43	0.56	0.49

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	40	40	40
2. i) Paid-up Capital	40	40	40
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	576	932	1218
3. i) Total Loans	862	955	687
ii) Of which Foreign	--	--	--
4. Cash Credits/Advances from Banks/Others	--	--	--
5. Net Worth	616	972	1258
6. i) Gross Block	882	2049	2325
ii) Less Depreciation	505	632	881
iii) Net Fixed Assets	377	1418	1444
iv) Working Capital	-2	214	261
v) Capital Empl. (iii+iv)	375	1632	1705
7. i) Sales	921	1134	2118
ii) Others Income	65	65	36
Total	986	1199	2154
8. i) Total Emoluments (incl. perks)	500	543	623
ii) Of which Bonus	35	--	--
iii) Average Emoluments per person p.a.	0.75	0.00	0.91
9. Inventories	67	72	74
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	214	559	843
b) Adjusted Gross Profit	162	203	867
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	120	360	290
b) Adjusted Net Profit	68	17	314
12. Dividends Declared	4	4	72
13. Corporate Tax.	80	149	430
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	300.0/170.0	900.00/42.50	725.0/785.0
b) N.P./Adjusted N.P.to Net Worth	19.5/11.0	37.04/1.75	23.1/25.0
c) GP/Adjusted GP to Capital Emp.	57.1/43.2	34.25/12.44	49.4/50.9
d) Sales to Capital Emp.	245.6	69.49	124.2
e) G.P./Adjusted GP to Sales	23.2/17.6	49.29/17.90	39.8/40.9
f) Total Loans/Net Worth Ratio	1.40	0.98	0.55

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	20000	20000	20000
2. i) Paid-up Capital	19982	19982	19982
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	9794	13645	16244
3. i) Total Loans	4897	3579	4890
ii) Of which Foreign	305	228	178
4. Cash Credits/Advances from Banks/Others	401	973	1658
5. Net Worth	29712	33602	36213
6. i) Gross Block	40121	40529	40842
ii) Less Depreciation	15387	18418	21547
iii) Net Fixed Assets	24734	22111	19295
iv) Working Capital	8563	13119	17052
v) Capital Empl. (iii+iv)	33297	35230	36347
7. i) Sales	40284	41462	46621
ii) Others Income	104	643	1235
Total	40388	42105	47856
8. i) Total Emoluments (incl. perks)	1102	1297	1508
ii) Of which Bonus	16	36	24
iii) Average Emoluments per person p.a.	0.61	0.73	0.82
9. Inventories	10632	10980	11312
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	4406	5316	5825
b) Adjusted Gross Profit	4399	4700	5712
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	2899	4850	3598
b) Adjusted Net Profit	2892	4234	3485
12. Dividends Declared	799	999	999
13. Corporate Tax.	600	0	2920
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	14.5/14.5	24.27/21.19	18/18.4
b) N.P./Adjusted N.P.to Net Worth	9.8/9.7	14.43/12.60	9.9/9.6
c) GP/Adjusted GP to Capital Emp.	13.2/13.2	15.09/13.34	16/15.7
d) Sales to Capital Emp.	121	117.69	128.3
e) G.P./Adjusted GP to Sales	10.9/10.9	12.82/11.34	12.5/12.3
f) Total Loans/Net Worth Ratio	0.16	0.11	0.14

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	1950	1950	1950
2. i) Paid-up Capital	1166	1600	1600
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	12565	13448	16522
3. i) Total Loans	10429	12454	15527
ii) Of which Foreign	--	--	--
4. Cash Credits/Advances from Banks/Others	2210	3638	4038
5. Net Worth	9158	10198	13064
6. i) Gross Block	9131	9744	11313
ii) Less Depreciation	3069	3580	4109
iii) Net Fixed Assets	6062	6162	7209
iv) Working Capital	10253	12466	16800
v) Capital Empl. (iii+iv)	16315	18628	24006
7. i) Sales	29205	34872	44734
ii) Others Income	1446	1582	2338
Total	30651	36454	47072
8. i) Total Emoluments (incl. perks)	5483	5590	6751
ii) Of which Bonus	132	120	107
iii) Average Emoluments per person p.a.	0.72	0.66	0.72
9. Inventories	3907	4148	5326
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	2663	3586	4893
b) Adjusted Gross Profit	1242	1942	3958
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	379	1381	3294
b) Adjusted Net Profit	-1041	93	2359
12. Dividends Declared	126	312	413
13. Corporate Tax.	1393	1075	1226
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	32.5/-89.3	86.34/5.81	205.9/147.4
b) N.P./Adjusted N.P.to Net Worth	4.1/-11.4	13.54/0.91	25.2/18.1
c) GP/Adjusted GP to Capital Emp.	16.3/7.6	19.25/10.43	20.4/16.5
d) Sales to Capital Emp.	179.0	187.20	186.3
e) G.P./Adjusted GP to Sales	9.1/4.3	10.28/5.57	10.9/8.8
f) Total Loans/Net Worth Ratio	1.14	1.22	1.19

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	200	200	200
2. i) Paid-up Capital	100	100	100
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	7925	8845	11358
3. i) Total Loans	426	350	275
ii) Of which Foreign	--	--	--
4. Cash Credits/Advances from Banks/Others	--	--	--
5. Net Worth	8025	8945	11458
6. i) Gross Block	5211	5374	5551
ii) Less Depreciation	1246	1546	1825
iii) Net Fixed Assets	3965	3827	3726
iv) Working Capital	4480	5459	8000
v) Capital Empl. (iii+iv)	8445	9286	11726
7. i) Sales	6216	8046	9870
ii) Others Income	754	594	1259
Total	6970	8640	11129
8. i) Total Emoluments (incl. perks)	3275	3418	3853
ii) Of which Bonus	29	20	3
iii) Average Emoluments per person p.a.	0.95	1.01	1.12
9. Inventories	101	105	119
10. Gross Profit			
a) Gross Profit before Tax & Intt. (Actual)	1632	1861	2580
b) Adjusted Gross Profit	895	1267	2226
11. Net Profit			
a) Net Profit after Tax & Intt. (actual)	331	933	2592
b) Adjusted Net Profit	-406	367	2238
12. Dividends Declared	25	25	100
13. Corporate Tax.	1260	900	826
% age of:			
a) N.P./Adjusted NP to Paid-up Capital	331.0/-406.0	933.00/367.00	2592.0/2238.0
b) N.P./Adjusted N.P.to Net Worth	4.0/-5.1	10.43/4.10	22.6/19.5
c) GP/Adjusted GP to Capital Emp.	19.3/10.6	20.04/13.64	22.0/19.0
d) Sales to Capital Emp.	73.6	86.65	84.2
e) G.P./Adjusted GP to Sales	26.3/14.4	23.13/15.75	26.1/22.6
f) Total Loans/Net Worth Ratio	0.05	0.04	0.02

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	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	1500	1500	1500
2. i) Paid-up Capital	869	1303	1303
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	4635	4598	5159
3. i) Total Loans	5221	7082	9815
ii) Of which Foreign	--	--	--
4. Cash Credits/Advances from Banks/Others	2140	3632	4013
5. Net Worth	5504	5901	6462
6. i) Gross Block	3596	4037	5424
ii) Less Depreciation	1575	1777	2019
iii) Net Fixed Assets	2021	2259	3406
iv) Working Capital	5476	6764	8386
v) Capital Empl. (iii+iv)	7497	9023	11792
7. i) Sales	22113	25843	33505
ii) Other Income	688	985	1075
Total	22801	26828	34580
8. i) Total Emoluments (incl. perks)	1767	1713	2384
ii) Of which Bonus	88	86	89
iii) Average Emoluments per person p.a.	0.58	0.53	0.72
9. Inventories	3533	3765	4906
10. Gross Profit			
a) Gross Profit after Interest & Tax (actual)	1241	1905	2390
b) Adjusted Gross Profit	543	860	1809
11. Net Profit			
a) Net Profit after Tax & Interest (actual)	287	685	873
b) Adjusted Net Profit	-410	-33	292
12. Dividends Declared	101	287	313
13. Corporate Tax.	125	175	400
% age of:-			
a) NP/Adj. NP to paidup Capital	33.0/-47.2	52.54/-2.53	67.0/22.4
b) N.P./Adjusted N.P. to Net Worth	5.2/-7.4	11.60/-0.56	13.5/4.5
c) GP/Adjusted GP to Capital Emp.	16.6/7.2	21.11/9.53	20.3/15.3
d) Sales to Capital Emp.	295.0	286.39	284.1
e) G.P./Adjusted GP to Sales	5.6/2.5	7.37/3.33	7.1/5.4
f) Total Loans/Net Worth Ratio	0.95	1.20	1.52

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 LTD.

(Rs./Lakhs)

ITEM	1989-90	1990-91	1991-92
(1)	(2)	(3)	(4)
1. Authorised Capital	250	250	250
2. i) Paid-up Capital	197	197	197
ii) Preference Capital	--	--	--
iii) Reserve & Surpluses	5	5	5
3. i) Total Loans	4782	5022	5437
ii) Of which Foreign	--	--	--
4. Cash Credits/Advances	70	6	25
5. Net Worth	(-)4371	(-)4648	(-)4856
6. i) Gross Block	324	333	338
ii) Less Depreciation	248	257	265
iii) Net Fixed Assets	76	76	74
iv) Working Capital	297	242	414
v) Capital Empl.(iii+iv)	373	318	488
7. i) Sales	876	983	1359
ii) Other Income	4	3	4
Total	880	986	1363
8. i) Total Emoluments (incl. perks)	441	459	514
ii) Of which Bonus	15	14	15
iii) Average Emoluments per person p.a.	0.41	0.43	0.48
9. Inventories	273	278	301
10. Gross Profit			
a) Gross Profit after Interest & Tax (actual)	(-)210	(-)180	(-)77
b) Adjusted Gross Profit	(-)196	(-)185	(-)77
11. Net Profit			
a) Net Profit after Tax & Interest (actual)	(-)239	(-)236	(-)171
b) Adjusted Net Profit	(-)225	(-)241	(-)171
12. Dividends Declared	--	--	--
13. Corporate Tax.	--	--	--
% age of:-			
a) NP/Adjusted NP to paidup Capital	-121.3/-114.2	-120.12/-122.50	-86.8/-86.8
b) N.P./Adjusted to N.P. Net Worth	5.5/5.1	5.08/5.19	3.5/3.5
c) GP/Adjusted GP to Capital Emp.	-56.3/-52.5	-56.48/-58.10	-15.8/-15.8
d) Sales to Capital Emp.	234.9	308.78	278.5
e) G.P./Adjusted GP to Sales	-24.0/-22.4	-18.29/-18.82	-5.7/-5.7
f) Total Loans/Net Worth Ratio	1.09	1.08	- 1.12

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 SECTOR UNDERTAKINGS UNDER THE PURVIEW OF MINISTRY OF PETROLEUM & NATURAL GAS AS ON 1.4.92 AND 1.4.93

(Rs./Crores)

Name of the Undertaking	1.4.92				1.4.93			
	Paid-Up Capital	Loans	Total	Govt. Share	Paid-Up Capital	Loans	Total	Govt. Share
1	2	3	4	5	6	7	8	9
A. EXPLORATION & PRODUCTION	**1246.2**	**11104.5**	**12350.7**	**2465.7**	**1246.2**	**10839.3**	**12085.5**	**2361.4**
1. ONGC	342.9	9711.3	10054.2	1331.8	342.9	9391.1	9734.0	1220.1
2. ONGC Videsh Limited	30.0	8.5	38.5	--	30.0	8.4	38.4	--
3. OIL	28.0	447.3	475.3	168.3	28.0	487.2	515.2	199.8
4. GAIL	845.3	937.4	1782.7	965.6	845.3	952.6	1797.9	941.5
B. REFINING & MARKETING	**437.5**	**5144.5**	**5582.0**	**567.5**	**447.1**	**8296.1**	**8743.3**	**509.9**
5. IOC	123.3	3626.8	3750.1	123.3	123.3	6216.6	6339.9	123.3
6. BPCL	50.0	323.0	373.0	107.1	50.0	325.6	375.6	91.2
7. HPCL	63.8	476.6	540.4	122.6	63.8	613.1	676.9	103.1
8. CRL	68.9	143.5	212.4	70.6	68.9	172.1	241.0	66.4
9. MRL	114.1	400.7	514.8	133.8	114.1	699.5	813.6	110.0
10. IBP Co. Ltd.	7.4	138.3	145.7	4.4	7.4	234.0	241.4	4.4
11. Lubrizol	9.6	28.7	38.3	5.8	19.2	30.2	49.4	11.5
12. IOB	0.4	6.9	7.3	--	0.4	5.1	5.5	--
C. PETROCHEMICALS	**199.8**	**48.9**	**248.7**	**199.8**	**199.8**	**47.6**	**247.4**	**149.1**
13. BRPL	199.8	48.9	248.7	199.8	199.8	47.6	247.4	149.1
D. ENGINEERING UNITS	**16.0**	**155.3**	**171.4**	**44.7**	**17.0**	**197.1**	**214.1**	**45.7**
14. EIL	1.0	2.8	3.8	1.0	2.0	2.0	4.0	2.0
15. Balmer Lawrie	13.0	98.2	111.2	--	13.0	138.0	151.0	--
16. Biecco Lawrie	2.0	54.4	56.4	43.7	2.0	57.1	59.1	43.7
GRAND TOTAL (A+B+C+D)	**1899.5**	**16453.1**	**18352.8**	**3277.8 (18%)**	**1910.1**	**19380.1**	**21290.3**	**3066.1 (14%)**

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 interest 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

ABBREVIATIONS

(I) COMPANIES/ORGANISATIONS

AOC	:	Assam Oil Company.
BPCL	:	Bharat Petroleum Corporation Limited.
BRPL	:	Bongaigaon Refinery & Petrochemicals Limited.
B/Shell/BSM	:	Burmah Shell Oil Storage & Distributing Co.Ltd.
BSR	:	Burmah Shell Refineries Limited.
Caltex/CIL	:	Caltex (India) Limited.
CORIL	:	Caltex Oil Refining (India) Limited.
CRL	:	Cochin Refineries Limited.
EIL	:	Engineers India Limited.
ESSO	:	Esso Standard Eastern Inc.
ESRC	:	Esso Standard Refining Company of India Limited.
GAIL	:	Gas Authority of India Ltd.
HPCL	:	Hindustan Petroleum Corporation Limited.
HIL	:	Hydrocarbons India Limited.
IBP CO. LTD.	:	IBP Co. Limited.
INDROL	:	INDROL Lubricants & Specialities Limited.
IIP	:	Indian Institute of Petroleum.
IPE	:	Institute of Petroleum Exploration.
IOBL	:	Indian Oil Blending Limited.
IOC	:	Indian Oil Corporation Limited.
LUBRIZOL	:	Lubrizol India Limited.
MRL	:	Madras Refineries Limited.
POCL	:	Petrosil Oil Company Limited.
OIL	:	Oil India Limited.
ONGC	:	Oil & Natural Gas Commission.
ONGCVL	:	ONGC Videsh Limited
OPEC	:	Organisation of Petroleum Exporting Countries.
TWOC	:	Tide Water Oil Company.
WIODC	:	Western India Oil Distributing Company Limited.
OECD	:	Organisation for Economic Co-operation & Development
NCW	:	Non Communist World

(II) PETROLEUM PRODUCTS

ATF	:	Aviation Turbine Fuel.
AVGAS	:	Aviation Gasoline/Spirit.
CBFS	:	Carbon Black Feed Stock.
HHS	:	Hot Heavy Stock.
HSDO	:	High Speed Diesel Oil.
JBO	:	Jute Batching Oil.
LDO	:	Light Diesel Oil.
LSHS	:	Low Sulphur Heavy Stock.
LPG	:	Liquified Petroleum Gas.
MS/Mogas	:	Motor Spirit/Motor Gasoline.
FO	:	Furnace Oil.
MTO	:	Mineral Turpentine Oil.
Pet-coke	:	Petroleum Coke.
SBP-Spirit	:	Special Boiling Point Spirit.
SKO	:	Superior Kerosene Oil.
TDO	:	Tea Drier Oil.
NGL	:	Natural Gas Liquid

LIGHT DISTILLATES: (including Gases): Gasolines, Naphtha, SBP Spirit, Solvent Oils,Hexane,Benzene,Toluene, L.P.G.,Refinery Gas and W.D. Mixtures.

MIDDLE DISTILLATES: Kerosene, ATF/Jet-A1, Vaporising Oil, Aromex/lomex, HSDO, LDO/MLO and JBO, Mineral Turpentine Oils, Chemisperse & LABFS.

(iii) PREFIXES USED IN METRIC TABLES

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

(IV) OTHERS

API	:	American Petroleum Institute.
AFRA	:	Average Freight Rate Assessment.
CIF	:	Cost, Insurance and Freight.
Crores	:	10 million/100 Lakhs.
DWT	:	Dead Weight Tonnage.
FOB	:	Free on Board.
GP	:	General Purpose (16, 500-24, 999 dwt).
LV	:	Low Viscosity.
HV	:	High Viscosity.
HVI	:	High Viscosity Index.
KL	:	Kilolitre
LR I	:	Large Range I (45,000-79, 999 dwt).
LR II	:	Large Range II (80,000-1, 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
Aviation Turbine	1288	0.7764	8.10
Naphtha	1467	0.6817	9.23
Power Alcohol	1286	0.7776	8.09
Benzol	1154	0.8666	7.26
SBP Spirit/Hexane	1457	0.6863	9.16
Mineral Turpentine (Laws 140/205)	1302	0.7680	8.19
Liquified Petroleum Gas	1785	0.5602	11.23
Superior Kerosene	1285	0.7782	8.08
Inferior Kerosene	1265	0.7905	7.96
Power Kerosene (Vap. Oil)	1251	0.7994	7.87
High Speed Diesel	1210	0.8263	7.61
Light Diesel Oil	1172	0.8532	7.37
Malarial Oil	1172	0.8532	7.37
Special Larvicides	1175	0.8511	7.39
Furnace Oil	1071	0.9337	6.74
Tea Drier Oil	1071	0.9337	6.74
Hot Heavy Stock/LSHS	1017	0.9833	6.40
Refinery Gas/Ref. Boiler Fuel	1071	0.9337	6.74
Lubricants/Greases	1114	0.8977	7.01
Jute Batching Oil/Wash Oils	1167	0.8569	7.34
Bitumen	1002	0.9980	6.30
SBP/Alcohol Mixture	1414	0.7072	8.89
Methanol Mixture	1106	0.9042	6.96
Carbon Black Feed Stock	1134	0.8818	7.13
Carburetter Testing Fluid	1388	0.7205	8.73
Benzene	1131	0.8812	7.05
Toluene	1148	0.8711	7.19
Demineralised Water	1002	0.9930	6.30
S. Glass Kleanzit	1003	0.9970	6.31
Miscellaneous	1114	0.8977	7.01
Wax/P.Coke/Chemicals	1114	0.8977	7.01
Aromex	1221	0.8190	7.68
Linear Alkyl Benzen Feed Stock	1205	0.8239	7.58

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
Aviation Spirit	1.3699	301.332	361.873	8.613
Natural Gasoline	1.3514	297.265	356.990	8.496
Motor Spirit	1.3514	297.265	356.990	8.496
Kerosene	1.2346	271.569	326.137	7.764
Jet Fuel	1.2346	271.569	326.137	7.764
Distillate Fuel Oil	1.1494	252.415	293.522	6.988
Lubricating Oil	1.1111	252.845	303.647	7.231
Fuel Oil N.O.S.	1.0939	241.727	290.301	6.911
Residuel Fuel Oils	1.0526	231.551	278.071	6.623
Asphalt and Bitumen	0.9615	211.515	254.013	6.050
Crude Oil	1.1856	260.910	313.340	7.441

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

Product	Conversion Factor
1. Aviation Spirit 100/130	0.9827
2. Aviation Spirit 114/145	0.9820
3. Aviation Spirit 73 Clear	0.9824
4. Aviation Turbine Fuel	0.9862
5. Motor Spirit 83	0.9830
6. Motor Spirit 93	0.9836
7. H.S.D.O.	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
Aviation gasolines	0.70-0.78	9.1-8.2
Motor gasolines	0.71-0.79	9.0-8.1
Kerosene	0.78-0.84	8.2-7.6
Gas Oils	0.82-0.90	7.8-7.1
Diesel Oils	0.82-0.92	7.8-6.9
Lubricating Oils	0.85-0.95	7.5-6.7
Fuel Oils	0.92-0.99	6.9-6.5
Asphaltic bitumens	1.00-1.10	6.4-5.8

CRUDE OIL CONVERSIONS@

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

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

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

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

AVERAGE INTERNATIONAL CALORIFIC VALUE OF DIFFERENT FUELS

		K cals/Kg. M cals/Tonne	BTUS/Kg.
1.		2.	3.
A.	**Oil Equivalence:**		
	Average Crude Oil/NGLS(a)	10,300	40,870
	United Nations	10,175	40,375
B.	**Oils Products**		
	NGL	12,135	48,150
	Motor Gasoline	11,135	44,190
	Kerosene	10,638	42,210
	Jet Fuel	11,790	46,790
	Gas Oil	10,790	42,820
	Fuel Oil	10,440	41,430
C.	**Coal Equvalence:**		
	Average Hard Coal(b)	7,000	27,775
D.	**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 specific 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 million tonnes of coal equivalent (mtce)	Unit million tonnes of coal replacement (mtcr)
1.	2.	3.	4.
Coal (coking 6640 K cal/kg., Non-coking coal Used in steam generation(5000 K cal/Kg.)	1mt	1.0	1.0
Hard Coke	1mt	1.3	1.3
Soft Coke	1mt	1.5	1.3
Firewood (4750 K cal/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.