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INDIAN
PETROLEUM & NATURAL GAS
STATISTICS

2000-01

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

GOVERNMENT OF INDIA
MINISTRY OF PETROLEUM & NATURAL GAS

FOREWORD

The Ministry of Petroleum & Natural Gas publishes every year the annual bulletin "Indian Petroleum & Natural Gas Statistics" containing comprehensive information on the Oil & Gas Sector, beginning from 1967 upto 1999-2000. The bulletin provides information both in terms of calendar year and the financial year, to cater to the requirements of the different users. It also sets out in brief the financial structure of the public sector undertakings under the purview of the Ministry and includes the control orders issued.

The present compilation providing data for the period 2000-01, represents the efforts of the Economics & Statistics Division of the Ministry.

We would welcome suggestions to restructure the report or improve its presentability.

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April 2002

MINISTRY OF PETROLEUM & NATURAL GAS
ECONOMICS & STATISTICS DIVISION

PREFACE

The Economics & Statistics Division of the Ministry of Petroleum & Natural Gas have conscientiously endeavoured to bring out this compilation on the Indian Petroleum & Natural Gas Statistics from 1967. This has been made possible with inputs furnished by the various Ministries and departments of the Government of India, Oil Coordination Committee as well as the oil companies.

Part I of the compilation deals with the Indian Petroleum statistics, Part II with international petroleum statistics, part III with plan statistics (including the draft X plan figures) and part IV focusses on the financial performance and structure of the oil companies.

We express our deep sense of gratitude to these providers of data and record our appreciation for the efforts put in by the officials of the Economics & Statistics Division viz. Shri A.P.S. Sawhney, Assistant Director, Shri Khursheed Alam, Research Officer, Sr. Investigators Shri D.C. Garg and Dr. P.G.S. Rao, Ms. Parvesh Goswami, UDC, Ms. Kanwaljit Kaur, Jr. Investigator.

Suggestions for improvement would be duly appreciated.

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SCOPE AND COVERAGE OF DATA PUBLISHED

1. **Scope:** The Indian Petroleum Natural Gas Statistic presents comprehensive statistics on various aspects of Indian Petroleum and Natural Gas Industries. The data on international developments in respect of the Important segement of Petroleum and Natural Gas Industries have also been presented in the publication.

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

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

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

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

5. **Reference Period:** All the key statistic 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 show 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 mnarketed, gas used for LPG extraction and gas consumed for field operations by the companies engaged in hydrocarbons exploration/production activities.

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

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

9. **Value of Import/Export:** The value data in respect of exports of petroleum included in the publication show 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 Factor:** The conversion factors generally used in the Oil Sector are also given in the Appendix.

INDIAN ECONOMY—SELECTED INDICATORS

Indicator	Unit / base	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01
1. Geographical Area	M.Sq. Km.	3.29	3.29	3.29	3.29	3.29	3.29	3.29
2. Population	Million	839	927	943	956	975	990	1006
3. Gross National Product at factor cost:								
(i) At current prices	Rs. Crores	503409	1059787	1230464	1376943	1583110	1740207	1878429
(ii) At constant prices+	"	683670	886961	959360	1005750	1070498	1136898	1181443
4. Net National Product at factor cost :								
(i) At Current prices	Rs. Crores	450145	941861	1093961	1224946	1415044	1557781	1679982
(ii) At constant prices+	"	614206	787809	852085	890890	948305	1007743	1044915
5. Per Capita Net National Product:								
(i) At current prices	Rupees	5365	10149	11564	12707	14395	15562	16487
(ii) At constant prices+	"	7321	8489	9007	9243	9647	10067	10254
6. Foreign Exchange Reserves								
(i) Gold++	Rs. Crores	6828.3	15658.5	14557.2	13394.0	12559	12972.6	12711
(ii) SDR	Mn. SDRRs.	75.9	55.9	1.4	1.0	6.0	3.0	2.0
(iii) Foreign Exchange	Rs. Crores	4388	58446	80368	102507	125412	125924	184482
Foreign Exchange Rate	Rs.\US$	17.943	33.450	35.500	37.165	42.071	43.333	46.684
7. Foreign Trade:								
(i) Import	Rs. Crores	43193	122678	138920	154176	178332	215236	230873
(ii) Export	"	32558	106353	118817	130101	139753	159561	203571
(iii) Balance of Trade	"	-10635	-16325	-20103	-24075	-38579	-55675	-27302
8. Index of Production:								
(i) Agricultural	@	148.4	160.7	175.4	165.3	178.1	176.8	170.6
(ii) Industrial	1993-94=100	91.6	123.3	129.1	139.5	145.2	154.9	162.7
9. Wholesale Price Index:	1993-94=100		121.6	127.2	132.8	140.7	145.3	155.7
10. Consumer Price Index:								
(i) Industrial Workers	1982=100	193	313	342	366	414	428	444
(ii) Agricultural Laboures	1986-87=100	803#	234	256	267	296	208	305
(iii) Urban non-manual workers	1984-85=100	161	259	283	302	340	352	371
11. Employment: !								
(i) Public Sector	Million	19.06	19.43	19.56	19.42	19.42	19.31	na
(ii) Private Stctor	"	7.68	8.51	8.69	8.75	8.70	8.65	na
Total	"	26.74	27.94	28.25	28.17	28.12	27.96	na
No. of persons on live register of employment exchange	Million	34.89	36.90	37.63	39.19	40.21	40.31	41.23
12. Energy Generation (Gross)								
Coal	Mn. Tonnes	211.73	270.13	285.66	295.66	297.27	299.97	309.63
Lignite	"	13.77	22.14	22.54	23.05	23.42	22.12	22.95
Natural Gas	Mn. Clb. Mtr.	17998	22639	23255	264.01	27428	28446	29477
Crude Oil	Mn. Tonnes	33.02	35.17	32.90	33.86	32.72	31.95	32.43
Pertoleum Products	"	51.27	58.32	62.50	64.82	68.24	84.96	102.51
13. Electricity:								
(i) Utilities								
Hydel	B.KWH	71.7	72.6	68.9	74.6	82.9	80.6	74.5
Thermal	"	186.5	299.3	317.9	337.0	353.7	386.8	408.1
Nuclear	"	6.1	8.0	9.1	10.1	11.9	13.3	16.9
Total	"	264.3	379.9	395.9	421.7	448.5	480.7	499.5
(ii) Non-utilities	"	25.1	38.2	40.8	44.1	48.4	51.5	55.0
GRAND TOTAL	"	**289.4**	**418.1**	**436.7**	**465.8**	**496.9**	**532.2**	**554.5**

* = Provisional
na= Not available.
@ = Triennium ending 1981-82
! = As on 31 March
: Old Base 1960-61=100
+ : Figures upto 1992-93 are based on old series at 1980-81 prices and from 1993-94 onwards are based on 1993-94 prices
++: Gold is valued at Rs. 84.39 per 10 gms from May 1966 upto Sept. 1990 and closer to international market prices w.e.f. Oct 17, 1990.
Source: Economic Survey.

TRENDS IN INDIAN PETROLEUM INDUSTRY AT A GLANCE

	Indicator	Unit\Base	1996-97	1998-98	1998-99	1999-00	2000-01*
1.	**Reserves!** (Balance Recoverable)						
	(i) Crude Oil	Mn. Tonnes	727	747	716	660	703
	(ii) Natural Gas	Bn. Cub. Mtr	640	692	675	648	760
2.	**Consumption**						
	(i) Crude Oil (in terms of refinery crude throughput)	Mn. Tonnes	62.87	65.17	68.54	85.96	103.44
	(ii) Petroleum Products (excl. RBF)	Mn. Tonnes	79.17	84.29	90.56	97.09	99.62
3.	**Production:**						
	(i) Crude Oil	Mn. Tonnes	32.90	33.86	32.72	31.95	32.43
	(ii) Petroleum Products	Mn. Tonnes	59.01	61.31	64.54	79.41	95.61
4.	**Imports & Exports**						
	(i) Gross Imports :						
	(a) Qty: Crude Oil	Mn. Tonnes	33.91	34.49	39.81	57.80	74.10
	Pol. Products	Mn. Tonnes	21.46	22.97	23.77	16.61	9.27
	Total (a)	Mn. Tonnes	55.37	57.46	63.58	74.41	83.37
	(b) Value: Crude Oil	Rs. Crores	18337	15872	14917	40028	65932
	Pol. Products	Rs. Crores	16210	14309	12276	14186	12093
	Total (b)	Rs. Crores	34547	30181	27193	54214	78025
	Pol imports as per DGCI&S	Rs. Crores	35629	30341	26919	45421	NA
	(ii) Exports :						
	(a) Qty: Crude Oil	Mn. Tonnes	—	—	—	—	—
	Pol. Products	Mn. Tonnes	2.66	2.38	0.72	0.75	8.37
	Total (a)	Mn. Tonnes	2.66	2.38	0.72	0.75	8.37
	(b) Value: Crude Oil	Rs. Crores	—	—	—	—	—
	Pol. Products	Rs. Crores	1721	1266	306	698	7672
	Total (b)	Rs. Crores	1721	1266	306	698	7672
	(iii) Net Imports :						
	(a) Qty: Crude Oil	Mn. Tonnes	33.91	34.49	39.81	57.80	74.10
	Pol. Products	Mn. Tonnes	18.80	20.59	23.05	15.86	0.90
	Total (a)	Mn. Tonnes	52.71	55.08	62.86	73.66	75.00
	(b) Value: Crude Oil	Rs. Crores	18337	15872	14917	40028	65932
	Pol. Products	Rs. Crores	14489	13043	11970	13488	4421
	Total (b)	Rs. Crores	32826	28915	26887	53516	70353
	(iv) Unit Value of Crude oil imports (gross)	Rs./MT	5409	4602	3747	6925	8898
5.	**India's Total Exports**	Rs. Crores	118817	130101	139753	159561	203571
6.	**Pol. imports as percentage of India's total exports**						
	(i) Gross Imports	%	29.1	23.2	19.5	34.0	38.3
	(ii) Net Imports	%	27.6	22.2	19.2	33.5	34.6
7.	**Contribution of oil sector to Centre/State Resources**						
	(i) Royalty from crude oil	Rs. Crores	1692	1800	1710	2049	2272
	(ii) Royalty from gas	Rs. Crores	273	415	438	547	608
	(iii) Oil Development Cess	Rs. Crores	2667	2838	2754	2716	2728
	(iv) Excise & Custom duties	Rs. Crores	21493	20973	21513	32662	39526
	(v) Sales Tax	Rs. Crores	10609	12758	13490	18106	23375
	(vi) Dividend	Rs. Crores	824	1055	2243	2587	3482
	(vii) Corporate Tax/Others	Rs. Crores	1873	1925	2621	3863	5345
8.	**Natural Gas:**						
	(i) Gross Production	Mn.Cu.Mtrs	23255	26401	27428	28446	29477
	(ii) Utilisation	Mn.Cu.Mtrs	21495	24522	25716	26885	27860

* = Provisional. - : NIL NA : Not Available.

PART - I

PETROLEUM STATISTICS

I. GENERAL

I.1 HIGHLIGHTS OF INDIAN PETROLEUM INDUSTRY DURING 2000-01

I.	**Reserves**			
	(a) Crude Oil (MMT)			
	As on 1.4.2001			703
	As on 1.4.2000			660
	(b) Natural Gas (BCM)			
	As on 1.4.2001			760
	As on 1.4.2000			648
II.	**Self-sufficiency in Oil**			
	(a) In 2000-01			31%
	(b) In 1999-00			31%
III.	**Crude Oil Production (MMT)**			
	(a) In 2000-01			32.427
	(b) In 1999-00			31.949
IV.	**Consumption of Petroleum Products (MMT)**			
	(a) In 2000-01			99.624
	(b) In 1999-00			97.086
V.	**%age variation 2000-01 over 1999-00**			
	(a) Crude Oil Production			1.5
	(b) Consumption of Petroleum Products			2.6
VI.	**Gross Imports of Crude Oil (MMT)**			
	(i) In 2000-01			83.37
	(ii) In 1999-00			74.41
VI.	**Refineries Data**			
	(a) Number of refineries as on 1.4.2001			17
	(b) Total refining capacity as on 1.4.2001			112.54 MMT
	(c) Total refining capacity in PSUs as on 1.4.2001			75.85 MMT
	(d) Total refining capacity in JVC/Private as on 1.4.2001			36.69 MMT
	(e) Crude Oil processed (2000-01)			103.444 MMT
	(f) Capacity Utilisation (2000-01)			92.3%

VII.	**Natural Gas Production (BCM)**	2000-01	1999-00	1998-99
	(a) Total Production	29.477	28.446	27.428
	(i) Offshore	21.753	21.043	20.260
	(ii) Onshore	7.724	7.403	7.168
	(b) Gas flared	1.614	1.560	1.712
	(c) % Gas flared	(5.5%)	(5.5%)	(6.2%)

VIII.	**(a) Production of Petroleum Products (MMT)**		
	(i) In 2000-01		97.659
	(ii) In 1999-00		81.397
	(b) Refinery Crude Throughput (MMT)		
	(i) In 2000-01		103.444
	(ii) In 1999-00		85.964
	(c) Gross Import of Crude Oil & Petroleum Products (Including Private/PMS)		
	(i) In 2000-01	83.36 MMT	Rs. 78025 crores
	(ii) In 1999-00	74.41 MMT	Rs. 54214 crores

IX.	**Overall Performance of PSUs**	
	(a) Gross Profit before Tax (Rs. Crore)	
	(i) In 2000-01	20511.87
	(ii) In 1999-00	15986.44
	(b) Net Profit after Tax (Rs. Crore)	
	(i) In 2000-01	11841.07
	(ii) In 1999-00	9751.12

1.2 (a) CHRONOLOGY OF IMPORTANT EVENTS OF INDIAN PETROLEUM INDUSTRY DURING 2000-01

(A) EXPLORATION & PRODUCTION

1. OIL INDIA LIMITED

* OIL signed a production sharing contract for an exploration block in Cauvery Offshore offered by Government of India under first round of exploration bidding.
* Gas supply agreement between OIL and Reliance Assam Petro-chemicals Ltd. (RAPL) for Assam Gas Cracker Project was signed at Guwahati.
* Crude oil was discovered in paleocene/eocene sands in OIL's Tengakhat oilfield.
* Crude oil was discovered in the lower eocene sands in Kuhiabari structure close to Dikom and Madarkhat oil fields in Assam.
* Pumping of imported crude oil to Bongaigaon Refinery was started through OIL's Bongaigaon- Barauni trunk pipeline on 27.12.2000. The imported crude oil up to Barauni is coming through IOC's Haldia-Barauni Pipeline.
* Heavy/high pour point oil was discovered for the first time in the Langpar formation in North Balijan structure in Assam.
* First phase of 400 MM NB x 10.5 km. long natural gas pipeline from LPG offtake Point, Duliajan to Bhekulijan in Assam was commissioned.
* Crude oil was discovered within lower eocene formation at a Well Moran 103 in OIL's Moran oil field in Assam.
* Crude oil production rate of 11,676 kl/day was achieved.
* Receipt of Indo German Greentech Environment Excellence Award, 1999-2000 and Natural Safety Awards (Mines), 1999.

2. OIL & NATURAL GAS CORPORATION LTD.

* Exploratory efforts have resulted in 12 hydrocarbon finds—Suryaraopetta, Gopavaram in Krishna Godavari Basin (Onland) & KD-1 (KG Deepwater), WO-24, BRC, ED-4, B-14, D-31 & BSE-2 (Mumbai Offshore), GK-39 in Kutch Offshore, Panidihing (Upper Assam) and Kanjirangudi (Cauvery Basin).
* Under deepwater exploration programme, the exploratory well KD-1-1 off the Krishna river mouth in a water depth of 844 m drilled with ONGC's own upgraded rig Sagar Vijay flowed gas @ 4,15,387 m3/ d. The KD gas find has opened up the Krishna Offshore as a new promising area in Krishna Godavari Basin.
* R&D well Jharia-2 in Damodar Basin, Bihar drilled for exploration of Coal Bed Methane flowed gas @14,947 m3/d.
* The MOU targets of production for 2000-01 have been exceeded for Crude Oil (101.9%), Gas sales (106.1%) & total value added products (116.6%).
* Eight major projects in Mumbai Offshore and Western region have been completed.
* Integrated Communication Network (ICNET) project to provide enterprise-wide connectivity for data transfer for upcoming IT applications completed.
* ISO-14001 certification awarded to Uran & Hazira Plants, ISO-9001 to Institute of Drilling Technology, Dehradun and ISO-9002 to Quality Assurance Department (QAD).
* ONGC posted a net profit of Rs.5229 crores and a Gross Revenue of Rs. 24270 crores in 2000-01.

3. ONGC VIDESH LIMITED

* Allotment of Equity Shares of Rs.200 crore to ONGC approved by the Board.
* Board approved the draft MOU to be signed with Russian Govt. Oil Company, "Rosneft" for co- operation in Exploration & Production (E & P) activities in Russia.
* Draft supplementary agreement to the Production Showing Contract (PSC) in respect of Vietnam Project approved by the Board.

- Submission of conditional non-binding bid for participation in Sakhalin-I Project and acruiring 20% of participating interest was approved.
- MOU with Sonatrach of Algeria signed for pursuing E & P Projects in Algeria.
- MOUs to be signed with PERTIMINA of Indonesia and PDVSA of Venezuela were approved.
- Contract for Block # 8 of Iraq was signed with the Govt. of Iraq.
- Heads of agreement signed with Sonatrach for co-operation in E & P activities in Algeria.
- The Board approved carrying out technical due diligence in respect of Block 242 of Algeria and negotiations of commercial terms of participation.

4. GAS AUTHORITY OF INDIA LIMITED

- British Council Safety Award won by GAIL's LPG Recovery Plants at Vijaipur, Vaghodia, Lakwa, Usar and U.P. Petrochemical Complex, Pata.
- LPG received at Jamnagar GAIL Station.
- Production sharing contract (PSC) signed for offshore exploration block No. 26 between GAIL and Gazprom, Russia.
- Jamnagar-Samakhiali Section (170 Kms.) commissioned successfully and 8628 MT of LPG pumped in the section.
- World's longest Jamnagar-Loni LPG Pipeline comissioned at Narsirabad, Ajmer (Rajasthan).
- Jamnagar/Kandla-Loni LPG Pipeline fully charged up to Loni on 15.1.2001.
- Received ISO-14001 Certification for LPG Recovery Plant at Lakwa and ISO-9002 Certification for GAIL, Agartala.
- Received Oil Conservation Award for best performance improvement in the upstream sector from Govt. of India.
- First consignment of LPG dispatched to IOCL, Madanpur Khadar.
- LEF-II commissioned and Trial production commenced at Gas Processing Complex, Gandhar.

(B) REFINING AND MARKETING

5. BHARAT PETROLEUM CORPORATION LTD.

REFINING

- Refinery commenced production/supply of MS with 0.05% wt. sulphur and 1% volume Benzene and HSD with max, 0.05% wt. sulphur with effect from 1.6.2000 for meeting the Mumbai Metro demand.
- Refinery Modernisation Project for upgradation of the Refinery facilities to produce environment- friendly products in line with future specifications and for reducing source emissions was approved, at a cost of Rs. 1592.65 crores.
- The Refinery has also been awarded the "Significant Improvement Award' by the National Safety Council, USA, for achieving a significant reduction in incidence rates in 1999.

MARKETING

- BPC launched Bharatgas Helpline, to attend to the emergency complaints of customers within one hour of the complaint.
- In April, 2000, BPCL's first Auto LPG Dispensing Station was commissioned at New Delhi.
- State-of-the-art 22 TMTPA LPG Bottling Plant at Wai, District Satara, in Maharashtra was inaugurated in May 2000.
- Delhi Aviation Fueling station was awarded the refuelling business by Virgin Atlantic Airways.
- First Operation Vijay Retail Outlet at Kanpur and the first LPG distributorship under the Special Operation Vijay Scheme, at Barara in Haryana commissioned in July 2000.
- From October, BPCL commenced refueling of Emirates scheduled flights at Chennai Airport.
- Launch of co-branded Multi-functional additive (MFA) with M/s. Iftex Petrochemicals in Mumbai.
- A 17 km long intracity pipeline running from Irimpanam Installation to Fertilisers and Chemicals Travancore Ltd. (FACT) was commissioned on 14.9.2000 for Naphtha supply.

* Ajmer LPG TOP was commissioned for bulk storage of LPG and it received LPG from the GAIL Jamnagar Loni pipeline in September 2000.

* 2 LPG bottling Plants of 44 TMTPA capacity at Ajmer in Rajasthan & Loin in U.P. and 3 LPG Bottling Plants of 22 MMTPA Capacity commissioned at Bhatinda in Punjab, Nagpur in Maharashtra and Dharwad in Karnataka.

* MOU signed for supply of 180 TMTPA of LNG for the Dual Fuel Combined Cycle Power Plant of M/s. Bhagat Power Pvt. Ltd. at Bundi, Rajasthan.

* During the year BPCL received the national petroleum management programme award of excellence for women development, the Samman Patra award (recongition of an honest assessee) from Mumbai Customs Zone, First runners up position in the General Management/HR award, National HRD award, FICCI award 1999-2000 in recognition of corporate initiatives Award for the best customer focus, chartered accountants of India's award for the best presented accounts, Golden Peacock national quality award to Mumbai refinery and CEO of the year award to CMD of BPCL.

* BPCL celebrated its Silver Jubilee, having completed 25 successful years as a public sector organisation.

* New road fed Depots of MS/HSD/SKO at Chandigarh and at Rangpoo in West Bengal with 360 Kl tankage and 490 Kl tankage respectively were commissioned. The Jetty at Kandla Product pipelines for white oils and black oil from Chennai Petroleum Corporation Ltld. (CPCL) to Tondiarpet Installation was also commissioned.

* Launch of website www.ebharatgas.com for online booking of refill cylinders

* BPCL received Prime Minister's MOU award and it has ranks first among the top 10 MOU signing Public Sector Enterprises. The Corporation has achieved an "Excellent' rating for its performance ever since 1990-91.

* BPC ranks third this year in Business India's Super 100 Companies list.

* BPC acquired the Governmenbt of India's holding of 55.04% shares in the 7.5 MMTPA Kochi Refineries Limited (KRL) for Rs. 659.10 crore which provides product security to BPC.

* On 31.3.2001, BPCL has acquired IBP's 19% equity holding in Numaligarh Refinery Limited for Rs. 172.56 crores. NRL has become BPC's subsidiary thereafter.

6. HINDUSTAN PETROLEUM CORPORATION LIMITED

REFINING

* The project for Hydro-desulphurisation of diesel (DHDS) to meet the stringent specification of 0.25 wt.% sulphur content at Visakh Refinery was commissioned in June' 00 within the approved cost of Rs. 793.75 crore.

* FCCU—I (revamp) was commissioned at Visakh refinery in August'00, thereby increasing the capacity from 0.4 MMTPA to 1 MMTPA.

* Stage—II of Propane Dewaxing Unit, for increasing LOBS production, was commissioned at Mumbai Refinery in October'00.

* The project for installation of CO Boiler for better environmental management as well as energy conservation was completed at Visakh Refinery in February 2001, within the approved cost of Rs. 27.21 crore.

* "Guru Bobindsingh Refineries Ltd.", fully owned subsidiary of HPCL was incorporated on 13/12/ 2000, for setting up a 9 MMTPA grassroot refinery at Phulokari in the Bhatinda district of Punjab, at an estimated cost of Rs. 9806 crores.

JOINT VENTURE

* The Mangalore Refinery and Petrochemicals Ltd. formed in association with the Aditya Birla Group Commenced direct marketing of free trade products and exported 500,000 MT of petroleum products including FO, ATF and MS.

* Hindustan Colas Ltd. (HINCOL), HPCL's bitumen emulsion Company under joint venture with M/s. Colas S.A. of France, setting up its fourth Plant at Visakhapatnam.

MARKETING

- A new state-of-the-art Lube blending Plant with capacity of 60 TMTPA was commissioned at Silvassa, at a cost of Rs. 40 crore in December 2000.
- 5 new POL depots at Gulbarga, Guntakal, Rajbandh, Baitalpur & Pampore and additional tankages at various locations totaling to 1333630 KL were completed at a cost of Rs. 77 crore.
- 4 new LPG botting Plants at Patna, Jamshedpur, Jabalpur and Hazribagh with a total capacity of 80 TMTPA and capacity augmentation of 3 existing Plants at Gandhinagar, Hoshiarpur and Jammu by 54 MMTPA were completed at a cost of Rs. 49 crore.
- ISO 9002 accreditation of 6 LPG Plants at Chandrapur, Kasna, Hubli, Mangalore, Unnao and Raipur and Lube Plant at Ramnagar were obtained.

7. INDIAN OIL CORPORATION LIMITED

(a) REFINERIES

- Foundation stone laid for 9 MMTPA grass-root refinery at Paradip in Orissa.
- All the three awards in the refining sector instituted by Ministry of Power under National Energy conservation award' 2000 were bagged by—Gujarat, Mathura and Barauni Refineries, the third time in succession.
- Haldia Refinery has received Millennium Business award for Environmental Achievement for the year 2000, from International Chamber of Commerce and United Nations Environment Programme, Paris in Jan' 01.
- Golden Peacock Environment Management Award 2000 and Indo German Greentech Environment excellent award received by Several refineries.

(i) GUJARAT REFINERY (Koyali)

- AU-III revamp from 2.0 to 2.7 MMTPA completed.
- 2nd phase revamp of FCCU for increasing capacity from 1.0 to 1.5 MMTPA completed and commissioned.
- Project for production of Butene-I commissioned.
- To facilitate increased production of Ultra low Sulphur (0.05% wt max.) HSD, Second reactor in Diesel Hydro Desulphurisation Unit commissioned.
- Vacuum Distillation Unit revamped from 2.0 to 2.4 MMTPA and commissioned.
- PFU-II revamp jobs for increasing capacity from 2.5 to 3.0 MMTPA completed.

(ii) BARAUNI REFINERY, Bihar

- 2 New HSD tanks of 20000 KL capacity commissioned.

(iii) MATHURA REFINERY, Uttar Pradesh

- Once Through Hydrocracker Unit commissioned.
- Second reactor in Diesel Hydro Desulphurisation Unit commissioned.

(iv) PANIPAT REFINERY, Haryana

- Propylene production facility commissioned.
- Second reactor in Diesel Hydro Desulphurisation Unit commissioned.
- 30 MW Gas turbine & 125 TPH heat recovery steam generator project completed.

(v) DIGBOI REFINERY, Assam

- LPG Recovery unit commissioned and production of LPG started for the first time.
- First retail outlet in Bihar and Orissa (i.e. AODs. outlet outside N.E. states) commissioned at Barh & Kuruda.

(vi) HALDIA REFINERY, West Bengal

- ULS HSD (0.05% "S') despatched on 26th November 2000 through HMR pipeline to supply to Kolkata city.

* Wax Hydro-finishing Unit for production of Micro-Crystalline Wax commissioned.
* Second reactor in Diesel Hydro Desulphurisation Unit commissioned.

(b) BUSINESS DEVELOPMENT

* Board approval for carrying out the due diligence of IPCL and HPL for evaluating the proposal for acquisition/merger.
* Government of Andhra Pradesh issued a letter of support of India Oil led Kakinada Indian Oil LNG Consortium (KIOLC) for development of LNG receipt, storage and re-gasification terminal at Kakinada Deep Water Port.
* Two NELP-1999 blocks awarded to IOC-ONGC consortium.
* MOU signed with Pertamina, the national oil company of Indonesia for exploring collaboration opportunities.
* Indian Oil on behalf of KIOLC entered into a MOU with Govt. of Andhra Pradesh for development of the LNG terminal.

(c) MARKETING

* Secured Aviation business with M/s. Turkmenistan and M/s. Necon Airways, Nepal.
* Started supply of Liquid Sulphur.
* JNPT Terminal (capacity 60000 KL) of IOC and Vadinar-Kandla pipeline were commissioed.
* 3 TMT of Paraffin Wax Type-IIA imported for the first time after decontrol to meet the shortfall in demand.
* The first export cargo of SERVO Lubricants of 99 MTs to Bangladesh (M/s. Baraka) despatched.
* Secured Aviation Business with M/s. Air Mauritius at Chennai and Royal Nepal Airlines Corp., Bangalore.
* The first export cargo of SERVO Lubricants of 11.8 MTs. to Mauritius (M/s. Beecjamd Cp.) despatched.
* Commissioned BPI for airforce at Leh IOCL's fuel facility at Leh will be recorded as the one at the highest attitude in the world.
* Ethanol mixing in MS facility at Miraj Depot commissioned.
* Local blening of SERVO in Malaysia started in Jan. 01.
* New depot at Leh of capacity 3600 kl. and Import of LPG into Jamnagar Port commissioned.
* Bitumen Emulsion Plant at Panipat of capacity 12 Ton/hr. and LSHS and LDO tankage at Western Island commissioned.
* Lube Blending plant at Asaoti of capacity 60 TMT/PA started in March, 2001.
* Shri P. Gopichand and A.S. Gupta employee of IOC won All England and French open Badminton Championships.

(d) PIPELINE

* Vadinar-Kandla Product Pipeline under petronet was commissioned with product delivery at IOCL, Mktg. Force—Shore—Terminal (FST) at Kandla.
* 1st batch of ATF (4000 Kls) Ex-Panipat Refinery delivered at Ambala.
* 1st batch of MS (59000 Kls) pumped in Kandla-Bhatinda Pipeline (KBPL) and terminated at Rewari (by taking deliveries at Sidhpur, Salawas, Sanganer and Rewari TOPs).
* Premium grade MS (less than 1% Benzene and less than 0.5% Sulphur) has been pumped from Mathura in Mathura-Jalandher Pipeline (MJPL).
* Hook up of Viramgam-Koyali Pipeline (VKPL) and KBPL at Kandla for direct pumping completed mechanically.
* First time ultra low sulphur HSD (less than 0.05% sulphur) pumped from Haldia in Haldia- Mourigram-Rajbandh Pipeline (HMRPL).
* Sonepat—Meerut Branch pipeline of MJPL commissioned.

* First time Ultra Low sulphur HSD (less than 0.05% sulphur) pumped in KBPL for supplying to Metro cities.

* Three bridge attachment crossing in MJPL (in Panipat-Ambala-Jallandhar Section were replaced with horizontal directional drilling (HDD) crossings :

—Sirhind canal crossing (89 Kms. Ex-Ambala in Punjab)

—Twin canal crossing (136.775 Kms. Ex-Delhi in Haryana)

—Western Yamuna Link (WYL) canal crossing (123.210 Kms Ex-Delhi in Haryana)

* Facilities for supply of imported crude to BRPL through HBCPL commissioned.

* Haldia-Barauni Crude Pipeline (HBCPL) has been accredited with ISO 9002, with this all pipelines including Head office have been accredited with ISO-9000 certification.

* Both product & crude pipeline have achieed ever highest thruput of 39.501 MMT.

* British Safety Council award 1999 received by-KAPL. KBPL, SMPL-pipelines.

* USA National Safety Council 1999 received by-KAPL (pipeline).

* MJPL, KBPL, GSPL & HBCPL pipelines accredited with ISO-14001 certification.

(e) **RESEARCH & DEVELOPMENT ACTIVITIES**
INDIAN OIL CORPORATION LIMITED
RESEARCH & DEVELOPMENT CENTRE, FARIDABAD

* 11 patents, including 8 US, 1 Republic of China (Taiwan), 1 Indonesian and one Indian, received.

* 15 new patents filed in India and abroad.

* 107 technical papers publihsed in reputed national/International journals and conference proceedings.

* Two NPMP Technology awards, one best garden trophy, 21 flower show awards, conferment of Visiting professorship from IIT (Roorkee) and Lifetime Achievement Award from Bundelkhand University, to Dr. A.K. Bhatnagar, Director (R&D) and best paper award to Dr. D.K. Tuli, CRM

* 42 new products including 8 global industrial formulations and 5 geniune oils developed.

* Multifunctional additive for gasoline developed for the first time.

* 45 products commercialised.

* 14 product approvals obtained.

* 10 products put on field trials.

* Five new test methods developed.

* A novel cosolvent for furtural extraction of lube distillates developed.

* A novel low energy process developed for improving colour stability of Mineral Turpantine Oil (MTO) Process commercialised at Panipat Refinery.

* A simulator model for delayed coker developed and installed in Haldia Refinery.

* 31 FCC and RFCC catelyst samples, 10 HC catalyst, 9 ZSM-5 additive samples from IOC and non-IOC refineries evaluated and best ones recommended for maximization of yields of products.

* Six new pilot plants and two mocro-reactors commissioned.

* 100 LAN nodes added.

* Fuel Testing Labouratory at NOIDA commissioned and handed over to IIP for regular operation, as per the directives of Supreme Court.

8. **IBP CO. LIMITED**

* 44 new Retail Outlets and a new LPG distributorships were commissioned, and 40139 new customers for LPG were enrolled. The Company had 25 LPG distributorships and 95999 customers as on 31.03.2001.

* Ultra low sulphur petrol & diesel having 0.05% sulphur content and MS with 1% benzene max have been introduced in phased manner.

* IBP Red lubes established in the bazaar segment and major industrial customers, State Transport Corporations, Railways and Defence services.
* New Terminals were commissioned at Sangrur, Punjab with a tankage of 25030 KLs. and at Kondapally, A.P. with a tankage of 10270 KLs. The tankages at Barauni terminal were expanded by 10500 KLs and at Mathura by 2500 KLs.
* The total tankage now stands at 4,00,420 KLs at the end of 2000-01.
* The Capacity of Base Oil Tankage at Budge-Budge was enhanced from 3,500 Kl to 5,700 Kl. Two new dedicated pipelines were laid upto Jetty for receipt of imported Base Oils.

IBP - IOC agreement for APM products during the year, formally signed on 6.4.2000.

* An agreeement covering APM & Non APM products between IBP & BPC was signed on 17.3.99 for 10 years.

9. BONGAIGAON REFINERY & PETROCHEMICALS LTD

* Govt. of India disinvested its entire shareholding (74.46%) in BRPL in favour of Indian Oil Corporation Limited (IOCL) w.e.f. 29.3.2001.
* First time receipt of Imported crude oil by way of reverse pumping from Barauni to Bongaigaon. First time processing of imported crude oil of 60.6 TMT along with the 1427.2 TMT of Assam crude totaling to 14.88 lakh in its existing Crude Distillation Unit.
* The company produced LPG - 25,220 MT and MS - 67,469 MT.
* BRPL has been awarded ISO-9002 re-certification during the year 2000-01.

10. CHENNAI PETROLEUM CORPORATION LIMITED

* Extraordinary General Meeting of MRL Shareholders approved change on name to Chennai Petroleum Corporation Limited (CPCL) w.e.f. April 6, 2000.
* The retail sale of Paraffin Wax from the Marketing Complex of CPCL at Kathipara, Chennai commenced.
* Cabinet Committee on Economic Affairs (CCEA) clearance obtained for CPCL's proposal to expand and modernise its Refinery capacity at Manali from 6.5 MMTPA to 9.5 MMTPA at an estimated cost of Rs. 2,360.38 crore. Foundation stone laid on 5th Oct. 2000.
* CPCL signed an MOU with M/s. Tinna Overseas Ltd. (TOL) for the manufacture of Crum Rubber Modified Bitumen at CPCL in Aug. 2000.
* 30% dividend was declared for shareholders of CPCL for the year 1999-2000 in Sept. 2000 and Rs. 23.18 crore dividend paid to Govt. of India.
* CPCL paid Rs. 23.18 crore dividend paid to Government of India.
* Modified Bitumen launched at Chennai, Hyderabad and Karnataka in Jan, 2001.
* As a part of restructuring of Public Sector undertakings, Government of India sold its stake in CPCL to IOCL on 27.3.2001.
* CPCL's Cauvery Basin Refinery, the first Indian refinery to get ISO 9002 certification in 1994 was awarded "Recertification" valid upto 2003.

11. KOCHI REFINERIES LIMITED

* KRL has won the prestigious National Safety Award for the year 1999 from the British Safety Council.
* The Extra Oridinary General Meeting of the Shareholders of KRL held on 29 May 2000 approved the change of name of the Company to Kochi Refieries Limited.
* KRL has won "Significant Improvement Plate" from the National Safety Council of USA for noteworthy safety performance during the year 1999.
* With effect from 31 March 2001, the marketing of petroleum products from KRL has been switched over to BPCL from IOCL.
* KRL achieved more than 100% capacity utilization during the year 2000-2001.

12. MANGALORE REFINERY AND PETROCHEMICALS LIMITED

- Refinery has despatched LSHS (12 TMT) for the first time in July 2000.
- First ever direct FO Export of 60 TMT and direct marketing bulk & packed Bitumen started in Oct.-00.
- 380 CST FO produced & exported for the first time in Nov. 00 and first Export Parcel of MS-95 in Dec-00 and ATF in Jan.-01.
- Special grade light naphtha was sold to Haldia Petrochemicals for the first time.
- SKO new line to jetty was commissioned in March 01.

13. RELIANCE PETROLEUM LIMITED (RPL)

REFINING

- Model developed for predicting crude compatibility and eliminating operating problems resulting from processing of different types of crudes thereby improving refinery margins.
- A new formulated catalyst was introduced in Fluidized Catalytic Cracker (FCC), increasing the conversion and improving the reliability of power recovery turbines' operations.
- Coking cycle has been progressively reduced to facilitate processing of opportunity crudes.
- A novel concept of pinning factor was introduced in the platformer operation in order to improve plant capacity utilisation.

MARKETING

- Total sales stood at 23.42 million tonnes turnover being Rs. 30963 crore (US$ 6.6 billion) and net profit of Rs. 1464 crore (US$ 314 million).
- Product exports were about 6.8 million tonnes with export realisation of Rs. 6410 crore (US$ 1.4 billion).
- RPL adjudged the largest manufacturer exporter in the country.

14. MAHANAGAR GAS LTD. Mumbai.

- MGL has achieved comulative registrations of over 88,000 and has connected over 50,000 domestic consumers on gas.
- Six CNG outlets were added taking the total outlets to 23 numbers.
- Over 8,900 vehicles got converted on CNG.

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I. 2(b) THE GAZETTE OF INDIA
EXTRAORDINARY
PART II—Section 3—Sub-section (i)

MINISTRY OF PETROLEUM AND NATURAL GAS

ORDER

New Delhi, the 26th April, 2000

G.S.R. 487(E).— In exercise of the powers conferred by section 3 of the Essential Commodities Act, 1955 (10 of 1955), the Central Government hereby makes the following Order, namely:—

1. **Short title and commencement :—**

(1) This Order may be called the Liquefied Petroleum Gas (Regulation of Supply and Distribution) Order, 2000.

(2) It extends to the whole of India.

(3) It shall come into force on the date of its publication in the Official Gazette.

2. **Definitions.**— In this Order, unless the context otherwise requires,—

(a) "Chief Controller of Explosives" shall have the same meaning assigned to it in the Explosives Act, 1884 (4 of 1884);

(b) "consumer" means a registered person, firm, company, institution, association of persons, co- operative society or organisation, who has been granted liquefied petroleum gas connection or supply, either in bulk or in cylinder, by a distributor or a Government oil company or a parallel marketeer;

(c) "cylinder" means a metal container utilized for storing liquefied petroleum gas conforming to the specifications laid down in Schedules II and III;

(d) "delivery person" means a person engaged by a distributor of a Government Oil Company or a parallel marketeer to deliver liquefied petroleum gas in cylinder to consumers;

(e) "distributor" means a person, firm, association of persons, company, institution, organisation or a co-operative society appointed by a Government Oil Company or parallel marketeer and engaged in the business of purchase, sale, or storage for sale of liquefied petroleum gas in cylinders to consumers on the basis of an agreement with a Government Oil Company or a parallel marketeer, as the case may be;

(f) "gas cylinder valve" means a valve which is fitted to a cylinder;

(g) "Government Oil Company" means,—

(1) Bharat Petroleum Corporation Limited

(2) Bongaigaon Refinery and Petrochemicals Limited

(3) Cochin Refineries Limited

(4) Gas Authority of India Limited

(5) Hindustan Petroleum Corporation Limited,

(6) Indian Oil Corporation Limited,

(7) Indo-Burma Petroleum Company Limited,

(8) Chennai Petroleum Corporation Limited,

(9) Numaligarh Refinery Limited,

(10) Oil India Limited,

(11) Oil and Natural Gas Corporation Limited, or

(12) any other Government Company or a statutory body or a company or a firm, declared as such by notification in the Official Gazette, to be a Government Oil Company by the Central Government, for the purposes of this order;

(h) "Indian Standard" shall have the same meaning as assigned to it in clause (g) of section 2 of the Bureau of Indian Standards Act, 1986 (63 of 1986);

(i) "liquefied petroleum gas (or LPG" means a mixture of light hydrocarbons which may include propane, isobutane, normal butane, butylenes etc., which are gaseous at normal ambient temperature and atmospheric pressure but may be condensed to liquid state at normal ambient temperature by the application of pressure and which conforms to Indian Standard specification number IS 4576;

(j) "parallel marketeer" means any person, firm, company, institution, association of persons, co- operative society or organisation carrying on any or all of the business of importing, storing, bottling, marketing, distributing and/or selling liquefied petroleum gas under the parallel marketing system;

(k) "parallel marketing system" means the system other than the public distribution system, under which a parallel marketeer carries on any or all of the business of importing, storing, bottling, distribution or selling in bulk or in retail, packed or filled in cylinder, liquefied petroleum gas under his own arrangement;

(l) "public distribution system" means the system of distribution, marketing or selling of liquefied, petroleum gas by a Government Oil Company at the Government controlled or declared price through a distribution system approved by the Central or a State Government;

(m) "pressure regulator" means the equipment used for regulating the flow and pressure of liquefied petroleum gas from a cylinder to a gas stove;

(n) "Schedule" means a Schedule appended to this Order;

(o) "seal" means seal put on the cap of the valve of the cylinder for the purpose of sealing a cylinder after it has been filled with liquefied petroleum gas;

(p) "storage point" means the premises licensed by the Chief Controller of Explosives;

(q) "transporter" means a person authorised by a Government Oil Company, parallel marketeer or a distributor for transportation of LPG in bulk or in cylinders and also of empty or defective cylinders.

3. Restriction on unauthorised possession, supply and consumption of liquefied petroleum gas—

(1) A person having a connection for liquefied petroleum gas under the public distribution system, shall not—

(a) possess more than one connection of liquefied petroleum gas granted under the public distribution sysem:

Provided that the Central Government or the Chief Executive Officer of a Government Oil Company, may sanction more than one connection of liquefied petroleum gas under the public distribution system in favour of any person, keeping in view the difficulty and hardship experienced by such person in obtaining supllies of the LPG;

(b) possess or use liquefied petroleum gas filled in cylinder or in bulk, unless he has received the supply from a Government Oil Company or a distributor authorised by such Company;

(c) use liquefied petroleum gas for any purpose other than for which the consumer is registered with the distributor of a Government Oil Company;

Provided that the Central Government may by a general or special order permit the use of liquefied petroleum gas for such other purposes as, it may, by order, specify.

(2) The supply of liquefied petroleum gas to domestic category consumers shall be made in 14.2 Kg capacity cylinder and to those falling under non-domestic category shall be made in 19 Kg/47.5 Kg capacity cylinder, or in such capacity cylinders as may be notified, by the Central Government from time to time.

(3) No distributor of a Government Oil Company shall supply liquefied petroleum gas filled in cylinder to any person unless he — (a) has been registered and granted a connection for liquefied petroleum gas under the public distribution system, or (b) holds a valid authorisation from the Government Oil Company.

(4) No distributor of a Government Oil Company or a parallel marketeer, as the case may be, shall commit or cause to commit any of the activities prohibited herein including those specified in Schedule-I.

4. Restriction on storage and transport of liquefied petroleum gas—

(1) No person shall—

(a) fill any cylinder with liquefied petroleum gas or transfer liquefied petroleum gas from one cylinder to another cylinder or from one contalner to another container unless authorised by the Chief Controller of Explosives;

(b) transport or store a cylinder filled with liquefied petroleum gas except in an upright position;

(c) store or use or cause to be stored or used a cylinder filled with the liquefied petroleum gas except in a cool, dry, well-ventilated and accessible place under cover, away from boilers, open flames, steam pipes or any potential source of heat;

(d) remove the seal prior to use of the cylinder:

Provided that the distributor or his authorised representative or the delivery person may remove such seal in the presence of the consumer either for testing, checking or installation of the cylinder;

(e) use cylinder, pressure regulator and gas cylinder valve other than those specified in Schedules II and III.

(2) No transporter or delivery person shall deliver or cause to deliver liquefied petroleum gas either in cylinder or in bulk to any person other than the consumer or distributor.

5. Restriction on sale or distribution of liquefied petroleum gas below or in excess of the standard weight.—

No Government Oil Company, distributor or parallel marketeer shall supply, sell or distribute to a consumer liquefied petroleum gas in cylinders which contains less than or in excess of the weight of liquefied petroleum gas specified in the Schedules II and III or as indicated on the cylinder.

6. Prohibition on carrying unauthorised business of selling LPG.—

No person other than a Government Oil Company, a parallel marketeer or a distributor shall be engaged in the business of selling liquefied petroleum gas to the consumer.

7. Possession, supply or sale of liquefied petroleum gas equipments.—

(1) No person shall —

(*a*) Supply or sell filled or empty cylinder, gas cylinder valve and pressure regulator to any person other than a Government Oil Company or a parallel marketeer;

(*b*) unless authorised by a Government Oil Company or a parallel marketeer, supply or sell filled or empty cylinder, gas cylinder valve and pressure regulator to any person other than a consumer;

(*c*) possess filled or empty cylinder, gas cylinder valve or pressure regulator, unless he is a distributor or a consumer.

(2) Every manufacture of cylinder, gas cylinder valve and pressure regulator shall destroy by crushing those cylinders, cylinder valves and pressure regulators which do not conform to the Indian Standards.

8. Display of stock and price of liquefied petroleum gas. —

Every distributor shall prominently display the stock and price of the liquefied petroleum gas at a conspicuous place of the business premises including the storage point, showing—

(i) the opening balance of filled, empty and defective cylinders and regulators;

(ii) the backlog of preceding working day of the filled cylinders to be supplied,

9. Procurement, storage and sale of liquefied petroleum gas by a distributor.—

(*a*) No distributor having stock of liquefied petroleum gas at the business premises, including storage point, shall, unless otherwise directed by a Government Oil Company or a parallel marketeer, refuse to sell LPG on any working day during working hours, to the consumer registered with that distributor.

(*b*) No distributor shall keep his business premises including the storage point closed during working hours on any working day without the prior written permission of the Government Oil Company or the parallel marketeer.

Explanation.— For the purposes of sub-clauses (a) and (b), the expression "working hours" means the working hours fixed by the concerned Government Oil Company or the parallel marketeer in accordance with the provisions of the Shops and Establishments Act and the rules made thereunder, as in force in the respective States or the Union territories, as the case may be.

(*c*) Every distributor shall take steps to ensure that stocks of liquefied petroleum gas are available at the business premises, including the storage point, at all times.

(*d*) No distributor shall sell liquefied petroleum gas at a higher price than that fixed by the Government Oil Company or the parallel marketeer.

(*e*) No distributor shall, without prior written permission of the concerned Government Oil Company, refuse to make home delivery at the address of the consumer, as registered with the distributor.

Provided that the State Government may, fix additional charges for home delivery of LPG cylinders to the consumers, as it may deem necessary in view of the geographical terrain and/or the distance in the area of distribution.

(*f*) Every distributor shall display the working hours prominently at the place of business including the place of storage on a conspicuous place.

10. Maintenance of register, account books by a distributor.—

(*a*) Every distributor shall maintain proper accounts of daily purchase, sale and storage of liquefied petroleum gas at the business premises indicating therein,—

(i) the opening stock of the filled, empty and defective cylinders;

(ii) the number of filled, empty and defective cylinders received during the day;

(iii) the number of filled, empty and defective cylinders sold, delivered or otherwise disposed of during the day;

(iv) the closing stock of the filled, empty and defective cylinders;

(v) such other relevant particulars as the concerned Government Oil Company or the parallel marketeer may by order in writing, specify.

(b) the Distributor shall maintain a register giving the details of names and addresses of persons registered for obtaining liquefied petroleum gas connection.

11. Assessment and Certification Rating of parallel marketeers.—

(1) (a) No parallel marketeer shall commence any activity, such as, importing, storing, transporting, bottling, marketing, distribution, sale or any activity incidental thereto, relating to the business of liquefied petroleum gas without obtaining a rating certificate, for his capability, infrastructure network and readiness to carry out professed business and deliver goods and services promised, provision for adequate safety backup, for transportation, accident relief during transportation, and attending to emergency complaints of consumers by an agency given in Schedule-IV, on the basis of its evaluation and rating.

(b) The rating certificate shall be issued in the format as specified in Schedule-V, and as per the forwarding letter given in Schedule-VI.

(c) The rating certificate shall—

(i) be valid for a period of two years in case of "good" and "satisfactory" rating and one year in case of other ratings from the date of its issue, and

(ii) require renewal by the rating agency.

(2) Every parallel marketeer announcing details of his activity or inviting offers of any kind in the field of import, transport, marketing, bottling, distribution or sale of liquefied petroleum gas, either in a newspaper, handout, pamphlet, leaflet or by any other means of communication or advertising shall indicate the rating awarded to him in words i.e. Good, Satisfactory, Low-risk, High risk, whichever is applicable, and prominently publish the rating certificate, as given by the rating agency.

(3) There shall be paid in respect of every application to a rating agency—

(i) for the rating certificate awarded to the parallel marketeer, a fee at the rate of 0.05% of the project cost, subject to a minimum of rupees fifty thousand and maximum of rupees ten lakhs; and

(ii) for the renewal of the rating certificate by the parallel marketeer, a fee of one-tenth of that required to be paid for such a certificate.

(iii) The renewal of rating certificate by the parallel marketeer shall be as per the following periodicity, namely:—

(a) once in two years, for those having 'good' and 'satisfactory' rating certificate in the previous year.

(b) once in a year for those having rating certificate other than 'good' and 'satisfactory' in the previous year.

(4) The agencies given in Schedule-IV for the purpose of evaluation shall, on payment of fee by the parallel marketeer, evaluate the parallel marketeer whose case is either referred to it or who approaches it, on the basis of the parameters indicated and the information provided by such parallel marketeer in the format as specified in Schedule-VII or such other information as may be required by the rating agency.

(5) Every parallel marketeer shall file a certified true copy of the certificate of rating with the Ministry of Petroleum and Natural Gas, Oil- Coordination Committee, Ministry of Food and Civil Supplies of the Central and the State Government and Collector of the District in which he imports, transports, bottles, markets, distributes or sells liquefied petroleum gas.

(6) All letter-heads or communications of a parallel marketeer shall have the following description of rating:—

(i) Name of the rating agency,

(ii) Rating awarded to him, and

(iii) Date of Issue.

(7) No parallel marketeer shall either give incomplete, incorrect, misleading, vague information in the newspaper, handout, pamphlet, leaflet or advertisement or submit such information to the rating agency:

Provided that a parallel marketeer carrying on the business of transportation, marketing, distribution or selling of liquefied petroleum gas as an agent of another parallel marketeer, who has obtained a rating certificate, shall not be required to obtain a rating certificate.

Explanation: For the purpose of this clause, a parallel marketeer shall be regarded as an agent of another parallel marketeer if the former is appointed an agent for the above purposes by the latter through a legal instrument,

12. Maintenance of records and furnishing of information by parallel marketeer—

(a) Every parallel marketeer before commencing the import, transportation, bottling, marketing, distribution or sale of liquefied petroleum gas shall intimate to the Ministry of Petroleum and Natural Gas all or any of the above activities which he intends to undertake, specifying therein capability to do so, and any other relevant particulars.

(b) The parallel marketeer shall ensure that the quality checks are carried out and the liquefied petroleum gas meets the BIS specification number IS 4576, in all respects before the imported liquefied petroleum gas is discharged into the storage infrastructure at the port.

(c) The parallel marketeer shall ensure that the liquefied petroleum gas meets the BIS specification number IS 4576 before it is sold to any consumer.

(d) The parallel marketeer of liquefied petroleum gas shall submit a monthly return before the 15th day of the following month giving details of liquefied petroleum gas produced and or imported port- wise, to the Ministry of Petroleum and Natural Gas.

(e) The parallel marketeer shall furnish to the Ministry of Petroleum and Natural Gas, or to such authority as may be specified by the Central Government, such information as may be required.

13. Power of entry, search and seizure.—

(1) Any Officer of the Central or the State Government not below the rank of Inspector duly authorised by a general or a special order, by the Central Government or the State Government, as the case may be or any officer of a Government Oil Company not below the rank of Sales Officer, authorised by the Central Government, may, with a view to securing due compliance of this Order or any other order made thereunder;

(a) stop and search any vessel or vehicle used or capable of being used for the transport or storage of any petroleum product,

(b) enter and search any place,

(c) seize stocks of liquefied petroleum gas alongwith container and/or equipments, such as cylinders, gas cylinder valves, pressure regulators and seals in respect of which he has reason to believe that a contravention of this Order has been, or is being, or is about to be made.

(2) The sales officer of a Government Oil Company shall be authorised to secure compliance of this Order by the distributors appointed under the public distribution system and or by the consumer registered by them.

14. Overriding effect of the Order.—

The provisions of this Order shall have overriding effect notwithstanding anything contained in any Order made by a State Government or a Union Territory Administration.

15. Power to exempt.—

The Central Government may, if it considers necessary, for avoiding any hardship or in consideration of the public interest, by a notification in the Official Gazette, exempt any person or class of persons from all or any of the provisions of this Order, either generally or for any specific purpose, and subject to such conditions as may be specified in the notification.

16. Repeal and savings.—

The Liquefied Petroleum Gas (Regulation of Supply and Distribution) Order, 1993 is hereby repealed:

Provided that such repeal shall not effect:

(a) the previous operation of the said Order or anything duly done or suffered therein; or

(b) any right, privilege, obligation or liability acquired, accrued or incurred under the said Order; or

(c) any penalty, forfeiture or punishment incurred in respect of any offence committed against the said Order; or

(d) any investigation, legal proceedings or remedy in respect of any such right, privilege, obligation, liability, penalty, forfeiture or punishment as aforesaid,

and any such investigation, legal proceeding or remedy may be instituted, continued or enforced and any such penalty, forfeiture or punishment may be imposed as if the said Order had not been repealed.

Schedule-I
(see clause 3(4)

Prohibited Activities
(for Government Oil Companies)

1. Forced sale of Stove/Hotplates to the consumers.
2. Recovery of unauthorised charges from applicant at the time of registration/release of new connection.
3. Supply of partially used cylinder/pilfering product from cylinder/cylinders with pilfered product to LPG consumer.
4. Unauthorised and/or out of turn release of new LPG connections.
5. Unauthorised diversion of domestic cylinder for non-domestic use of LPG.
6. Acceptance of fake documents including Termination Vouchers and Transfer Termination Vouchers.
7. Possession of spurious LPG equipment.
8. Induction of spurious LPG equipment and/or replacement by a spurious equipment.
9. Manipulation of mandatory records.
10. Non-home delivery of LPG refill supplies to consumer and/or not giving rebate on non-home delivery to LPG consumer.
11. Overcharging by distributor on LPG refill supplies, installation charges, mechanic charges and/or any other charges authorised by the Government Oil Company.
12. Refusal to register requests for new connection and/or double bottle connection.

Prohibited Activities
(for Parallel Marketeers)

1. Forced sale of Stove/Hotplates to the consumers.
2. Supply of partially used cylinder/pilfering product from cylinder/cylinder with pilfered product to LPG consumer.
3. Possession of spurious LPG equipment.
4. Induction of spurious LPG equipment and/or replacement by a spurious equipment.
5. Manipulation of mandatory records.

Schedule-II
(see clauses 4(1) (e) & 5)

Applicable to distributors of a Government Oil Company

Standard size and specification of Liquefied Petroleum Gas Cylinders shall conform to IS 3196 (Part I), 1992 Colour code specification IS 4379 and the following:—

Internal diameter of cylinder in mm	Net weight of liquefied petroleum gas in the cylinder
314 mm + 1% - 0%	14.2 kg+150 gms -
330.1 mm + 2% - 0%	19 kg+1.0% -
368.3 mm + 1% - 0%	47.5 kg+1.0% -

(+)

(- indicate the variations on either side)

NOTE:

1. Standard size and specification of Gas Cylinder Valve under the public distribution system shall conform to IS 8737 Part II specifications having an outlet collar diameter of 25.6 mm.
2. Pressure regulator shall conform to IS 9798 specification having an inlet diameter of 25.6 mm.

Schedule-III

see clauses 4(1)(e)&5)

(Applicable to Parallel Marketing System)

A parallel marketeer under the parallel marketing system shall deal with and use:—

(a) Cylinder of any size, shape, design and weight other than those specified in Schedule "II' conforming to Indian Standard specifications.

(b) Gas cylinder valve conforming to IS specification 8737, Part II of any size having an outlet collar diameter of 22.0 mm.

(c) Pressure regulator conforming to IS specification 9798 of any size and having an inlet diameter other than of 22.0 mm.

NOTE:

1. The cylinder used by a parallel marketeer shall be provided with a valve protection ring different in shape from that in the cylinder used by a Government Oil Company.
2. The cylinder used by a parallel marketeer shall be clearly marked with Colour Band and Logo of their respective company, firm or person marketing liquefied petroleum gas, as approved by the Chief Controller of Explosives.
3. Maximum permissible error on net quantities declared by weight or by volume shall be as below:—

Declared quantity	Maximum permissible error in excess or in deficiency	
Gm or ml	%	gm or ml
1000-10000	1.5%	-
10000-15000	-	150
more than 15000	1.0%	

Schedule-IV
[see clause 11(1)(a) & (4)]

Name and address of agencies for evaluation of a Parallel Marketeer

	Name	Address
1.	CRISIL (The Credit Rating Information Services of India Ltd.)	Nirlon House, 2nd Floor, 254 B, Annie Besant Road, Worli, Bombay-40025
2.	CARE (Credit Analysis and Research Ltd.)	RBC, Mahindra Towers, 5th Floor, Road No. 13, Worli, Bombay-400018
3.	MDRA (Marketing and Development Research Associates)	Secular House, 9/1, Institutional Area, Opp. JNU, N. Delhi-67
4.	ICRA (Investment Information Credit Rating Agency of India Ltd.)	Kailash Building, 4th Floor, 26, Kasturba Gandhi Marg, New Delhi-1

Schedule-V
[see clause 11(1)(b)]

Rating Certificate for the Parallel Marketeer

Date of Issue: _____

Name of Firm/Company:

Registered Office Address:

Name of Promoter/Chairman/Managing Director:

Activities:

Particular of Bankers:

Overall Rating _____

Rating Scale

Good
Satisfactory
Low Risk
High Risk

Signature and Seal of the Rating Agency

Schedule-VI
[see clause 11(1)(b)]

Forwarding Letter for the Certificate of rating

To whomsoever it may concern

This is to certify that we have made an evaluation of M/s.....
.....for the purpose of issuing certificate and a rating to them in accordance with the provisions of the Liquefied Petroleum Gas (Regulation of Supply and Distribution), Order, 2000.

We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of issuing this certificate. The certificate issued by us is as a result of our examination of the documents, records and assessment of the information obtained by us and the Evaluation of capability, infrastructure network and readiness to carry out professed business, deliver good and services promised by the parallel marketeer. We are satisfied that the information and particulars received and collected by us are sufficient enough to enable us to evaluate M/s..... ** ..... providing the rating as specified.

M/s ..... ** .....are awarded
..... rating.

Salient facts about M/s..... ** .....are as follows:—

1. Total investment planned.

2. Total investment made upto date.

3. Promoter's equity.

4. Proposed/likely date of commissioning.

** Name of the parallel marketeer to be indicated.

(Signature and Seal of the Rating Agency)

Schedule-VII
[see clause 11(4)]

Proforma of information to be submitted by the Parallel Marketeer for Evaluation/Rating by the Rating Agency.

PARAMETERS DETAILS:*

1. Market Standing of the Company:

A. Constitution of the firm
B. Registered Office
C. Location & Addresses of Existing Business.
D. Name of Promoters/Directors/Partners.
E. Background and full anticidents of promoters/directors/partners.
F. Networth of Promoters/Directors/Partners.
G. Current Activity.
H. Details of existing operations of the Parallel Marketeer and/or his group of companies.
I. Audited A/cs for three years of the promoter firm and group concerns with details of promoters constitution.
J. Working Capital requirement for new Business pertaining to Parallel Marketing with resume of proposed scheme.
K. Implementation record of typical projects already undertaken, in terms of cost, time, nature of projects and technology involved.
L. Business plans and projected cash flows.
M. Sourcing of funds for existing and proposed Business.
N. Performance of Parallel Marketeer in his other group companies for last three years with income tax clearance certificate.

2. Marketing Plans for Liquefied Petroleum Gas:

2.1 Infrastructure for Liquefied Petroleum Gas Sourcing/Handling:

A. Import Locations identified.
B. Proposed size of import parcels.
C. Status of approvals (ports/statutory/State Government/Chief Controller of Explosives/Environment/Milestone achieved with squared network-local authorities)
D. Status of Progress
E. Details of Technological tie ups, if any.
F. Business proposals/Project Feasibility report, Financial Details and Financial risk analysis.

2.2 Commercial arrangements and/or consortium for Liquefied Petroleum Gas (if own facilities are not planned):

A. Any tie up arrangement finalized with importer.
B. The supporting agreements/documents for such tie up.
C. The quantum of product to be imported with minimum guarantee.
D. Details of Storage & Handling of product at the import location/tie up agreement.
E. Fall back arrangement to meet the shortfall in case the tie up arrangement does not materialise.

3. Storage and Distribution arrangement for Liquefied Petroleum Gas planned:

A. Details of Storage facilities of Depots/Bottling plants with their capacities.
B. Status of progress on items mentioned above.
C. Plant & Equipment/Technological details.
D. Details of manpower and the arrangement to handle the product.
E. Details of designs and standards to be followed for construction and operation of these facilities.
F. Status of approvals for the facilities.
G. Details of arrangements for procurement of Cylinders/Valves/Regulators.
H. Whether the bottling plants are as per safety standards-Oil Industry Safety Directorate 144/169.

4. Arrangements planned to reach the product to consumption Centres/Markets:

A. Details of distributor network planned/already appointed.
B. Details of the basis for distributors appointment.
C. Details of showroom/sales room/office and godown planned/existing along with status of approvals.
D. Details of Distribution arrangement between the distributors godown and the consumer.

5. Product Familiarity Training and Provision for Safety:

A. Operational knowledge of product (Liquefied Petroleum Gas) and its handling.
B. The capability and preparedness to meet the safety requirement in Liquefied Petroleum Gas, its transportation and accident relief during transportation.
C. Plans for training the staff and the consumer on safe handling of equipment/product.
D. Recruitment policy and standards for the staff.
E. Familiarity with Gas Control Orders, Explosives Rules and other applicable local acts.
F. Details for arrangement for attending emergency complaints of consumers.

6. Marketing Discipline and Guidelines proposed to be adopted:

A. Code of conduct for distributors and delivery men.
B. System to monitor and control adulteration and unauthorised diversion of products.

7. Organization in place/proposed for the parallel marketing of Liquefied Petroleum Gas:

A. Details of Organizational Structure.
B. Level of managerial involvement of the promoter.
C. Source of financing the Liquefied Petroleum Gas parallel marketing including the infrastructure.
D. Any other relevant details which the parallel marketeer would like to provide.

8. Financial commitment—

A. Total estimated project cost.
B. Planned (phase-wise) resource mobilisation.
C. Resources arranged and investment made as on date....
D. Proof of A,B and C above

*Extra Sheets may be used, if required.

Date _____

Signature _____
M/s _____
(Parallel Marketeer)
Address _____

[F. No. P—17011/25/97—Mkt.]
NARESH NARAD, Addl. Secy.

GAZETTE OF INDIA (EXTRAORDINARY)
PART II, SECTION 3, SUB-SECTION (i)

MINISTRY OF PETROLEUM AND NATURAL GAS

ORDER

New Delhi, the 5-6-2000

GSR 518 (E) In exercise of the powers conferred by section 3 of the Essential Commodities Act, 1955 (Central Act 10 of 1955), the Central Government hereby makes the following order, namely:—

1. Short title, extent and commencement :

This order may be called The Naphtha (Acquisition, Sale, Storage and Prevention of use in Automobile) Order, 2000.

(a) It extends to the whole of India.

(b) It shall come into force on the date of its publication in the Official Gazette.

2. Definitions: In this order, unless the context otherwise requires;—

(a) "Automobile" means any vehicle registered with Road Transport Authority by any person where fuel certified for use in such automobile is Motor Spirit, High Speed Diesel, Liquified Petroleum Gas or Compressed Natural Gas;

(b) "Government oil company" means an oil refining company or oil marketing company which is also a government company as defined in Section 617 of Companies Act, 1956;

(c) "High Speed Diesel" means any hydrocarbon oil (excluding mineral colza oil and turpentine substitute) which meets the requirements of Bureau of Indian Standards specification No. IS-1460 and is suitable for use as fuel in Compression Ignition Engines;

(d) "Motor Spirit" means any hydrocarbon oil (excluding crude mineral oil) which meets the requirements of Bureau of Indian Standards specification No. IS-2796 and is suitable for use as fuel in Spark Ignition Engines;

(e) "Naphtha" is a light hydrocarbon liquid with 90% volume distillation, by ASTM D-86 distillation method, of 190 degrees Centigrade or less;

(f) "Oil Company" means any person, firm or company authorised by the Central Government who is engaged in the sale of Motor Spirit or High Speed Diesel to consumers or dealers.

3. Restriction on sale and use of Naphtha :

(i) No person shall either acquire, store and/or sell Naphtha, without a licence, issued by the State Government or District Magistrate or any other Officer authorised by the Central or State Governments.

(ii) No person shall either use or help in any manner the use of Naphtha except Motor Spirit, High Speed Diesel and/or any other fuel permitted by the Central Government, in any automobile.

(iii) No person shall either adulterate or help in any manner adulterating of Motor Spirit and High Speed Diesel with Naphtha.

(iv) Every person whosoever is engaged in sale or trading of Naphtha either imported or indigenous, for any purpose, whatsoever, shall file end-use certificates from consumers to whom he sells and also furnish customer-wise sales to the District Magistrate or the State Civil Supplies Authorities by whatever name called, on a quarterly basis.

(v) Every person whosoever is engaged in actual use of Naphtha either imported or indigenous for manufacture of any petrochemicals or any other purpose shall file end-use certificates to the District Magistrate or the State Civil Supplies Authorities by whatever name called, on a quarterly basis.

4. Power of Search and Seizure:

(1) Any Gazetted Officer of the Central or State Government or any Police Officer not below the rank of Deputy Superintendent of Police duly authorised, by general or special order by the Government or any officers of a Government Oil Company or any other Oil Company authorised by Central Government, not below the rank of Sales Officer may, with a view to securing compliance with the provisions of this Order, or for the purpose of satisfying himself that this order or any order made thereunder has been complied with,—

(a) Enter and search any place or premises being made use of or suspected to be made use of in the business of the dealer, transporter, consumer or any other person who is an employee or agent of such dealer/transporter/consumer with respect to which there is reason to believe that the provisions of this order have been/are being or are about to be contravened.

(b) Stop and search any person or vehicle or receptacle used or intended to be used for the movement of the product or using or receiving the product in contravention of this order.

(c) Inspect any book of accounts or other document or any stock of the product used or suspected to be used in the business of the dealer, transporter, consumer or any other person suspected to be an employee or agent of the dealer, transporter or consumer.

(d) Take samples of the product and/or seize any of the stocks of the product which the officer has reason to believe has been or is being or is about to be used in contravention of this order and hereafter take or authorise the taking of all measures necessary for securing the production of stocks/ items so seized before the Collector having jurisdiction under the provisions of the Essential Commodities Act, 1955 (10 of 1955) and for their safe custody pending such production.

(2) While exercising the power of seizure provided under clause 1(d) the authorised officer shall record in writing the reasons for doing so, a copy of which shall be given to the dealer, transporter, consumer or any other concerned person.

(3) The provisions of Section 100 of the Code of Criminal Procedure, 1973 (2 of 1974), relating to search and seizure shall, as far as may be, apply to searches and seizures under this Order.

5. **Sampling of Product :**

(1) The Officer authorised in Clause 4 shall draw the sample from the tank, nozzle, vehicle or receptacle as the case may be to check whether the provisions of this Order are being or likely to be contravened.

(2) The Officer authorised in Clause 4 shall take, sign and seal three samples of 750 ml. to 1 litre each of the product, one to be given to the concerned person under acknowledgement with instructions to preserve the sample in his safe custody till the testing/investigations are completed, the second sample to be kept by the concerned oil company or department and the third to be used for laboratory analysis.

(3) Samples shall be taken in clean glass or aluminium containers. Plastic containers shall not be used for drawing samples.

(4) The sample label should be jointly signed by the officer who has drawn the sample, and the concerned person or his representative and the label shall contain information as regards the product, place of seizure, quantity of sample, data, name and signature of the concerned person or his representative.

(5) The authorised officer shall send the third sample of the product taken under sub-clause (2), immediately or in any case within a period of 10 days, to any of the laboratories specified in Schedule III of the Motor Spirit and High Speed Diesel (Regulation of Supply and Distribution and Prevention of Malpractices) Order, 1998 for the purpose of analysis of samples to check the product.

6. Power of Central Government to issue directions :

The Central Government or a State Government with the approval of the Central Government may, from time to time, by a general or special order issue to any person such directions as it considers necessary regarding storage, sale, transportation and disposal and use of product and upon the issue of such directions, such person shall be bound to comply therewith.

7. Provision of the order to prevail over previous orders of State Government, etc. :

The provisions of this Order shall have effect notwithstanding anything to the contrary contained in any order may be a State Government or by an officer of such state Government before the commencement of this order except as respects anything done, or omitted to be done thereunder before such commencement.

(Naresh Narad)
Additional Secretary to the Government of India
File No. P.11013/1/2000-Dist.

THE GAZETTE OF INDIA
(EXTRAORDINARY)
PART II, SECTION 3, SUB-SECTION (i)
MINISTRY OF PETROLEUM AND NATURAL GAS

ORDER

New Delhi, the 5.6., 2000

GSR 519(E) In exercise of the powers conferred by section 3 of the Essential Commodities Act, 1955 (10 of 1955), the Central Government hereby makes the following order, namely :—

1. Short title, extent and commencement :—

(1) This Order may be called the Solvent, Raffinate and Slop (Acquisition, Sale, Storage and Prevention of use in Automobiles) Order, 2000.

(2) It extends to the whole of India.

(3) It shall come into force on the date of its publication in the Official Gazette.

2. Definitions.—IN this Order, unless the context otherwise requires:—

(a) "Automobile" means any vehicle registered with the Road Transport Authority by any person where fuel certified for use in such automobile is motor spirit, high speed diesel, liquified petroleum gas or compressed natural gas;

(b) "Government Oil Company" means an oil refining company or oil marketing company which is a Government company as defined in section 617 of the Companies Act, 1956 (1 of 1956);

(c) "high speed diesel" means any hydrocarbon oil (excludlng mineral colza oil and turpentine substitute) which meets the requirements of Bureau of Indian Standards, specification No. IS-1460 and is suitable for use as fuel in compression ignition engines;

(d) 'motor spirit" means any hydrocarbon oil (excluding crude mineral oil) which meets the requirements of Bureau of Indian Standards specification No. IS-2796 and is suitable for use as fuel in spark ignition engines;

(e) "oil company" means any person, firm or company engaged in sale of motor spirit and, or the high speed diesel to consumers and, or the dealers and authorised to do so by the Central Government;

(f) "other product" means a product other than solvent, raffinate or slop as defined hereunder and or their equivalent, having the power or ability to dissolve in motor spirit and, or the high speed diesel;

(g) "raffinate" means a lean solvent stream in liquid extraction process where solvent is used to separate two components in hydrocarbon mixture;

(h) "slop" means unfinished product stream generated in any industry during unstabilised period of plant operation;

(i) "solvent" means volatile fractions derived either directly or indirectly from petroleum or coal. These solvents can be single hydrocarbon components like propane, benzene, toluene, xylene etc. or narrow- or wide boiling ranges of hydrocarbon.

3. Restriction on sale and use of solvents, raffinates, slops and other product:—

(1) No person shall either acquire, store or sell solvents, raffinates, slops or their equivalent and other product, without a licence, issued by the State Government or the District Magistrate or any other Officer authorised by the Central or the State Government.

(2) No person shall either use or help in any manner the use of solvents, raffinates, slops or their equivalent or other product except motor spirit and high speed diesel, in any automobile :

Provided that nothing in this Order shall preclude the use of such products for research purposes on automobiles.

(3) Any perosn whosoever is engaged in the sale or trading of solvents, raffinates, slops or their equivalent and other product, either imported or indigenous, for any purpose, whatsoever, shall file end-use certificates

from consumers to whom he sells and furnish customer-wise sales to the District Magistrate or to the State Civil Supplies Authorities, on a quarterly basis.

(4) Any person whosoever is engaged in use of solvents, raffinates, slops or their equivalent and other product, either imported or indigenous, for manufacture of any petrochemicals or any other purpose, shall file end-use certificates to the District Magistrate or the State Civil Supplies Authorities, on a quarterly basis.

4. **Power of search and seizure:—**

(1) Any gazetted officer of the Central or the State Government or any police officer not below the rank of Deputy Superintendent of Police duly autorised, by general of special order by the Central or the State Government or any officer of a Government oil company or any other oil company authorised by the Central Government not below the rank of Sales Officer may with a view to securing compliance with the provisions of this Order, or for the purpose of satisfying himself that this Order or any order made thereunder has been complied with—

(a) enter and search any place or premises being used or suspected to be used in the business of the dealer, transporter, consumer or any other person who is an employee or agent of such dealer, transporter, consumer with respect to which there is reason to believe that the provisions of this Order have been or are being or are about to be contravened;

(b) stop and search any person or vehicle or receptacle used or intended to be used for the movement of the product or using or receiving the product in contravention of this Order.

(c) inspect any book of accounts or other document or any stock of the product used or suspected to be used in the business of the dealer, transporter, consumer or any other person suspected to be an employee or agent of the dealer, transporter or consumer;

(d) take samples of the product and seize any of the stocks of the product which the officer has reason to believe has been or is being or is about to be used in contravention of this Order and thereafter take or authorise the taking of all measures necessary for securing the production of stocks or items so seized before the Collector having jurisdiction under the provisions of the Essential Commodities Act, 1955 and for their safe custody pending such production.

(2) While exercising the power of seizure provided under sub-clause (d) of clause (1), the authorised officer shall record in writing the reasons for doing so, a copy of which shall be given to the dealer, trasporter, consumer or any other concerned person.

(3) The provisions of section 100 of the Code of Criminal Procedure, 1973 (2 of 1974), relating to search and seizure shall, as far as may be, apply to searches and seizures under this Order.

5. **Sampling of Product:—**

(1) The officer authorised in clause 4 shall draw the sample from the tank, nozzle, vehicle or receptacle, as the case may be, to check whether the provisions of this Order are being or likely to be contravened.

(2) The officer authorised in clause 4 shall take, sign and seal three samples of 750 ml to 1 litre each of the product, one to be given to the concerned person under acknowledgement with instructions to preserve the sample in his safe custody till the testing and investigations are complete, the second sample shall to be kept by the concerned oil company or Department and the third to be used for laboratory analysis.

(3) The samples shall be taken in clean glass or aluminium containers and no plastic containers shall be used for drawing samples.

(4) The sample label should be jointly signed by the officer who has drawn the sample, and the concerned person or his representative and the label shall contain information as regards the product, place of seizure, quantity of sample, data, name and signature of the concerned person or his representative.

(5) The authorised officer shall send the third sample of the product taken under sub-clause (2), within a period of ten days, to any of the laboratories specified in Schedule III of the Motor Spirit and High Speed Diesel (Regulation of Supply and Distribution and Prevention of Malpractices) Order, 1998 for the purpose of analysis of samples to check the product.

6. Power of Central and the State Government to issue directions:—

The Central Government of a State Government with the approval of the Central Government may, from time to time, by a general or special order issue to any person such directions as it considers necessary regarding storage, sale, transportation and disposal and use of product and upon the issue of such directions, such person shall be bound to comply therewith.

7. Provision of the Order to prevail over previous orders of State Government :—

The provisions of this Order shall have effect notwithstanding anything to the contrary contained in any order made by a State Government or by an officer of such State Government before the commencement of this Order except as respects anything done, or omitted to be done thereunder before such commencement.

(Naresh Narad)
Additional Secretary to the Government of India
File No. P-11013/4/98-Dist.

ORDER

New Delhi, the 30th June, 2000

G.S.R. 579(E).—In pursuance of sub-clauses (i) and (vi) of clause 3 of the Naphtha (Acquisition, Sale, Storage and Prevention of Use in Automobiles) Order, 2000, the Central Government hereby notifies the Form in which application for issue of Naphtha licence shall be made under the said Order, and the Format in which the licence shall be issued by the State Government or the District Magistrate or the officer authorised by the Central or the State Government, namely:—

APPLICATION FORM

(For issue of Licence for Naphtha under sub-clause(i) of clause 3 of the Naphtha (Acquisition, Sale, Storage and Prevention of Use in Automobiles) Order, 2000)

To,

The State Government or the District Magistrate or the officer authorised by the Central or the State Government.

1. Name of the applicant

2. Type of firm (strike out whichever is not applicable)

2a. Public Limited Company/Private Limited Company/Partnership firm/Proprietorship firm/Others

2b. Trader / Processor / Manufacturer / Consumer / Others

3. Addresses

3a. Registered office

3b. Storage point(s)

4. Names, addresses, telephone numbers of Directors / Partners / Proprietors(s)

Serial Number	Name	Office		Residence	
		Address	Telephone	Address	Telephone

5. Industry Registration / Licence Details

Registration / Licence Number	Date of issue	Valid up to	Issuing Authority

6. Sales Tax Registration Details

6a. State Sales Tax

Registration Number	Date of Issue	Valid upto	Issuing Authority

6b. Central Sales Tax

Registration Number	Date of Issue	Valid upto	Issuing Authority

7. Explosives Licence Details

Licence Number	Date of Issue	Valid up to	Storage capacity Licenced (in kilolitres)

8. Details of Storage

Location	Tank Number	Capacity (in kilolitres)

9. Use of Naphtha for which the licence is required

1 _____

2 _____

3 _____

.... _____

.... _____

10a. Quantity of Naphtha for which Licence is applied for
_____ (in Kilolitres)

10b. Material balance for which Naphtha is required

I. Process (attach details)

_____

_____

II. Material balance of each unit of Naphtha consumed

End Products	Production
Product A	.....%
Product B	.....%
.....	.....%
.....	.....%
Wastage	.....%
Total	100%

DECLARATION

Certified that the above information is true to the best of my knowledge and belief and the information as annexures and statements accompanying this application are correct, complete and truely stated and if any statement made herein is found to be incorrect, I shall be liable for action under the provisions of law.

Date _____ Signature : _____

Place _____ Name : _____

FORMAT IN WHICH THE LICENCE SHALL BE ISSUED BY THE STATE GOVERNMENTS / THE DISTRICT MAGISTRATE / UNION TERRITORY ADMINISTRATIONS / GOVERNMENT OF INDIA

(see clause 3(i))

1. Name of Trader / Processor / Manufacturer / Consumer / Others
(strike out whichever is not applicable)

2. Type of firm (strike out whichever is not applicable)
Public Limited Company/Private Limited Company/Partnership firm/Proprietorship firm/Others

3. Addresses

3a. Registered office

3b. Storage point(s)

4. Names, addresses, telephone numbers of Directors / Partners / Proprietor(s)

Serial Number	Name	Office		Residence	
		Address	Telephone	Address	Telephone

5. Industry Registration / Licence Details

Registration / Licence Number	Date of issue	Valid up to	Issuing Authority

6. Sales Tax Registration Details

6a. State Sales Tax

Registration / Licence Number	Date of issue	Valid up to	Issuing Authority

6b. Central Sales Tax

Registration Number	Date of Issue	Valid upto	Issuing Authority

7. Explosives Licence Details

Licence Number	Date of Issue	Valid up to	Storage capacity Licenced (in kilolitres)

8. Details of Storage

Location	Tank Number	Capacity (in kilolitres)

9. End Use of Naphtha for which the licence is granted

1 _____
2 _____
3 _____
.... _____
.... _____

10. Other conditions of the Licence

_____
_____
_____

11. Details of Naphtha Licence

Licence Number	Date of Issue	Valid up to*	Licenced Quantity per year (in kilolitres)

(*) Licence shall be issued for a period of one year and thereafter shall be renewed for two years on each occasion

Date _____
Place _____

Signature : _____
Name : _____
Designation : _____
Seal : _____

[F.No. P. 11013/1/2000-Dist.]
SHIV RAJ SINGH, Joint Secy.

Note : The principal Order was published in the Gazette of India *vide* number G.S.R. 518(E), dated the 5th June, 2000.

1.3 PROGRESS OF INDIAN PETROLEUM INDUSTRY 1947-48 to 2000-01

Year	Balance of recoverable Reserves@		Crude oil production	Natural gas Production	Refinery crude Th Put	Refinery production	Consumption of POL. Prods	Gross Imports		Net Imports		C.I.F. unit value of crude Imports	India's total Imports Exports		%age of gross POL Imports to India's Exports	Central excise & Customs duties on Pd. (Rs. Crore)	Index of Self Reliance
	Crude oil	Natural gas						Crude Pol.	POL Products	Crude & Pol. Qty.	Oil Products Value		Imports	Exports			
	(MMT)	(Bn/M3)	(MMT)	(BM3)	(MMT)	(MMT)	(MT)	(MMT)	Rs. Crore)	(MMT)	(Rs Crore)	(RsMT)	Rs. Crore...)				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1947-48	4	3	0.25	NA	0.25	0.23	2.72	-	2.36	NA	NA	NA	NA	NA	NA	NA	9
1950-51	4	2	0.26	NA	2.26	0.23	3.46	-	3.11	NA	NA	-	NA	NA	NA	NA	7
1960-61	45	22	0.45	NA	6.13	5.78	7.99	5.71	2.22	7.71	43	68	NA	NA	NA	NA	5
1970-71	128	62	6.82	1.4	18.38	17.11	17.91 (107)	11.68 (30)	1.09	12.43	132	92	1634	1535	8.9	638	36
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
1990-91	739	686	33.02	18.0	51.77	48.57	55.04	20.70 (6118)	8.66 (4660)	26.71	9775	2956	43193	32553	33.1	9179	56
1991-92	806	730	30.35	18.6	51.42	48.35	56.97	24.00 (7820)	9.44 (5218)	30.50	11824	3260	47851	44041	29.6	9337	50
1992-93	301	735	26.95	18.1	53.48	50.36	58.90	29.25 (1068)	11.28 (6360)	26.81	15439	3653	63375	53688	31.8	10322	43
1993-94	779	718	27.03	18.3	54.30	51.08	60.81	30.82 (10689)	12.08 (7041)	38.86	16221	3466	73101	69751	25.4	12223	41
1994-95	765	707	32.24	19.4	56.93	52.93	65.49	27.35 (10316)	13.95 (7522)	38.05	16250	3772	89971	82674	21.6	12905	46
1995-96	732	660	35.17	22.6	58.74	55.08	74.67	(27.34) (11517)	20.34 (12578)	44.24	22263	4212	122678	106353	22.7	15612	44
1996-97	727	640	32.90	23.3	62.87	59.01	79.17	33.91 (18538)	20.27 (15633)	51.01	32087	5409	138920	118817	28.8	21493	39
1997-98	747	692	33.86	26.4	65.17	61.31	84.29	34.93 (15872)	22.97 (14309)	55.08	28915	4602	154176	130101	23.2	20973	37
1998-99	716	675	32.72	27.4	68.54	64.55	90.56	39.81 (14917)	23.77 (12276)	62.86	26887	3747	178332	139752	19.5	21513	34
1999-00	660	648	31.95	28.4	85.96	79.41	97.09	57.81 (40028)	16.61 (14186)	73.67	53516	6925	215236	159561	34.0	32662	31
2000-01(P)	703	760	32.43	29.5	103.44	95.61	99.62	74.10 (65932)	9.27 (12093)	75.00	70353	8898	230873	203571	38.3	39526	30

NA-Not Available, (P) Provisional, @ As on 1st January of the initial year,

* Excluding RBF.

Source:-PSUs, OCC, DGCI &S Calcutta and Econimic Survey.

1.4 COMMODITY BALANCE OF CRUDE OIL AND PETROLEUM PRODUCTS

(Million Tonnes)

ITEM	1950-51+	1960-61+	1970-71+	1980-81	1990-91	1994-95	1995-96	1996-97	1997-98	1998-99	1990-00	2000-01*
I. Crude Oil												
1. Refinery Throughput	0.3	6.6	18.4	25.8	51.8	56.5	58.7	62.9	65.2	68.5	86.0	103.4
2. Domestic Production	0.3	0.5	6.8	10.5	33.0	32.2	35.2	32.9	33.9	32.7	31.9	32.4
a) On-shore	0.3	0.5	6.8	5.5	11.8	12.0	11.9	11.4	11.5	11.5	11.3	11.8
b) Off-shore	-	-	-	5.0	21.2	20.2	23.3	21.5	22.4	21.2	20.6	20.6
3. Imports	n.a.	6.0	11.7	16.2	20.7	27.3	27.3	33.9	34.5	39.8	45.0	74.1
4. Exports	-	-	-	-	-	-	-	-	-	-	-	-
5. Net Imports (3-4)	n.a.	6.0	11.7	16.2	20.7	27.3	27.3	33.9	34.5	39.8	45.0	74.1
II. Petroleum Products												
1. Domestic Consumption@ of which	3.3	7.7	17.9	30.9	55.0	67.5	74.8	79.2	84.3	90.6	97.1	99.6
a) Naphtha	-	-	0.9	2.3	3.4	3.4	3.7	4.0	4.7	6.7	8.0	8.1
b) Kerosene	0.9	2.0	3.3	4.2	8.4	9.0	9.3	9.6	9.9	10.6	10.7	10.7
c) High Speed Diesel Oil	0.2	1.2	3.8	10.3	21.1	28.3	32.3	35.0	36.1	37.2	39.3	37.9
d) Fuel Oils	0.9	1.7	4.7	7.5	9.0	9.9	10.7	10.8	11.0	11.3	11.6	11.4
2. Domestic Production of which	0.2	5.7	17.1	24.1	48.6	52.9	55.1	59.0	61.3	64.5	79.4	95.6
a) Naphtha	n.a.	-	1.2	2.1	4.9	5.7	6.0	6.1	6.1	6.1	8.2	9.9
b) Kerosene	n.a.	0.9	2.9	2.4	3.4	5.5	5.3	6.2	6.7	5.3	5.7	8.7
c) High Speed Diesel Oil	n.a.	1.1	3.8	7.4	17.2	19.6	20.7	22.2	23.4	26.7	34.8	39.0
d) Fuel Oils	n.a.	1.6	4.1	6.1	9.4	9.8	9.6	10.3	11.1	11.0	11.4	11.4
3. Imports	3.1	2.5	1.1	7.3	8.7	14.0	20.3	20.3	19.5	18.8	13.1	4.2
4. Exports @@	n.a.	n.a.	0.3	Neg.	2.7	3.3	3.4	3.2	2.9	1.4	0.9	1.0
5. Net Imports (3-4)	n.a.	n.a.	0.8	7.3	6.0	10.7	16.9	17.1	16.6	17.4	12.2	3.2

*: Provisional Source : Psus.

+: On a calender year basis.

@: Excluding refinery fuel consumption. Including import by private parties from 1994-95 onwards.

@@: Including supplies of POL products to Nepal but excluding exports of POL by private parties.

n.a.: not available.

Neg.: Negligible.

Note: Import data excludes import by PMS and private parties.

1.5a GROWTH OF PETROLEUM INDUSTRY IN INDIA
(Calendar year)

(000 Tonnes)

Year	Crude Oil		Petroleum Products	
	Production	Refineries	Production	Consumption
1	2	3	4	5
1960	451	6091	5747	7964
1965	3022	9754	9113	12356
1970	6809	18459	17172	18816
1980	9399	25075	23597	31633
1990	33311	51671	48402	57943
1991	31007	50954	47916	58462
1992	27874	54254	51041	62092
1993	26508	53509	50396	62836
1994	30969	56407	52872	64280
1995	35048	57971	54379	70269
1996	32986	61704	57869	76067
1997	33830	64533	60631	79464
1998	32806	66672	62809	82933
1999	32628	79538	73100	89973
2000	32124	101788	95186	90262

(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
1980	3038.66	1788.28	4826.94	—	17.98	17.98	4808.96
1990	5929.62	3541.64	9471.26	—	941.40	941.40	8529.86
1991	6827.57	5533.55	12361.12	—	1041.13	1041.13	11319.99
1992	10432.44	5711.16	16143.60	—	1658.33	1658.33	14485.27
1993	10916.90	7107.23	18024.13	—	1547.22	1547.22	16476.91
1994	9915.10	7438.77	17353.87	—	1580.74	1580.74	15773.13
1995	10856.71	10251.01	21107.72	—	1728.55	1728.55	19379.17
1996	17194.53	15454.63	32649.16	—	2050.49	2050.49	30598.67
1997	17061.19	14131.47	31192.66	—	1926.84	1926.84	30099.07
1998	14513.77	10408.47	24922.24	—	1093.59	1093.59	23828.65
1999	26341.48	10056.27	36397.75	—	827.04	827.04	35570.71
2000	65879.24	7749.82	73629.06	—	1057.80	1057.80	72571.26

(P) = Provisional
*Excluding Refinery Fuel.

1.5b GROWTH OF PETROLEUM INDUSTRY IN INDIA
(Financial year)

(000 Tonnes)

Year	Crude Oil		Petroleum Products	
	Production	Refineries	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
1974-75	7684	21094	19603	23302
1980-81	10507	25836	24123	32261
1984-85	28990	35556	33236	40828
1989-90	34037	51942	18690	46789
1990-91	33021	51772	48562	57745
1991-92	30346	51423	48349	59603
1992-93	26950	53482	50359	61655
1993-94	27026	54296	51084	63648
1994-95	32239	56534	52927	70650$
1995-96	35167	58741	55081	78069$
1996-97	32901	62870	59004	82658$
1997-98	33858	65166	61308	87804$
1998-99	32722	68538	64544	94282$
1999-00	31949	85964	79411	101834$
2000-01(p)	32426	103444	95614	106524$

(e) Estimated (P) Provisional $ Includes consumption by pvt. parties.

(Rs./Crores)

Year	Gross Imports			Exports/re-Export			Net pol
	Crude Oil	Products	Total	Crude Oil	Products	Total	Imports
	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
1974-75	916.99	195.00	1111.99	—	17.40	17.40	1094.93
1980-81	3448.97	1917.52	5266.49	—	8.41	8.41	5258.08
1984-85	3430.34	1914.91	5345.25	1563.16	255.03	1818.19	3537.06
1989-90	4089.35	2254.71	6344.06	—	695.56	695.56	5648.50
1990-91	6118.42	4660.21	10778.63	—	1003.92	1003.92	9774.71
1991-92	7820.05	5218.27	13038.32	—	1214.65	1214.65	11823.67
1992-93	10685.86	6359.60	17045.46	—	1606.28	1606.28	15439.18
1993-94	10688.52	7041.43	17729.95	—	1508.81	1508.81	16221.14
1994-95	10316.03	7521.71	17837.74	—	1587.38	1587.38	16250.36
1995-96	11517.00	12577.85	24094.95	—	1831.99	1831.99	22262.92
1996-97	18538.19	15633.49	34171.68	—	2079.65	2079.65	32092.03
1997-98	15872	14309	30181	—	1266	1266	28915
1998-99	14917	12276	27193	—	306	306	26887
1999-00	40028	14186	54214	—	698	698	53516
2000-01(p)	65932	12093	78025	—	7672	7672	70353

(P) = Provisional

1.6 (a) PETROLEUM ENERGY IN INDIA 1990 to 2000 (CALENDAR YEARS)

AVAILABILITY

Products	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
1	2	3	4	5	6	7	8	9	10	11	12
IN ORIGINAL UNITS (MILLION TONNES)											
KEROSENE	8.64	8.90	8.58	8.97	9.59	10.24	10.28	10.16	11.45	10.50	10.24
ATF	1.74	1.68	1.61	1.68	1.99	2.15	2.34	2.19	2.26	2.17	2.52
HSD	20.90	22.68	24.59	25.75	28.08	31.18	35.46	37.32	36.77	38.46	37.25
LDO	1.53	1.50	1.51	1.41.	1.42	1.36	1.29	1.24	1.33	1.50	1.65
FUEL OILS	9.31	9.42	9.01	9.80	6.34	6.34	6.65	6.89	6.99	7.37	12.43
OTHERS*	8.66	8.70	9.29	9.67	9.22	10.96	12.05	13.90	16.54	14.38	14.68
TOTAL	**50.78**	**52.88**	**54.59**	**57.28**	**56.64**	**62.23**	**68.07**	**71.70**	**75.34**	**74.38**	**78.77**
MILLION TONNES OF COAL EQUIVALENT UNIT@											
KEROSENE	17.28	17.80	17.16	17.90	19.18	20.48	20.56	20.32	22.90	21.00	20.48
ATF	3.48	3.36	3.22	3.33	3.98	4.30	4.68	4.38	4.52	4.34	5.04
HSD	41.80	45.36	49.18	51.48	56.16	62.36	70.92	74.64	73.54	76.92	74.50
LDO	3.06	3.00	3.02	2.82	2.84	2.72	2.58	2.48	2.66	3.00	3.30
FUEL OILS	18.62	18.84	18.84	18.16	19.60	12.68	13.30	13.78	13.98	14.74	24.86
OTHERS*	17.32	17.40	18.58	19.34	18.44	21.92	24.10	27.90	33.08	28.76	29.36
TOTAL	**101.56**	**106.76**	**110.00**	**113.03**	**120.20**	**124.46**	**136.14**	**143.40**	**150.68**	**148.76**	**157.54**
IN MILLION TONNES OF COAL REPLACEMENT UNIT@											
KEROSENE	69.12	71.20	68.64	71.76	76.72	81.92	82.24	81.28	91.60	84.00	81.92
ATF	13.05	12.60	12.08	12.60	14.93	16.12	17.55	16.43	16.95	16.28	18.90
HSD	188.10	204.12	221.31	231.66	247.10	280.62	319.14	335.08	330.93	346.14	335.25
LDO	13.17	13.50	13.59	12.69	12.78	12.24	11.61	11.16	11.97	13.50	14.85
FUEL OILS	18.62	18.84	18.84	18.11	19.60	12.66	13.30	13.78	13.98	14.74	24.86
OTHERS*	51.30	52.15	53.46	55.58	55.32	54.78	64.47	74.37	88.49	77.65	85.87
TOTAL	**353.98**	**372.41**	**387.92**	**402.70**	**426.45**	**458.34**	**508.31**	**532.90**	**553.92**	**552.31**	**561.65**

CONSUMPTION(#)

Products	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
IN ORIGINAL UNITS (MILLION TONNES)											
KEROSENE	8.42	8.41	8.57	8.62	8.93	9.28	9.63	9.74	10.46	10.72	10.70
ATF	1.73	1.56	1.56	1.66	1.87	2.01	2.17	2.11	2.10	2.15	2.24
HSD	21.18	21.98	24.40	25.32	27.62	30.90	34.28	36.40	36.62	39.29	38.31
LDO	1.51	1.43	1.47	1.34	1.40	1.32	1.23	1.21	1.27	1.46	1.46
FUEL OILS	9.10	8.95	9.38	9.09	9.73	10.44	10.78	10.92	11.14	11.65	11.25
OTHERS*	8.68	8.77	9.23	9.67	10.48	11.46	12.49	13.08	13.89	16.29	19.89
TOTAL	**50.62**	**51.10**	**54.61**	**55.72**	**60.03**	**65.41**	**70.58**	**73.46**	**75.48**	**81.56**	**83.85**
IN MILLION TONNES OF COAL EQUIVALENT UNITS@											
KEROSENE	16.84	16.82	17.14	17.24	17.86	18.56	19.26	12.48	20.22	21.44	21.40
ATF	3.46	3.12	3.12	3.36	3.74	4.02	4.34	4.22	4.20	4.30	4.47
HSD	42.36	43.96	48.80	50.64	55.24	61.84	68.56	72.80	73.24	78.58	76.62
LDO	3.02	2.89	2.94	2.68	2.80	2.64	2.40	2.42	2.54	2.92	2.92
FUEL OILS	18.20	17.90	18.76	18.18	19.46	20.88	21.56	21.84	22.28	23.30	22.51
OTHERS*	17.36	17.54	18.46	19.34	20.96	22.96	24.99	26.16	27.78	32.58	39.78
TOTAL	**101.24**	**102.20**	**109.22**	**111.44**	**120.06**	**130.90**	**141.11**	**146.92**	**150.96**	**163.12**	**167.70**
IN MILLION TONNES OF COAL REPLACEMENT UNIT@											
KEROSENE	67.36	67.26	68.58	68.96	71.44	74.24	77.09	77.92	83.68	85.76	85.59
ATF	12.98	11.70	11.72	12.60	14.03	15.08	16.28	15.83	15.75	16.13	16.77
HSD	190.62	197.82	219.56	227.88	245.82	278.10	308.52	327.60	329.58	353.61	344.79
LDO	13.59	12.87	13.18	12.09	12.60	11.88	11.07	10.89	11.43	13.14	13.14
FUEL OILS	18.20	17.90	18.76	18.18	19.46	20.88	21.56	21.84	22.28	23.30	22.51
OTHERS*	51.45	52.64	55.31	58.25	62.88	61.31	66.82	69.98	74.31	87.97	114.77
TOTAL	**354.20**	**359.99**	**387.11**	**397.96**	**426.23**	**461.49**	**501.34**	**524.06**	**537.03**	**579.91**	**597.57**

(P) = Provisional * Includes LPG, Gasoline, Refinery Gas and Refinery Fuel.

@ Based on conversion factors adopted by FPC, 1974.

(#) Includes Petroleum Products used for power generation.

1.6 (b) PETROLEUM ENERGY IN INDIA 1990-91 TO 2000-01 (FINANCIAL YEARS)

AVAILABILITY

Products	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01(P)
1	2	3	4	5	6	7	8	9	10	11	12
IN ORIGINAL UNITS (MILLION TONNES)											
KEROSENE	8.81	8.81	8.56	9.10	9.36	10.27	10.52	10.51	11.16	10.96	10.63
ATF	1.83	1.56	1.62	1.76	2.02	2.22	2.27	2.20	2.29	2.25	2.51
HSD	21.87	22.73	25.30	26.21	28.05	33.51	35.81	37.43	37.20	39.92	37.42
LDO	1.51	1.48	1.45	1.47	1.36	1.35	1.29	1.25	1.34	1.62	1.48
FUEL OILS	9.43	9.64	9.40	9.02	10.06	10.79	10.99	12.15	14.20	7.48	12.61
OTHERS*	8.75	8.75	9.33	9.76	9.26	10.60	11.02	13.15	15.70	15.57	15.89
TOTAL	**52.20**	**52.87**	**55.66**	**57.32.**	**60.11**	**68.74**	**71.90**	**76.69**	**81.89**	**77.80**	**80.54**
IN MILLION TONNES OF COAL EQUIVALENT UNIT@											
KEROSENE	17.62	17.42	17.12	18.20	18.72	20.54	21.04	21.02	22.32	21.92	21.26
ATF	3.66	3.12	3.24	3.52	4.04	4.44	4.54	4.40	4.58	4.50	5.02
HSD	43.74	45.46	50.60	52.42	56.10	67.02	71.62	74.86	74.40	79.84	74.84
LDO	3.02	2.96	2.95	2.94	2.72	2.70	2.58	2.50	2.68	3.24	2.96
FUEL OILS	18.86	19.29	18.80	19.52	20.12	21.58	21.98	24.30	28.40	14.96	25.22
OTHERS*	17.50	17.50	18.86	18.04	18.52	21.20	22.04	26.30	31.40	31.14	31.78
TOTAL	104.40	105.74	111.57	114.64	120.22	137.48	143.80	153.38	163.78	155.60	161.08
IN MILLION TONNES OF COAL REPLACEMENT UNIT@											
KEROSENE	70.48	69.68	68.48	72.80	74.88	82.16	84.16	84.08	89.28	87.68	85.04
ATF	13.72	11.70	12.15	13.20	15.15	16.65	17.03	16.50	17.18	16.88	18.83
HSD	196.83	204.57	227.70	235.89	246.84	301.59	322.29	336.87	334.80	359.28	336.70
LDO	13.59	13.32	13.05	13.23	12.24	12.15	11.61	11.25	12.06	14.58	10.36
FUEL OILS	18.86	19.28	18.80	18.04	20.12	10.79	21.98	23.40	28.40	14.96	25.22
OTHERS*	51.93	52.54	53.90	56.09	55.56	56.71	58.96	70.35	84.00	84.08	76.73
TOTAL	**365.41**	**371.09**	**394.08**	**409.25**	**424.79**	**480.05**	**516.03**	**543.35**	**565.72**	**574.58**	**552.88**

CONSUMPTION

Products	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01(P)
1	2	3	4	5	6	7	8	9	10	11	12
IN ORIGINAL UNITS (MILLION TONNES)											
KEROSENE	8.42	8.38	8.48	8.70	8.96	9.32	9.65	9.88	10.58	10.73	10.71
ATF	1.68	1.56	1.57	1.74	1.90	2.08	2.15	2.11	2.10	2.20.	2.25
HSD	21.14	22.68	24.29	25.88	28.26	32.25	35.02	36.07	36.89	39.29	37.94
LDO	1.51	1.46	1.41	1.37	1.37	1.31	1.23	1.24	1.26	1.51	1.40
FUEL OILS	8.99	9.20	9.27	9.19	9.89	10.69	10.85	10.97	11.01	11.58	11.36
OTHERS*	8.68	8.85	9.21	9.79	10.41	11.77	12.63	13.27	14.24	17.48	20.13
TOTAL	**50.42**	**52.13**	**54.23**	**56.67**	**60.79**	**67.42**	**71.53**	**73.54**	**76.08**	**82.79**	**83.79**
IN MILLION TONNES OF COAL EQUIVALENT UNIT@											
KEROSENE	16.84	17.76	16.96	17.40	17.92	18.64	19.30	19.76	21.16	21.46	21.42
ATF	3.36	3.12	3.14	3.48	3.80	4.16	4.30	4.22	4.20	4.40	4.50
HSD	42.28	45.36	48.58	51.76	56.52	64.50	70.04	72.14	73.78	78.58	75.88
LDO	3.02	2.92	2.82	2.74	2.74	2.62	2.46	2.48	2.52	3.02	2.80
FUEL OILS	17.98	18.40	18.54	18.38	19.78	21.38	21.70	21.94	22.02	23.16	22.72
OTHERS*	17.36	17.70	18.42	19.58	20.82	23.54	25.26	26.54	28.48	34.96	40.26
TOTAL	**100.84**	**104.26**	**108.46**	**113.34**	**121.58**	**134.84**	**143.06**	**147.08**	**152.16**	**165.58**	**167.58**
IN MILLION TONNES OF COAL REPLACEMENT UNIT@											
KEROSENE	67.36	67.04	67.84	69.60	71.68	74.56	77.20	79.04	84.69	85.84	85.68
ATF	12.60	11.70	11.78	13.05	14.25	15.60	16.13	15.83	15.75	16.50	16.88
HSD	190.26	204.12	218.61	232.92	248.69	290.25	315.18	324.63	332.01	353.61	341.46
LDO	13.59	13.14	12.69	12.33	12.33	11.79	11.07	11.16	11.34	13.59	10.48
FUELOILS	17.98	18.40	18.54	18.38	19.78	21.38	21.70	21.94	22.02	23.16	22.72
OTHERS*	51.41	53.26	55.40	59.33	62.46	70.62	75.62	79.62	85.44	94.S9	76.63
TOTAL	253.20	267.66	384.86	405.61	429.19	484.22	516.90	532.22	551.20	587.09	553.85

(P) = Provisional * Includes LPG. Gasoline. Refinery Gas and Refinery Fuel.

@ Based on conversion factors adopted by FPC. 1974.

(#) Includes Petroleum Products used for power generation.

II. EXPLORATION

II. 1 AREA WISE DEPLOYMENT OF DEEP DRILLING RIGS, WELLS & METREAGE DRILLED BY ONGC & OIL FROM 1970-71 TO 2000-01

Year	ONHORE			OFFSHORE			TOTAL		
	Rigs	Wells (Nos.)	Metreage ('000')	Rigs	Wells (Nos.)	Metreage ('000')	Rigs	Wells (Nos.)	Metreage ('000')
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
				(A) OIL & NATURAL GAS COMMISSION / CORPORATION LTD.					
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
1984-85	53	127	280	13	73	161	66	200	441
1989-90	115	491	971	33	134	353	148	625	1324
1990-91	108	369	777	32	139	276	140	508	1053
1991-92	110	343	745	25	83	208	135	426	953
1992-93	109	349	755	28	100	251	137	449	1006
1993-94	103	330	777	25	162	360	128	492	1137
1994-95	98	324	778	24	89	204	122	413	982
1995-96	91	328	728	21	79	163	112	407	891
1996-97	79	301	657	23	45	128	102	346	785
1997-98	76	230	512	17	58	133	93	288	645
1998-99	71	215	443	22	59	145	93	274	588
1999-00	74	228	522	20	63	146	95	291	668
2000-01*	75	237	558	18	52	116	93	289	674
				(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
1984-85	7	25	86	1	2	10	8	27	96
1989-90	15	28	130	—	—	—	15	28	130
1990-91	13	27	112	—	—	—	13	27	112
1991-92	14	26	110	—	—	—	14	26	110
1992-93	15	19	99	—	—	—	15	19	99
1993-94	15	22	106	—	—	—	15	22	106
1994-95	14	19	88	—	—	—	14	19	88
1995-96	15	20	78	1	1	5	16	21	83
1996-97	15	24	102	—	1	3	16	25	105
1997-98	16	19	110	—	—	—	16	19	110
1998-99	16	19	97	—	—	—	16	19	97
1999-00	16	16	90	—	—	—	16	16	90
2000-01*	16	25	89	—	—	—	16	25	89
				TOTAL (A+B)					
1970-71	35	101	216	1	—	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
1984-85	60	152	366	14	75	171	74	227	537
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	1163
1992-93	124	368	854	28	100	251	152	468	1105
1993-94	118	352	883	25	162	360	143	514	1243
1994-95	12	343	866	24	89	204	136	432	1070
1995-96	106	348	806	22	80	168	128	428	974
1996-97	94	325	759	24	46	131	118	371	890
1997-98	92	249	622	17	58	133	109	307	755
1998-99	87	234	540	22	59	145	109	293	685
1999-00	90	244	612	21	63	146	111	307	758
2000-01*	91	262	647	18	52	116	109	314	763

*Provisional

Source : Psus.

II. 2 EXPLORATORY & DEVELOPMENT DRILLING BY ONGC & OIL

Year	Exploratory		Development		Total	
	Wells (Nos.)	Metreage ('000')	Wells ('000')	Metreage ('000')	Wells (Nos.)	Metreage ('000')
(1)	(2)	(3)	(4)	(5)	(6)	(7)
			(A) ON SHORE			
1970-71	51+1P	106	50+3P	112	101+3P	218
1975-76	49+1P	120	68+1P	145	117+2P	265
1980-81	44+1P	96	38+2P	71	82+3p	167
1984-85	70+5P	186	82+1P	180	152+6P	366
1989-90	204	508	315	593	519	1101
1990-91	176	434	220	455	396	889
1991-92	176	454	193	401	369	855
1992-93	172	413	196	441	368	854
1993-94	147	374	205	509	352	883
1994-95	162	428	181	438	343	866
1995-96	177	427	171	334	348	761
1996-97	171	407	156	355	327	762
1997-98	114	297	135	326	249	623
1998-99	110	273	124	267	234	540
1999-00	123	337	121	275	244	612
2000-01	124	331	132	316	256	647
			(B) OFFSHORE			
1970-71	—	1	—	—	—	1
1975-76	10	19	5	9	15	28
1980-81	15+1P	40	18	42	33+1P	82
1984-85	20+1P	62	51	109	71+1P	171
1989-90	61	160	73	193	134	353
1990-91	73	184	66	92	139	276
1991-92	61	167	22	41	83	208
1992-93	69	176	31	75	100	251
1993-94	33	96	129	264	162	360
1994-95	48	116	41	88	89	204
1995-96	27	77	52	86	79	163
1996-97	28	80	18	48	46	128
1997-98	20	50	38	82	58	132
1998-99	25	60	34	85	58	145
1999-00	28	87	35	59	63	146
2000-01	30	68	22	48	52	116
			(B) OFFSHORE			
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
1984-85	90+6P	248	133+1P	289	223+7P	537
1989-90	265	668	388	786	653	1454
1990-91	249	618	286	547	535	1165
1991-92	237	621	215	442	452	1063
1992-93	241	589	227	516	468	1105
1993-94	180	470	334	773	514	1243
1994-95	210	544	222	525	432	1070
1995-96	204	504	223	470	427	924
1996-97	199	487	174	403	373	890
1997-98	334	347	173	408	307	755
1998-99	135	333	158	352	293	685
1999-00	151	424	156	334	307	758
2000-01*	154	399	154	364	308	763

(P): Partly Drilled. *Provisional Source: Psus.

II. 3 STATUS OF WELLS
(As on 1st April of each Year)

(NUMBERS)

Company YEAR	OIL	GAS	DRY	UNDER TEST	INJEC-TION	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
1985	438	4	305	7	7	247	1001
1990	253	1	305	—	7	435	1001
1991	227	1	305	—	6	462	1001
1992	226	1	305	—	5	464	1001
1993	227	1	305	—	6	462	1001
1994	214	1	305	—	6	475	1001
1995	209	1	305	—	6	480	1001
1996	167	1	305	—	2	526	1001
1997	154	1	305	—	—	541	1001
1998	693	—	305	—	—	3	1001
1999	693	—	305	—	—	3	1001
2000	693	—	305	—	—	3	1001
2001*	693	—	305	—	—	3	1001
			(B) OIL INDIA LIMITED				
1975	250	18	34	27	20	—	349
1980	273	26	40	48	34	—	421
1985	321	42	49	35	50	31	528
1990	422	53	66	36	62	70	709
1991	362	59	70	51	44	161	747
1992	365	58	74	68	43	172	780
1993	397	56	81	64	45	166	809
1994	408	58	85	83	49	158	841
1995	418	69	92	79	46	160	864
1996	430	81	98	73	46	164	892
1997	424	90	96	62	48	202	922
1998	642	97	97	—	50	54	940
1999	654	100	100	—	50	60	965
2000	695	100	107	—	47	54	1003
2001*	719	104	109	—	46	54	1032
			(C) OIL & NATURAL GAS CORPORATION LTD.				
1975	605	79	320	141	28	—	1173
1980	951	123	487	125	32	—	1718
1985	1434	170	659	216	67	—	2546
1990	2579	302	1128	69	198	303	4579
1991	2873	330	1281	128	235	94	5087
1992	3007	324	1436	132	337	400	5636
1993	3138	355	1573	148	387	457	6058
1994	3392	380	1702	121	387	554	6636
1995	3488	410	1797	135	534	535	6899
1996	3592	423	1813	120	544	607	7099
1997	3771	447	1924	94	570	643	7449
1998	3841	488	2090	67	628	627	7741
1999	3799	522	2145	59	634	857	8016
2000	3939	548	2178	75	659	906	8305
2001*	4072	552	2266	68	690	940	8588
			(TOTAL) (A+B+C)				
1975	1282	104	354	168	53	612	2523
1980	1641	159	527	173	72	568	3140
1985	2186	216	1011	258	124	278	4073
1990	3254	356	1499	105	267	808	6289
1991	3462	390	1656	325	285	717	6835
1992	3598	383	1816	200	385	1036	7417
1993	3762	412	1959	212	438	1085	7838
1994	4014	439	2092	204	542	1187	8478
1995	4115	480	2194	214	737	1175	8764
1996	4189	505	2216	193	592	1297	8992
1997	4349	538	2325	156	618	1386	9372
1998	5176	585	2492	67	678	684	9682
1999	5146	622	2551	59	684	920	9982
2000	5327	648	2590	75	706	963	10309
2001*	5484	656	2680	68	736	997	10621

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

II. 4 STATEWISE GEOLOGICAL SURVEYS ACHIEVEMENTS UPTO 31.3.2001

(Sq. Km.)

States	Geological Surveys
1	2
Andhra Pradesh	53427
A.N. Island	6860
Arunachal Pradesh	3692
Assam	49249
Bihar	4035
Gujarat (Gulf of Cambay)	60625
Haryana	covered
Himachal Pradesh	9946
Jammu & Kashmir	22970
Kerala-Karnataka (incl. Goa)	4000
Madhya Pradesh	44451
Manipur	2781
Maharashtra	—
Meghalaya	1911
Mizoram	6134
Nagaland	6971
Orissa	—
Punjab	covered
Rajasthan	44691
Sikkim	720
Tamil Nadu (incl. Pondicherry)	20003
Tripura	21263
Uttar Pradesh	29797
West Bengal	8806

Source: ONGC and OIL

II. 5 STATEWISE ACHIEVEMENTS OF GEOPHYSICAL FIELD PARTIES IN INDIA SINCE INCEPTION UPTO 31.3.2001

Area/State	Departmental			Contract
	2D		3D	2D
	SLK	GLK	SQK	GLK
1	2	3	4	5
	OIL INDIA LTD.			
(A) ONSHORE				
Assam	34220	2978	1233	2213
Arunachal Pradesh	1689	34	0	495
Rajasthan	0	0	300	11923
Orissa	0	0	0	3814
Ganga Valley (U.P.)	0	0	0	5007
Total(A)	**35909**	**3012**	**1533**	**23452**
(B) OFFSHORE	**LK**			
Orissa	13842			
Andaman	201			
Saurashtra	8767			
Total(B)	**22810**			

OIL & NATURAL GAS CORPORATION LTD.

	2D	3D	
	GLK	GLK	SK
(A) ONSHORE			
Andhra Pradesh	35628	13466	1095
Assam	29340	12942	1223
Bihar	6566	0	0
Gujrat	100568	42348	2142
Himachal Pradesh	3334	0	0
Haryana	1038	0	0
Jammu & Kashmir	2563	0	0
Madhya Pradesh	9141	0	0
Mizoram	35	0	0
Nagaland	558	0	0
Meghalaya	148	0	0
Orissa	313	0	0
Punjab	4078	0	0
Rajasthan	20489	0	0
Tamil Nadu	38772	13807	1033
Tripura	4516	0	0
Uttar Pradesh (Ganga Valley)	28320	0	0
West Bengal	29243	4217	210
Total Onshore	**314650**	**86780**	**5703**
(B) OFFSHORE	**2D (LK)**	**3D (LK)**	
West Coast	318955	142002	
East Coast	53012	10957	
Total Offshore	**371967**	**152959**	

Note: In addition to above, a total of 39494 GLK of 2D and 67Sq. Km of 3D data in onland area and 157607 LK of 2D and 412778 LK of 3D data in offshore area has been acquired on contractual basis since inception upto 31.3.2001.

GLK: Ground Line Kilometre. LK: Line Kilometre SLK: Standard Line Kilometre.

SQK: Square Kilometre. Source: OIL/ONGC.

11.6 BASINWISE/STATEWISE ACHEIVEMENT OF DRILLING SINCE INCEPTION UPTO 31.3.2001

BASIN	STATE/REGION	1990-00		2000-01	
		Wells Numbers	Metreage ('000')	Wells Numbers	Metreage ('000')
(1)	(2)	(3)	(4)	(5)	(6)
A. Onshore					
Cambay	Gujarat	4558	7915	4709	8200
Rajasthan	Rajasthan	112	224	116	227
Kutch-Saurashtra	Madhya Pradesh	3	12	3	12
Gulf of Cambay	Gulf of Cambay	4	8	4	8
	Total WRBC	**4677**	**8159**	**4832**	**8447**
Upper Assam	Assam (Including Nagaland & Meghalaya)	2099	6998	2157	7216
Assam-Arakan Fold Belt	Arunachal Pradesh	56	137	56	137
	Mizoram under ERBC	1	3	1	3
	Total ERBC	**2156**	**7138**	**2214**	**7356**
Assam-Arakan Foot hills & Ganga Valley	Tripura	94	265	97	274
	West Bengal	30	121	30	122
	Bihar	6	30	6	30
	Orissa	4	9	4	9
	Mizoram under CRBC	1	3	1	3
	Total CRBC	**135**	**428**	**138**	**438**
Himalayan Foot-hills, Ganga Valley & Vindhyan/Gondwana	Himachal Pradesh	10	38	10	39
	Punjab	4	16	4	16
	Uttar Pradesh	8	28	8	27
	Madhya Pradesh under NRBC	1	3	1	4
	Jammu & Kashmir	4	12	4	12
	Total NRBC	**27**	**97**	**27**	**98**
Krishna-Godavari	Andhra Pradesh	287	884	312	954
Cauvery	Tamil Nadu	348	898	373	952
	Total SBRC	**635**	**1779**	**685**	**1906**
Total Onshore		**7630**	**17601**	**7896**	**18245**
B. Offshore					
East Coast	East Coast including KG, Cauvery Andaman Offshore and Bengal Offshore	174	562	165	523
West Coast	West Coast including drilling in deep water, Kerala-Konkan and Kutch-Saurashtra	1672	3813	1733	3968
B. Total Offshore		**1846**	**4375**	**1898**	**4491**
Total (A+B)		**9476**	**21976**	**9794**	**22736**

Source: PSU' and Pvt. Cos.

II. 7 STATE-WISE/BASIN/WISE OIL AND GAS FIELDS IN INDIA AS ON 1.4.2001

(Number)

COMPANY/STATE	BASIN	TOTAL FIELDS	OIL FIELDS	GAS FIELDS	OIL and GAS FIELDS
(1)	(2)	(3)	(4)	(5)	(6)
OIL & NATURAL GAS CORPN. LTD.					
ONSHORE					
Gujarat	Cambay	88	51	9	28
Assam	Upper Assam	24	18	1	5
Nagaland	AAFB	11	2	9	0
Rajasthan	Jaisalmer	6	0	6	0
Andhra Pradesh	K.G. Basin	39	5	31	3
Tamil Nadu	Cauvery	25	7	9	9
Tripura	AAFB	6	0	6	0
OFFSHORE					
East Coast	Andaman	1	0	1	0
	K.G. Basin	9	1	3	5
	Cauvery	3	2	0	1
West Coast	Mumbai	82	21	28	33
	Cambay	2	2	0	0
	Kutch	4	1	3	0
OIL INDIA LTD.					
Assam	Upper Assam	8	0	0	8
Arunachal Pradesh	Upper Assam	2	0	0	2
Rajasthan	Jaisalmer	3	0	3	0
	Bikaner Nagaur	1	1	0	0
PRIVATE/JVCs					
ONSHORE					
Gujarat	Cambay	15	9	6	0
Arunachal Pradesh	AAFB	2	1	1	0
OFFSHORE					
East Coast	K. Godavari	4	2	2	0
West Coast	Cauvery	4	2	2	0
TOTAL		339	125	120	94

AAFB: Assam Arakan Fold Belt

Source: ONGC, OIL and DGH

III. CRUDE OIL

III. 1. RESERVES @ OF CRUDE OIL IN INDIA

(Million Tonnes)

Year	Gujarat	Assam(1)	Andhra Pradesh	Tamil Nadu	Western (2) Offshore	Eastern(3) Offshore	Grand Total
1	2	3	4	5	6	7	8
1996	62.73	90.27	—	—	—	—	153.00
1970	56.38	71.46	—	—	—	—	127.84
1975	45.72	84.41	—	—	13.77	—	143.90
1980	52.73	82.45	—	—	230.95	—	366.13
1985	86.61	101.80	—	—	311.10	—	499.51
1990	161.69	144.97	—	—	432.14	—	738.80
1995	154.60	150.01	1.38	3.63	414.30	7.79	731.71
1996	154.27	146.29	1.54	4.31	419.85	2.42	728.68
1997	151.70	150.71	1.66	4.47	436.11	2.42	747.07
1998	150.21	154.05	2.04	4.79	404.20	1.08	716.37
1999	146.36	154.14	2.79	5.03	339.00	13.00	660.32
2000	147.90	159.79	3.13	5.76	349.88	36.05	702.51
2001	145.10	163.86	3.68	5.78	353.89	53.91	732.22

@ : Proved and indicated Balance Recoverable Reserves.

(1) Includes Nagaland, Tripura and Arunachal Pradesh reserves of crude oil and natural gas.

(2) : Includes Bombay High offshore and JVC.

(3) : Includes JVC\Pvt. Parties.

(4) : Source ONGC\Oil and DGH.

III. 2 COMPANY-WISE PRODUCTION OF CRUDE OIL IN INDIA (CALENDER YEARS)

('000 Tonnes)

Year	On Shore					Off Shore		Grand	Cumulative
	AOC	OIL	JVC	ONGC	Total	ONGC	JVC	Total	Production
1	2	3	4	5	6	7	8	9	10
1950	259	—	—	—	259	—	—	259	6598
1955	272	75	—	—	347	—	—	347	8057
1960	179	272	—	—	451	—	—	451	10234
1965	158	1742	—	1122	3022	—	—	3022	18711
1970	107	3074	—	3632	6813	—	—	6813	48410
1975	68	3087	—	5128	8283	—	—	8283	85939
1980	41	796	—	4033	4870	4529	—	9399	138292
1985	—	2635	—	6580	9215	20645	—	29860	255892
1990	—	2697	—	9294	11991	21320	—	33311	415767
1991	—	2580	—	9033	11613	19394	—	31007	446774
1992	—	2486	—	8779	11265	16609	—	27874	747648
1993	—	2738	—	8688	11426	15082	—	26508	501156
1994	—	2898	—	9107	12005	18900	64	30969	532125
1995	—	2867	17	9050	11934	22656	458	35048	567173
1996	—	2858	36	8641	11535	20526	925	32986	600159
1997	—	3040	40	8388	11468	20088	2274	33830	633989
1998	—	3246	66	8215	11527	18605	2674	32806	666795
1999	—	3298	95	7878	11271	17378	3979	32628	699423
2000	—	3269	81	8320	11670	16474	3980	32124	731547

(a) = Following the take over of AOC by Govt. in Oct. 1981, the production figures shown under AOC are upto 14th October 1981, thereafter the same have been merged with OIL

III. 3 COMPANY-WISE PRODUCTION OF CRUDE OIL IN INDIA
(Financial Year)

(0000 Tonnes)

Year	On Shore					Off Shore		Grand	Cumulative
	AOC	OIL	ONGC	JVC	Total	ONGC	JVC	Total	Production
1	2	3	4	5	6	7	8	9	10
1970-71	104	3084	3684	—	6872	—	—	6872	50303
1975-76	66	3103	5279	—	8448	—	—	8448	88244
1980-81	48	1243	4231	—	5522	4985	—	10507	141811
1985-86	—	2654	6691	—	9345	20823	—	30168	264246
1990-91	—	2649	9181	—	11830	21191	—	33021	424231
1991-92	—	2529	8854	—	11383	18963	—	30346	454577
1992-93	—	2523	8681	—	11204	15746	—	26950	481527
1993-94	—	2811	8840	—	11651	15375	—	27026	508553
1994-95	—	2883	9130	4	12017	20226	251	32494	541047
1995-96	—	2882	8971	26	11879	22665	624	35168	576215
1996-97	—	2870	8504	38	11412	20181	1307	32900	609115
1997-98	—	3094	8387	42	11523	19863	2472	33858	642973
1998-99	—	3295	8100	77	11472	18286	2965	32722	675695
1999-2000	—	3283	7921	94	11298	16727	3924	31949	707644
2000-01*	—	3286	8431	78	11795	16627	4005	32427	740071

* Provisional

(a) = After takeover of AOC by Govt. in Oct. 1981 the production figures shown under AOC are upto 14th October 1981. thereafter the same have been merged with OIL.

III. 4 STATE-WISE PRODUCTION OF CRUDE OIL IN INDIA

('000 Tonnes)

Year	ON SHORE					OFF SHORE		Grand Total
	Arunachal Pradesh	Tamil Nadu/ Andhra Pradesh	Assami Nagaland	Gujarat	Total	Andhra Pradesh/ Tamil Nadu	Bombay High	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
A. CALENDAR YEARS								
1970	—	—	3359	3450	6809	—	—	6809
1975	—	—	4189	4094	8283	—	—	8283
1980	2	—	1058	3812	4870	—	4529	9399
1985	60	—	4879	4576	9215	—	20645	29850
1990	41	313	5199	6440	11991	—	21320	33311
1991	41	311	5097	6162	11613	—	19393	31006
1992	55	331	4964	5915	11265	—	16609	27874
1993	55	481	5039	5851	11426	—	15082	26508
1994	37	639	5108	6222	12006	64	18900	32970
1995	27	491	5038	6318	11934	458	22656	35048
1996	36	390	4834	6278	11538	925	20528	32989
1997	27	374	5070	5998	11469	2274	20088	33831
1998	34	442	5273	5946	11692	2674	18606	32972
1999	45	504	5002	5720	11271	3979	17378	32628
2000	34	631	5185	5820	11670	3980	16474	32124
B. FINANCIAL YEARS								
1970-71	—	—	3367	3455	6822	—	—	6822
1975-76	—	—	4300	4148	8448	—	—	8448
1980-81	2	—	1712	3808	5522	—	4985	10507
1985-86	60	—	4966	4319	9345	—	20823	30168
1990-91	43	313	5076	6398	11830	—	21191	33021
1991-92	42	318	4988	6035	11383	—	18963	30346
1992-93	59	352	4986	5807	11204	—	15746	26950
1993-94	49	536	5090	5076	11651	—	15375	27026
1994-95	35	656	5043	6283	12017	551	20226	32494
1995-96	28	418	5046	6386	11878	824	22665	35167
1996-97	36	381	4811	6184	11412	1307	20181	32900
1997-98	25	390	5130	5978	11523	2472	19863	33858
1998-99	38	449	5125	5860	11472	2965	18285	32723
1999-2000	44	523	5028	5703	11298	3924	16727	31949
2000-01*	31	700	5201	5863	11795	4005	16627	32427

*Provisional

IV. NATURAL GAS

IV. 1 RESERVES @ OF NATURAL GAS IN INDIA

(Billion Cubic Metres)

Year	Gujarat[1]	Assam[2]	Andhra Pradesh	Tamil Nadu	Western Offshore[3]	Eastern Offshore[4]	Grand Total
1	2	3	4	5	6	7	8
1966	23.09	40.06	—	—	—	—	63.15
1970	19.66	42.82	—	—	—	—	62.48
1975	16.15	65.24	—	—	6.28	—	87.67
1980	16.82	63.53	—	—	270.96	—	351.31
1985	22.41	87.67	—	—	368.55	—	478.63
1990	93.62	135.47	—	—	457.36	—	686.45
1995	93.99	125.59	29.84	4.74	414.65	7.30	676.11
1996	91.06	131.39	34.40	7.29	374.18	2.99	641.31
1997	89.11	133.81	35.50	9.99	388.05	35.60	692.06
1998	88.68	137.93	35.77	14.04	362.04	36.30	674.76
1999	84.35	142.19	37.35	15.54	363.65	4.88	647.96
2000	85.74	152.87	39.52	20.62	447.48	13.58	759.81
2001	83.51	156.29	39.65	21.95	442.58	18.97	762.95

@: Proved and indicated Balance Recoverable Reserves.
[1]: Includes Rajasthan reserves of natural gas.
[2]: Includes Nagaland, Tripura and Arunchal Pradesh reserves of natural gas.
[3]: Includes Bomaby High offshore and JVC.
[4]: Inlucdes JVC/Pvt. Parties.
*Provisioinal

IV. 2 STATE-WISE PRODUCTION OF NATURAL GAS IN INDIA

(Million Cubic Metres)

Year	ON SHORE					OFFSHORE		Grand Totoal
	Gujarat	Assam/ Nagaland	Arunchal Pradesh	Tripura/Rajasthan/ T. Nadu & Andhra Pradesh	Total	JVC	Bomba High	
1	2	3	4	5	6	7	8	9
				A. Calendar years				
1970	458	996	—	—	1424	—	—	1424
1975	760	1550	—	—	2310	—		2310
1980	868	621	—	—	1489	—	588	2077
1985	884	2049	4	—	2937	—	4971	7908
1990	1645	2014	27	158	3844	—	14146	17990
1991	1855	2062	31	251	4199	—	14450	18640
1992	1957	2054	49	563	4623	—	13749	18372
1993	2080	1984	49	779	4892	—	13229	18121
1994	2395	1937	39	829	5200	12	14223	19435
1995	2796	1861	33	906	5596	298	15533	21427
1996	2935	1944	25	999	5903	430	17042	23375
1997	3118	1992	23	1354	6487	1179	17630	25296
1998	3178	2059	24	1820	7081	2588	17988	27654
1999	3312	2096	24	1966	7398	3194	17380	27972
2000*	3133	2210	20	2195	7558	3287	18453	29298
				B. Financial Year				
1970-71	465	980	—	—	1445	—	—	1445
1975-76	773	1595	—	—	2368	—	—	2368
1980-81	842	843	—	—	1685	—	673	2358
1985-86	919	2029	6	—	2954	—	5180	8134
1990-91	1696	2011	29	180	3916	—	14082	17998
1991-92	1698	2051	31	271	4251	—	14394	18645
1992-93	1946	2034	52	676	4708	—	13352	18060
1993-94	2166	1978	47	788	4979	—	13354	18335
1994-95	2462	1909	37	835	5243	87	14138	19468
1995-96	2887	1880	32	939	5738	325	16579	24642
1996-97	2956	948	23	1056	5983	479	16794	23256
1997-98	3175	2024	24	1461	6684	1615	18102	26401
1998-99	3279	2070	24	1795	7168	2746	17514	27428
1999-00	3271	2105	22	2005	7403	3268	17775	28446
2000-01*	3150	2225	10	2340	7725	3288	18465	29478

*Provisional.

IV. 3 STATE-STATE GROSS AND NET PRODUCTION OF NATURAL GAS IN INDIA

(Million Cubic Metres)

Period	Gross Prodn.	Re-injected	Flarred	Net production
1	2	3	4	5
		ONSHORE		
Gujarat				
1970-71	465	—	155	310
1975-76	773	—	136	637
1980-81	842	—	146	696
1985-86	919	—	118	801
1990-91	1696	—	402	1294
1991-92	1898	—	318	1580
1992-93	2166	—	229	1717
1993-94	2166	—	257	1909
1994-95	2462	—	280	2182
1995-96	2878	—	279	2599
1996-97	2932	—	347	2585
1997-98	3145	—	358	2757
1998-99	3166	—	397	2769
1999-00	3096	—	412	2684
2000-01*	2850	—	429	2421
Assam $				
1970-71	980	36	607	337
1975-76	1595	162	946	487
1980-81	843	67	257	519
1985-86	2035	66	887	1082
1990-91	2040	102	621	1317
1991-92	2083	132	703	1247
1992-93	2086	90	685	1311
1993-94	2025	71	710	1244
1994-95	1946	23	596	1327
1995-96	1924	17	131	1776
1996-97	1974	—	97	1877
1997-98	2190	—	292	1898
1998-99	2242	—	313	1930
1999-00	2257	—	221	2036
2000-01*	2386	—	209	2177
Tripura				
1985-86	—	—	—	—
1990-91	75	—	—	75
1991-92	80	—	—	80
1992-93	115	—	—	115
1993-94	102	—	—	102
1994-95	97	—	—	97
1995-96	131	—	—	131
1996-97	154	—	—	154
1997-98	196	—	—	196
1998-99	306	—	—	306
1999-00	353	—	—	353
2000-01	375	—	—	375

$:Includes Nagaland and Arunachal Pradesh.
*:Provisional

IV. 3 (Contd.) STATE-STATE GROSS AND NET PRODUCTION OF NATURAL GAS IN INDIA

(Million Cubic Metres)

Period	Gross Prodn.	Re-Injected	Flarred	Net Production
1	2	3	4	5
ANDHRA PRADESH				
1985-86	—	—	—	—
1990-91	46	—	5	41
1991-92	150	—	6	144
1992-93	507	—	6	501
1993-94	610	—	17	593
1994-95	640	—	22	618
1995-96	679	—	—	679
1996-97	799	—	—	977
1997-98	1022	—	—	1022
1998-99	1218	—	—	1218
1999-00	1363	—	—	1347
2000-01*	1604	—	23	1581
TAMIL NADU				
1985-86	—	—	—	—
1990-91	64	—	55	9
1991-92	41	—	29	12
1992-93	54	—	35	19
1993-94	76	—	56	20
1994-95	98	—	82	16
1995-96	117	—	96	21
1996-97	92	—	49	43
1997-98	95	—	48	47
1998-99	107	—	67	40
1999-00	138	—	51	87
2000-01*	200	—	74	126
TOTAL ONSHORE				
1970-71	1445	36	762	647
1975-76	2368	162	1082	1124
1985-86	2954	66	1005	1883
1990-91	3916	102	1083	2731
1991-92	4251	132	1056	3063
1992-93	4708	90	955	3663
1993-94	4979	71	1040	3868
1994-95	5243	23	980	4240
1995-96	5728	17	778	4933
1996-97	5951	—	493	5458
1997-98	6618	—	698	5920
1998-99	7040	—	777	6263
1999-00	7207	—	701	6506
2000-01*	7415	—	735	7415

*Provisional

IV. 3 (Concluded) STATE-WISE GROSS AND NET PRODUCTION OF NATURAL GAS IN INDIA

(Million Cubic Metres)

Period	Gross Prodn.	Re-Injected	Flarred	Net Production
1	2	3	4	5
OFFSHORE				
1980-81	673	—	366	307
1985-86	5180	—	2113	3064
1990-91	14082	—	4047	10035
1991-92	14394	—	3016	11378
1992-93	13352	—	899	12453
1993-94	13356	—	884	12472
1994-95	14138	—	1040	13098
1995-96	16579	—	613	13098
1996-97	16794	—	819	15966
1997-98	18102	—	876	15975
1998-99	17514	—	745	17226
1999-00	17774	—	716	16769
2000-01*	18465	—	759	17706
JVC/Pvt.				
1994-95	—	—	—	—
1995-96	331	—	318	13
1996-97	510	—	448	62
1997-98	1681	—	305	1376
1998-99	2874	—	190	2684
1999-00	3465	—	144	3321
2000-01*	3596	—	120	3476
GRAND TOTAL				
1970-71	1445	36	762	647
1975-76	2368	162	1082	1124
1980-81	2358	67	769	1522
1985-86	8134	66	3118	4950
1990-91	17998	102	5130	12766
1991-92	18645	132	4072	14441
1992-93	18080	90	1854	16116
1993-94	18335	71	1924	16340
1994-95	19381	23	2040	17339
1995-96	22639	17	1420	21202
1996-97	23255	—	1760	21495
1997-98	26401	—	1879	24522
1998-99	27428	—	1712	25716
1999-00	28446	—	1560	26886
2000-01*	29476	—	1614	27862

* Provisional

IV. 4 STATE-WISE UTILISATION OF NATURAL GAS IN INDIA

(Financial Years)

(Mn. Cubic Metres)

Year	ONSHORE						OFFSHORE			Grand
	Gujarat	Assas**	Tripura	Andhra Pradesh	Tamil Nadu	Total	Bombay High	JVC	Total	Total (7+10)
1	2	3	4	5	6	7	8	9	10	11
1970-71	310	337	—	—	—	647	—	—	—	647
1975-76	637	487	—	—	—	1124	—	—	—	1124
1980-81	696	519	—	—	—	1215	307	—	307	1522
1985-86	801	1082	—	—	—	1883	3067	—	3067	4950
1990-91	1294	1317	70	41	9	2731	10035	—	10035	12766
1991-92	1580	1247	80	144	12	3063	11378	—	11378	14441
1992-93	1717	1311	115	501	19	3663	12453	—	12453	16116
1993-94	1909	1244	102	593	20	3868	12472	—	12472	16340
1994-95	2182	1328	97	617	16	4240	13097	—	13097	17337
1995-96	2599	1510	130	678	21	4928	15966	13	15979	20907
1996-97	2614	1722	154	799	43	5332	15975	62	16037	21369
1997-98	2757	1898	196	1022	47	5920	17226	1376	18602	24522
1998-99	2769	1930	306	1218	40	6263	16769	2684	19453	25716
1999-00	2684	2036	353	1347	87	6507	17058	3321	20379	26886
2000-01*	2421	2177	375	1581	126	6680	17706	3476	21182	27862

*: Provisional

**:Includes Nagaland and Arunachal Pradesh.

IV. 5 INDUSTRY-WISE OFFTAKES OF NATURAL GAS IN INDIA

(Million Cubic Metres)

Year	Power Generation	Industrial fuel	Tea Plantation	Domestic fuel	Captive Use/LPG shrinkage	Total	Fertilizer	Petro-Chemicals	Others	Total	Grand Total
1	2	3	4	5	6	7	8	9	10	11	12
1970-71	261	116	15	—	68	460	187	—	—	187	647
1975-76	368	143	33	13	104	661	*463	—	2	465	1126
1980-81	492	163	45	14	176	890	611	5	16	632	1522
1985-86	1299	223	78	21	795	2416	2500	10	24	2534	4950
1990-91	3634	827	89	50	1775	6375	5612	409	370	6391	12766
1991-92	4774	766	108	72	2165	7885	5509	531	516	6556	14441
1992-93	4967	1450	105	187	1916	8625	6672	578	241	7491	16116
1993-94	4785	1794	121	189	2277	9166	6499	494	181	7174	16340
1994-95	5229	1927	134	190	2230	9710	6936	520	171	7627	17337
1995-96@	6836	2301	111	178	589	10015	7602	474	—	8076	18091
1996-97@	6935	2631	130	184	618	10498	7625	509	—	8134	18632
1997-98@	8114	3106	117	206	569	12112	8752	649	—	9401	21513
1998-99@	8714	3005	147	193	911	12970	8869	650	—	9519	22489
1999-00	8829	2329	140	250	4876	16424	8592	666	1203	10461	26886
2000-01*	8801	2870	151	335	5042	17199	8480	779	1402	10661	27860

@: Excludes offtakes of natural gas by ONGC.

*_ Provisional

Neg.- Negligible.

V. REFINING

V. 1 PETROLEUM REFINING CAPACITY IN INDIA AS ON 1.4.2001

(Million Tonnes Per Annum)

Refinery	Year of commissioning	Installed capacity as on 1.4.2001
(A) PUBLIC SECTOR/JVC REFINERIES		**85.54**
I. IOC REFINERIES		**36.10**
1 IOC, DIGBOI	1901	0.65
2 IOC, GUWAHATI	1962	1.00
3 IOC, BARAUNI	1964	4.20
4 IOC, GUJARAT	1965	12.50
5 IOC, HALDIA	1974	8.75
6 IOC, MATHURA	1982	8.00
7 IOC, PANIPAT	1998	6.00
II. HPCL REFINERIES		**13.00**
1 HPCL, MUMBAI	1954	5.50
2 HPCL, VISAKH	1957	7.50
III. BPCL, MUMBAI	1955	6.90
IV. CPCL REFINERIES		**7.00**
1 CPCL, MANALI	1969	6.50
2 CPCL, NARIMANAM	1993	0.50
V. KRL, KOCHI	1966	7.50
VI. BRPL, BONGAIGAON	1979	2.35
VII. NRL, NUMALIGARH	1999	3.00
VIII. MRPL, MANGALORE	1996	9.69
(B) PRIVATE REFINERY		**27.00**
I. RPL, JAMNAGAR	1999	27.00
GRAND TOTAL (A+B)		**112.54**

Source: OCC, New Delhi.

V. 2a REFINERY CRUDE THROUGHPUT AND PRODUCTION OF PETROLEUM PRODUCTS DURING 1961 TO 2000

('000 Tonnes)

Year	Crude Throughput			Production		
	Public Sector/ JVC	Private Sector	Total (2+3)	Public Sector/ JVC	Private Sector	Total (5+6)
1	2	3	4	5	6	7
			CALENDAR YEARS			
1961	—	6440	6440	—	6090	6090
1970	10954	7465	18459	10143	7040	17172
1975	16723	5112	21835	15602	4766	20368
1980	24668	407	25075	23213	384	23597
1985	41226	—	41226	38264	—	38264
1990	51671	—	51671	48402	—	48402
1991	50954	—	50954	47916	—	47916
1992	54254	—	54254	51041	—	51041
1993	53509	—	53509	50396	—	50396
1994	56407	—	56407	52872	—	52872
1995	57971	—	57971	54379	—	54379
1996	61704	—	61704	57869	—	57869
1997	64533	—	64533	60631	—	60631
1998	66672	—	66672	62809	—	62809
1999	73079	6459	79538	68180	4920	73100
2000	76943	24845	101788	71838	23348	95186

V.2b REFINERY CRUDE THROUGHPUT AND PRODUCTION OF PETROLEUM PRODUCTS DURING 1961-62 TO 2000-01

('000 Tonnes)

Year	Crude Throughput			Production		
	Public Sector/ JVC	Private Sector	Total (2+3)	Public Sector/ JVC	Private Sector	Total (5+6)
1	2	3	4	5	6	7
			FINANCIAL YEARS			
1961-62	60	6524	6584	11	6184	6195
1965-66	1966	8267	10233	1733	7828	9561
1970-71	10820	7559	18379	9965	7145	17110
1975-76	17045	5238	22283	15895	4934	20829
1980-81	25333	503	25838	23648	477	24123
1985-86	42910	—	42910	39881	—	39881
1990-91	51772	—	51772	48562	—	48562
1991-92	51423	—	51423	48349	—	48349
1992-93	53482	—	53482	50359	—	50359
1993-94	54296	—	54296	51084	—	51084
1994-95	56534	—	56534	52927	—	52927
1995-96	58741	—	58741	55081	—	55081
1996-97	62870	—	62870	59005	—	59005
1997-98	65166	—	65166	61308	—	61308
1998-99	68538	—	68538	64544	—	64544
1999-00	74052	11912	85964	69144	10267	79411
2000-01	77411	26033	103444	72059	23555	95614

V. 3 REFINERY-WISE CRUDE RUN AND TOTAL PRODUCTION OF PETROLEUM PRODUCTS DURING 1980-81 TO 2000-01

('000 Tonnes)

Year	IOC AOD	BPCL Mumbai	HPCL Mumbai	HPCL Visakh	IOC Guwahati	IOC Barauni	IOC Gujarat	IOC Haldia	IOC Mathura
1	2	3	4	5	6	7	8	9	10
1980-81									
Total Production	477	4629	2907	1208	577	432	6629	2056	—
Crude Run	503	4901	3113	1319	639	504	6974	2038	—
1985-86									
Total Production	511	5981	4102	2438	696	2513	7305	2579	5734
Crude Run	529	6389	4375	2659	766	2766	7830	2822	6075
1990-91									
Total Production	540	6603	5506	3231	712	2206	8791	2608	7414
Crude Run	566	6957	5766	3464	783	2416	9334	2935	7808
1991-92									
Total Production	524	6630	4496	3676	793	2060	8877	2791	7925
Crude Run	546	6940	4729	3920	856	2262	9379	3021	8231
1992-93									
Total Production	623	6875	5619	4274	749	2097	9258	2810	7430
Crude Run	547	7233	5849	4527	815	2287	9780	3040	7843
1993-94									
Total Production	535	6831	5774	4203	840	2051	8830	2878	8121
Crude Run	554	7203	6018	4448	910	2222	9434	3106	8518
1994-95									
Total Production	509	7071	4913	4759	833	2039	9148	2998	8018
Crude Run	536	7506	5234	5014	884	2220	9888	3258	8377
1995-96									
Total Production	537	7065	5674	4753	781	2129	9476	3168	7934
Crude Run	559	7460	5965	5037	839	2322	10167	3416	8332
1996-97									
Total Production	453	7279	6238	4576	778	1720	9722	3189	7744
Crude Run	477	7640	6534	4847	848	1895	10352	3451	8113
1997-98									
Total Production	479	7591	6053	2308	779	1989	10043	4445	8302
Crude Run	502	7996	6378	2467	856	2181	10694	4706	8565
1998-99									
Total Production	524	8531	4955	3637	772	2017	10346	4432	8685
Crude Run	553	8878	5203	3861	836	2204	10935	4714	8909
1999-00									
Total Production	564	8433	5702	4252	858	3177	10429	3797	7875
Crude Run	603	8907	6007	4555	914	3411	11109	4105	8125
2000-01									
Total Production	651	8203	5189	5986	653	2889	11269	3502	6863
Crude Run	678	8683	5575	6405	707	3122	12006	3873	7133

Cont'd.....

V.3 (CONCLUDED) REFINERY-WISE CRUDE RUN AND TOTAL PRODUCTION OF PETROLEUM PRODUCTS DURING 1980-81 TO 2000-01

('000 Tonnes)

Year	IOC Panipat	CRL Cochin	MRL Madras	MRL Narimanam	BRPL Assam	NRL Numaligarh	MRPL Mangalore	RPL Jamnagar	Total
	11	12	13	14	15	16	17	18	19
1980-81									
Total Production	—	2795	2376	—	37	—	—	—	24123
Crude Run	—	2912	2611	—	52	—	—	—	25836
1985-86									
Total Production	—	2560	4723	—	739	—	—	—	39881
Crude Run	—	2749	5057	—	893	—	—	—	42910
1990-91									
Total Production	—	4715	5279	—	957	—	—	—	48562
Crude Run	—	5006	5698	—	1139	—	—	—	51772
1991-92									
Total Production	—	4554	5147	—	976	—	—	—	48349
Crude Run	—	4846	5529	—	1164	—	—	—	51423
1992-93									
Total Production	—	4853	4927	—	944	—	—	—	50359
Crude Run	—	5122	5323	—	1116	—	—	—	53482
1993-94									
Total Production	—	4568	5313	120	1020	—	—	—	51084
Crude Run	—	4862	5728	126	1167	—	—	—	54296
1994-95									
Total Production	—	4803	6461	370	1005	—	—	—	52927
Crude Run	—	5135	6921	382	1179	—	—	—	56534
1995-96									
Total Production	—	7010	5162	358	1011	—	23	—	55081
Crude Run	—	7421	5599	370	1215	—	39	—	58741
1996-97									
Total Production	—	6890	6143	332	1306	—	2635	—	59005
Crude Run	—	7293	6621	345	1542	—	2912	—	62870
1997-98									
Total Production	—	7312	6437	533	1485	—	3552	—	61308
Crude Run	—	7729	6965	556	1718	—	3853	—	65166
1998-99									
Total Production	1908	7304	5652	619	1445	—	3737	—	64544
Crude Run	2208	7770	6101	644	1653	—	4069	—	68538
1999-00									
Total Production	3688	7326	5870	612	1665	186	4713	10267	79411
Crude Run	4153	7830	6377	636	1905	215	5200	11912	85964
2000-01									
Total Production	5206	7039	5524	559	1353	1293	5879	23556	95614
Crude Run	5707	7520	6046	579	1488	1451	6438	26033	103444

V. 4a PRODUCTION OF PETROLEUM PRODUCTS 1991 TO 2000 (CALENDER YEARS)

('000 Tonnes)

Products	Production							% Variation	
	1991	1995	1996	1997	1998	1999	2000	1999 / 1998	2000 / 1999
1	2	3	4	5	6	7	8	9	10
A-From Crude Oil									
1. **Light Distillates:**	**9544**	**12258**	**12815**	**12957**	**13328**	**16186**	**24836**	**21.4**	**53.4**
of which									
LPG @	1229	1533	1566	1661	1676	2045	3993	22.0	95.3
MS	3453	4367	4597	4876	5247	5898	7849	12.4	33.1
Naphtha	4423	5924	6157	6015	6006	7423	9966	23.6	34.3
SBPS/Hexane	133	132	165	157	143	116	81	(-) 18.9	(-) 30.2
2. **Middle Distillates:**	**26295**	**29560**	**31661**	**33587**	**34989**	**41377**	**52534**	**18.3**	**27.0**
of which									
Kerosene	5270	5315	5969	6357	6003	5108	8321	(-) 14.9	62.9
ATF/Jet A-1 / RTF	1656	2026	2165	2155	2224	2213	2509	(-) 0.5	13.4
H.S.D.	17259	20348	21643	23304	24984	32012	39447	28.1	23.2
L.D.O.	1499	1364	1288	1237	1333	1499	1560	12.5	4.1
J.B.O.	83	92	96	99	77	76	62	(-) 1.3	(-) 18.4
M.T.O.	148	169	210	197	178	247	227	38.8	(-) 8.1
3. **Heavy Ends:**	**12076**	**12561**	**13393**	**14087**	**14492**	**15537**	**17816**	**7.2**	**14.7**
of which									
F.O.	4982	5512	5728	6435	6471	6704	6250	3.6	(-) 6.8
LSHS / HHS / RFO	4434	4092	4360	4340	4482	4734	4995	5.6	5.5
Total Fuel Oils	9416	9604	10088	10775	10953	11438	11245	4.4	(-) 1.7
Lube Oils	410	582	601	588	644	654	700	1.6	7.0
Bitumen	1676	1922	2229	2214	2339	2459	2697	5.1	9.7
Pet. coke $	229	259	243	266	287	318	2054	10.8	545.9
Paraffin wax	45	43	33	32	34	43	53	26.5	23.3
Other waxes	44	61	51	59	50	70	66	40.0	(-) 5.7
Total waxes	89	104	84	91	84	113	119	34.5	5.3
4. **Total Production**	**47916**	**54379**	**57869**	**60631**	**62809**	**73100**	**95186**	**16.4**	**30.2**
5. **Crude Run**	**50954**	**57971**	**61704**	**64533**	**66672**	**79538**	**101788**	**19.3**	**28.0**
B-From Natural Gas									
6. L.P.G.	1173	1599	1811	1755	1889	1986	2040	5.1	2.7

$ includes Calcined Petroleum Coke.

@Excludes LPG production from Natural Gas.

PATTERN OF PRODUCTION (PERCENTAGE)

Products	1991	1995	1996	1997	1998	1999	2000
Light Distillates	18.7	21.1	20.8	20.1	20.0	20.4	24.4
Middle Distillates	51.6	51.0	51.3	52.0	52.5	52.0	51.6
Total Fuel Oils	18.5	16.6	16.3	16.7	16.4	14.4	11.0
Lubes	0.8	1.0	1.0	0.9	1.0	0.8	0.7
Bitumen	3.3	3.3	3.6	3.4	3.5	3.1	2.7
Others	1.1	0.8	0.8	0.8	0.8	1.2	3.1
Total Production	94.0	93.8	93.8	94.0	94.2	91.9	93.5
RBF & Losses / inventories	6.0	6.2	6.2	6.0	5.8	8.1	6.5
Crude Run	100.0	100.0	100.0	100.0	100.0	100.0	100.0

V. 4b PRODUCTION OF PETROLEUM PRODUCTS 1991-92 TO 2000-01 (FINANCIAL YEARS)

('000 Tonnes)

Products	Production							% Variation	
	1991-92	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	1999-00 / 1998-99	2000-01 / 1999-00
1	2	3	4	5	6	7	8	9	10
A-Crude Oil									
1. Light Distillates:	**9673**	**12433**	**12884**	**13032**	**13776**	**18314**	**25048**	**32.9**	**36.8**
of which									
LPG @	1250	1539	1598	1666	1724	2487	4088	44.3	64.4
MS	3420	4462	4704	4849	5573	6232	8070	11.8	29.5
Naphtha	4546	5975	6123	6103	6081	8170	9908	34.4	21.3
SBPS/Hexane	135	150	157	167	127	106	93	(-) 16.5	(-) 12.3
2. Middle Distillates:	**26371**	**29941**	**32423**	**33933**	**36168**	**44995**	**52445**	**24.4**	**16.6**
of which									
Kerosene	5339	5267	6236	6701	5341	5735	8714	7.4	51.9
ATF/Jet A-1 / RTF	1539	2127	2119	2147	2289	2292	2513	0.1	9.6
H.S.D.	17404	20661	22202	23354	26716	34793	39015	30.2	12.1
L.D.O.	1482	1351	1286	1246	1336	1624	1481	21.6	(-) 8.8
J.B.O.	82	95	96	90	81	70	57	(-) 13.6	(-) 18.6
M.T.O.	143	180	204	195	194	249	214	28.4	(-) 14.1
3. Heavy Ends:	**12305**	**12707**	**13698**	**14343**	**14600**	**16102**	**18121**	**10.3**	**12.5**
of which									
F.O.	5430	5351	5980	6771	6407	6559	6479	2.4	(-) 1.2
LSHS / HHS / RFO	4207	4228	4318	4309	4623	4793	4913	3.7	2.5
Total Fuel Oils	9637	9579	10298	11080	11030	11352	11392	2.9	0.4
Lube Oils	390	633	619	593	586	728	684	24.2	(-) 6.0
Bitumen	1710	2032	2283	2158	2419	2485	2721	2.7	9.5
Pet. coke $	216	256	246	282	286	465	2473	62.6	431.8
Paraffin wax	44	43	31	27	40	47	51	17.5	8.5
Other waxes	46	63	56	45	63	70	61	11.1	(-) 12.9
Total waxes	90	106	87	72	103	117	112	13.6	(-) 4.3
4. Total Production	**48349**	**55081**	**59005**	**61308**	**64544**	**79411**	**95614**	**23.0**	**20.4**
5. Crude Run	**51432**	**58741**	**62870**	**65166**	**68538**	**85964**	**103444**	**25.4**	**20.3**
B. Natural Gas									
6. L.P.G.	1235	1715	1780	1787	1914	1986	2045	3.8	3.0

$ includes Calcined Petroleum Coke.

@ Excludes LPG production from Natural Gas.

PATTERN OF PRODUCTION (PERCENTAGE)

Products	1991-92	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01
Light Distillates	18.8	21.2	20.5	20.0	20.1	21.3	24.2
Middle Distillates	51.3	51.0	51.6	52.1	52.8	52.3	50.7
Total Fuel Oils	18.7	16.3	16.4	17.0	16.1	13.2	11.0
Lubes	0.8	1.1	1.0	0.9	0.9	0.9	0.7
Bitumen	3.3	3.4	3.6	3.3	3.5	2.9	2.6
Others	1.1	0.8	0.8	0.8	0.8	1.8	3.2
Total Production	94.0	93.8	93.9	94.1	94.2	92.4	92.4
RBF & Losses / inventories	6.0	6.2	6.1	5.9	5.8	7.6	7.6
Crude Run	100.0	100.0	100.0	100.0	100.0	100.0	100.0

VI.1(a) PRODUCT-WISE SALES/CONSUMPTION OF PETROLEUM PRODUCTS DURING THE YEAR 1991 TO 2000

(Qty. 000' Tonnes)

	PRODUCT	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	%change 2000/1999
	1	2	3	4	5	6	7	8	9	10	11	12
1.	**Light Distillates**	**10005**	**10288**	**10492**	**11259**	**12781**	**14034**	**15269**	**17232**	**19870**	**21627**	**8.8**
	L.P. Gas	2565	2848	3035	3346	3741	4121	4451	4887	5640	6596	17.0
	Mogas	3587	3592	3761	4037	4527	4932	5109	5430	5776	6438	11.5
	Naphtha	3418	3380	3310	3258	3685	3795	4453	5973	7921	8089	2.1
	SBP/Hexane	141	157	149	141	166	212	222	174	145	128	-11.7
	Others	297	311	237	477	686	974	1034	768	388	376	-3.1
2.	**Middle Distillates**	**33715**	**36370**	**37416**	**40280**	**43991**	**47826**	**49923**	**50905**	**54141**	**53527**	**-1.1**
	Kerosene	8412	8573	8618	8931	9276	9627	9743	10460	10715	10699	-0.1
	ATF/Jet A-1	1563	1562	1683	1870	2014	2171	2111	2101	2146	2236	4.2
	HSD	21976	24396	25323	27623	30898	34275	36400	36619	39291	38310	-2.5
	LDO/MDO	1432	1464	1343	1396	1318	1233	1212	1266	1461	1460	-0.1
	JBO/Wash Oil	83	70	76	83	94	94	93	81	73	70	-4.1
	MTO	136	131	138	149	162	195	185	186	232	220	-5.2
	Others	113	174	235	228	229	231	179	192	223	262	17.5
3.	**Heavy Ends**	**12121**	**12641**	**12048**	**12741**	**13497**	**14207**	**14272**	**14796**	**15962**	**15378**	**-3.7**
	FO/TDO	4535	5402	4968	5639	6361	6502	6570	6745	7084	6206	-12.4
	LSHS/HHS	4415	3980	4122	4086	4080	4282	4346	4390	4663	5047	8.2
	Fuel Oils (total)	8950	9382	9090	9725	10441	10784	10916	11135	11747	11253	-4.2
	Lubes & Greases	877	888	750	657	704	690	786	848	950	801	-15.7
	Bitumen/Asphalt	1662	1831	1796	1800	1913	2206	2174	2343	2707	2781	2.7
	Petroleum Coke	281	182	116	199	254	329	227	286	324	371	14.5
	Wax	111	122	119	129	135	122	87	85	152	107	-29.6
	Others	240	236	177	231	50	76	82	99	82	65	-20.7
	Total(1+2+3)	**55841**	**59299**	**59956**	**64280**	**70269**	**76067**	**79464**	**82933**	**89973**	**90262**	**0.3**
	Refinery Fuel@	2621	2793	2880	3093	3217	3433	3518	3574	4873	6855	40.7
	GRAND TOTAL	**58462**	**62092**	**62836**	**67373**	**73486**	**79500**	**82982**	**86507**	**94846**	**97117**	**2.4**

@RBF, Lube Refinery Fuel & TPs Fuel.

Note : Total consmuption figures excluding imports by Private Parties.

VI. 1(b) PRODUCT-WISE SALES / CONSUMPTION OF PETROLEUM PRODUCTS DURING THE YEARS 1993-94 TO 2000-01

(Qty. 000' Tonnes)

PRODUCT	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01*	% change 2000-01 / 1999-00
1	2	3	4	5	6	7	8	9	10
1. Light Distillates	**10570**	**11637**	**13143**	**14384**	**15742**	**17958**	**20473**	**21770**	**6.3**
L.P. Gas	3113	3434	3849	4184	4581	5041	6029	6613	9.7
Mogas	3834	4141	4679	4955	5182	5507	5909	6613	11.9
Naphtha	3191	3400	3669	4015	4716	6652	7970	8059	1.1
SBP/Hexane	144	145	175	222	219	157	154	118	-23.4
Others	288	517	771	1008	1044	601	411	367	-10.7
2. Middle Distillates	**38146**	**40976**	**45460**	**48544**	**49716**	**51686**	**54259**	**52854**	**-2.6**
Kerosene	8704	8964	9317	9646	9878	10599	10731	10714	-0.2
ATF / Jet A-1	1741	1903	2082	2154	2108	2112	2197	2249	2.4
HSD	25878	28261	32254	35019	36071	37217	39287	37938	-3.4
LDO /MDO	1370	1369	1311	1223	1235	1278	1512	1399	-7.5
JBO/Wash Oil	77	87	96	92	91	77	71	67	-5.6
MTO	144	151	177	188	182	191	236	218	-7.6
Others	232	241	223	222	151	212	225	269	19.6
3. Heavy Ends	**12096**	**12873**	**13915**	**14296**	**14380**	**15122**	**15919**	**15362**	**-3.5**
FO/TDO	5026	5837	6496	6534	6651	6767	6816	6371	-6.5
LSHS/HHS	4166	4052	4189	4313	4323	4537	4763	4989	4.7
Fuel Oils (total)	9192	9889	10685	10847	10974	11304	11579	11360	-1.9
Lubes & Greases	688	668	712	705	832	885	915	797	-12.9
Bitumen / Asphalt	1824	1939	2005	2273	2178	2412	2879	2618	-9.1
Petroleum Coke	132	197	319	276	227	315	328	414	26.2
Wax	119	131	133	114	73	112	143	104	-27.3
Others	141	49	61	81	93	94	75	69	-8.0
Total (1+2+3)	**60812**	**65486**	**72518**	**77224**	**79838**	**84766**	**90651**	**89986**	**-0.7**
Refinery Fuel@	2836	3137	3238	3490	3514	3700	5544	6900	24.5
Imports by pvt. parties	—	2027	2313	1944	4452	5796	6435	9638	49.8
GRAND TOTAL	**63648**	**70650**	**78069**	**82658**	**87804**	**94262**	**102630**	**106524**	**3.8**

*Provisional

Break-up

VI.1(c) 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
1950	3319	6.2	1950-51	3485	9.8
1955	4817	17.8	1955-56	4920	15.2
1960	7964	16,9	1960-61	8285	16.7
1965	12356	7.6	1965-66	12437	6.3
1970	18816	8,3	1970-71	19135	7.5
1975	23541	2.2	1975-76	23673	1.6
1980	31633	1.0	1980-81	32261	3.0
1985	42973	7.6	1985-86	43363	6.2
1990	57943	3.8	1990-91	57745	1.7
1991	58462	0.9	1991-92	59603	3.2
1992	62092	6.2	1992-93	61655	3.4
1993	62836	1.2	1993-94	63648	3.2
1994	67373	7.2	1994-95	70650	11.0
1995	73486	9.1	1995-96	78069	10.5
1996	79500	8.2	1996-97	82658	5.9
1997	82982	4.4	1997-98	87804	6.2
1998	86507	4.2	1998-99	94262	7.4
1999	94846	9.6	1999-00	102630	8.9
2000	90262	-4.8	2000-01	106524	3.8

Note : i) Includes Refinery Fuel from 1960/1960-61 onwards
ii) Prior to that Refinery Fuel consumption is not available
iii) Consumption excludes imports by Private Parties for calender years.
*: Excludes sales to Nepal from 1975/1975-76 onwards
Data upto 1959-60 is estimated

VI.2 SALES/CONSUMPTION OF PETROLEUM PRODUCTS AND MARKET SHARE OF OIL COMPANIES IN INDIA FROM 1970-71 TO 2000-01

(Qty. 000' Tonnes)

Year		I.O.C.	B. Shell/ BPCL	Esso/ HPCL	Caltex/ HPCL(VMU)	IBP Pvt.	Others Parties	Imports by	TOTAL
1	2	3	4	5	6	7	8	9	
1970-71	S/C	9212	4219	2538	1279	291	373	..	17912
	%	51.4	23.6	14.2	7.1	1.6	2.1	..	100
1975-76	S/C	14525	3151	2647	931	659	534	..	22447
	%	64.7	14.0	11.8	4.2	2.9	2.4	..	100
1980-81	S/C	18494	5297	5596		1034	475	..	30896
	%	59.9	17.1	18.1		3.3	1.6	..	100
1985-86	S/C	23840	7580	7638		1552	262	..	40872
	%	58.3	18.6	18.7		3.8	0.6	..	100
1990-91	S/C	31426	10377	10576		2284	372	..	55035
	%	57.1	18.8	19.4		4.4	0.3	..	100
1991-92	S/C	32362	10688	11047		2498	379	..	56974
	%	56.5	19.4	19.4		4.1	0.6	..	100
1992-93	S/C	32906	11409	11511		2686	390	..	58902
	%	55.9	19.9	19.7		4.2	0.3	..	100
1993-94	S/C	33501	12099	12011		2860	341	..	60812
	%	55.1	20.3	19.4		4.6	0.6	..	100
1994-95	S/C	36359	13160	12588		2990	390	2027	67514
	%	53.9	19.5	18.6		4.4	0.6	3.0	100
1995-96	S/C	39858	14763	14151		3273	473	2313	74831
	%	53.3	19.7	18.9		4.4	0.6	3.1	100
1996-97	S/C	42054	15732	15460		3471	507	1944	79168
	%	53.1	19.9	19.5		4.4	0.6	2.5	100
1997-98	S/C	43465	16356	16000		3597	420	4452	84290
	%	51.6	19.4	19.0		4.3	0.4	5.3	100
1998-99	S/C	45489	17445	16249		3772	1810	5796	90562
	%	50.2	19.3	17.9		4.2	2.0	6.4	100
1999-00	S/C	49391	18894	17497		4133	736	6435	97086
	%	50.9	19.5	18.0		4.3	0.7	6.6	100
2000-01*	S/C	47812	19368	17887		3959	960	9638	99624
	%	48.0	19.4	17.9		4.0	1.0	9.7	100

S/C : Sales/Consumption *: Provisonal @:Included under ESSO/HPCL from 1980-81 onwards.

Source: M-16 Report of OCC Note : Consumption excludes RBF

VI. 3 DELIVERIES MADE TO INTERNAITONAL/COASTAL BUNKERS DURING THE YEARS 1990-91 TO 2000-01

ITEMS	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01*
1	2	3	4	5	6	7	8	9	10	11	12
SHIPPING INTERNATIONAL BUNKERS :											
F.O.	107.6	73.8	78.7	116.0	120.1	85.8	87.5	69.8	74.5	63.6	64.8
H.S.D.	10.7	12.9	14.3	13.3	11.8	18.3	13.7	11.0	9.1	6.8	3.7
L.D.O.	32.2	29.4	27.7	29.1	25.0	20.4	19.7	17.3	15.8	15.7	18.7
TOTAL	150.5	116.1	120.7	158.4	156.9	124.5	120.9	98.1	99.4	86.1	87.2
COASTAL BUNKERS:											
F.O.	208.0	194.3	182.9	195.4	214.4	160.7	194.3	174.3	144.3	153.4	139.9
H.S.D.	129.5	122.3	111.2	120.6	129.5	120.5	157.6	137.7	115.7	156.1	153.4
L.D.O.	34.2	34.7	39.8	40.1	38.1	32.1	29.6	26.5	26.5	26.8	21.8
TOTAL	371.7	351.3	333.9	356.1	382.0	313.3	381.5	338.5	286.5	336.3	315.1
TOTAL BUNKERS:											
F.O.	315.6	268.1	261.6	311.4	334.5	246.5	281.8	244.1	218.9	217.0	204.7
H.S.D.	140.2	135.2	125.5	133.9	141.3	138.8	171.3	148.7	124.9	162.9	157.1
L.D.O.	66.4	64.1	67.5	69.2	63.1	52.5	49.3	43.8	42.3	42.5	40.5
TOTAL	522.2	467.4	454.6	514.5	538.9	437.8	502.4	436.6	386.1	422.4	402.3

Source: M6 Report of OCC
*: Provisional

VI. 6 SECTOR-WISE CONSUMPTION (END-USE) OF SELECTED PETROLEUM PRODUCTS

(Qty. '000 Tonnes)

SECTOR	1997-98		1998-99		1999-00		2000-01*	
	Consump-tion	% to Total	Consump-tion	% to Total	Consump-tion	% to Total	Consump-tion	% to Total
1	2	3	4	5	6	7	8	9
			LPG					
1. Domestic	3744	81.7	4148	82.3	4974	82.5	5432	82.1
2. Commercial/Industry	766	16.8	817	16.2	956	15.9	1021	15.5
3. Others	71	1.5	76	1.5	99	1.6	160	2.4
TOTAL (1+2+3)	**4581**	**100.0**	**5041**	**100.0**	**6029**	**100.0**	**6613**	**100.0**
			NAPTHTHA					
1. Fertilizers	3404	61.8	3648	54.8	3582	44.9	3618	44.9
2. Petrochemicals	1345	24.4	1332	20.0	1923	24.2	1989	24.7
3. Others	760	13.8	1672	25.1	2465	30.9	2452	30.4
TOTAL (1+2+3)	**5509**	**100.0**	**6652**	**100.0**	**7970**	**100.0**	**8059**	**100.0**
			HSDO					
1. TRANSPORT								
(i) Road Transport	19152	53.1	19710	53.0	20711	52.7	20471	54.0
(ii) Aviation	8	0.0	19	0.1	33	0.1	40	0.1
(iii) Shipping	211	0.6	219	0.6	262	0.7	247	0.7
(iv) Railways	1401	3.9	1419	3.8	1380	3.5	1439	3.8
Sub total (1)	**20772**	**57.6**	**21367**	**57.4**	**22386**	**57.0**	**22197**	**58.5**
2. PLANTATION/FOOD								
(i) Sugar Mills	103	0.3	116	0.3	129	0.3	136	0.4
(ii) Others (incl. Plan. of Food)	6788	18.8	7034	18.9	7464	19.0	7361	19.4
Sub total (2)	**6891**	**19.1**	**7150**	**19.2**	**7593**	**19.3**	**7497**	**19.8**
3. Power Generation (Utilities)	**2390**	**6.6**	**2576**	**6.9**	**2622**	**6.7**	**2596**	**6.8**
4. Industry								
(i) Iron & Steel	122	0.3	124	0.3	128	0.3	102	0.3
(ii) Textile & Fibre	620	1.7	686	1.8	596	1.5	416	1.1
(iii) Cement	271	0.8	233	0.6	205	0.5	132	0.3
(iv) Ceremic & Glass	72	0.2	67	0.2	74	0.2	59	0.2
(v) Chemicals & Allied	387	1.1	371	1.0	424	1.1	165	0.4
(vi) Aluminium	8	0.0	11	0.0	14	0.0	13	0.0
(vii) Mining & Quarrying	623	1.7	633	1.7	635	1.6	642	1.7
(viii) Engg. (Mech. & Elec.)	284	0.8	285	0.8	290	0.7	229	0.6
(ix) Fertiloizers	30	0.1	35	0.1	34	0.1	31	0.1
(x) Other Industries & Construction	1316	3.6	1409	3.8	1490	3.8	1343	3.5
Sub total (4)	**3733**	**10.3**	**3854**	**10.4**	**3890**	**9.9**	**3132**	**8.3**
5. Misc.Services (incl. DGS&D)	**2285**	**6.3**	**2270**	**6.1**	**2796**	**7.1**	**2516**	**6.6**
TOTAL (1+2+3+4+5)	**36071**	**100.0**	**37217**	**100.0**	**39287**	**100.0**	**37938**	**100.0**

*Provisional.

VI. 6 (Contd.) SECTOR-WISE CONSUMPTION (END-USE) OF SELECTED PETROLEUM PRODUCTS

(Qty. 'OOO' Tonnes)

SECTOR	1997-98		1998-99		1999-00		2000-01*	
	Consump-tion	% to Total	Consump-tion	% to Total	Consump-tion	% to Total	Consump-tion	% to Total
1	2	3	4	5	6	7	8	9
			LDO					
1. TRANSPORT								
i) Road Transport	2	0.2	2	0.2	3	0.2	3	0.2
ii) Aviation	1	0.1	1	0.1	4	0.3	4	0.3
iii) Shipping	41	3.3	45	3.5	43	2.8	42	3.0
iv) Railways	4	0.3	2	0.2	2	0.1	3	0.2
v) Other Transport (incl. Agri. Retail Trade)	16	1.3	13	1.0	7	0.5	6	0.4
Sub total (1)	**64**	**5.2**	**63**	**4.9**	**59**	**3.9**	**58**	**4.1**
2. PLANTATION/FODD								
i) Sugar Mills	1	0.1	2	0.2	3	0.2	2	0.1
ii) Others (incl. Plan. of Food)	33	2.7	39	3.1	44	2.9	44	3.1
Sub total (2)	**34**	**2.8**	**41**	**3.2**	**47**	**3.1**	**46**	**3.3**
3. Power Generation (Utilities)	189	15.4	170	13.3	176	11.6	215	15.4
4. Industry								
i) Iron & Steel	83	6.7	78	6.1	83	5.5	82	5.9
ii) Textile & Fibre	36	2.9	63	4.9	107	7.1	94	6.7
iii) Cement	13	1.1	19	1.5	40	2.6	36	2.6
iv) Ceremic & Glass	29	2.4	32	2.5	46	3.0	37	2.6
v) Chemicals & Allied	152	12.4	159	12.4	165	10.9	142	10.2
vi) Aluminimum	3	0.2	3	0.2	5	0.3	5	0.4
vii) Mining & Quarrying	7	0.6	15	1.2	17	1.1	18	1.3
viii) Engg. (Mech. & Elec)	112	9.1	97	7.6	96	6.3	80	5.7
ix) Fertilizers	2	0.2	4	0.3	9	0.6	17	1.2
x) Other Industries & Construction)	184	15.0	176	13.8	201	13.3	170	12.2
Sub total (4)	**621**	**50.5**	**646**	**50.5**	**769**	**50.9**	**681**	**48.7**
5. Misc. Services	322	26.2	358	28.0	461	30.5	399	28.5
Total (1+2+3+4+5)	**1230**	**100.0**	**1278**	**100.0**	**1512**	**100.0**	**1399**	**100.0**
			Furnance Oil					
1. TRANSPORT								
i) Road Transport	9	0.1	8	0.1	6	0.1	5	0.1
ii) Aviation	2	0.0	2	0.0	22	0.3	26	0.4
iii) Shipping	214	3.2	251	3.7	209	3.1	200	3.1
iv) Railways	12	0.2	11	0.2	11	0.2	12	0.2
v) Other Transport (incl. Agri. Retail Trade)	78	1.2	77	1.1	103	1.5	75	1.2
Sub total (1)	**315**	**4.7**	**349**	**5.2**	**351**	**5.1**	**318**	**5.0**
2. PLANTATION/FOOD								
i) Sugar Mills	13	0.2	16	0.2	13	0.2	9	0.1
ii) Others (incl. plan. of Foo)	261	3.9	303	4.5	273	4.0	267	4.2
Sub total (2)	**274**	**4.1**	**319**	**4.7**	**286**	**4.2**	**276**	**4.3**

Cont'd...

VI. 6 SECTOR-WISE CONSUMPTION (END-USE) OF SELECTED PETROLEUM PRODUCTS

(Qty. '000' Tonnes)

SECTOR	1997-98		1998-99		1999-00		2000-01*	
	Consump-tion	% to Total	Consump-tion	% to Total	Consump-tion	% to Total	Consump-tion	% to Total
1	2	3	4	5	6	7	8	9
3. Power Generation								
(Utilities)	549	8.3	571	8.4	515	7.6	481	7.5
4. Industry								
i) Iron & Steel	492	7.4	450	6.6	392	5.8	399	6.3
ii) Textile & Fibre	495	7.4	457	8.2	608	8.9	554	8.7
iii) Cement	292	4.4	402	5.9	476	7.0	404	6.3
iv) Ceremic & Glass	143	2.2	131	1.9	115	1.7	133	2.1
v) Chemicals & Allied	928	14.0	1016	15.0	1060	15.6	959	15.1
vi) Aluminium	142	2.1	140	2.1	137	2.0	137	2.2
vii) Mining & Quarrying	86	1.3	95	1.4	108	1.6	133	2.1
viii) Engg. (Mech. & Elec.)	167	2.5	179	2.6	191	2.8	175	2.7
ix) Fertilizers	1235	18.6	942	13.9	965	14.2	897	14.1
x) Other Industries & Construction	885	13.3	912	13.5	849	12.5	752	11.8
Sub total (4)	**4865**	**73.1**	**4824**	**71.3**	**4901**	**71.9**	**4543**	**71.3**
5. Misc. Services	648	9.7	704	10.4	763	11.2	753	11.8
Total (1+2+3+4+5)	**6651**	**100.0**	**6767**	**100.0**	**6816**	**100.0**	**6371**	**100.0**
			LSHS/HHS					
1. TRANSPORT	3	0.1	5	0.1	7	0.1	1	0.0
2. PLANTATION/FOOD								
i) Sugar Mills	0	0.0	0	0.0	0	0.0	0	0.0
ii) Others (incl. Plan. of Food)	21	0.5	43	0.9	27	0.6	22	0.4
Sub total (2)	**21**	**0.5**	**43**	**0.9**	**27**	**0.6**	**22**	**0.4**
3. Power Generation (Utilities)	1614	37.3	1297	28.6	1363	28.6	1657	33.2
4. Industry								
i) Iron & Steel	43	1.0	41	0.9	54	1.1	102	2.0
ii) Textile & Fibre	142	3.3	170	3.7	175	3.7	177	3.5
iii) Cement	49	1.1	45	1.0	80	1.7	63	1.3
iv Ceremic & Glass	65	1.5	68	1.5	76	1.6	96	1.9
v) Chemicals & Allied	325	7.5	353	7.8	284	6.0	260	5.2
vi) Aluminium	7	0.2	Neg	0.0	4	0.1	6	0.1
vii) Mining & Quarrying	23	0.5	22	0.5	8	0.2	5	0.1
viii) Engg. (Mech. & Elec.)	24	0.6	92	2.0	254	5.3	273	5.5
ix) Fertilizers	1621	37.5	1910	42.1	1767	37.1	1723	34.5
x) Other Industries & Construction	183	4.2	279	6.1	334	7.0	243	4.9
Sub total (4)	**2482**	**57.4**	**2980**	**65.7**	**3036**	**63.7**	**2948**	**59.1**
5. Misc. Services	203	4.7	212	4.7	330	6.9	361	7.2
Total (1+2+3+4+5)	**4323**	**100.0**	**4537**	**100.0**	**4763**	**100.0**	**4989**	**100.0**

*Provisional.

VI. 7 CONSUMPTION OF DIESEL OIL IN INDIAN RAILWAYS DURING 1960-61 TO 2000-01

Year	No. of Diesel Locomotives	Consumption of Diesel Oil (in Kls)	Consumption of Diesel per Locomotive (in Kls).
1	2	3	4
1960-61	181	62771	346.8
1965-66	727	310813	427.5
1970-71	1169	569025	846.8
1975-76	1803	797610	442.4
1980-81	2403	1067470	442.2
1985-86	3046	1440269	472.8
1990-91	3759	1712816	455.7
1991-92	2905	1731473	443.4
1992-93	4069	1741751	428.1
1993-94	4192	1783162	425.4
1994-95	4259	1819464	427.2
1995-96	4313	1847748	428.4
1996-97	4363	1859443	426.5
1997-98	4496	1874139	416.8
1998-99	4586	1900804	414.5
1999-00	4651	1983427	426.4
2000-01*	4702	1999262	425.2

*Provisional

**Source : Railway Board, New Delhi.

VI. 8 INDUSTRY/PLANT-WISE OFFTAKE OF NAPHTHA DURING THE YEARS 1993-94 to 2000-01

(Qty. '000' Mts)

Category and Plant	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01*
1	2	3	4	5	6	7	8	9
I. Fertilizer Plant:								
Madras Fertilizers	164	185	223	193	98	216	228	233
HFC, Durgapur	40	0	74	46	6	0	0	0
FCI, Gorakhpur	0	0	0	0	0	0	0	0
HCF, Barauni	31	75	57	47	51	22	0	0
SFC, Kota	175	169	183	182	181	190	183	142
Duncans Ind. Ltd.	286	356	392	336	358	382	352	310
RFP, Rourkela	129	105	124	126	113	114	65	46
GSFC, Baroda	85	92	75	81	65	114	59	66
FACT, Cochin	130	147	138	143	148	169	174	136
ZAC, Goa	240	253	288	253	281	205	243	196
IFFCO, Phulpur	278	298	262	269	432	657	628	701
IFFCO, Kalol	56	60	57	45	78	106	116	113
MCFL, Mangalore	100	124	122	168	140	165	127	152
SPIC, Tuticorin	276	302	290	266	275	265	308	310
GNFC, Bharuch	Neg.	1	Neg.	2	Neg.	Neg.	0	0
FACT, Alwaye	37	41	33	26	36	80	10	0
Coromandal, Ferts, Viza	72	64	78	84	76	60	3	0
NFL, Nangal	54	46	50	49	53	47	13	0
Others	99	386	478	703	1013	1090	1382	1468
SubTotal (Fertilizers)	**2252**	**2704**	**2924**	**3019**	**3404**	**3882**	**3891**	**3873**
II. Petrochemicals Plants:								
BRPL, Bongaigaon	24	-	26	5	0	0	0	0
HOC, Rasayani	5	5	8	8	8	6	8	3
IPCL, Baroda	448	413	477	442	455	412	512	551
NOCIL, Bombay	266	183	140	281	260	221	186	255
RCF, (Mathanol) Bomba	0	0	-	-	-	-	-	0
Rama Ptro Chemicals	24	25	33	58	43	23	6	0
Reliance Ind. Ltd.	211	163	222	359	364	516	486	360
National Peroxide	2	3	4	4	4	4	4	5
Oswal Agro	19	14	8	53	65	7	0	0
RCF, Thal	-	-	-	-	-	-	0	0
Others	13	38	65	62	146	273	130	475
Sub Total (Petro-Chem	**1012**	**844**	**983**	**1272**	**1345**	**1462**	**1332**	**1649**
III. Others								
Essar Power Ltd.	-	-	-	-	-	-	232	39
Essar Steel Ltd.	-	-	-	-	-	-	279	126
Dabhol Power Corp.	-	-	-	-	-	-	0	77
L&T Rajoula	-	-	-	-	-	-	52	62
IPCL, Dahes	-	-	-	-	-	-	186	282
NTPC, Kayamkulam	-	-	-	-	-	-	313	343
A.P. Gaspower Corpn.	-	-	-	-	-	-	193	86
NTPC, Kawas	-	-	-	-	-	-	127	369
Gujarat Ind. Power Corp.	-	-	-	-	-	-	146	68
NTPC, Auriya	0	0	0	0	0	0	95	140
Gujarat Alkali	0	0	0	0	0	0	51	57
HCL, Khetri	7	2	4	5	Neg.	2	2	1
Others	19	79	221	400	760	1523	948	905
SubTotal (Others)	**26**	**81**	**225**	**405**	**760**	**1525**	**2624**	**2555**
Grand Total (I+II+III)	**3290**	**3629**	**4132**	**4696**	**5509**	**6869**	**7846**	**8076**

* : Provisional

Source : Industry Performance Review

VI.9 PLANT/CUSTOMER-WISE OFFTAKE OF FO/LSHS FROM 1994-95 TO 2000-01

(Qty.'000 Tonnes)

Category and Plant	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01*
1	2	3	4	5	6	7	8
			(I) POWER				
A. Northern:							
NTPC Unchahar	—	—	—	—	—	9.5	2.8
TPS Obra	34.2	22.9	19.4	11.1	21.3	21.0	21.2
HSEB Hardwaganj	13.8	3.6	4.5	4.5	8.5	7.6	3.1
BTPS Bhadrapur	0.0	0.0	0.0	1.4	0.0	1.2	0.0
GNTP Bhatinda	2.5	7.6	0.0	2.9	13.8	2.7	4.0
TPS Panicha	7.3	11.2	6.8	5.9	11.4	10.3	3.1
TPS Singraull	10.9	2.9	5.4	1.5	1.4	na	na
TPS Rihand	7.1	12.3	1.5	1.4	1.4	na	na
KTPS Kota	18.0	18.4	5.5	14.3	7.9	1.4	1.3
DVB Delhi	24.5	29.3	25.6	21.2	11.4	7.0	5.4
HSEb Faridabad	5.3	5.7	6.1	0.0	0.0	0.0	0.0
TPS Ropar	28.2	24.7	23.1	19.4	14.5	14.3	7.9
TPS Panipat	33.7	48.3	40.3	46.5	33.3	13.7	8.2
HWP Rawatbhatta	46.8	49.3	28.5	30.9	24.5	1.4	0.0
Sub Total (A)	**232.2**	**236.2**	**166.7**	**161.0**	**149.4**	**116.5**	**67.9**
B. Eastern:							
NTPC Kahalgaon	—	—	—	—	—	4.6	4.3
ASEB Chandrapura	55.4	65.1	43.0	42.6	30.8	11.2	0.2
CTPS Chandrapura	9.7	32.4	42.7	21.8	21.3	34.2	35.1
NTPC Farrukka	34.3	24.4	23.7	28.2	33.0	19.0	14.1
BTPS Barauni	17.8	16.4	17.1	7.1	6.3	10.3	2.8
TTPS Talchar	10.7	15.4	8.9	0.0	3.1	1.4	0.0
BTPS Salakati	3.8	9.0	8.7	10.7	4.9	3.7	3.8
Sub Total (B)	**131.7**	**162.7**	**144.1**	**110.4**	**99.4**	**113.0**	**111.0**
C. Western:							
GEB Dhuwaran	637.4	745.8	724.9	686.4	507.5	611.1	641.8
GEB Ukai	48.6	63.9	70.4	46.2	18.4	20.3	11.8
GEB Gandhinagar	8.9	24.2	31.8	38.2	39.2	39.6	21.9
AECO Sabarmati	11.1	9.2	10.8	13.7	9.7	5.9	4.1
GEB Wanakbari	61.3	68.2	158.1	12.6	9.9	8.7	8.7
MPEB Sarani	64.6	48.0	30.0	18.4	16.3	8.4	9.3
MSEB Koradi	19.9	13.6	18.5	12.2	20.3	15.4	17.5
MSEB Chanderpur	39.9	23.6	16.1	30.7	27.0	6.6	13.5
MPEB Dhari	13.7	12.2	8.2	7.1	5.7	4.0	4.3
MSEB Nasik	22.0	18.6	31.3	7.4	11.3	7.3	7.5
MSEB Bhuswal	6.6	12.1	3.8	5.6	8.2	4.8	4.8
MSEB Paras	1.6	0.5	1.5	0.9	0.0	0.0	0.2
MSEB Parli	16.8	23.2	33.5	25.6	15.4	15.1	9.8
NTPC Korba	9.7	7.3	6.3	2.8	4.6	5.6	5.5
MPEB Korba	22.4	14.8	13.4	10.3	8.1	9.3	7.1
TATA Thermal	629.1	683.2	594.0	663.3	554.0	448.6	729.6
MPE Chachai	18.8	17.7	5.8	4.4	4.7	3.5	5.9
NTPC Waldhan	10.1	7.0	2.8	3.0	4.4	13.0	23.5
MSEB Kaperrkada	3.0	5.4	2.8	5.7	4.1	2.6	14.9
Sub Total (C)	**1645.5**	**1798.5**	**1764.0**	**1594.5**	**1268.8**	**1244.7**	**1559.0**
D. Southern:							
GMR Vasavi	—	—	—	—	—	248.6	230.8
TTPS Tuticorin	7.2	4.3	3.5	7.8	5.5	5.9	8.4
KTPS Palvancha	11.1	13.7	14.6	18.0	24.6	13.1	12.0
RTPS Raichur	6.3	9.4	2.4	2.3	12.2	17.3	12.1
MTPP Metturdam	1.3	9.7	0.0	5.3	35.3	24.1	4.0
NTPC Ramagundam	5.1	4.0	0.0	0.0	1.4	0.0	0.0
ETPS Ennore	3.6	6.8	2.6	0.0	0.0	0.0	0.0
NLC Neyveli TML	27.1	47.5	41.5	21.1	16.0	20.3	79.5
HWP Manuguru	25.7	17.8	16.3	10.3	7.8	3.1	4.3
kEB Yellahanka	—	—	100.0	123.5	117.9	129.0	128.3
VTPS Ibrahimpatan	—	—	3.6	5.6	4.1	2.7	4.5
RTPS Kalkamalla	—	—	9.6	4.9	2.3	2.5	3.6
NMTP Chennai	—	—	—	—	—	69.2	59.1
Others	87.0	119.5	—	—	—	131.0	155.0
Sub Tota (D)	**174.4**	**232.7**	**194.1**	**198.8**	**227.1**	**666.8**	**701.6**
Total Power (A+B+C+D)	**2183.9**	**2430.1**	**2268.9**	**2064.7**	**1744.7**	**2141.0**	**2439.5**

*Provisional

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VI. 9 PLANT / CUSTOMER-WISE OFFTAKE OF FO / LSHS 1994-95 TO 2000-01

(Qty. '000' Tonnes)

Category and Plant	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01*
1	2	3	4	5	6	7	8
(II) Fertilizer Plants:							
A. Northern:							
IFFCO Anola	—	—	—	—	—	1.5	4.3
Indo Gulf Jagdishpur	52.8	49.7	56.2	64.3	49.9	37.9	22.7
NFL Nangal	265.8	332.9	282.3	303.1	297.1	280.0	267.0
NFL Bhatinda	282.7	356.3	267.6	330.2	306.1	334.0	288.4
NFL panipat	259.2	334.2	294.3	335.9	296.4	304.8	289.2
IFFCO Phulpur	22.8	25.5	18.3	48.5	107.4	103.9	72.3
SFC Kota	8.1	10.6	6.9	1.4	0.0	0.0	na
SubTotal (A)	**891.4**	**1109.2**	**925.6**	**1083.4**	**1056.9**	**1062.1**	**943.9**
B. Eastern:							
Oswal Fertilizers	na	na	na	na	na	0.0	18.0
HFC Durgapur	4.6	9.6	19.1	2.7	0.0	0.0	0.0
FCI Sindri	209.8	212.8	188.6	173.2	183.5	200.8	178.3
FCI Barauni	24.9	19.4	15.9	11.5	6.0	0.0	0.0
FCI Talchar	6.5	7.3	8.3	10.4	8.1	1.5	0.0
paradeep Phosphate	na	na	na	na	na	27.0	6.2
SubTotal (B)	**245.8**	**249.1**	**231.9**	**197.8**	**197.6**	**229.3**	**202.5**
C. Western:							
RCF Mumbai	—	—	—	—	—	45.6	11.6
ZAC Goa	98.7	113.7	110.3	124.1	93.8	98.6	87.1
IFFCO Kalol	43.7	47.0	41.2	39.4	45.1	38.0	50.9
GSFC Baroda	135.5	135.5	144,6	139.4	134.0	116.6	110.8
GNFC Bharuch	449.0	487.2	454.1	406.1	480.5	446.7	444.2
Sub Total (C)	726.9	783.4	750.2	709.0	753.4	740.5	704.6
D. Southern:							
MFL Madras	81.1	91.0	78.1	100.3	145.1	139.0	130.8
MCFL Mangalore	60.8	61.0	82.7	71.7	91.2	69.7	81.5
FACT Cochin	104.5	114.9	126.4	135.7	83.3	114.8	110.3
NLC	75.0	80.0	83.8	78.9	55.7	11.2	1.3
SPIC Tuticorin	182.6	184.6	178.0	178.3	170.6	188.3	133.7
FCI Ramagundam	6.6	8.6	9.4	11.4	13.6	0.0	0.0
Coromandal Fertilizers	20.9	42.5	46.0	46.7	39.9	21.4	19.0
Sub Total (D)	**531.5**	**582.6**	**604.4**	**623.0**	**599.4**	**544.4**	**476.6**
Total Fertilizers (A+B+C+D)	**2395.6**	**2724.3**	**2512.1**	**2613.2**	**2607.3**	**2576.3**	**2327.6**
(III) Petrochemical Plants:							
C. Western:							
Herdilla Chemicals Ltd	na	na	na	na	na	7.8	9.1
IPCL Baroda	215.5	127.7	95.4	76.0	85.8	37.3	31.1
NOCIL Bombay	0.4	1.6	11.0	2.9	0.0	0.0	0.0
Reliance Industry Bombay	161.8	145.4	139.8	67.2	105.3	49.2	45.5
Sub Total (C)	**377.7**	**274.7**	**246.2**	**146.1**	**191.1**	**94.3**	**85.7**
D. Southren:							
FACT Udyogmandal	6.1	11.3	8.5	9.7	181.8	6.2	0.0
TNPL Chennai	47.9	63.0	56.7	45.2	59.7	68.6	69.7
SubTotal (D)	**54.0**	**74.3**	**65.2**	**54.9**	**78.5**	**74.8**	**69.7**
Total Petrochemical (C+D)	**431.7**	**349.0**	**311.4**	**201.0**	**269.6**	**169.1**	**155.4**

*Provisional

Cont'd...

VI. 9 PLANT/CUSTOMER-WISE OFFTAKE OF FO/LSHS FROM 1994-95 TO 2000-01

(Qty '000' Tonnes)

Category and Plant	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01*
1	2	3	4	5	6	7	8
			(IV) Steel Plant				
B. Eastern:							
RSP Rourkela	66.3	81.6	47.9	41.7	25.9	7.1	8.5
DSP Durgapur	9.5	0.0	0.0	0.0	0.0	0.0	0.0
ASP Durgapur	13.7	13.4	4.7	14.3	9.6	8.4	7.4
TISCO Jamshedpur	33.9	5.2	0.0	0.0	0.0	1.0	0.0
BSP Bokaro	76.4	72.6	55.0	17.4	11.1	18.4	14.6
SAIL Patratu	9.3	5.7	10.9	9.9	12.3	12.6	2.8
SubTotal (B)	**209.1**	**178.5**	**118.5**	**83.3**	**58.9**	**47.5**	**33.3**
C. Western:							
HSL Bhilai	27.2	25.7	26.4	14.4	14.4	15.7	12.9
SubTotal (C)	**27.2**	**25.7**	**26.4**	**14.4**	**14.4**	**15.7**	**12.9**
D. Sourthern							
Essar Steels	na	na	na	na	na	20.0	33.5
Jindal Steel	na	na	na	na	na	11.5	9.9
Vizag Steel Plant	2.8	7.5	2.8	3.7	12.6	21.8	3.8
VISL Bhadravati	na	na	na	na	na	7.9	6.5
SubTotal (D)	**2.8**	**7.5**	**2.8**	**3.7**	**12.6**	**61.2**	**53.7**
Total Steel (B+C+D)	**239.1**	**211.7**	**147.7**	**101.4**	**85.9**	**124.4**	**99.9**
			(V) Others				
A. Northern:							
HCL Khetri	na	na	na	na	na	6.7	0.0
Hindalco	34.2	35.9	34.2	0.0	11.3	17.0	37.2
Sub Total (A)	**34.2**	**35.9**	**34.2**	**0.0**	**11.3**	**23.7**	**37.2**
B. Eastern:							
Indal Muri	na	na	na	na	na	3.5	8.3
Paradeep Phosph	4.2	0.0	0.0	0.0	0.0	0.0	0.0
NALCO Angul	20.0	25.5	24.3	22.3	22.1	19.3	23.6
IRE Chatrapur	9.0	14.5	6.9	1.7	3.3	3.2	0.0
NALCO Damanjodi	65.6	65.1	68.8	68.0	65.7	62.7	69.9
OCL Rajgangapur	14.9	17.9	21.4	25.6	19.5	17.8	8.7
TELCO Jamshedpur	15.9	17.0	18.4	8.8	10.8	4.8	1.6
HCL Ghatsila	10.8	9.6	9.6	9.4	4.8	1.7	0.0
SubTotal (B)	**140.4**	**149.6**	**149.4**	**135.8**	**126.2**	**130.3**	**128.2**
C. Western:							
Phumphar Shipping	na	na	na	na	na	17.3	16.1
Balco Koprba	na	na	na	na	na	28.2	21.0
Bombay Dye & Mkg. Cc	na	na	na	na	na	24.8	37.8
HOC Rasayani	9.3	9.2	10.8	14.0	18.1	6.9	0.3
HPC Mandovi Pellets	17.0	19.5	0.0	0.0	0.0	0.0	23.5
Sub Total (C)	**26.3**	**28.7**	**10.8**	**14.0**	**18.1**	**59.9**	**82.6**
D. Southern							
Grasim	12.7	12.9	6.8	7.0	2.8	0.0	0.0
S.I. Viscose	40.6	42.3	31.3	18.8	11.8	35.0	19.1
Indal Belgaum	46.0	54.9	54.6	33.5	38.5	44.5	38.4
Tex MACO	4.1	4.2	7.9	10.0	0.0	0.0	6.1
Ballarpur Ind.	13.6	9.1	5.5	6.7	17.6	19.8	10.0
Chem. Plast	41.6	41.5	45.9	53.1	62.1	75.0	73.5
HOC Cochin	19.8	21.2	20.0	22.6	16.5	20.9	22.7
Kudramuk Iron & Ore C.	39.4	44.1	55.5	64.9	70.8	68.7	59.0
FACT ASCL	51.1	61.8	68.2	60.8	60.1	111.4	108.2
Zuari	—	—	—	—	—	12.9	16.3
SubTotal (D)	**268.9**	**292.0**	**295.7**	**277.4**	**280.2**	**401.8**	**367.7**
Total Others (A+B+C)	**469.8**	**506.2**	**490.1**	**427.2**	**435.8**	**615.7**	**615.7**
			(VI) GENERAL TRADE				
A. Northern Region	**843.1**	**810.9**	**1095.2**	**1167.1**	**1348.8**	**1153.5**	**2141.7**
B. Eastern Region	**461.4**	**446.5**	**490.9**	**509.5**	**539.9**	**433.6**	**399.5**
C. Western Region	**1913.3**	**2076.7**	**2232.2**	**2524.0**	**2547.9**	**2717.5**	**2422.5**
D. Southern Region	**941.0**	**1149.8**	**1294.7**	**1366.1**	**1779.3**	**1649.0**	**1611.4**
Total GeneralTrade	**4158.8**	**4483.9**	**5113.0**	**5566.7**	**6215.9**	**5953.6**	**5675.1**
GrandTotal (I+II+III+IV)	**9879.2**	**10705.3**	**10843.2**	**10974.2**	**11359.2**	**11579.3**	**11313.2**

Source : Industry Performanc Review
*: Provisional

VI. 10 STATE-WISE FUEL CONSUMPTION AND POWER GENERATION IN GAS TURBINE AND DIESEL POWER STATIONS IN INDIA DURING 1998-99

State/Union Territories	Gas Stations				Diesel Stations		
	Natural Gas (MCM)	HSD (KL)	Naphtha (KL)	Generation (GWH)	Diesel Oil (KL)	Generation (GWH)	Average Oil Consumption (Lts/KWH)
1	2	3	4	5	6	7	8
NORTHERN REGION							
Haryana	0	0	0	0	0	0.00	0.00
Himachal Pradesh	0	0	0	0	0	0.00	0.00
Jammu & Kashmir	0	2227	0	6	0	0.00	0.00
Punjab	0	0	0	0	0	0.00	0.00
Rajasthan	159	1084	0	253	0	0.00	0.00
Uttar Pradesh	0	0	0	0	0	0.00	0.00
Chandigarh	0	0	0	0	0	0.00	0.00
Delhi	256	31	0	683	0	0.00	0.00
Central Sector	2415	0	176683	12177	0	0.00	0.00
WESTERN REGION							
Gujarat	685	31530	0	8766	0	0.00	0.00
Madhya Pradesh	0	0	0	0	0	0.00	0.00
Maharashtra	2926E	0	0	6622	0	0.00	0.00
Goa	0	0	0	0	0	0.00	0.00
Daman & Diu	0	0	0	0	0	0.00	0.00
D. & N. Haveli	0	0	0	0	0	0.00	0.00
Central Sector	1406	2568	0	6574	0	0.00	0.00
SOUTHERN REGION							
Andhra Pradesh	318	16645	0	3671	0	0.00	0.00
Karnataka	0	0	0	0	124918	624.00	0.20
Kerala	0	0	0	0	52761	251.28	0.21
Tamil Nadu	5	25826	18004	124	53250 E	265.84	0.20
Pondicherry	0	0	0	0	0	0.00	0.00
Central Sector	108	0	0	243	0	0.00	0.00
EASTERN REGION							
Bihar	0	0	0	0	0	0.00	0.00
Orissa	0	0	0	0	0	0.00	0.00
West Bengal	0	17728	0	24	89 E	0.45	0.20
D.V.C.	5199 E	0	5632 E	26	0	0.00	0.00
Sikkim	0	0	0	0	0	0.00	0.00
Central Sector	0	0	0	0	0	0.00	0.00
NORTH EASTERN REGION							
Assam	338	0	0	405	0	0.00	0.00
Manipur	0	0	0	0	235	0.69	0.34
Meghyalaya	0	0	0	0	0	0.00	0.00
Nagaland	0	0	0	0	28 E	0.20	0.14
Tripura	305	0	0	335	700 E	2.00	0.35
Arunachal Pradesh	0	0	0	0	4953	13.10	0.38
Mizoram	0	0	0	0	4132	12.11	0.34
Central Sector	425	0	0	939	0	0.00	0.00
ISLANDS							
Lakshadweep	0	0	0	0	6602	18.84	0.35
A & N Islands	0	0	0	0	30622	103.56	0.30
TOTAL (ALL INDIA)	14545	97639	200319	40848	278290	1292.07	0.21

KL : Kilo Litres
GWH : Gigawatt Hour
MCM : Million Cubic Metres
E : Estimated
LTS/KWH : Litres per Kilowatt Hour
Source : Central Electricity Authority

VI. 11 STATE-WISE CONSUMPTION OF FOSSIL FUELS FOR ELECTRICITY GENERATION FROM THERMAL POWER STATIONS IN INDIA DURING 1998-99

State/Union Territories	Steam Stations								
	Coal (TMT)	Lignite (TMT)	Furnace Oil (KL)	HSD/ LDO (KL)	LSHS/ HHS (KL)	Natural Gas (MCM)	Heat input (K.Cal.x 10^9)	Gross Generation (GWH)	Average Heat input (K.Cal/KWH)
1	2	3	4	5	6	7	8	9	10
NORTHERN REGION									
Haryana	2947	0	4188	2344	36704	0	12345	3515	3512
Himachal Pradesh	0	0	0	0	0	0	0	0	0
Jammu & Kashmir	0	0	0	0	0	0	0	0	0
Punjab	7073	0	220	1489	11555	0	29244	10299	2839
Rajasthan	3871	0	7204	410	0	0	17619	6533	2696
Uttar Pradesh	14865	0	91162	19250	11	0	52585	18743	2805
Chandigarh	0	0	0	0	0	0	0	0	0
Delhi	1164	0	0	18793	10443	0	7350	2105	3491
Central Sector	23749	0	11969	9050	0	0	99806	37243	2679
WESTERN REGION									
Gujarat	14554	1231	11360	36937	588724	0	53683	20593	2601
Madhya Pradesh	14682	0	42110	4083	5150	0	53033	18471	2871
Maharashtra	28819	0	73966	11674	1270246	505000*	118544	46096	2572
Goa	0	0	0	0	0	0	0	0	0
Daman & Diu	0	0	0	0	0	0	0	0	0
D. & N. Haveli	0	0	0	0	0	0	0	0	0
Central Sector	17381	0	20095	410	0	0	74607	25837	2887
SOUTHERN REGION									
Andhra Pradesh	12483	0	17785	5700	0	0	42581	16446	2589
Karnataka	4273	0	6476	132	0	0	15850	6013	2635
Kerala	0	0	0	0	0	0	0	0	0
Tamil Nadu	12653	0	136355	2769	6975	0	44964	17077	2633
Pondicherry	0	0	0	0	0	0	0	0	0
Central Sector	10332	16028	3403	3783	20175	0	38362	15859	2419
EASTERN REGION									
Bihar	3555	0	55361	19561	0	0	15869	4035	3932
Orissa	2481	0	0	4881	0	0	9099	2803	3246
West Bengal	10265	0	3437	42793	0	0	48833	15248	3202
D.V.C.	5184	0	21716	79664	0	0	24683	7360	3353
Sikkim	0	0	0	0	0	0	0	0	0
Central Sector	13665	0	47792	3658	0	0	41029	16305	2516
NORTH EASTERN REGION									
Assam	65	0	4514	30467	0	0	647	163	3971
Manipur	0	0	0	0	0	0	0	0	0
Meghalaya	0	0	0	0	0	0	0	0	0
Nagaland	0	0	0	0	0	0	0	0	0
Tripura	0	0	0	0	0	0	0	0	0
Arunachal Pradesh	0	0	0	0	0	0	0	0	0
Mizoram	0	0	0	0	0	0	0	0	0
Central Sector	0	0	0	0	0	0	0	0	0
ISLANDS									
Lakshadweep	0	0	0	0	0	0	0	0	0
A & N Islands	0	0	0	0	0	0	0	0	0
TOTAL (ALL INDIA)	204061	17259	559113	297848	1949983	505000	800733	290744	2754

TMT : Thousand Metric Tonnes
KL: Kilo Litres
MCM: Million Cubic Metres
GWH: Gigawat Hour
KWH: Kilowatt Hour
*: Refinery Gas MTs
Source: Central Electricity Authority

VII. FOREIGN TRADE

VII. I IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS FROM 1970 to 2000.

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

Year	Crude Oil		Petroleum 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
1985	14811	3808.74	4292	1440.70	19103	5249.44
1990	20793	5829.62	7454	3541.64	28247	9471.26
1991	21813	6827.57	9746	5533.55	31559	12361.12
1992	29977	10423.44	10308	5711.66	40285	16143.60
1993	30309	10916.90	11954	7107.23	42263	18024.13
1994	27895	9915.10	13918	7438.77	41813	17353.87
1995	26901	10856.71	17931	10251.01	44832	21107.72
1996	32812	17194.53	20764	15454.63	53576	32649.16
1997	33573	17061.19	19839	14131.47	53412	31192.66
1998	38686	14763.56	19602	10408.47	58288	25172.03
1999	45424	26341.48	14631	10056.27	60055	36397.75
2000	73443	65879.24	6478	7749.82	79921	73629.06
			EXPORTS			
1970	—	—	412	5.72	412	5.72
1975	—	—	166	13.83	166	13.83
1980	—	—	70	17.98	70	17.98
1985	2044	503.88	1695	482.06	3739	985.94
1990	—	—	2605	941.40	2605	941.40
1991	—	—	2477	1041.13	2477	1041.13
1992	—	—	3986	1658.33	3986	1658.33
1993	—	—	4003	1547.22	4003	1547.22
1994	—	—	3482	1580.74	3482	1580.74
1995	—	—	3318	1728.55	3318	1728.55
1996	—	—	3326	2050.49	3326	2050.49
1997	—	—	2833	1926.84	2833	1926.84
1998	—	—	1916	1093.59	1916	1093.59
1999	—	—	1285	827.04	1285	827.04
2000	—	—	1035	1057.80	1035	1057.80
			NET IMPORTS			
1970	11665	102.36	558	24.81	12223	127.17
1975	13600	992.02	2125	185.63	15725	1117.65
1980	15976	3038.66	6730	1770.30	22706	4808.96
1985	12767	3304.86	2597	958.64	15364	4263.50
1990	20793	5829.62	4849	2600.24	25642	8529.88
1991	21813	6827.57	7269	4492.42	29082	11319.99
1992	29977	10423.44	6322	4052.83	36299	14485.27
1993	30309	10916.90	7951	5560.01	38260	16476.91
1994	27895	9915.10	10436	5858.03	38331	15773.13
1995	26901	10856.71	14613	8522.46	41514	19379.17
1996	32812	17194.53	17438	13404.14	50250	30598.67
1997	33573	17061.19	17006	12204.63	50579	30099.07
1998	38686	14763.56	17686	9314.88	56372	24078.44
1999	45424	26341.48	13346	9229.23	58770	35570.71
2000	73443	65879.24	5443	6692.02	78886	72571.26

Provisional

Source: IOC and OCC.

VII. 2 IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS FROM 1970-71 to 2000-01

(Qty. '000' Tonnes, Value Rs. Crore)

Year	Crude Oil		Petroleum 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	7269	1917.34	23537	5266.54
1985-86	15144	3686.80	3865	1273.90	19009	4960.40
1990-91	20699	6118.42	8660	4660.21	29359	10778.63
1991-92	23994	7820.05	9445	5218.27	33439	13038.32
1992-93	29247	10685.86	11283	6359.60	40530	17045.46
1993-94	30822	10682.52	12076	7041.93	42898	17729.95
1994-95	27349	10316.03	13951	7521.71	41300	17837.74
1995-96	27342	11517.00	20335	12577.85	47677	24094.95
1996-97	33906	18538.19	20265	15633.49	54171	34171.68
1997-98	34494	15872	22970	14309	57463	30181
1998-99	39808	14917	23772	12276	63580	27193
1999-00	57805	40028	16608	14186	74413	54214
2000-01*	74097	65932	9267	12093	83364	78025
			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
1985-86	528	135.15	1963	509.58	2491	644.73
1990-91	—	—	2648	1003.94	2648	1003.92
1991-92	—	—	2936	1214.65	2936	1214.65
1992-93	—	—	3719	1606.28	3719	1606.28
1993-94	—	—	4034	1508.81	4034	1508.81
1994-95	—	—	3254	1587.36	3254	1587.36
1995-96	—	—	3435	1831.98	3435	1831.93
1996-97	—	—	3162	2084.78	3162	2084.78
1997-98	—	—	2381	1266	2381	1266
1998-99	—	—	720	306	720	306
1999-00	—	—	746	698	746	698
2000-01*	—	—	8365	7672	8365	7672
			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
1985-86	14616	3591.65	1902	764.02	16518	4315.67
1990-91	20699	6118.42	6012	3656.29	26711	9774.71
1991-92	23994	7820.05	6509	4003.62	30503	11823.67
1992-93	29247	10685.86	7564	4753.32	36811	15439.18
1993-94	30822	10688.52	8042	5532.62	38864	16221.14
1994-95	27349	10316.03	10697	5934.33	38046	16250.36
1995-96	27342	11517.00	16900	10745.92	44242	22262.92
1996-97	33906	18538.19	17103	13548.71	51009	32086.90
1997-98	34494	15872	20589	13043	55082	28915
1998-99	39808	14917	23052	11970	62860	26887
1999-00	57805	40028	15862	13488	73667	53516
2000-01*	74097	65932	902	4421	74999	70353

*Provisional

Source: IOC and OCC, New Delhi.

VII. 3 IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS (PRODUCT-WISE) DURING 1997 TO 2000

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

ITEM		1997		1998		1999		2000	
		Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7	8	9	10
				GROSS IMPORTS@					
A.	**Crude Oil**	**33573**	**17061**	**38607**	**14514**	**45424**	**26341**	**67010**	**61252**
B.	**Petroleum Products**								
I.	**Light Distillates**	**1582**	**1572**	**1792**	**1319**	**1915**	**1821**	**3216**	**4449**
1.	Naphtha	0	0	40	24	291	231	2456	3300
2.	Others	1582	1572	1752	1295	1624	1590	760	1149
II.	**Middle Distillates**	**17850**	**12349**	**17259**	**8857**	**12368**	**7959**	**3864**	**4688**
1.	ATF	31	25	31	19	3	5	0	0
2.	SKO	3803	2854	5446	3068	5641	4164	2708	3360
3.	HSD	14016	9470	11782	5770	6724	3790	1156	1328
III.	**Heavy Ends**	**387**	**211**	**532**	**232**	**347**	**276**	**2744**	**2056**
1.	FO	358	137	514	183	288	182	1558	1209
2.	Lubes	29	74	18	49	Neg	1	156	375
3.	Others	0	0	0	0	59	93	1030	472
	TOTAL (B)	**19819**	**14132**	**19583**	**10408**	**14630**	**10056**	**9824**	**11193**
	GRAND TOTAL (A+B)	**53392**	**31193**	**58190**	**24922**	**60054**	**36397**	**76834**	**72445**
				EXPORTS@@					
A.	**Crude Oil**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
B.	**Petroleum Products**								
I.	**Light Distillates**	2221	1475	1167	607	619	404	3002	3612
1.	Naphtha	1590	1077	874	440	394	276	2014	2380
2.	Others	631	398	293	167	225	128	988	1232
II.	**Middle Distillates**	**456**	**389**	**526**	**435**	**570**	**394**	**1454**	**1780**
1.	HSD/LDO	237	213	261	212	273	255	1383	1688
2.	Others	219	176	265	223	297	139	71	92
III.	**Heavy Ends**	**156**	**63**	**232**	**51**	**96**	**29**	**1405**	**298**
1.	FO	155	63	203	48	96	29	243	179
2.	Others	1	Neg	29	3	Neg	Neg	1162	119
	TOTAL (B)	**2833**	**1927**	**1925**	**1093**	**1285**	**827**	**5861**	**5690**
	GRAND TOTAL (A+B)	**2833**	**1927**	**1925**	**1093**	**1285**	**827**	**5861**	**5690**
				NET IMPORTS					
A.	**Crude Oil**	**33573**	**17061**	**38607**	**14514**	**45424**	**26341**	**67010**	**61252**
B.	**Petroleum Products**	**16986**	**12205**	**17658**	**9315**	**13345**	**9229**	**3963**	**5503**
	TOTAL (NET IMPORTS):	**50559**	**29266**	**56265**	**23829**	**58769**	**35570**	**70973**	**66755**

@ Includes NOC imports but excludes import by Private Parties upto 1999.

@@ Includes supplies of POL Products to Nepal upto 1999.

* Provisional.

VII. 4 IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS

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

ITEM	1997-98		1998-99		1999-00		2000-01	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
GROSS IMPORTS								
A. Crude Oil	34493	15872	39808	14917	57805	40028	74097	65932
B. Pol. Products								
I. Light Distillates	3458	2415	4380	2800	3504	3766	4018	5438
1. LPG	1226	1007	1722	1273	1587	1801	853	1332
2. Naphtha	1874	1136	2407	1336	1917	1965	3165	4106
3. Others	358	272	251	191	0	0	0	0
II. Middle Distillates	18226	11340	17300	8725	11319	9260	1919	2389
1. ATF	59	39	3	4	1	4	1	3
2. SKO	4391	2905	7066	3913	6312	5543	1918	2386
3. HSD	13776	8396	10231	4808	5006	3713	0	0
4. Others	0	0	0	0	0	0	0	0
III. Heavy Ends	1286	554	2092	751	1785	1160	3330	4266
1. FO/LSHS	634	254	1696	603	1378	865	1728	1309
2. Lubes	652	300	396	148	407	295	1602	2957
3. Waxes	0	0	0	0	0	0	0	0
TOTAL(B)	22970	14309	23772	12276	16608	14186	9267	12093
GRAND TOTAL (A+B)	57463	30181	63580	27193	74413	54214	83364	78025
EXPORTS								
A. Crude Oil	0	0	0	0	0	0	0	0
B. Pol. Products								
I. Light Distillates	2048	1185	720	306	714	659	4084	4715
1. Naphtha/NGL	2048	1185	720	306	583	520	2882	3273
2. Mogas	0	0	0	0	131	139	1202	1442
3. Others	0	0	0	0	0	0	0	0
II. Middle Distillates	0	0	0	0	0	0	1757	2046
1. HSD/LDO	0	0	0	0	0	0	1597	1872
2. Others	0	0	0	0	0	0	160	174
III. Heavy Ends	333	81	0	0	32	39	2524	911
1. Fo/LSHS	333	81	0	0	0	0	508	320
2. Others	0	0	0	0	32	39	2016	591
TOTAL(B)	2381	1266	720	306	746	698	8365	7672
GRAND TOTAL (A+B)	2381	1266	720	306	746	698	8365	7672
NET IMPORTS								
A. Crude Oil	34493	15872	39808	14917	57805	40028	74097	65932
B. Pol. Products	20589	13043	23052	11970	15862	13488	902	4421
GRAND TOTAL	55082	28915	62860	26887	73667	53516	74999	70353

Note: Value of private imports is based on actual value of PSU imports Provisional.
Source: Oil Coordination Committee, New Delhi.

VII. 5 TREND IN INDIA'S OVERALL TRADE BALANCE AND TRADE BALANCE WITH OPEC COUNTRIES

(Rs. Crore)

Year	India's Overall Trade					India's Trade with OPEC Countries					% of India 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
1975-76	4036	5265	-1229	21.2	16.5	633	1166	533	35.5	6.0	15.7	22.1
1980-81	6711	12549	-5838	4.6	37.3	745	3488	-2743	3.9	44.7	11.1	27.8
1985-86	10895	19658	-8763	-7.2	14.7	835	3420	-2585	-11.5	2.8	7.7	17.8
1990-91	32558	43193	-10635	17.7	22.3	1831	7041	-5210	-0.5	38.8	5.6	16.3
1991-92	44042	47851	-3809	35.3	10.8	3852	9499	-5647	110.4	34.9	8.7	19.9
1992-93	53688	63375	-9686	21.9	32.4	5180	13690	8510	34.5	44.1	9.6	21.6
1993-94	69751	73101	-3350	29.9	15.3	7473	16377	-8904	44.3	19.6	10.7	22.4
1994-95	82674	89971	-7297	18.5	23.1	7631	19002	11371	2.1	16.0	9.2	21.1
1996-96	106353	122678	-16325	28.6	36.4	10300	25586	-15286	35.0	34.6	10.7	20.9
1996-97	118817	138920	-20103	11.7	13.2	11475	36135	-24660	11.4	41.2	9.9	26.0
1997-98	130101	154176	-24075	9.5	11.0	13110	34950	-21840	14.2	-3.3	10.1	22.7
1998-99	139753	178332	-38579	7.4	15.7	14992	32711	-17719	14.4	-6.4	10.7	18.3
1999-00	159561	215236	-55967	14.2	12.1	16910	48394	-31484	12.8	47.9	10.6	22.5
2000-01	203571	230873	27302	27.6	7.3	22223	11895	+10328	31.4	-24.6	10.9	5.2

*Provisional

Source : (i) Ministry of Commerce (ii) Economic Survey.

VII. 6 INDIA'S FOREIGN EXCHANGE RESERVES (1970-71 To 2000-01)

Year	S.D.R.S. Million	GOLD* (Rs. Crore)	Foreign Exchange (Rs. Crore)
(1)	(2)	(3)	(4)
1970-71	148.9	182.53	438.12
1975-76	202.8	182.53	1491.70
1980-81	490.5	225.58	4822.12
1985-86	115.1	274.28	7384.35
1990-91	75.9	6828.30	4388.10
1991-92	65.7	9038.8	14578.00
1992-93	12.7	10548.80	20140.50
1993-94	76.5	12794.10	47287.00
1994-95	4.6	13751.80	66005.6
1995-96	55.9	15658.50	58445.9
1996-97	1.4	14557.20	80367.5
1997-98	1.0	13394.00	102506.7
1998-99	8.0	12562.2	125412
1999-00	4.0	12972.6	152924
2000-01	2.0	12644.1	184429

SOURCE: Economic Survey/Ministry of Finance.
*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.

VII. 7 INDIA'S POL IMPORTS AS A PROPORTION TO OVERALL EXPORTS FROM THE COUNTRY 1970-71 TO 2000-01

YEAR	POL Imports		India's Total Exports		Gross POL	Net POL
	Gross	Net	Gross	Net of POL Exports	Imports as %age of total Gross Exports	Imports as %age of total Net Exports
1	2	3	4	5	6	7
1970-71	137	132	1539	1530	8.9	8.6
1975-76	1256	1242	4036	4022	31.1	30.9
1980-81	5266	5258	6711	6703	78.5	78.4
1985-86	4961	4316	10895	10250	45.5	42.1
1990-91	10779	9775	32558	31554	33.1	31.0
1991-92	13038	11824	44041	42826	29.6	27.6
1992-93	17046	15439	53688	52062	31.8	29.6
1993-94	17730	16221	69751	68242	25.4	23.8
1994-95	17838	16250	82674	81087	21.6	22.5
1995-96	24095	22263	106353	104521	22.7	21.3
1996-97	34547	32826	118817	104328	29.1	31.5
1997-98	30181	28915	130101	117058	23.2	24.7
1998-99	27193	26887	139753	127783	19.5	21.0
1999-00	54214	53516	159561	146073	34.0	36.6
2000-01	78025	70353	203571	199150	38.3	35.3

Source: For col. 4; Ministry of Commerce, DGCI & S. Calcutta.

VIII. MANPOWER

VIII. 1 MANPOWER EMPLOYED IN THE PETROLEUM INDUSTRY IN INDIA 1991-2001
(As on 1st April)

(Number)

CATEGORY	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1. Exploration & Production	58187	58627	58864	58590	57633	50244	48585	52909	51656	50942	50049
2. Refining	26479	29856	23386	22589	23031	24622	20723	25294	37619	27019	27178
3. Marketing	33074	35353	38414	39255	34270	37321	38744	37943	41806	41110	40852
4. Pipelines	3579	3711	3312	3654	3619	3712	3934	3782	3803	4180	4196
5. R & D	—	—	3035	3048	2953	2935	2901	2832	2869	2858	2723
6. Others	8359	8446	14340	14359	14929	20770	21958	15249	13580	13293	9990
Grand Total	**129678**	**135793**	**141351**	**141495**	**136435**	**139604**	**136845**	**138009**	**151333**	**139402**	**134988**

VIII. 2 CATEGORY-WISE MANPOWER EMPLOYED IN THE PETROLEUM INDUSTRY IN INDIA 1991-2001
(As on 1st April)

(Number)

CATEGORY	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1. Executive/ Managerial	32446	35848	39434	40479	40282	41460	40770	42836	43237	43971	44804
2. Supervisory	12744	11713	9623	9593	9245	8467	12295	12908	12142	12551	11807
3. Clerical	15993	17511	17633	16388	16934	16102	15520	15927	14795	13627	14127
4. Workmen	63795	65479	66201	66656	64722	65045	61174	61000	61057	60292	57693
5. Total	124978	130551	132891	133116	131183	131074	129759	132671	131231	130441	128431
6. Expatriates/ Foreign Experts/ on Contract	4700	5242	8460	8379	5252	8530	7086	5338	20102	8961	6557
GRAND TOTAL	**129678**	**135793**	**141351**	**141495**	**136435**	**139604**	**136845**	**138009**	**151333**	**139402**	**134988**

VIII. 3. CATEGORY-WISE MANPOWER EMPLOYED IN VARIOUS SECTORS OF PETROLEUM INDUSTRY IN INDIA 1991—2001
(As on 1st April)

(Number)

Category	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
EXPLORATION AND PRODUCTION											
1. Executive/Managerial	17473	18944	17447	17327	17555	17636	17318	17637	17846	17867	18560
2. Supervisory	6040	1992	4794	4948	4279	3272	4865	6513	6005	5824	5087
3. Clerical	4728	4689	4625	4281	4532	3870	3526	4305	4117	3797	3971
4. Workmen	28610	28628	31156	30941	30295	25400	22793	24444	23678	23133	22431
5. **TOTAL**	56851	57253	58022	57497	56661	50178	48502	52899	51646	50621	50049
6. Expatriates/ Foreign Experts/on Contract	1336	1374	842	1093	972	66	83	10	10	321	0
GRAND TOTAL	**58187**	**58627**	**58864**	**58590**	**57633**	**50244**	**48585**	**52909**	**51656**	**50942**	**50049**
PETROLEUM REFINING@											
1. Executive/Managerial	5287	6261	4527	4437	4271	5450	4236	5746	5079	5175	5534
2. Supervisory	1471	1653	1432	889	1195	642	1719	2269	1922	1928	2740
3. Clerical	3256	4514	2773	1938	2479	2129	2033	2804	2092	1886	2748
4. Workmen	14856	15649	12012	12280	11893	12546	11144	12504	13434	13652	13017
5. **TOTAL**	24870	28077	20744	19544	19838	20767	19132	23323	22527	22641	24039
6. Expatriates/Foreign Experts/on Contract	1609	1579	2642	3045	3193	3855	1591	1971	15092	4378	3139
GRAND TOTAL	**26479**	**29656**	**23386**	**22589**	**23031**	**24622**	**20723**	**25294**	**37619**	**27019**	**27178**
MARKETING											
1. Executive/Managerial	7884	8644	8526	9327	8678	8978	9623	9522	10864	10924	11619
2. Supervisory	2041	1851	2061	2210	2314	2482	2721	2524	2584	2605	2188
3. Clerical	5746	5984	6085	6214	5566	5392	5428	5190	5916	5910	5726
4. Workmen	15716	16644	16912	17753	17291	17216	17719	17454	18128	18125	18010
5. **TOTAL**	31387	33123	33584	35504	33849	34068	35491	34690	37492	37564	37543
6. Expatriates/Foreign Experts/on Contract	1687	2230	4830	3751	421	3253	3253	3253	4314	3546	3309
GRAND TOTAL	**33074**	**35353**	**38414**	**39255**	**34270**	**37321**	**38744**	**37943**	**41806**	**41110**	**40852**

@Includes IOC's Head Office, Regional Offices.

IX. PRICES

IX. 1 WHOLESALE PRICE INDICES OF SELECTED PETROLEUM PRODUCTS

(1993-94 = 100)

Products	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01
LPG	109.5	109.5	131.4	150.0	162.0	176.1	248.2
Petrol	106.5	106.5	131.1	144.5	148.1	148.1	154.2
High Speed Diesel Oil	108.8	108.8	120.9	145.2	148.7	176.4	228.8
Light Diesel Oil	109.5	109.4	133.7	141.8	143.4	168.2	232.2
Kerosene	100.0	100.0	100.8	101.1	100.9	101.9	270.2
Furnace Oil	99.5	99.4	120.3	118.3	108.6	131.2	203.5
Aviation Turbine Fuel	100.0	99.7	107.1	109.6	109.6	109.9	144.2
Lubricating Oil	103.2	105.0	119.0	123.9	130.0	134.9	142.6
Naphtha	100.0	100.0	119.8	144.8	146.1	191.0	294.7
Bitumen	100.0	100.0	126.6	145.1	145.6	156.7	203.5
All commodities	121.6	121.6	127.2	132.8	140.7	145.3	155.7

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

IX.2(a) PRICES OF INDIGENOUS CRUDE IN INDIA WITH RATE OF ROYALTY & OIL DEVELOPMENT CESS

(Rs./MT)

DATE/WEF	BASIC PRICE	ROYALTY	CESS	BASIC RATE	S. TAX ON BASIC RATE	TOTAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
up to 13.7.75	on import parity basis Rs. 713.04/MT					
(A) ONSHORE CRUDE (ON LONG RUN SOCIAL MARGINAL COST BASIS ADOPTED)						
14.07.75	270.04	—	—	270.04	—	270.04
08.09.76	245.42	—	60.00	305.42	—	305.42
16.12.77	203.42	42.00	60.00	305.42	—	305.42
01.04.81	203.42	61.00	60.00	305.42	—	324.42
(B) OFFSHORE CRUDE						
16.12.77	331.65	42.00	60.00	433.65	—	433.65
01.04.81	331.65	61.00	60.00	452.65	—	452.65
(C) OFFSHORE & ONSHORE CRUDE*						
11.07.81	1021.00	61.00	100.00	1182.00	—	1182.00
15.02.83	1021.00	61.00	300.00	1382.00	—	1382.00
01.04.84	1021.00	192.00	300.00	1513.00	5.24	1518.24
01.03.87	1021.00	192.00	600.00	1813.00	17.24	1830.24
01.04.87	1021.00	314.00	600.00	1935.00	22.12	1957.12
01.02.89	1021.00	314.00	900.00	2235.00	34.12	2269.12
01.04.90	1021.00	481.00	900.00	2402.00	40.80	2442.80
16.09.92	1506.00	481.00	900.00	2887.00	115.46	3002.48
01.04.93	**1741.00	**528.00	900.00	3169.00	126.76	3295.76
01.04.96	**1991.00	**578.00	900.00	3469.00	138.76	3607.76
01.04.98	@					

@ w.e.f. 1.4.98, price of indigenous crude has been linked to weighted average FOB price of actual import of crude with the floor price of Rs. 1991/MT for the basic price payable to ONGC/OIL exclusive of cess of Rs. 900/MT and royalty of 20%. The price is fixed on monthly basis. Upper ceiling of Rs. 5570/MT has also been fixed by the Government w.e.f. November 1999.

Effective June 1999, royalty is being paid based on the revised formula.

The methodology for arriving at the well head-value is as under:

(i) Royalty amount may be deducted from the selling price after applying 10% debit on this amount to arrive at the well-head value.

(ii) Cess for the time being may not be deducted from the selling price to arrive at the well-head value of the crude oil.

(iii) 20% of well-head value would be considered for working out the royalty subject to an upper ceiling of Rs. 800/MT.

* Long run social marginal cost basis given up.

** Provisional

Source: Oil Coordination Committee, New Delhi.

IX.2(b) CONSUMER PRICES OF NATURAL GAS
(Excluding Royalty, Taxes and All Statutory Levies)

(Rs./'000' cubic metres)

Effective Date	Off-shore (Landfall point) and On-shore	Gas along HBJ Pipelines	For North-Eastern States	Calorific Value Range (K. Cal/SCM)
(1)	(2)	(3)	(4)	(5)
01.01.1995	1850	2700	1000	10000
01.10.1997	2150	3300	1200	10000
01.01.1998	2411	3561	1315	10000
01.04.1998	2271	3421	1250	10000
01.07.1998	2246	3396	1307	10000
01.10.1998	2222	3372	1200	10000
01.01.1999	2215	3365	1274	10000
01.04.1999	2167	3317	1224	10000
01.07.1999	2499	3649	1499	10000
01.10.1999	2850	4000	1700	10000
01.04.2000	2850	4000	1700	10000
01.07.2000	2850	4000	1700	10000
01.10.2000	2850	4000	1700	10000
01.01.2001	2850	4000	1700	10000
01.04.2001	2850	4000	1700	10000

Note:
1. w.e.f. 01.10.1997 the price of gas has been linked to the price of a basket of LSHS Fuel Oils. The price is fixed on quarterly basis
2. The price of gas was linked to a calorific value range of 9000-9500 K Cal/Standard Cu. Mtr. during 01.05.1995 to 30.09.1997.
3. w.e.f. 01.10.1997 the price of gas is linked to calorific value of 10000 K Cal/Standard Cubic Metres.
4. Gas price along HBJ pipeline includes Rs. 1150/- towards HBJ transportation w.e.f. 01.10.1997. The aforesaid transportation charges are linked to the calorifc value of 8500 K Cal/Standard Cubic Metres.
5. The discount of Rs. 400/- was applicable in case of gas price for North Eastern States upto 30.09.1997 thereafter w.e.f. 01.10.1997 the applicable discount in case of gas price for North Eastern States in Rs. 300/ 1000 Standard Cubic Metres.

IX.3 DEVELOPMENT OF BASIC CEILING SELLING PRICES (EX-STORAGE POINT) OF PETROLEUM PRODUCTS

(Rs./Selling Unit)

Product	Selling Unit	7.7 1996	2.9 1997	1.4 1998	03.06 1998	01.02 1999	28.02 1999	06.10 1999	03.04 2000	30.09 2000	01.04 2001
ATF	KL	10838	10838	10838	10838	10838	10759	10759	12759	14759	10927
MS 83/87	"	16055	17055	17055	15495	15495	15399	15399	15399	18999	18999
MS 93	"	19180	20180	20180	18335	18335	18239	18239	18239	21839	21839
MS-AKI 84	"									19079	19079
HSDO	"	6575	8375	7839	7537	6722	6622	9635	9635	11934	11934
HSD (0.05% SULPHUR)	"									12334	12334
SKO	"	2001	2001	2001	2001	2001	2001	2001	4501	7001	6110
LPG	MT	6901	7958	7958	7958	8944	8732	8732	10845	13029	12427

Note: Price of HSD is fixed normally on monthly basis

Source : Oil Coordination Committee, New Delhi.

IX.4 EX-STORAGE POINT PRICES OF MAJOR DECONTROLLED PETROLEUM PRODUCTS (EXCLUSIVE OF DUTIES ETC.)

Product	Selling Unit	Refinery	As on 1.9.00	As on 15.9.00	As on 16.9.00	As on 28.9.00	As on 10.10.00	As on 17.10.00	As on 1.11.00	As on 16.11.00	As on 5.12.00	As on 15.12.00	As on 1.01.01	As on 1.02.01	As on 16.02.01
NAPHTHA	Rs./MT	Mathura	14330		15480			16530	15520	14520		13460	11430	11830	12870
		Barauni	14190		15340			16390	15380	14380		13320	11290	11690	12730
		Koyali	14080		15230			16280	15270	14270		13210	11180	11580	12620
		Panipat	14450		15600			16650	15640	14640		13580	11550	11950	12990
		Port Ref.	13760		14910			15960	14950	13950		12890	10860	11260	12300
FO	Rs./Kl	Mathura		9520		9520	10050				9740	8720	7610	7320	7950
		Barauni													
		Koyali		9290		9290	9820				9120	8120	7380	7090	7720
		Panipati													
		Port Ref.		8990		8990	9520				9210	8190	7080	6790	7420
		Mumbai		8040		8600	9130				8820	7820			
LSHS	Rs./MT	Mathura		10000			10570				10240	9150	7960	7650	8320
		Barauni		10060			10630				10300	9210	8020	7710	8380
		Koyali		9750			10320				9570	8900	7710	7400	8070
		Panipat		10120			10690				10360	9270	8080	7770	8440
		Port. Ref.		9630			10200				9870	8780	7590	7280	7950
		Mumbai		8680			9780				9450	8380			

Source : Oil Coordination Committee, New Delhi.

IX.5 PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS IN MAJOR CITIES AS ON 1.4.2001

MARKET	N. DELHI	CALCUTTA	MUMBAI	CHENNAI	KANPUR
		MOTOR SPIRIT (Rs./Litre)			
	05%S+1%	05%S			
STORAGE POINT PRICE	19299.01	19079.01	19299.01	18999.01	18999.01
STATE SURCHARGE	4.00	480.00	29.00	872.00	336.00
BMC SURCHARGE	0.00	0.00	477.00	0.0	0.00
SIDING CHARGE	5.84	0.00	0.00	0.00	11.34
RLY\OCEAN\FREIGHT	89.84	29.87	0.00	0.00	187.11
RPO SURCHARGE	60.00	60.00	60.00	60.00	60.00
RPO CHARGE	4.36	4.36	4.36	4.36	4.36
ASSESSABLE VALUE	19463.05	19653.24	19869.37	19935.37	19597.82
EXCISE DUTY RATE (%)	16.00%	16.00%	16.00%	16.00%	16.00%
EXCISE DUTY AMOUNT	3114.09	3144.52	3179.10	3189.66	3135.65
SUB TOTAL	22577.14	22797.76	23048.47	23125.03	22733.47
RED. TO ARR. CONTROL PRICE	4.36	4.36	4.36	4.36	4.36
RPO CHARGE	48.36	48.36	48.36	48.36	48.36
SPL. EXCISE DUTY	1000.00	1000.00	1000.00	1000.00	1000.00
SUB TOTAL	23621.14	23841.76	24092.47	24169.03	23777.47
DELIVERY CHARGES BEYOND FDZ	0.00	10.72	0.00	0.00	0.00
RPO PRICE	23621.14	23852.48	24092.47	24169.03	23777.47
SALES TAX PERCENT	20.00%	20.00%	30.00%	24.00%	20.00%
SALES TAX AMOUNT	4724.23	4770.50	7227.74	5800.57	4755.49
DEALER COMMISSION	402.00	402.00	402.00	402.00	402.00
RSP\KL	28747.37	29024.97	31722.21	30371.60	28934.97
RSP\LTR	**28.75**	**29.03**	**31.73**	**30.38**	**28.94**

Cont'd...

IX. 5 PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS IN MAJOR CITIES AS ON 1.4.2001

MARKET	N.DELHI	CALCUTTA	MUMBAI	CHENNAI	KANPUR
	HIGH SPEED DIESEL OIL Rs/Litre				
STORAGE POINT PRICE	12334.17	11934.60	12334.17	11934.60	11934.60
STATE SURCHARGE	2.00	300.00	18.00	545.00	210.00
BMC SURCHARGE	0.00	0.00	299.00	0.00	0.00
SIDING CHARGE	6.35	0.00	0.00	0.00	12.33
RLY/OCEAN/FREIGHT	100.39	21.93	0.00	0.00	209.54
RPO SURCHARGE	20.00	20.00	20.00	20.00	20.00
RPO CHARGE (EXCISABLE)	0.27	0.27	0.27	0.27	0.27
ASS. VALUE ADJ.	0.00	0.00	0.00	0.00	16.27
ASSESABLEVALUE	12463.18	12276.80	12671.44	12499.87	12403.01
EXCISE DUTY RATE (%)	12.00%	12.00%	12.00%	12.00%	12.00%
EXCISE DUTY AMOUNT	1495.58	1473.22	1520.57	1499.98	1488.36
SUB TOTAL	13958.76	13750.02	14192.01	13999.85	13891.37
RED. TO ARR. CONTRL PRICE	0.27	0.27	0.27	0.27	16.54
RPO CHARGE (TOTAL)	44.27	44.27	44.27	44.27	44.27
SPL. EXCISE DUTY	1000.00	1000.00	1000.00	1000.00	1000.00
SUB TOTAL	15002.76	14794.02	15236.01	15043.85	14919.10
DELIVERY CHARGES BEYOND FDZ	0.00	10.72	0.00	0.00	0.00
RPO PRICE	15002.76	14804.74	15236.01	15043.85	14919.10
SALES TAX PERCENT	12.00%	12.55%	34.00%	18.00%	20.00%
SALES TAX AMOUNT	1800.33	1857.99	5180.24	2707.89	2983.82
SURCHARGE ON SALES TAX%	0.00%	0.00%	0.00%	0.00%	0.00%
DEALER COMMISSION	251.00	251.00	251.00	251.00	251.00
RSP\KL	17054.09	16913.73	20667.26	18002.75	18153.92
RSP\LTR	17.06	16.92	20.67	18.01	18.16

Cont'd...

IX.5 PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS IN MAJOR CITIES AS ON 1.4.2001

MARKET	N.DELHI	CALCUTTA	MUMBAI	CHENNAI	KANPUR
	SUPERIOR KEROSENE OIL Rs./Litre				
STORAGE POINT PRICE	6110.00	6110.00	6110.00	6110.00	6110.00
STATE SURCHARGE	0.00	62.00	4.00	113.00	44.00
BMC SURCHARGE	0.00	0.00	62.00	0.00	0.00
SIDING CHARGE	6.02	0.00	0.00	0.00	11.70
RLY/PL/OCEAN/FREIGHT	57.91	20.81	0.00	0.00	116.77
ASS. VALUE	6173.93	6192.81	6176.00	6223.00	6282.47
EXCISE DUTY RATE	8.00%	8.00%	8.00%	8.00%	8.00%
EXCISE DUTY AMOUNT	493.91	495.42	494.08	497.84	502.60
SUB TOTAL	6667.84	6688.23	6670.08	6720.84	6785.07
SALES TAX PERCENT	4.00%	4.55%	4.00%	4.00%	10.00%
SALES TAX AMOUNT	266.71	304.31	266.80	268.83	678.51
SURCHARGE ON SALES TAX%	0.00%	0.00%	10.00%	0.00%	0.00%
SURCHARGE ON SALES AMT	0.00	0.00	26.68	0.00	0.00
SUB TOTAL	6934.56	6992.55	6963.56	6989.67	7463.57
CESS/TOLL CHARGES/TOT RATE	0.00	0.00	1.00%	0.00	0.00
CESS/TOLL CHARGES/TOT AMT	0.00	0.00	69.64	0.00	0.00
LESS STATE GOVT SUBSIDY	0.00	0.00	0.00	.600.00	0.00
EX-MI/ DEPOT PRICE/KL-OILCO	**6934.56**	**6992.55**	**7033.20**	**6389.67**	**7463.57**
EX-MI/ DEPOT PRICE/KL.ST.GOVT	**6934.56**	**6992.55**	**7033.20**	**6389.67**	**7463.57**
WHOLESALES MARGIN	126.00	126.00	170.00	143.00	59.00
TRASPORT CHARGES	214.40	203.30	211.00	52.25	110.00
LEAKAGE AND OTHER EXPENSES	0.00	0.00	0.00	0.00	67.00
WHOLESALES PRICE/KL	**7274.96**	**7321.85**	**7414.20**	**6584.92**	**7699.57**
RETAILER MARGIN	69.00	100.00	109.00	360.00	140.00
LEAKAGE AND OTHER EXPENSES	0.00	130.00	49.74	0.00	40.00
RETAILER TRANSPORTATION	0.00	205.18	0.00	30.00	0.00
ROUNDING UP	0.00	0.00	-2.94	25.08	20.43
RETAIL SELLING PRICE/KL	**7343.96**	**7757.03**	**7570.00**	**7000.00**	**7900.00**
RSP/LTR	**7.35**	**7.76**	**7.57**	**7.00**	**7.90**

Cont'd...

IX.5 PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS IN MAJOR CITIES AS ON 1.4.2001

MARKET	N. DELHI	CALCUTTA	MUMBAI	CHENNAI	KANPUR
	AVIATION TURBINE FUEL (D) Rs./Litre				
STORAGE POINT PRICE	14759.32	14759.32	14759.32	14759.32	14759.32
STATE SURCHARGE	2.00	335.00	20.00	609.00	235.00
BMC SURCHARGE	0.00	0.00	334.00	0.00	0.00
SIDING CHARGE	5.96	0.00	0.00	0.00	0.00
RLY/OCEAN/FREIGHT	98.63	20.38	0.00	0.00	205.23
AIRFIELD CHARGES	61.44	61.44	61.44	61.44	78.94
ASSESSABLE VALUE	14927.35	15176.14	15174.76	15429.76	15278.49
EXCISE DUTY RATE (%)	16.00%	16.00%	16.00%	16.00%	16.00%
EXCISE DUTY AMOUNT	2388.38	2428.18	2427.96	2468.76	2444.56
SUB TOTAL	17315.73	17604.32	17602.72	17898.52	17723.05
OCTROI AT LOCAL SUPPLY PT	0.00	0.00	0.00	0.00	10.00
PRICE AT LOCAL SUPPLY PT.	17315.73	17604.32	17602.72	17898.52	17733.05
PAP PRICE AT AIRFIELD/KL	**17315.73**	**17604.32**	**17602.72**	**17898.52**	**17733.05**
ENTRY TAX PERCENT	0.00%	0.00%	0.00%	0.00%	0.00%
RATE WITH ET	17315.73	17604.32	17602.72	17898.52	17733.05
SALES TAX PERCENT	20.00%	25.00%	25.00%	24.00%	20.00%
SALES TAX AMOUNT	3463.15	4401.08	4400.68	4295.65	3546.61
SURCHARGE ON SALES TAX %	0.00%	0.00%	0.00%	0.00%	0.00%
PRICE INCL. SALES TAX	20778.87	22005.40	22003.40	22194.17	21279.66
CESS ADVALOREM-RATE	0.00%	0.00%	0.00%	0.00%	0.00%
SELLING PRICE/KL	20778.87	22005.40	22003.40	22194.17	21279.66
SP/LTR	**20.78**	**22.01**	**22.00**	**22.19**	**21.28**

Cont'd...

IX.5 (Concluded) PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS IN MAJOR CITIES AS ON 1-4-2001

(Rs./Kl)

	DELHI	KOLKATA	MUMBAI	CHENNAI	KANPUR
LIQUEFIED PETROLEUM GAS (DOMESTIC) (Rs./14.2 Kg Cyl)					
BASIC PRICE	176.46	176.46	176.46	176.46	176.46
STATE SURCHARGE	0.03	3.86	4.08	7.01	2.70
FREIGHT UPTO BOTTLING PLANT	1.52	2.43	0.00	0.00	3.14
ASSESSABLE VALUE	178.01	182.76	180.54	183.47	182.30
EXCISE DUTY	14.24	14.62	14.44	14.68	14.58
PRICE AT BOTTLING PLANT	192.25	197.38	194.98	198.15	196.88
FREIGHT/LOCAL DELIVERY CHARGES	0.75	0.75	0.75	0.75	0.75
OCTROI/TRANSIT TAX	0.00	0.00	0.00	0.00	0.00
PRICE INCLUDING OCTROI	193.00	198.13	195.73	198.90	197.63
CENTRAL SALES TAX/SALES TAX	15.44	33.68	15.66	15.91	19.76
BILLABLE RATE	208.44	231.81	211.39	214.81	217.40
SUB TOTAL	208.44	231.81	211.39	214.81	217.40
PRICE TO DEALER (14.2KG/CYL)	208.44	231.81	211.39	214.81	217.40
DISTRIBUTOR COMMISSION	13.83	13.83	13.83	13.83	13.83
RSP FOR 14.2 KG/CYL	222.27	245.64	225.22	228.64	231.22
RSP/CYL (ROUNDED)	222.25	245.65	225.20	228.65	231.20
FURNACE OIL					
EX-STORAGE POINT PRICE		7420.00	7420.00	7420.00	
STATE SURCHARGE		105.00	191.60	272.00	
NOTIONAL RAILWAY FREIGHT		160.00	0.00	0.00	
ASSESSABLE VALUE		7685.00	7611.60	7692.00	
EXCISE DUTY@16%		1229.60	1217.86	1230.72	
TOTAL INCLUSIVE OF EXCISE DUTY		8914.60	8829.46	8922.72	
SALES TAX		1782.92	1350.91	1427.64	
SURCHARGE ON SALES TAX		0.00	135.09	142.76	
TOTAL		10697.52	10180.36	10350.36	
LIGHT DIESEL OIL					
EX-STORAGE POINT PRICE	12190.00	12190.00	12190.00	12190.00	
STATE SURCHARGE	25.00	82.17	121.28	175.49	
NOTIONAL RAILWAY FREIGHT	324.33	340.00	0.00	0.00	
ASSESSABLE VALUE	12514.33	12612.17	12311.28	12365.49	
EXCISE DUTY@16%	2002.29	2017.95	1969.80	1978.48	
TOTAL INCLUSIVE OF EXCISE DUTY	14516.62	14630.12	14281.08	14343.97	
SALES TAX	1741.99	1836.08	2185.01	2581.91	
SURCHARGE ON SALES TAX	0.00	0.00	0.00	258.19	
TOTAL	16258.61	16466.20	16466.09	16925.88	

IX.6 TRENDS IN RETAIL SELLING PRICES OF SELECTED PETROLEUM PRODUCTS IN METROPOLITAN TOWNS IN INDIA

PRICES AS ON	MUMBAI	CALCUTTA	DELHI	MADRAS	KANPUR
			MOTOR SPIRIT (Rs./LITRE)		
01.01.1975	3.26	3.27	3.27	3.19	3.35
08.06.1980	5.15	5.14	5.11	4.90	5.22
17.03.1985	7.34	7.16	7.00	7.39	7.16
01.04.1990(Ms-87)	10.76	10.07	9.84	11.09	10.31
01.04.1991	13.74	12.53	12.23	13.81	12.73
01.04.1992	16.71	15.48	14.62	17.17	15.19
01.04.1993	17.91	16.59	15.71	18.74	16.35
01.03.1994	19.11	17.70	16.78	19.98	17.45
08.04.1995	19.26	17.68	16.80	19.98	18.12
01.04.1996	19.26	17.67	16.95	19.98	18.12
01.04.1997	24.03	22.05	21.13	24.91	22.40
01.04.1998	25.79	23.54	22.84	26.79	23.76
01.04.1999	28.25	24.56	24.01	27.99	26.06
03.04.2000	28.47	26.33	26.07	27.99	26.08
01.04.2001	31.73	29.03	28.75	30.38	28.94
			HIGH SPEED DIESEL OIL (RS./LITRE)		
01.01.1975	1.06	1.10	1.11	1.15	1.15
08.06.1980	2.21	2.25	2.28	2.24	2.34
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
01.04.1990	4.30	4.20	4.08	4.36	4.44
01.04.1991	5.62	5.20	5.05	5.42	5.42
01.04.1992	5.68	5.31	5.05	5.72	5.42
01.04.1993	6.88	6.43	6.17	6.91	6.54
01.03.1994	7.78	7.27	6.98	7.80	7.38
08.04.1995	7.84	7.25	6.99	7.80	7.69
01.04.1996	7.84	7.24	6.99	7.80	7.68
01.04.1997	9.00	8.32	8.02	8.86	8.65
01.04.1998	11.43	10.55	10.25	11.30	10.85
01.04.1999	11.84	10.18	10.03	10.91	10.92
01.04.2000	16.91	14.20	14.56	15.24	15.17
01.04.2001	20.07	16.92	17.06	18.01	18.16

IX. 6 (Concluded) TRENDS IN RETAIL SELLING PRICES OF SELECTED PETROLEUM PRODUCTS IN METROPOLITAN TOWNS IN INDIA

PRICES AS ON	MUMBAI	CALCUTTA	DELHI	MADRAS	KANPUR
		SUPERIOR KEROSENE (RS./LITRE)			
01.01.1975	1.01	1.05	1.08	1.10	1.25
08.06.1980	1.39	1.49	1.54	1.55	1.59
17.03.1985	2.10	2.18	2.18	2.08	2.25
26.03.1985	2.03	2.12	2.11	2.08	2.25
01.04.1990	2.17	2.27	2.25	2.29	2.50
01.04.1991	2.66	2.90	2.77	2.95	3.04
01.04.1992	2.44	2.70	2.52	2.80	2.78
01.04.1993	2.44	2.75	2.54	2.80	2.78
01.03.1994	2.53	2.80	2.58	2.80	2.78
08.04.1995	2.55	2.80	2.57	2.80	2.85
01.04.1996	2.55	2.80	2.58	2.80	2.85
01.04.1997	2.55	2.80	2.58	2.80	2.80
01.04.1998	2.55	3.05	2.56	2.80	2.79
01.04.1999	2.63	3.01	2.51	2.76	2.75
01.04.2000	5.37	5.84	5.55	5.64	5.95
01.04.2001	7.57	7.76	7.35	7.00	7.90
		LIQUIFIED PETROLEUM GAS (RS./CYLINDER)			
	14.2 kg. cyl	15kg. cyl	15kg. cyl	15kg. cyl	15kg. cyl
01.01.1975	22.10	27.79	27.36	23.91	27.61
13.08.1981	38.94	49.09	45.53	—	46.26
17.03.1985	49.95	56.34	51.35	50.74	54.89
01.04.1990	49.95	56.34	51.35	50.74	54.89
01.04.1990	56.15	63.20	57.61	57.44	61.56
01.04.1991	56.15	63.20	57.61	57.44	60.64
01.04.1992	66.81	77.20	67.90	71.06	71.43
01.04.1993	81.54	93.81	82.57	86.58	87.01
01.03.1994	91.94	105.52	93.07	97.55	98.00
10.04.1995	91.94	105.27	93.28	97.55	98.37
01.04.1996	94.40	107.00	93.08	98.05	98.90
01.04.1997	118.60	136.65	119.95	124.10	126.25
01.04.1998	137.85	158.55	136.00	145.05	144.38
01.04.1999	147.85	170.00	146.00	155.35	154.95
01.04.2000	199.00	217.20	196.55	202.40	204.50
01.04.2001	225.20	245.65	222.25	228.65	231.20

Note: w.e.f. 17.3.1985 the prices shown for the LPG cylinder refers to 14.2 Kg for all the metropolitan cities in the Country.

IX. 7 RATES OF DEALER'S COMMISSION FOR MS, HSDO AND LPG IN INDIA

Effective from	(.....Motor Spirit.....) (Rs./Kl) Slab of annual volume of sale (Kl Annual)						(.....High Speed Diesel Oil.....)-(Rs./Kl) Slab of annual volume of sales (Kl Annual)							LPG (Rs./cylinder)	
	Effective from 1.7.1982				Effective from 1.9.1993#		Effective from 1.7.1982				Effective from 1.9.1993#			Upto 2500 refills p.m.	Above 2500 refills p.m.
	0-360	361-600	601-1080	Over 1080	0-600	Above 600	0-360	361-600	601-1080	Over 1080	0-600	Above 600			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17.3.1985	146	108	95	76	—	—	83	62	44	38	—	—	—	—	—
20.3.1990	250	179	160	138	—	—	135	92	42	66	—	—	—	—	—
15.10.1990	279	204	182	155	—	—	145	101	77	70	—	—	—	—	—
17.5.1991	279	204	182	155	—	—	145	101	77	70	—	—	5.70	—	—
25.7.1991	311	233	206	172	—	—	145	101	77	70	—	—	5.70	—	—
16.9.1992	321	240	214	180	—	—	155	111	83	75	—	—	5.70	—	—
1.4.1993	381	277	248	217	—	—	186	128	101	92	—	—	5.70	—	—
1.9.1993	—	—	—	—	363	224	—	—	—	—	190	90	—	7.30	6.50
2.2.1994*	—	—	—	—	363	224	—	—	—	—	195	90	—	7.30	6.50
1.4.1994*	—	—	—	—	376	232	—	—	—	—	196	93	—	7.30	6.50
1.4.1995*	—	—	—	—	378	233	—	—	—	—	197	93	—	7.80@	6.95@@
1.4.1996*	—	—	—	—	380	234	—	—	—	—	197	93	—	8.05@	7.15@@
7.7.1996*	—	—	—	—	387	238	—	—	—	—	200	94	—	8.05@	7.15@@
1.4.1997*	—				389	239	—	—	—	—	201	94	—	8.30@	7.40@@
6.11.1997*	—	—	—	—	409	409	—	—	—	—	222	168	—	10.50@	10.50@@
1.4.1998*	—	—	—	—	411	411	—	—	—	—	223	169	—	10.80@	10.80@@
1.4.1999*	—	—	—	—	413	413	—	—	—	—	224	170	—	11.10@	11.10@@
6.10.1999	—	—	—	—	413	413	—	—	—	—	238	184			
5.1.2000*	—	—	—	—	462	462	—	—	—	—	257	257	—	13.83@	13.83@@
1.4.2000	—	—	—	—	—	—	—	—	—	—	—	—	—	14.28	14.28@

Exclusive of demand draft charges.

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

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

@ up to 3000 Cyl per month

@@ Above 3000 Refills per month

* For Dealers on demand drafts an amount of Rs. 40/Kl for MS & Rs. 16/Kl for HSD shall be paid additionally.

सत्यमेव जयते

INDIAN PETROLEUM & NATURAL GAS STATISTICS

2000-01

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

GOVERNMENT OF INDIA
MINISTRY OF PETROLEUM & NATURAL GAS

FOREWORD

The Ministry of Petroleum & Natural Gas publishes every year the annual bulletin "Indian Petroleum & Natural Gas Statistics" containing comprehensive information on the Oil & Gas Sector, beginning from 1967 upto 1999-2000. The bulletin provides information both in terms of calendar year and the financial year, to cater to the requirements of the different users. It also sets out in brief the financial structure of the public sector undertakings under the purview of the Ministry and includes the control orders issued.

The present compilation providing data for the period 2000-01, represents the efforts of the Economics & Statistics Division of the Ministry.

We would welcome suggestions to restructure the report or improve its presentability.

(B.K. Chaturvedi)
Secretary to the Government of India

Shastri Bhawan
New Delhi-110001
April 2002

MINISTRY OF PETROLEUM & NATURAL GAS
ECONOMICS & STATISTICS DIVISION

PREFACE

The Economics & Statistics Division of the Ministry of Petroleum & Natural Gas have conscientiously endeavoured to bring out this compilation on the Indian Petroleum & Natural Gas Statistics from 1967. This has been made possible with inputs furnished by the various Ministries and departments of the Government of India, Oil Coordination Committee as well as the oil companies.

Part I of the compilation deals with the Indian Petroleum statistics, Part II with international petroleum statistics, part III with plan statistics (including the draft X plan figures) and part IV focusses on the financial performance and structure of the oil companies.

We express our deep sense of gratitude to these providers of data and record our appreciation for the efforts put in by the officials of the Economics & Statistics Division viz. Shri A.P.S. Sawhney, Assistant Director, Shri Khursheed Alam, Research Officer, Sr. Investigators Shri D.C. Garg and Dr. P.G.S. Rao, Ms. Parvesh Goswami, UDC, Ms. Kanwaljit Kaur, Jr. Investigator.

Suggestions for improvement would be duly appreciated.

S. Vijayaraghavan

(S. Vijayaraghavan)
Joint Secretary to the Government of India

Shastri Bhawan,
New Delhi-110001
April 2002

X. 4 ROYALTY AND OIL DEVELOPMENT CESS PAID BY OIL COMPANIES ON PRODUCTION OF CRUDE OIL AND NATURAL GAS SINCE 1975-76 to 2000-01

(Rs. Lakhs)

Year	Royalty Paid on Crude Oil						Royalty Paid on Natural Gas					Oil
	Western Region	Eastern Region	Southern Region	Total On Shore	Bombay High/KG Off Shore	Total	Western Region	Eastern Region	Southern Region	B. High/KG Off-Shore	Total	Development Cess
1	2	3	4	5	6	7	8	9	10	11	12	13
1975-76	615	645	-	1260	-	1260	43	26	-	-	69	3081
1980-81	1578	531	-	2109	1997	4106	168	36	-	50	253	6040
1985-86	18275	12433	-	25708	12155	37863	242	96	-	1905	2243	86629
1990-91	39424	26074	1291	66789	136037	202826	1283	421	68	12038	18810	278197
1991-92	17723	19385	964	38072	52885	90957	1910	428	216	18859	21418	250077
1992-93	47037	31250	2674	80961	126901	207862	2391	520	720	17229	20860	219198
1993-94	30672	24704	2086	57462	69683	127145	2912	547	862	19585	23906	217538
1994-95	32041	25660	2245	59946	96157	156103	2975	422	854	18154	22405	264559
1995-96	32716	25239	2182	60137	103576	163713	3753	457	956	21952	27118	277735
1996-97	34897	26305	2400	63602	105549	169151	3661	403	1262	22004	27330	266747
1997-98	34210	27951	2531	64652	115390	180042	4839	675	2065	33956	41535	283757
1998-99	33256	27972	3033	64261	106739	171000	4831	982	2301	35667	43781	275385
1999-00	40551	33452	3632	77635	127260	204895	6036	1784	2785	44117	54722	271633
2000-01	46416	39577	5431	91424	135789	227213	5472	1350	3282	50732	60836	272760

Note:
1. Figures for 1984-85 & 1985-86 have undergone due to increase in Royalty rate from Rs. 61/- Per metric tonne to 192/- Per metric tonne.
2. Figures of Royalty in 1987-88 include payments for 1986-87 and advance payments made for 1988-89. While some payments for 1987-88 has made by ONGC in 1988-89. These figures also include royalty on condensate and NGL.
3. Figures of Crude Oil Royalty for 1990-91 include 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 include 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.

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X. 6 EX- STORAGE POINT CEILING SELLING PRICES OF MAJOR PETROLEUM PRODUCTS AND RATES OF EXCISE DUTY w.e.f. 1.3.2001

(Rs./Selling Unit)

Products	Selling Unit	Ex-storage prices Without Excise duty	Rate of duty %
1	2	3	4
LNG	—	—	16%
NGL	—	—	16%
MS-87	KL	18999.01	16@
MS-93	KL	21839.01	16
LSHS	MT	8410.00	16
HS DO	KL	11934.60	16@
HSD (0.05% Sulphur)	KL	12334.17	16
FO	KL	7850.00	16
SKO (Domestic)	KL	6110.00	8
SKO-Industrial	KL	6518.63	8
LDO	KL	12190.00	16
ATF (Domestic)	KL	14759.32	16
Naphtha-fert $	MT	12780.00	16
Naphtha-other $	MT	13350.00	16
LPS-Packed (non-Domestic)	MT	12426.76	8

@: Rs. 1.00 per litre is Additional Excise Duty.

X. 7 SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS IN DIFFERENT STATES AS ON 1.4.2001

S. No.	Products	Andhra Pradesh	Arunachal Pradesh	Assam	Bihar	Goa	Gujarat	Haryana
1	2	3	4	5	6	7	8	9
A. CRUDE & GAS								
1.	Crude Oil	4%	4 % CST	4%CST	4%	4%	4%	4%
2.	Natural Gas	16%	No Tax	13.2%	—	8%	20%	10%
B. PETROLEUM PRDUCTS								
3.	Aviation Spirit	30.50%	No Tax	20%	25%	20%	30% Bonded 9%Duty Paid	20%
4.	Aviation Turbine Fuel	30.55%	No. Tax	20%	25%	20% 20%	30% Bonded 23% Duty Paid	20%
5.	Motor Spirit	30.55%	do	20%	20%	19%	20%	20%
6.	H.S.D.	19.33%	do	12%	15%	17%	18%	10%
7.	L.D.O.	19.33%	do	12%	15%	20%	8%	10%
8.	M.L.O.	16.%	do	20%	9%	8%	12%	10%
9.	S.K.O.	8%	do	4%	6%	Exempt	Exempt	10%
10.	I.K.O.		do			4%	8%	
11.	F.O.	16%	do	20%	8%	18%	12%	10%
12.	M.T.O.	16%	do	20%	9%	20%	12%	10%
13.	Lubes	16%	do	12%	16%	12%	15%	10%
14.	Greases	16%	do	12%	16%	20%	15%	10%
15.	Petroleum Naphtha	12%	do	12%	12%	18%	20%	12%
16.	Bitumen/Asphalt	12%	do	20%	9%	20%	12%	10%
17.	Petroleum Coke	16%	do	4%	4%	2%	4%	4%
18.	Indane (LPG)	16%	do	13.2%	9%	20%Exempt	14%	10%
19.	Transformer Oil	16%	do	12%+4.ocst	9%	8%	12%	10%
20.	H.B. Fluid	16%	do	20%	9%	20%	12%	10%
21.	L.S.H.S.	16%	do	12%	9%	18%	15%	10%

*Household/Other Use

TAXES APPLICABLE IN ADDITION TO THE SALES TAX AS ON 1.4.2001.

ASSAM 10% Addl. Tax on Sales Tax is payable. This is not recoverable from the customers.

BIHAR (1) 1% Addl. Tax on gross turnover is payable. (Not applicable on MS, HSD, LDO, SKO, F.O., Av. Gas, ATF and Declared goods) This is recoverable from customers.

(2) 10% Surcharge on Sales Tax is payable, but not recoverable from the customers.

GOA Addl. Sales Tax @ the following rates on Sales Tax not on declared goods is payable but the same is not recoverable from the customers.

(a) On gross Turnover above Rs. 2 Crores but less than Rs. 7 Crores 15%
(b) On gross Turnover above Rs. 7 Crores " " 15 Crores 20%
(c) On gross turnover above is 15 Crores 25%

GUJARAT Additional Tax: @ 20% on tax on (MST products) i.e. MS, HSD, AV, Spirit, ATF and 10% on GST products. This is recoverable from the Turnover Tax: @ 2% on taxable turnover on MST products excluding exempted sales. This is not recoverable from customers and Turnover Tax: @ 10% on Taxable turnable on GST products. This is not recoverable from customers.

X. 7 (Contd.) SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS IN DIFFERENT STATES AS ON 1.4.2001

S. No.	PRODUCTS	Himachal Pradesh	J&K	Karnataka	Kerala	Madhya Pradesh	Maharashtra	Manipur
		9	10	11	12	13	14	15
A.	**CRUDE OIL & GAS**							
1.	Crude Oil	4%	4%	4%	4%	4%	4%	4%
2.	Natural Gas	8%	20%	10%	24%	8%	13%	
B.	**PETROLEUM PRODUCTS**							
3.	Aviation Spirit	20%	20%	22%	30%	25%	—	20%
4.	Aviation Turbine Fuel	20%	20%	22%	30%	25%	Bonded 30% Duty Paid 25%	20%
5.	Motor Spirit	20%	20%	22%	23%	25%	29%	20%
6.	H.S.D.	10%	12%	15.5%	20%	25%	31%	12%
7.	L.D.O.	10%	8%	15.5%	37%	12%	13%	12%
8.	M.L.O.	8%	20%	12%	24%	8%	13%	—
9.	S.K.O.	8%	4%	4% (PDS)	8%	2%	4%	4%
10.	I.K.O.			10%	—	—	20%	—
11.	F.O.	8%	20%	12%	24%	8%	13%	20%
12.	M.T.O.	8%	20%	20%	24%	8%	13%	20%
13.	Lubes	8%	20%	12%	24%	12%	13%	20%
14.	Greases	8%	20%	12%	24%	12%	13%	20%
15.	Petroleum Naphtha	12%	12%	12%	17%	8%	13%	12%
16.	Bitumen/Asphalt	8%	20%	12%	24%	8%	13%	20%
17.	Petroleum Coke	4%	4%	4%	4%	4%	4%	4%
18.	Indane (LPG)	8%	12%	10%	12%	12%	8%13%	8%
19.	Transformer Oil	8%	20%	12%	24%	12%	13%	20%
20.	H.B. Fluid	8%	20%	12%	24%	8%	13%	—
21.	L.S.H.S.	8%	20%	12%	20%	8%	13%	20%

*Household/Other Use

TAXES APPLICABLE IN ADDITION TO THE SALES TAX AS ON 1.4.2001

JAMMU & KASHMIR

Surcharge @ 5% of Sales Tax is payable. This does not apply to products falling under MST (I.E. MS, HSD). This is recoverable from the customers.

KARNATAKA

(1) CESS:

(a) @ 5% on Sales Tax on all products except Petrol & Diesel.

(b) @ 25 paise per litre on Petrol.

(c) @ 10 paise per litre on Diesel.

This CESS is payable by those dealers who are purchasing and selling within the state of Karnataka. This is recoverable from the customers.

(2) Turnover Tax on Total (TOT) at the following rate is payable, but not recoverable from customers.

(a) On TOT up to Rs. 1000 lacs 1.5%

(c) Above Rs. 1000 lacs 3%

Second & subsequent sale of MS, SKO, HSD, LPG, exempted.

TOT on LDO, HSD 1%

MADHYA PRADESH

Surcharge: @ 15% on Commercial Tax on all products except of Declared goods ATF, Av. gas, MS, HSD is payable, recoverable from the customers.

MAHARASHTRA

1. Turnover Tax: @ 1%, on Taxable Turnover on all products except on Petrol/Diesel/ATF, Av. Gas, LPG (Domestic), SKO (Domestic) This is recoverable from the customers.
2. Surcharge: @ 10% on Sales Tax on all products except on Petrol Diesel / ATF, AV. Gas. This is recoverable from the customers.

X. 7 (Contd.) SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS IN DIFFERENT STATES AS ON 1.4.2001

S. No.	PRODUCTS	Nagaland	Orissa	Punjab	Rajasthan	Tamil Nadu
		16	17	18	19	20
A.	**CRUDE OIL & GAS**					
1.	Crude Oil	4%	4%	4%	4%	4%
2.	Natural Gas	12%	—	8%	11.5%	16%
B.	**PETROLEUM PRODUCTS**					
3.	Aviation Spirit	—	20%	20%	23%	24%
4.	Aviation Turbine Fuel	15%	20%	20%	23%	24%
5.	Motor Spirit	24%	20%	20%	23%	24%
6.	H.S.D.	15%	20%	8%	16%	18%
7.	L.D.O.	15%	20%	20%	16%	18%
8.	M.L.O.	—	12%	8%	10%	16%
9.	S.K.O.	5%	4%	20%	8%	4%
10.	I.K.O.	—	—	—	—	—
11.	F.O.	12%	4%	8%	10%	16%
12.	M.T.O.	12%	12%	8%	16%	16%
13.	Lubes	20%	12%	8%	12%	16%
14.	Greases	20%	12%	8%	12%	16%
15.	Petroleum Naphtha	12%	12%	12%	12%	16%
16.	Bitumen/Asphalt	12%	8%	20%	12%	11%
17.	Petroleum Coke	—	4%	4%	4%	4%
18.	Indane (LPG)	12%	12%	8%	12%	18%
19.	Transformer Oil	12%	12%	6%	10%	16%
20.	H.B. Fluid	—	12%	8%	10%	11%
21.	L.S.H.S.	12%	12%	20%	10%	16%

TAXES APPLICABLE IN ADDITION TO THE SALES TAX AS ON 1.4.2001.

ORISSA — Surcharge: @ 15% of Sales Tax is payable. This is not recoverable from the customers.

PUNJAB — 1. Social Security Cess: @ 10% of the Sales Tax is payable. This is recoverable from the customers.
2. CESS: @ 1% on Advolerem basis for MS.

RAJASTHAN — Surcharge: @ 15% of the Sales Tax is payable. This is recoverable from the customers. Turnover Tax: @ 0.25% on Turnover is payable on all products. (Dealers of MS & HSD exempted on the condition that they have to pay @. 50% on TOT & 15% S/C on TOT.

TAMIL NADU — Additional Tax @ the following rate is payable on the Taxable Turnover. This is not recoverable from the customers.

On Taxable Turnover	
(a) below Rs. 10 lacs	Nil
between Rs. 10 to 40 lacs	1.25%
between Rs. 40 lacs to 1 crs.	1.50%
between Rs. 1 crs to 5 crs.	2.00%
between Rs. 5 crs to 10 crs.	2.25%
between Rs. 10 crs to 300 crs.	2.50%
above Rs. 300 crs.	3.00%

X.7 (Concluded) SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS IN DIFFERENT STATES AS ON 1.4.2001

S. No.	PRODUCTS	Jharkhand	Sikkim	Tripura	Uttar Pradesh	West Bengal	Chandigarh	Delhi
		21	22	23	24	25	26	27
A. CRUDE OIL & GAS								
1.	Crude Oil	4%	—	4%	4%	4%	4%	4%
2.	Natural Gas	4%	—	12%	20%	—	8%	20%
B. PETROLEUM PRODUCTS								
3.	Aviation Spirit	25%	20%	20%	20%	20%	20%	20%
4.	Aviation Turbine Fuel	25%	20%	20%	20%	25%	20%	20%
5.	Motor Spirit	20%	20%	20%	20%	20%	20%	20%
6.	H.S.D.	15%	10%	5%	20%	12.55%	5%	12%
7.	L.D.O.	15%	10%	5%	20%	12.55%	8%	12%
8.	M.L.O.	9%	—	—	15%	10%	8%	8%
9.	S.K.O.	6%	12%	5%	10%	4.55%PDS	8%	4%
10.	I.K.O.	—	—	—	—	7.5%	—	12%
11.	F.O.	8%	20%	5%	20%	20%	8%	20%
12.	M.T.O.	9%	8%	5%	20%	5%	8%	20%
13.	Lubes	16%	12%	12%	20%	15%	8%	20%
14.	Greases	16%	12%	12%	20%	15%	8%	20%
15.	Petroleum Naphtha	12%	12%	5%	20%	12%	8%	20%
16.	Bitumen/Asphalt	9%	8%	5%	20%	10%	8%	20%
17.	Petroleum Coke	—	4%	4%	4%	4%	4%	4%
18.	Indane (LPG)	9%	12%	12%	10%	17%	8%	8%
19.	Transformer Oil	—	—	5%	10%	10%	8%	8%
20.	H.B. Fluid	16%	12%	12%	10%	15%	8%	8%
21.	L.S.H.S.	9%	8%	5%	20%	10%	8%	20%

Note: 1. Wherever (-) is shown against any of the product rates, same indicates Sales Tax rate not availabe.

TAXES APPLICABLE IN ADDITION TO THE SALES TAX AS ON 1.4.2001.

14. TRIPURA — Additional tax @ 0.5.% on taxable turnover payable, This is not recoverable from the customers.

15. UTTAR PRADESH — Additional tax @ 25% on sales tax is payable. This is included in the billable rates shown in rate chart (Not applicable on MS, Av. gas, ATF, LDO, HSD & Crude Oil This is recoverable from the customers.

16. WEST BENGAL — Additional tax @ 20% on Tax ST/SC/Addl. tax) on MS, HSD, LDO, ATF is payable. This is not recoverable from the coustomers.

17. CHANDIGARH — Surchage @ 10% on Sales Tax is payable on all the products. This is recoverable from the customs.

X.8 SALES TAX PAYMENTS (INCLUSIVE OF MST AND CST) ON CRUDE OIL CONDENSATES, NATURAL GAS AND PETROLEUM PRODUCTS MADE BY THE OIL COMPANIES TO STATE/UT GOVERNMENTS DURING THE YEARS 1992-93 TO 2000-01

(Rs./Lakhs)

STATE/UTs	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01
1	2	3	4	5	6	7	8	9	10
1. CRUDE OIL									
Assam	5017	6205	6122	5976	6218	6590	6618	8896	10634
Gujarat	6542	7349	7675	7826	8333	8170	7933	10851	12574
Arunachal Pradesh	50	69	41	23	32	29	27	34	614
Nagaland	65	72	14	0	0	0	0	0	0
Andhra Pradesh	0	0	0	0	0	53	86	6	103
Maharashtra*	16368	15207	21312	23441	22814	22486	20311	25765	29321
Tamil Nadu	365	464	492	470	453	447	504	718	957
TOTAL (1)	**28407**	**29366**	**35656**	**37736**	**37850**	**37775**	**35479**	**46270**	**54203**
2. NATURAL GAS									
Assam	520	497	580	722	1065	1257	1569	2497	3036
Gujarat	17205	8701	5931	7924	26642	31638	35010	38863	44568
Maharashtra (Bombay High)	6505	6602	8775	4998	6776	7264	11853	9509	10772
Rajasthan	0	0	0	8	7	1260	107	148	157
Arunachal Pradesh	0	0	0	0	0	0	0	0	0
Tamil Nadu	38	40	28	39	101	129	97	286	390
Tripura	93	82	78	113	127	207	410	629	760
Uttar Pradesh	0	0	0	0	5654	7080	8376	10908	12334
Haryana	0	0	0	0	0	350	0	0	0
Madhya Pradesh	0	0	0	0	2565	2426	7436	6180	6972
Andhra Pradesh	1097	1368	1374	1627	2143	5316	5180	6762	8022
TOTAL (2)	**25458**	**17290**	**16766**	**15431**	**45080**	**56927**	**70038**	**75782**	**87011**
3. POL. PRODUCTS									
Andhra Pradesh	41956	51981	61688	73029	88786	110110	109847	158452	194146
Assam	5292	5581	7030	8150	13011	11866	14801	19298	24568
Arunachal Pradesh	0	0	0	0	0	2	0	0	190
Bihar	18258	19966	22818	25181	29497	36503	33775	57416	61684
Chhattisgarh	0	0	0	0	0	0	0	0	6763
Gujarat	62218	71876	88738	97801	118159	141668	149204	176193	203068
Haryana	6874	8339	9488	10402	18469	23906	26202	41750	71515
Himachal Pradesh	418	489	496	614	806	876	1379	4155	7625
Jammu & Kashmir	1261	1564	1742	2305	2568	3464	4098	7009	11153
Jharkhand	0	0	0	0	0	0	0	0	10988
Karnataka	35426	44452	49346	60135	77274	98126	94173	116533	140413
Kerala	39708	41540	45693	56791	70780	83885	89928	86602	134010
Madhya Pradesh	20824	24364	31365	36178	42813	62255	69222	76902	86495
Maharashtra	83192	92755	116384	128425	152663	184845	176887	285395	386015
Manipur	338	452	463	464	592	535	523	888	1362
Meghalaya	1	1	6	110	277	319	515	796	1380
Mizoram	95	108	113	134	177	197	126	250	339
Nagaland	60	99	147	155	222	295	182	769	907
Orissa	6553	8272	10003	11802	14974	18456	22283	24359	34861
Punjab	9221	10487	10834	13845	17263	19505	20259	43865	76277
Rajasthan	22033	24963	30236	36759	44588	49755	64911	80114	101883
Tamil Nadu	61016	73144	80939	93275	117578	134604	148699	206292	236552
Tripura	336	321	354	391	476	599	636	759	1356
Uttar Pradesh	40387	46152	55540	66992	79487	94489	105988	152489	196708
Uttaranchal	0	0	0	0	0	0	0	0	4721
West Bengal	29452	34294	39183	39132	47867	56217	62270	74411	95276
Goa	4994	6746	8023	8187	10137	12256	12338	19026	21944
Sikkim	0	37	57	53	80	107	111	281	613
UnionTerritories									
Daman & Diu	0	0	13	18	29	31	25	38	119
Chandigarh	79	106	130	147	186	171	176	482	1732
Delhi	10194	12667	15248	23407	28964	35828	34697	53797	81164
Dadra & Nagar Haveli	0	0	0	0	0	2	1	3	5
Pondicherry/Mane	6	16	105	180	221	228	208	237	412
Total (3)	**500192**	**580772**	**686182**	**794062**	**977944**	**1181100**	**1243464**	**1688561**	**2196244**
GrandTotal (1+2+3)	**554057**	**627428**	**738604**	**847229**	**1060874**	**1275802**	**1348981**	**1810613**	**2337458**

*-Central Government

Source: Oil Companies

XI. TRANSPORTATION

XI. 1 TONNAGE OF INDIAN TANKERS FLEET 1975 TO 2001

(DWT in 000'Mts.)

Year*	Coastal oil Tanker				Total Coastal Oil Tanker		Offshore Supply Vessels		Specialised Vessels for Offshore		Total Offshore Supply Vessels & Specialised Vessels for Offshore		Overseas								Overseas Total		Total All Tanker	
	Product Carriers		Crude Oil Carriers										Ore Oil Bulk		Crude Oil Carriers		Product Carriers		LPG Carriers					
	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT	No. of Tanker	DWT
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1975	—	—	—	—	9	137.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31	2420.0	40	2557.6
1980	—	—	—	—	10	158.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	38	3335.3	48	3493.8
1985	—	—	—	—	18	300.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	48	3807.0	66	4113.1
1990	13	185.6	2	88.2	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	88.2	16	268.3	63	75.9	31	70.7	94	146.6	9	990.5	23	2206.4	25	601.9	1	17.0	58	3815.4	168	4230.3
1992	15	217.0	2	82.2	17	299.2	63	75.9	32	70.8	95	146.7	8	889.0	23	2206.4	25	601.4	2	34.7	58	3731.5	170	4177.4
1993	11	144.9	2	82.2	13	227.1	67	84.9	33	61.9	100	146.8	3	312.0	25	2441.0	34	1065.6	2	34.7	64	3853.3	177	4227.2
1994	11	144.9	2	82.2	13	227.1	73	99.9	27	61.2	100	153.1	3	312.0	29	3052.0	31	839.9	2	34.7	65	4238.6	178	4618.8
1995	12	145.5	2	82.2	14	227.7	74	99.9	27	62.8	101	154.7	3	312.0	32	3475.0	31	833.2	2	34.7	68	4654.9	183	5037.3
1996	12	148.0	2	82.2	14	230.2	71	87.0	26	61.9	97	148.9	3	312.0	33	3615.0	34	1001.0	3	52.9	73	4980.9	184	5360.0
1997	11	131.6	2	82.2	13	213.8	71	87.0	27	63.2	98	150.2	3	312.0	31	3212.5	36	1231.9	4	71.0	74	4827.4	185	5191.4
1998	9	129.8	2	82.2	11	212.0	69	80.8	25	56.7	94	137.5	3	312.0	31	3212.5	37	1280.4	5	99.4	76	4904.3	181	5253.8
1999	10	122.2	2	82.2	12	204.4	69	80.8	26	56.7	95	137.5	3	312.0	31	3212.5	40	1451.3	6	138.1	80	5113.9	187	5455.8
2000	11	132.0	2	82.2	13	214.2	68	81.2	27	57.2	95	138.4	3	312.0	35	3709.3	43	1573.3	6	138.1	87	5732.7	195	6085.3
2001**	10	83.2	2	82.2	12	165.4	69	85.4	27	59.2	96	144.6	4	355.1	34	3455.7	45	1656.5	5	138.1	89	5605.4	197	5915.4

*As on 31st December upto 1988 and thereafter 31st March of each year.

**As on 30th June.

Source: Directorate General of Shipping, Mumbai

DWT=Dead Weight Tonnage

XI. 2 INDIAN TONNAGE AS ON 30.6.2001

(Tonnes)

	Owner of the Ship	Gross Registered Tonnage	Dead Weight Tonnage
	COASTAL TRADE		
	TANKERS (Product Carriers)		
A.	M/s Foods, Fats & Fertilisers	396	596
B.	M/s Essar Shipping Ltd., Mumbai	17237	30465
C.	M/s Reliance Industries Ltd.	14960	23497
D.	M/s ICICI Ltd.	4412	6618
E.	M/s Jaisu Shipping (P) Ltd.	1873	2808
F.	M/s Associated Maritime Pvt. Ltd.	1090	2052
G.	M/s Hede Ferrominas (P) Ltd.	493	872
H.	M/s Amar Ship Management	3391	6535
I.	M/s Mercator Lines	6649	9755
	Total	**50501**	**83198**
	TANKERS (Crude Oil Carriers)		
A.	The Shipping Corpn. of India Ltd., Mumbai	54943	82249
	Total	**54943**	**82249**
	OFFSHORE SUPPLY VESSELS		
A.	M/s Garware Shipping Corpn. Ltd., Mumbai	4405	5300
B.	The Great Eastern Shipping Co. Ltd., Mumbai	12311	14014
C.	M/s Essar Shipping Ltd., Mumbai	3939	5253
D.	M/s VNS Offshore Services Co., Mumbai	487	737
E.	M/s Hede Ferrominas Pvt. Ltd., Goa	628	747
F.	The Shipping Corpn. of India Ltd. Mumbai	13100	17904
G.	Oil & Natural Gas Commission, Mumbai	37089	40138
H.	Admn. of Union Territory of Lakshadweep	738	960
I.	GAL Offshore Shipping Co.	640	0
J.	M/s Seaspan Shipping	157	126
K.	M/s Dolphin Offshore	363	247
L.	M/s Seatrans Shipping	69	0
	Total	**73926**	**85426**
	SPECIALISED VESSELS FOR OFFSHORE SERVICES		
A.	M/s Essar Shipping Ltd. Mumbai	4485	2970
B.	M/s South East Asia Marine Engg. & Construction Ltd.	11211	5498
C.	M/s Oil & Natural Gas Commission, Mumbai	51729	42220
D.	M/s. Raj Shipping	715	1469
E.	M/s Samson Maritime	482	670
F.	M/s Elcome Surveys	392	469
G.	M/s Bombay Offshore Supplies & Services	491	407
H.	M/s. South India Corpn. (Agencies) Ltd.	490	860
I.	M/s Jaisu Shipping Co. (P) Ltd.	99	99
J.	Director General of Lighthouses & Lightships	3357	1730
K.	The Geological Survey of India	2942	2013
L.	The Council of Scientific & Industrial Research	2661	800
M.	Department of Ocean Development	188	0
	Total	**79242**	**59205**

XI. 2 (Concluded) INDIAN TONNAGE AS ON 31.3.2001

(Tonnes)

	Owner of the Ship	Gross Registered Tonnage	Dead Weight Tonnage
	OVERSEAS (ORE OIL BULK CARRIERS)		
A.	The Shipping Corpn. of India Ltd., Mumbai	161317	289994
B.	M/s Essar Shipping Ltd., Mumbai	38831	65075
	Total	**200148**	**355069**
	OIL TANKERS (CRUDE CARRIERS)		
A.	The Shipping Corpn. of India Ltd., Mumbai	1217542	2225972
B.	M/s Ratnakar Shipping Co. Ltd., Calcutta	40614	60300
C.	The Great Eastern Shipping Co. Ltd.	137084	250390
D.	M/s Essar Shipping Ltd., Mumbai	480010	919080
	Total	**1875250**	**3455742**
	OIL TANKERS (PRODUCTS CARRIERS)		
A.	The Shipping Corpn. of India Ltd., Mumbai	304305	490778
B.	The Great Eastern Shipping Co. Ltd.	424237	703636
C.	M/s Varun Shipping Co. Ltd.	59016	97241
D.	M/s Essar Shipping Ltd., Mumbai	24634	39206
E.	M/s Century Shipping, Mumbai	16899	29990
F.	M/s Sanmar Shipping Corporation	56034	101200
G.	M/s Infrastructure Leasing & Financial Services Ltd.	29864	48532
H.	M/s ASM Shipping	18101	30990
I.	M/s Pratibha Shipping Ltd.	61867	107582
J.	M/s Tarun Shipping	4462	7334
	Total	**999419**	**1656489**
	LPG CARRIERS		
A.	The Shipping Corpn. of India Ltd., Mumbai	35556	35202
B.	M/s Varun Shipping Co. Ltd.	61874	74520
C.	The Great Eastern Shipping Co. Ltd.	21308	28400
	Total	**118738**	**138122**

Source : Directorate General of Shipping, Mumbai.

XI. 3 SHARE OF TRAFFIC OF PETROLEUM PRODUCTS IN THE TOTAL TRAFFIC HANDLED AT MAJOR PORTS

(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
Kolkata/Haldia	1969-70	6.89	1.53	22.5
	1979-80	8.56	4.58	53.5
	1989-90	14.45	6.44	44.6
	1990-91	15.24	7.26	47.6
	1995-96	21.52	10.74	40.0
	1996-97	23.12	10.98	47.5
	1997-98	28.16	14.34	50.9
	1998-99	29.38	15.75	53.6
	1999-00	31.03	16.47	53.1
	2001-01*	29.96	14.22	47.5
Mumbai	1969-70	15.04	8.60	57.2
	1979-80	16.57	7.84	47.3
	1989-90	28.55	18.58	65.1
	1990-91	29.79	19.89	66.8
	1995-96	34.05	30.15	59.2
	1996-97	33.73	18.71	55.5
	1997-98	32.10	16.73	52.1
	1998-99	30.97	16.78	54.2
	1999-00	30.41	16.79	55.2
	2000-01*	26.95	15.63	58.0
Chennai	1969-70	6.44	2.24	34.8
	1979-80	9.99	3.73	37.3
	1989-90	23.94	9.72	40.6
	1990-91	24.52	9.83	40.1
	1995-96	30.72	11.57	37.7
	1996-97	31.85	12.45	39.1
	1997-98	35.53	11.59	32.6
	1998-99	35.20	10.57	30.0
	1999-00	37.44	10.05	26.8
	2000-01*	41.22	8.32	20.2
Kochi	1969-70	4.79	3.56	74.3
	1979-80	5.47	3.87	70.8
	1989-90	7.13	5.59	78.4
	1990-91	7.28	5.80	79.7
	1995-96	11.50	9.36	81.4
	1996-97	11.74	9.23	78.6
	1997-98	12.17	9.77	80.3
	1998-99	12.68	9.45	74.5
	1999-00	12.80	9.95	77.7
	2000-01*	13.12	9.67	73.7

*Provisional

Contd....

XI.3 (Contd.) SHARE OF TRAFFIC OF PETROLEUM PRODUCTS IN THE TOTAL TRAFFIC HANDLED AT MAJOR PORTS

(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
	1989-90	18.93	14.36	75.9
	1990-91	19.69	15.06	76.5
	1995-96	30.34	22.34	73.6
	1996-97	33.73	25.06	74.3
	1997-98	38.90	29.02	74.6
	1998-99	40.64	30.47	75.0
	1999-00	46.30	34.61	74.8
	2000-01*	36.74	25.02	68.1
J.N.P.T.	1989-90	0.70	—	—
	1990-91	2.03	—	—
	1995-96	6.87	—	—
	1996-97	8.07	—	—
	1997-98	8.90	0.68	7.6
	1998-99	11.72	1.17	10.0
	1999-00	14.98	1.41	9.4
	2000-01*	18.58	1.81	9.7
Visakhapatnam	1969-70	8.30	1.94	23.4
	1979-80	10.23	1.94	19.0
	1989-90	21.12	6.83	32.3
	1990-91	19.42	5.60	28.8
	1995-96	32.82	12.54	38.2
	1996-97	34.50	13.38	38.8
	1997-98	36.01	12.12	33.7
	1998-99	35.65	12.80	35.9
	1999-00	39.51	15.29	38.7
	2000-01*	44.69	18.34	41.0
Mormugao	1969-70	9.03	0.15	1.1
	1979-80	14.80	0.73	4.9
	1989-90	14.17	1.04	7.3
	1990-91	14.91	1.37	9.2
	1995-96	18.10	1.91	10.6
	1996-97	17.31	1.23	7.1
	1997-98	21.18	1.13	5.3
	1998-99	18.20	1.05	5.8
	1999-00	18.23	1.14	6.3
	2000-01*	19.63	1.09	5.6
Paradip	1969-70	1.75	—	—
	1979-80	2.31	—	—
	1989-90	6.18	—	—
	1990-91	6.88	—	—
	1995-96	11.26	1.07	9.5
	1996-97	11.58	1.69	14.6
	1997-98	13.30	1.74	13.1
	1998-99	13.11	2.01	15.3
	1999-00	13.64	2.22	16.3
	2000-01*	19.90	2.20	11.1

JNPT= Jawahar Lal Nehru Port *Provisional Contd.

XI.3 (Concluded) SHARE OF TRAFFIC OF PETROLEUM PRODUCTS IN THE TOTAL TRAFFIC HANDLED AT MAJOR PORTS

(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
Port of Tuticorin	1979-80	2.41	0.44	18.3
	1989-90	5.32	0.48	9.0
	1990-91	5.08	0.47	9.3
	1995-96	9.29	0.44	4.7
	1996-97	9.17	0.43	4.7
	1997-98	9.97	0.42	4.2
	1998-99	10.15	0.39	3.8
	1999-00	9.99	0.46	4.6
	2000-01*	12.28	0.40	3.3
New Mangalore	1979-80	0.90	0.21	23.3
	1989-90	7.66	0.58	7.6
	1990-91	8.03	0.61	7.6
	1995-96	8.88	0.96	10.8
	1996-97	12.45	4.92	39.5
	1997-98	15.28	6.51	42.6
	1998-99	14.21	6.46	45.5
	1999-00	17.60	8.32	47.3
	2000-01*	17.89	9.96	55.7
Grand Total	1979-80	78.49	28.78	36.7
	1989-90	148.14	63.60	42.9
	1990-91	152.86	65.88	43.1
	1995-96	215.34	91.07	42.3
	1996-97	227.26	98.08	43.2
	1997-98	251.51	104.04	41.4
	1998-99	251.73	106.88	42.5
	1999-00	271.92	116.71	42.9
	2000-01*	280.96	106.63	38.0

Source: Ministry of Shipping.
* Provisional

XI. 4 MOVEMENTS OF POL TRAFFIC ON RAILWAYS SINCE 1970-71

Year	Tonnes Originating ("000' MTS)	Earnings ("000' Rs.)	Average Lead (Kms)	Earnings (Paisa/ Tonnes/Km)	Average Freight Col.3 Divided Col.2 (Rs./Tonnes)
1	2	3	4	5	6
1970-71	8857	464081	594	8.8	52.40
1975-76	11663	860925	605	12.2	73.82
1980-81	14954	1835693	780	15.7	122.76
1985-86	18635	4705145	588	42.9	252.49
1990-91	24988	9617393	605	63.6	384.88
1991-92	25555	10264888	606	66.3	401.68
1992-93	26412	11733798	603	73.7	444.26
1993-94	25950	14596035	638	88.4	562.50
1994-95	27724	18009092	655	99.1	649.58
1995-96	28909	19993460	667	103.7	689.56
1996-97	28516	20310003	652	109.2	712.23
1997-98	30727	25212161	640	128.3	820.52
1998-99	32993	25740998	616	126.7	780.19
1999-00	34260	24733162	544	132.6	721.92
2000-01	36180	26632553	549	134.1	736.11

Source: Railway Board.

XI. 5 RAIL FREIGHT RATES IN RESPECT OF PETROLEUM PRODUCTS

(Rs./kms.)

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)								
15.04.1985	78.0	175.2	267.0	433.3	526.4	721.1	876.2	1011.5
01.04.1990	106.1	256.1	411.2	567.2	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
16-8-1991	120.0	289.5	465.0	743.3	910.7	1301.1	1599.2	1829.1
01-4-1992	129.0	311.2	499.9	799.0	979.0	1399.8	1719.1	1966.3
01-4-1993	141.9	342.3	549.4	894.9	1096.5	1567.8	1925.4	2202.3
01-4-1994	141.9	347.0	579.4	929.3	1163.4	1684.4	2090.2	2390.8
01-4-1995	151.8	371.3	620.0	994.4	1244.8	1802.3	2236.5	2558.2
01-8-1996	167.0	408.4	682.0	1093.8	1369.3	1982.5	2460.2	2814.0
01-4-1997	187.0	457.4	763.8	1225.1	1533.6	2220.4	2755.4	3151.7
01-4-1999	194.5	475.7	794.5	1274.1	1594.9	2309.2	2865.6	3277.8
01-4-2000	216.4	531.4	887.7	1425.2	1785.2	2584.7	3207.8	3669.2
01-4-2001	222.9	547.3	914.3	1468.0	1838.8	2662.2	3304.0	3779.3
NON-DANGEROUS (POL-PRODUCTS)								
15-4-1985	63.9	141.7	215.1	348.3	422.7	578.5	702.6	810.8
01-4-1990	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
16-8-1991	105.5	252.6	404.8	646.0	791.0	1130.4	1387.7	1587.1
01-4-1992	109.5	261.7	409.0	668.4	818.2	1169.2	1435.1	1641.2
01-4-1993	133.4	320.4	514.6	836.4	1024.1	1464.2	1798.2	2056.5
01-4-1994	133.4	324.8	542.1	868.5	1086.6	1573.2	1952.1	2232.5
01-4-1995	142.7	347.5	580.0	929.3	1162.7	1683.3	2088.7	2388.8
01-8-1996	157.0	382.3	638.0	1022.2	1279.0	1851.6	2227.6	2827.7
01-4-1997	175.8	428.2	714.6	1144.9	1432.5	2073.8	2573.3	2943.0
01-4-1999	182.8	445.3	714.3	1190.7	1489.8	2156.8	2676.2	3060.7
01-4-2000	186.5	454.2	758.1	1214.5	1519.6	2199.9	2729.7	3121.9
01-4-2001	192.1	467.8	780.8	1250.9	1565.2	2265.9	2811.6	3215.6

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

Source: Railway Board.

XI. 6 CRUDE OIL, NATURAL GAS & PRODUCT PIPELINES IN INDIA

Type of Pipeline/owner	Length (in Kms.) As on 1st April						
	1995	1996	1997	1998	1999	2000	2001
CRUDE PIPELINES (ON SHORE)							
ONGC	763	791	810	843	888	966	975
OIL	1517	1524	1524	1524	1538	1538	1538
IOC	1230	1230	1230	1689	2210	2373	2373
HPCL		11	11	11	11	11	11
SUB TOTAL	3510	3556	3574	4067	4646	4888	4897
CRUDE PIPELINES (OFF SHORE)							
ONGC	525	667	667	667	667	667	731
IOC	6	6	6	14	14	14	14
SUB TOTAL	531	673	673	681	681	681	745
GAS PIPELINES (ON SHORE)							
ONGC	371	630	644	654	679	685	687
GAIL	3038	3116	3829	3938	4017	4077	4205
OIL	90	90	90	90	90	90	213
BPCL	2	2	2	2	2	2	2
SUB TOTAL	3500	3838	4564	4683	4787	4854	5107
GAS PIPELINES (OFF SHORE)							
ONGC	622	638	638	638	638	638	660
SUB TOTAL	622	638	638	638	638	638	660
PRODUCT PIPELINES (ON SHORE)							
IOC(AOD)	108	69	69	69	69	69	75
IOC	2527	3981	3981	3981	3981	3981	4136
BPCL	74	74	77	398	415	482	553
HPCL	—	191	191	563	563	585	585
ONGC	—	8	8	8	8	8	14
RPL	—	—	—	—	—	113	113
GAIL	—	—	—	—	—	—	1233
SUB TOTAL	2709	4324	4327	5020	5037	5249	6709
PRODUCT PIPELINES (OFF SHORE)							
BPCL	3	3	3	3	3	3	3
ONGC	48	48	48	48	48	48	48
SUB TOTAL	51	51	51	51	51	51	51
GRAND TOTAL	10924	13080	13828	15141	15841	16361	18169

XII. MARKETING NETWORK

XII. 1 RETAIL OUTLETS IN INDIA AS ON 1ST JANUARY OF EACH YEAR, COMPANY- WISE

(NUMBERS)

Year	Retail Outlets	B/Shell BPCL	ESSO/ HPCL	CALTEX/ HPCL (VMU)	IOC	IBP	AOC/ AOD	TOTAL
1	2	3	4	5	6	7	8	9
1970	Nos.	3577	1922	1392	2655	233	129	9908
	%	10.1	19.3	14.0	26.8	2.4	1.4	100
1975	Nos.	3173	1867	1206	3546	525	163	10480
	%	30.3	17.8	11.5	33.8	5.0	1.6	100
1980	Nos.	3296	3198@		4231	975	173	22873
	%	27.8	26.9		35.6	8.2	1.5	100
1985	Nos.	3442	3451		4707	1062	202	12864
	%	26.7	26.8		36.6	8.3	1.6	100
1990	Nos.	3847	3829		5452	1228	268	14264
	%	26.3	26.2		37.3	8.4	1.8	100
1991	Nos.	3907	3910		5542	1258	276	14893
	%	26.2	26.3		37.2	8.4	1.9	100
1992	Nos.	3976	3946		5602	1287	281	15092
	%	26.3	26.2		37.1	8.5	1.9	100
1993	Nos.	4016	3968		5605	1294	283	15166
	%	26.5	26.2		37.0	8.5	1.8	100
1994	Nos.	4045	4009		5637	1315	283	15289
	%	26.5	26.2		36.9	8.6	1.8	100
1995	Nos.	4146	4094		5889	1364	283	15776
	%	26.3	26.0		37.3	8.6	1.8	100
1996	Nos.	4240	4199		6140	1403	291	16273
	%	26.1	25.8		37.7	8.6	1.8	100
1997	Nos.	4332	4279		6375	1426	303	16715
	%	25.9	25.7		38.1	8.5	1.8	100
1998	Nos.	4383	4315		6444	1440	311	16893
	%	25.9	25.5		38.1	0.5	2.0	100
1999	Nos.	4410	4345		6532	1442	311	17040
	%	25.9	25.5		38.3	8.5	1.8	100
2000	Nos.	4449	4480		6770	1461	312	17472
	%	25.5	25.6		38.7	8.4	1.8	100
2001	Nos.	4555	4536		7134	1475	315	18015
	%	25.3	25.2		39.6	8.2	1.7	100

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

Source: PSUs.

XII. 2 STATE-WISE NUMBER OF RETAIL OUTLETS, MPDC's, LDO/SKO DEALERS AND LPG DISTRIBUTORS AS ON 1.4.2001

(NUMBERS)

State/UT	Retail Outlets	MPDC's	LDO/SKO Dealers	LPG Distributors
(1)	(2)	(3)	(4)	(5)
A. States				
1. Andhra Pradesh	1415	18	606	582
2. Arunachal Pradesh	33	2	32	25
3. Assam	369	1	357	167
4. Bihar	777	9	350	158
5. Chhattisgarh	244	0	105	77
6. Delhi	339	0	112	305
7. Goa	72	1	20	35
8. Gujarat	1134	12	493	440
9. Haryana	629	16	146	203
10. Himachal Pradesh	113	1	26	79
11. Jammu & Kashmir	137	1	41	111
12. Jharkhand	401	0	81	93
13. Karnataka	1072	4	319	382
14. Kerala	792	1	241	253
15. Madhya Pradesh	843	18	264	343
16. Maharashtra	1732	16	742	753
17. Manipur	28	3	35	22
18. Meghalaya	57	0	35	27
19. Mizoram	14	1	19	19
20. Nagaland	29	1	19	21
21. Orissa	401	7	176	118
22. Punjab	1092	14	240	319
23. Pondicherry	35	0	8	13
24. Rajasthan	1111	28	246	277
25. Sikkim	13	0	12	3
26. Tamil Nadu	1620	0	466	472
27. Tripura	33	1	40	20
28. Uttaranchal	192	0	64	96
29. Uttar Pradesh	2316	64	631	678
30. West Bengal	1140	12	464	351
Total (A)	**18183**	**231**	**6390**	**6442**
B. Union Territories				
1. Andaman & Nicobar	5	0	1	1
2. Chandigarh	40	0	11	30
3. Dadra & Nagar Haveli	5	0	2	1
4. Daman & Diu	6	0	5	2
5. Lakshadweep	0	0	0	1
Total (B)	**56**	**0**	**19**	**35**
Total (A + B)	**18239**	**231**	**6409**	**6477**

Source: OCC. New Delhi.

XII. 3 STATE-WISE AND COMPANY-WISE RETAIL OUTLETS WITH ULP FACILITY AS ON 1.4.2001

(Numbers)

Sl. No.	STATE/UT	IOC	IBP	HPCL	BPCL	AOD	TOTAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Andhra Pradesh	536	117	401	361	0	1415
2	Arunachal Pradesh	14	0	0	0	19	33
3	Assam	123	12	36	4	194	369
4	Bihar	323	97	159	197	1	777
5	Chattisgarh	94	11	72	67	0	244
6	Chandigarh	14	4	12	10	0	40
7	Delhi	126	41	84	88	0	.339
8	Goa	11	3	26	32	0	72
9	Gujarat	468	124	254	288	0	1134
10	Haryana	273	105	136	113	2	629
11	Himachal Pradesh	54	3	30	26	0	113
12	Jammu & Kashmir	71	4	27	35	0	137
13	Jharkhand	154	25	114	108	0	401
14	Karnataka	429	51	300	292	0	1072
15	Kerala	271	44	257	220	0	792
16	Madhya Pradesh	389	38	198	218	0	843
17	Maharashtra	563	100	529	540	0	1732
18	Manipur	10	0	0	0	18	28
19	Meghalaya	20	3	5	2	27	57
20	Mizoram	5	0	0	0	9	14
21	Nagaland	10	0	0	0	19	29
22	Orissa	165	13	100	122	1	401
23	Punjab	448	199	216	229	0	1092
24	Rajasthan	467	56	322	266	0	1111
25	Sikkim	6	2	2	3	0	13
26	Tamil Nadu	604	60	489	467	0	1620
27	Tripura	8	0	0	0	25	33
28	Uttar Pradesh	1026	295	469	526	0	2316
29	Uttranchal	79	18	48	47	0	192
30	West Bengal	436	111	302	291	0	1140
31	A. & Nicobar	5	0	0	0	0	5
32	D. & Nagar Haveli	2	0	2	1	0	5
33	Pondicherry	16	3	10	6	0	35
34	Daman & Diu	3	0	0	3	0	6
	GRAND TOTAL	7223	1539	4600	4562	315	18239

Source: Oil Coordination Committee, New Delhi.

ULP: Unleaded Petrol

XII.4 STATE-WISE NUMBER OF LPG DOMESTIC CONSUMERS AS ON 1.4.2001

(FIGS. IN LAKHS)

STATE/UT	IOC (MD)	IOC (AOD)	IOC TOTAL	BPCL	HPCL	IBP	TOTAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) STATES							
ANDHRA PRADESH	20.13	0.00	20.13	10.29	25.01	0.00	55.44
ARUNACHAL PRADESH	0.18	0.61	0.79	0.00	0.00	0.00	0.79
ASSAM	4.47	5.71	10.18	0.00	0.00	0.00	10.18
BIHAR	9.31	0.00	9.31	1.39	1.25	0.00	11.95
CHHATISGARH	2.43	0.00	2.43	0.75	1.84	0.00	5.02
DELHI	20.85	0.00	20.85	7.34	4.02	0.00	32.21
GOA	0.01	0.00	0.01	1.14	1.87	0.00	3.03
GUJARAT	21.87	0.00	21.87	7.46	7.64	0.04	37.01
HARYANA	10.09	0.00	10.09	6.14	2.88	0.00	19.11
HIMACHAL PRADESH	6.87	0.00	6.87	0.24	0.97	0.00	8.08
JAMMU & KASHMIR	2.46	0.00	2.46	0.87	4.69	0.00	8.02
JHARKHAND	4.56	0.00	4.56	0.51	0.82	0.00	5.89
KARNATAKA	11.75	0.00	11.75	6.26	10.88	0.00	28.89
KERALA	17.16	0.00	17.16	8.26	3.50	0.00	28.92
MADHYA PRADESH	12.87	0.00	12.87	4.09	6.23	0.00	23.19
MAHARASHTRA	5.91	0.00	5.91	37.42	34.80	0.00	78.14
MANIPUR	0.32	1.03	1.35	0.00	0.00	0.00	1.35
MEGHALAYA	0.29	0.33	0.62	0.00	0.00	0.00	0.62
MIZORAM	0.51	0.76	1.27	0.00	0.00	0.00	1.27
NAGALAND	0.24	0.43	0.68	0.00	0.00	0.00	0.68
ORISSA	2.82	0.00	2.82	0.97	3.47	0.00	7.26
PUNJAB	14.79	0.00	14.79	5.99	4.47	0.24	25.48
RAJASTHAN	10.36	0.00	10.36	6.48	6.21	0.00	23.06
SIKKIM	0.49	0.00	0.49	0.00	0.00	0.00	0.49
TAMILNADU	35.30	0.00	35.30	13.87	6.83	0.54	56.54
TRIPURA	0.59	0.76	1.35	0.00	0.00	0.00	1.35
UTTAR PRADESH	37.16	0.00	37.16	13.62	7.53	0.04	58.34
UTTARANCHAL	8.95	0.00	8.95	1.08	0.11	0.00	10.13
WEST BENGAL	20.97	0.02	20.99	3.13	6.85	0.10	31.07
TOTAL (A)	283.71	9.66	293.38	137.31	141.88	0.96	573.52
(B) UNION TERRITORIES							
ANDAMAN & NICOBAR	0.27	0.00	0.27	0.00	0.00	0.00	0.27
CHANDIGARH	1.71	0.00	1.71	0.41	0.61	0.00	2.73
DADRA & NAGAR HAVELI	0.00	0.00	0.00	0.00	0.17	0.00	0.17
DAMAN & DIU	0.00	0.00	0.00	0.00	0.23	0.00	0.23
LAKSHADWEEP	0.02	0.00	0.02	0.00	0.00	0.00	0.02
PONDICHERRY	0.70	0.00	0.70	0.24	0.65	0.00	1.59
TOTAL(B)	2.71	0.00	2.71	0.65	1.66	0.00	5.02
ALL INDIA (A + B)	286.42	9.66	296.08	137.96	143.54	0.96	578.54

Source: OCC, New Delhi.

XII. 5 CNG ACTIVITIES IN INDIA AS ON 1.4.2001

Item	Delhi	Maharashtra	Gujarat				Grand
	Delhi IGL	Maharasthra MGL	Vadodara GAIL	Surat GGCL	Ankleshwar GGCL	Total	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Station Type							
Mother	8	1	1	1	0	2	11
Online	13	9	0	1	0	1	23
Daughter Booster	3	12	0	0	0	0	15
Daughter	44	1	2	1	1	4	49
Total	**68**	**23**	**3**	**3**	**1**	**7**	**98**
No. of Vehicles							
Cars	n.a.	22290	149	635	92	876	n.a.
Autos	n.a	312	0	410	0	410	n.a.
Buses	n.a.	12	0	0	0	0	n.a.
Total	**24000**	**22614**	**149**	**1045**	**92**	**1286**	**47900**
Price (Rs. / Kg)	12.21	18.35	12.40	15.00	15.00		
Average Consumption							
(March 2001) TPD	120.00	79.18	0.31	1.97	0.21	2.49	201.67

NOTE:

1 Kg of CNG = 1.244 SCM of Gas = 1.391 litres of petrol on energy equivalent basis.

*CNG price in Surat & Ankleshwar is in Rs. Per cubic meter.

GAIL = Gas Authority of India Ltd.

IGL = Indraprastha Gas Ltd.

MGL = Mahanagar Gas Ltd.

GGCL = Gujarat Gas Company Ltd.

TPD = Tonnes per day

XII. 6 SUPPLY PLAN OF GREEN FUELS IN INDIA

SPECIFICATION	Metros		Taj Trapezium		State/UT capitals and major cities		All India	
	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual
Motor Spirit								
Low Lead (0.15 gm./ltr.)	Dec, 1996	June 1994	—	Sep, 1995	—	—	Dec, 1996	Dec, 1996
Unleaded (0.013 gm./ltr.)	Dec, 1997 in Delhi & Mumbai	In all Metros & Radial routes: April 1995	—	April 1995	Dec, 1998	June 1998		1.2.2000
Ultra Low Sulphur (0.05%)		**NCR** w.e.f. 1.4. 2000 **Kolkata** w.e.f. 1.10.2000 **Chennai** w.e.f. 1.7.2001						
MS with max 3% Benzene		April, 2000						
Ultra Low Sulphur (0.05%) with 1% Benzene max.		**NCT** w.e.f. 1.11.2000 **Mumbai** w.e.f. 1.1.2001 **NCR** w.e.f. 31.3.2001						
High Speed Diesel Oil								
Low Sulphur (0.5%)	April, 1996	April, 1996	April, 1996	April, 1996	—	—	—	—
Extra Low Sulphur (0.25%)	April, 1999	Inner Delhi: Aug, 1997 Other Metros and whole Delhi: Apr, 1998	Sep, 1996	Sep, 1996	—	—	1.1.2000	1.1.2000
Ultra Low Sulphur (0.05%)		NCR w.e.f. 1.4.2000 for non-comml. vehicle conforming to EURO-II norms **Mumbai** w.e.f. 1.1.2001 **NCT** for all types of vehicles w.e.f. 1.3.2001 **NCR** for all types of vehicles w.e.f. 30.6.2001 **Kolkata** w.e.f. 1.7.2001 **Chennai** w.e.f. 1.7.2001						

XIII. 1 GROSS PRODUCTION OF ENERGY BY VARIOUS SOURCES IN INDIA

YEAR	Coal & Lignite			Hydro-carbon			Power (Million Kwh)			
	Coal	Lignite	Total	Natural Gas (MM3)	Crude Petroleum	petroleum Products@	Thermal	Hydel	Nuclear	Total
	(.....Million Tonnes.....)				(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	—	36376
1970-71	72.95	3.39	76.34	1445	6822	18333	28162	25248	2417	55827
1975-76	99.63	3.03	102.66	2368	8448	22055	43303	33302	2626	79231
1980-81	113.91	5.11	119.02	2358	10507	25348	61301	48542	3001	110844
1985-86	154.20	8.05	162.25	8134	30168	42735	114119	50933	4985	170037
1990-91	211.73	14.11	225.50	17998	33021	52201	186452	71535	6244	264231
1991-92	229.28	15.97	243.83	18645	30346	52213	208551	72599	5561	286711
1992-93	238.26	16.62	254.88	18060	26950	54435	224485	69833	6748	301066
1993-94	246.04	16.90	262.94	18335	27026	55305	247618	70311	5394	323323
1994-95	253.80	17.20	271.00	19381	32239	57400	282900	82500	5600	351000
1995-96	270.13	22.14	292.27	22308	35170	58320	299600	72500	8000	380100
1996-97	285.66	22.54	308.20	23255	32901	62500	316870	68610	9010	394490
1997-98	295.93	23.05	318.98	26401	33858	64820	336100	74480	10040	420620
1998-99	292.27	23.42	315.69	27428	32723	68240	353800	82620	11890	448410
1999-00	299.97	22.12	322.09	28446	31949	84964	386226	80533	13252	480011
2000-01*	309.63	22.95	332.58	29477	32426	104596	409289	74481	16928	500698

* Provisional @: Includes RBF and LPG production from Natural Gas

Kwh : Kilowatt Hour

Source: (i) Central Electricity Authority and Economic Survey

(ii) Coal Statistics—Coal Controls organisation, Ministry of Coal

XIII. 2 TRENDS IN PRODUCTION OF PRIMARY COMMERCIAL ENERGY

Energy From	Unit	PRODUCTION					
		1950-51	1960-61	1970-71	1980-81	1990-91	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Coal	MMT	33.00	55.67	72.95	114.01	211.73	288.05
Lignite	MMT	—	0.05	3.39	4.80	14.07	22.54
Crude Oil	MMT	0.26	0.45	6.82	10.51	33.02	33.87
Natural Gas	MCM	—	—	1445.00	2358.00	17998.00	22890.00
Hydro Power	BkWh	2.52	7.84	25.25	46.54	71.66	68.63
Nuclear Power	BkWh	—	—	2.42	3.00	6.14	9.01
Wind Power	BkWh	—	—	—	—	0.03	0.85

XIII. 3 ENERGY CONSUMPTION BY FUEL & BY SECTOR

a. PERCENTAGE SHARE OF DIFFERENT FUELS IN COMMERCIAL ENERGY CONSUMPTION

PRODUCT	1953-54	1960-61	1970-71	1980-81	1990-91	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Coal	80.10	75.30	56.10	47.90	35.90	28.90
Oil & Gas	16.70	19.90	34.70	41.40	49.10	54.00
Electricity	3.20	4.80	9.20	10.70	15.00	17.10
Total	100.00	100.00	100.00	100.00	100.00	100.00

b. PERCENTAGE SHARE IN FINAL ENERGY CONSUMPTION BY DIFFERENT SECTORS

SECTOR	1953-54	1960-61	1970-71	1980-81	1990-91	1996-97
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Industry	39.90	41.50	49.60	49.60	44.70	41.90
Transport	43.70	40.20	28.20	23.50	19.80	22.30
Household	9.60	9.70	12.20	9.70	11.80	12.10
Agriculture	1.40	1.60	2.70	6.30	8.20	9.00
Others	5.40	7.00	7.30	10.90	15.50	14.70
Total	100.00	100.00	100.00	100.00	100.00	100.00

Source: Ninth Plan Document, Volume II.

PART-II
INTERNATIONAL PETROLEUM STATISTICS

XIV. 1(a) WORLD PROVED RESERVES OF CRUDE OIL AT END 2000

COUNTRY	Thousand million barrels	Thousand million tonnes	Share of total %	R/P ratio
(1)	(2)	(3)	(4)	(5)
USA	29.7	3.7	2.8	10.4
Canada	6.4	0.8	0.6	8.5
Mexico	28.3	4.0	2.7	23.5
Total North America	**64.4**	**8.5**	6.2	**13.8**
Argentina	3.1	0.4	0.3	10.5
Brazil	8.1	1.1	0.8	17.7
Colombia	2.6	0.4	0.2	10.0
Ecuador	2.1	0.3	0.2	14.4
Peru	0.3	†	†	8.1
Trinidad & Tobago	0.7	0.1	0.1	11.9
Venezuela	76.9	11.1	7.3	66.4
Other S. & Cent. America	1.4	0.2	0.1	29.9
Total S.& Cent. America	**95.2**	**13.6**	9.1	**39.1**
Denmark	1.1	0.1	0.1	7.9
Italy	0.6	0.1	0.1	19.4
Norway	9.4	1.2	0.9	7.7
Romania	1.4	0.2	0.1	31.0
United Kingdom	5.0	0.7	0.5	5.3
Other Europe	1.6	0.2	0.2	13.9
Total Europe	**19.1**	**2.5**	1.8	**7.7**
Azerbaijan	6.9	0.9	0.7	63.4
Kazakhstan	8.0	1.1	0.8	31.1
Russian Federation	48.6	6.7	4.6	20.6
Turkmenistan	0.5	0.1	0.0	10.2
Uzbekistan	0.6	0.1	0.1	10.8
Other Former Soviet Union	0.7	0.1	0.1	15.7
Total Former Soviet Union	**65.3**	**9.0**	**6.2**	**22.7**
Iran	89.7	12.3	8.6	65.7
Iraq	112.5	15.1	10.8	*
Kuwait	96.5	13.3	9.2	*
Oman	5.5	0.8	0.5	15.7
Qatar	13.2	1.7	1.3	47.1
Saudi Arabia	261.7	35.8	25.0	81.1
Syria	2.5	0.4	0.2	12.7
United Arab Emirates	97.8	12.6	9.3	*
Yemen	4.0	0.5	0.4	25.2
Other Middle East	0.2	†	†	9.0
Total Middle East	**683.6**	**92.5**	**65.3**	**83.2**
Algeria	9.2	1.2	0.9	17.4
Angola	5.4	0.7	0.5	20.1
Cameroon	0.4	0.1	0.0	12.4
Rep. of Congo (Brazzaville)	1.5	0.2	0.1	15.0
Egypt	2.9	0.4	0.3	10.4
Equatorial Guinea	†	†	†	0.3
Gabon	2.5	0.3	0.2	20.9
Libya	29.5	3.9	2.8	55.3
Nigeria	22.5	3.1	2.2	29.4
Tunisia	0.3	†	†	10.7
Other Africa	0.6	0.1	0.1	6.8
Total Africa	**74.9**	**10.0**	**7.2**	**26.8**
Australia	2.9	0.4	0.3	10.4
Brunei	1.4	0.2	0.1	19.5
China	24.0	3.3	2.3	20.2
India	4.7	0.6	0.4	17.3
Indonesia	5.0	0.7	0.5	9.8
Malaysia	3.9	0.5	0.4	14.1
Papua New Guinea	0.3	†	†	14.0
Thailand	0.4	†	†	7.4
Vietnam	0.6	0.1	0.1	5.2
Other Asia Pacific	0.8	0.2	0.1	16.7
Total Asia Pacific	**44.0**	**6.0**	4.2	**15.6**
Total World	**1046.41**	**142.1**	100.0	**39.9**
Of which: OECD #	84.8	11.2	8.1	11.5
OPEC	814.4	110.7	77.8	74.3
Non-Opec ‡	166.7	22.4	15.9	13.4

†Less than 0.05 * Over 100 years ‡ Excludes Former Soviet Union # 1980 & 1990 exclude Central European Members.
Source: B.P. Amoco Statistical Review of World Energy, 2001

XIV. 1 (b) WORLD PROVED RESERVES OF NATURAL GAS AT END 2000

COUNTRY	Trillion Cubic metres	Trillion cubic feet	Share of total %	R/P ratio
(1)	(2)	(3)	(4)	(5)
USA	4.74	167.4	3.2	8.7
Canada	1.73	61.0	1.2	10.3
Mexico	0.86	30.4	0.6	24.0
Total North America	**7.33**	**258.8**	4.9	**9.8**
Argentina	0.75	26.4	0.5	20.1
Bolivia	0.52	18.3	0.3	*
Brazil	0.23	8.2	0.2	30.1
Colombia	0.20	6.9	0.1	33.2
Ecuador	0.10	3.7	0.1	*
Trinidad & Tobago	0.60	21.4	0.4	48.2
Venezuela	4.16	146.8	2.8	*
Other S. & Cent. America	0.37	12.9	0.2	*
Total S. & Cent. America	**6.93**	**244.6**	4.6	**71.8**
Denmark	0.10	3.4	0.1	11.9
Germany	0.33	11.5	0.2	19.3
Hungary	0.08	2.9	0.1	28.4
Italy	0.23	8.1	0.2	13.6
Netherlands	1.77	62.5	1.2	26.9
Norway	1.25	44.0	0.8	23.8
Romania	0.37	13.2	0.2	27.6
United Kingdom	0.76	26.8	0.5	7.0
Other Europe	0.33	11.5	0.2	26.4
Total Europe	**5.22**	**183.9**	3.5	**17.5**
Azerbaijan	0.85	30.0	0.6	*
Kazakhstan	1.84	65.0	1.2	*
Russian Federation	48.14	1700.0	32.1	83.7
Turkmenistan	2.86	101.0	1.9	61.8
Ukraine	1.12	39.6	0.7	63.1
Uzbekistan	1.87	66.2	1.2	34.0
Other Former Soviet Union	0.02	0.8	†	52.3
Total Former Soviet Union	**56.70**	**2002.6**	37.8	**79.6**
Bahrain	0.11	3.9	0.1	12.8
Iran	23.00	812.3	15.3	*
Iraq	3.11	109.8	2.1	*
Kuwait	1.49	52.7	1.0	*
Oman	0.83	29.3	0.6	97.9
Qatar	11.15	393.8	7.4	*
Saudi Arabia	6.05	213.8	4.0	*
United Arab Emirates	6.01	212.1	4.0	*
Yemen	0.48	16.9	0.3	*
Other Middle East	0.29	10.2	0.2	67.1
Total Middle East	**52.52**	**1854.8**	35.0	*
Algeria	4.52	159.7	3.0	50.6
Egypt	1.00	35.2	0.7	55.2
Libya	1.31	46.4	0.9	*
Nigeria	3.51	124.0	2.3	*
Other Africa	0.82	28.9	0.5	*
Total Africa	**11.16**	**394.2**	7.4	**86.2**
Australia	1.26	44.6	0.8	40.6
Bangladesh	0.30	10.6	0.2	29.1
Brunei	0.39	13.8	0.3	33.5
China	1.37	48.3	0.9	49.3
India	0.65	22.8	0.4	24.8
Indonesia	2.05	72.3	1.4	32.0
Malaysia	2.31	81.7	1.5	52.3
Pakistan	0.61	21.6	0.4	32.3
Papua New Guinea	0.22	7.9	0.1	*
Thailand	0.33	11.8	0.2	18.7
Vietnam	0.19	6.8	0.1	*
Other Asia Pacific	0.65	22.9	0.4	54.2
Total Asia Pacific	**10.33**	**365.1**	6.9	**38.9**
Total World	**150.19**	**5304.0**	100.0	**61.0**
Of which : OECD #	13.43	474.3	8.9	12.6
European Union 15	3.24	114.5	2.2	14.7

* Over 100 years
† Less than 0.05

Source : B.P. Amoco Statistical Review of World Energy, 2000

XIV. 2 WORLD CRUDE OIL* PRODUCTION 1995—2000

(Million tonnes)

COUNTRY	1995	1996	1997	1998	1999	2000	%Change 2000/1999	%share of total
USA	384.0	382.5	380.4	368.6	353.0	353.5	0.1	9.8
Canada	111.5	115.1	120.3	124.7	120.6	126.3	4.7	3.5
Maxico	151.3	163.4	170.6	174.4	166.1	172.1	3.6	4.8
Total North America	**646.9**	**661.0**	**671.3**	**667.7**	**639.7**	**651.9**	**1.9**	**18.2**
Argentina	38.1	41.6	44.1	44.9	42.7	41.2	-3.5	1.1
Brazil	35.5	40.2	43.0	49.9	56.4	63.5	12.6	1.8
Colombia	30.2	32.4	33.7	39.3	42.5	36.1	-15.1	1.0
Ecuador	20.2	20.1	20.2	19.6	19.5	20.7	6.2	0.6
Peru	6.2	6.1	6.0	6.0	5.8	5.3	-8.6	0.1
Trinidad & Tobaco	7.0	6.9	6.6	6.5	6.7	8.1	20.9	0.2
Venezuela	152.4	162.2	173.5	181.0	163.2	166.8	2.2	4.6
Other S. & Cent. America	4.7	4.8	5.2	6.0	6.4	6.6	3.1	0.2
Total S. & Cent. America	**294.2**	**314.3**	**332.3**	**353.2**	**343.1**	**348.2**	**1.5**	**9.7**
Danmark	9.2	10.1	11.4	11.4	14.7	17.8	21.1	0.5
Italy	5.2	5.5	6.0	5.6	5.0	4.6	-8.0	0.1
Norway	138.5	155.5	156.9	150.0	149.4	157.5	5.4	4.4
Romania	7.0	6.9	6.8	6.6	6.4	6.3	-1.6	0.2
United Kingdom	129.9	129.7	128.0	132.6	136.6	126.2	-7.6	3.5
Other Europe	21.4	19.9	18.9	18.1	16.7	16.6	-0.6	0.5
Total Europe	**311.2**	**327.6**	**327.8**	**324.3**	**328.7**	**329.0**	**0.1**	**9.2**
Azerbaijan	9.2	9.1	9.0	11.4	13.8	14.9	8.0	0.4
Kazakhstan	20.6	23.0	25.8	25.9	30.1	35.3	17.3	1.0
Russian Federation	310.8	302.9	307.4	304.3	304.8	323.3	6.1	9.0
Turkmenistan	4.1	4.6	4.5	6.4	7.1	7.4	4.2	0.2
Uzbekistan	7.6	7.6	7.9	8.2	8.1	7.5	-7.4	0.2
Other Former Soviet Union	6.2	6.4	6.4	6.2	6.0	6.0	0.0	0.2
Total Former Soviet Union	**358.4**	**353.5**	**361.0**	**362.5**	**369.9**	**394.4**	**6.6**	**11.0**
Iran	182.7	183.8	184.0	187.8	175.2	186.6	6.5	5.2
Iraq	27.3	29.9	58.1	105.2	125.6	128.1	2.0	3.6
Kuwait	105.3	105.6	105.3	108.1	99.3	105.6	6.3	2.9
Oman	43.0	44.5	45.2	44.9	45.2	47.8	5.8	1.3
Qatar	21.3	26.4	33.6	35.0	33.7	37.0	9.8	1.0
Saudi Arabia	426.7	434.6	442.1	442.8	410.3	441.2	7.5	12.3
Syria	31.1	30.6	30.0	29.3	30.3	28.1	-7.3	0.8
United Arab Emirates	113.6	120.0	119.5	122.0	105.6	114.7	8.6	3.2
Yemen	16.6	16.8	17.6	18.0	18.8	20.8	10.6	0.6
Other Middle East	2.4	2.3	2.4	2.3	2.3	2.3	0.0	0.1
Total Middle East	**970.0**	**994.6**	**1037.9**	**1096.2**	**1046.2**	**1112.4**	**6.3**	**31.0**
Algeria	56.8	59.3	60.2	58.9	63.9	67.0	4.9	1.9
Angola	31.2	35.4	36.5	36.0	36.8	36.4	-1.1	1.0
Cameroon	5.4	5.6	6.3	5.3	4.8	4.5	-6.3	0.1
Rep. of Congo (Brazzaville)	9.3	10.4	12.5	13.6	14.5	13.7	-5.5	0.4
Egypt	46.6	45.1	43.8	43.0	41.4	39.5	-4.6	1.1
Equatorial Guinea	0.3	0.9	3.0	4.1	4.5	5.3	17.8	0.1
Gabon	17.8	18.3	18.6	16.9	17.0	16.4	-3.5	0.5
Libya	69.0	69.6	70.8	70.7	68.0	70.6	3.8	2.0
Nigeria	98.1	105.4	113.4	106.5	99.9	103.9	4.0	2.9
Tunisia	4.3	4.2	3.6	3.9	4.0	3.7	-7.5	0.1
Other Africa	2.8	4.8	6.7	3.4	6.7	12.2	82.1	0.3
Total Africa	**341.2**	**357.9**	**372.5**	**362.3**	**361.5**	**373.2**	**3.2**	**10.4**
Australia	25.4	26.6	28.8	27.4	24.5	35.5	44.9	1.0
Brunai	8.6	8.1	8.0	7.7	9.0	9.5	5.6	0.3
China	149.0	158.5	160.1	159.9	160.2	162.3	1.3	4.5
India	37.1	36.2	37.1	36.4	36.7	36.5	-0.5	1.0
Indonesia	73.9	74.1	73.2	71.6	66.1	67.8	2.6	1.9
Malaysia	34.0	34.4	34.2	36.6	35.7	36.2	1.4	1.0
Papua New Guinea	4.7	5.0	3.6	3.8	4.1	3.3	-19.5	0.1
Thailand	3.5	4.0	4.7	4.9	5.3	6.8	28.3	0.2
Vietnam	7.7	8.9	10.1	12.1	14.6	16.2	11.0	0.5
Other Asia Pacific	9.8	10.7	12.0	6.6	6.4	6.4	0.0	0.2
Total Asia Pacific	**350.1**	**362.6**	**367.0**	**367.0**	**362.7**	**380.5**	**4.9**	**10.6**
Total World	**3272.0**	**3371.5**	**3469.8**	**3533.1**	**3451.8**	**3589.6**	**4.0**	**100.0**
of which : OECD	975.7	1008.2	1021.6	1013..0	986.8	1010.4	2.4	28.1
OPEO	1327.0	1370.6	1433.6	1489.7	1410.9	1489.4	5.6	41.5
Non-OPEO#	1586.6	1647.1	1675.1	1680.9	1671.0	1705.8	2.1	47.5

*Includes crude oil, shale oil, oil sands and NGLs (natural gas liquides the liquid content of natural gas where this is recovered seperately. Excludes liquids fuels from other sources such as coal derivatives # Excludes Former soviet Union.
Source: BP Amoco Statistical Review of World Energy, 2001.

XIV. 3 CRUDE OIL PRODUCTION BY OPEC MEMBER COUNTRIES

(Million Tonnes)

OPEC Countries	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Algeria	52	48	58	58	57	57	56	57	59	60	62	64	67
Indonesia	78	65	72	78	74	74	74	74	74	73	72	66	68
Iran	74	110	161	173	175	182	183	183	184	184	188	175	187
Iraq	130	71	105	14	26	23	25	27	30	58	105	126	128
Kuwait	72	54	62	10	55	96	104	105	106	105	108	99	106
Libya	88	53	69	74	71	67	69	69	70	71	69	68	71
Nigeria	102	73	90	94	97	98	98	98	105	113	107	110	104
Qatar	22	16	21	20	23	21	21	21	26	30	37	34	37
Suadi Arabia	493	182	341	427	441	431	426	427	435	442	443	410	441
U.A.E.	112	49	105	121	115	111	113	111	115	114	116	106	115
Venezuela	116	90	116	129	130	134	142	152	162	174	172	163	167
Total	1339	811	1199	1198	1262	1295	1311	1324	1366	1425	1488	1411	1491

Source: B.P. Amoco Statiscial Review of World Energy, 2001

XIV. 4 WORLD PRODUCTION OF NATURAL GAS* 1993—2000

Million tonnes oil equivalent

	1993	1994	1995	1996	1997	1998	1999	2000	%Change 2000/1999	%share of total 2000
USA	468.3	487.6	481.4	488.0	488.8	486.1	482.0	**500.0**	3.7	22.9
Canada	112.9	122.3	133.4	138.2	140.6	144.5	146.0	**151.0**	3.4	6.9
Mexico	25.0	25.8	25.3	28.1	30.4	32.9	33.4	**32.3**	-3.3	1.5
Total North America	**606.2**	**635.7**	**640.1**	**654.3**	**659.8**	**663.5**	**661.4**	**683.3**	**3.3**	**31.3**
Argentina	19.4	20.0	22.5	23.9	24.6	26.6	31.1	**33.6**	8.0	1.5
Bolivia	2.7	3.0	2.8	2.9	2.9	2.8	2.3	**3.0**	30.4	0.1
Brazil	4.0	4.1	4.3	5.0	5.4	5.6	6.4	**7.0**	9.4	0.3
Colombia	3.8	3.7	4.0	4.2	5.3	5.6	4.7	**5.3**	12.8	0.2
Trinidad & Tobago	5.3	5.6	5.5	6.4	6.7	7.8	9.8	**11.3**	15.3	0.5
Venezuela	21.0	22.2	24.8	26.8	27.7	29.1	24.1	**24.5**	1.7	1.1
Other S. & Cent. America	1.9	2.0	2.0	2.0	2.3	2.4	2.4	**2.2**	-8.3	0.1
Total S. & Cent. America	**58.1**	**60.6**	**65.9**	**71.2**	**74.9**	**79.9**	**80.8**	**86.9**	**7.5**	**4.0**
Denmark	4.1	4.4	4.8	5.8	7.1	6.8	7.0	**7.3**	4.3	0.3
Germany	13.4	14.0	14.5	15.7	15.4	15.0	16.1	**15.2**	-5.6	0.7
Hungary	3.9	3.7	3.7	3.6	3.3	3.0	2.6	**2.4**	-7.7	0.1
Italy	17.5	18.6	18.3	18.0	17.3	17.1	15.7	**15.1**	-3.8	0.7
Netherlands	63.0	59.7	60.3	68.2	60.4	57.2	53.3	**51.6**	-3.2	2.4
Norway	26.0	27.7	28.0	36.9	42.0	43.0	45.9	**47.2**	2.8	2.2
Romania	18.5	16.8	16.2	15.5	13.5	12.6	12.6	**12.2**	-3.2	0.6
United Kingdom	54.5	58.2	63.7	75.8	77.3	81.2	89.0	**97.3**	9.3	4.5
Other Europe	13.6	13.0	13.2	12.0	11.5	11.0	10.5	**10.8**	2.9	0.5
Total Europe	**214.5**	**216.1**	**222.7**	**251.5**	**247.8**	**246.9**	**252.7**	**259.1**	**2.5**	**11.9**
Azerbaijan	5.7	5.4	5.5	5.3	5.0	4.7	5.0	**4.8**	-4.0	0.2
Kazakhstan	5.6	3.8	5.0	5.5	6.8	6.9	8.4	**9.7**	15.5	0.4
Russian Federation	**518.8**	**509.8**	**499.9**	505.0	**479.3**	**496.2**	**495.9**	**490.5**	-1.1	**22.5**
Turkmenistan	54.8	30.0	27.1	29.6	14.5	11.2	19.1	**39.5**	106.8	1.8
Ukraine	16.1	15.3	15.3	15.4	15.7	15.1	15.2	**15.1**	-0.7	0.7
Uzbekistan	37.8	39.6	40.8	41.1	43.0	46.0	46.7	**47.0**	0.6	2.2
Other Former Soviet Union	0.4	0.3	0.3	0.2	0.3	0.4	0.4	**0.4**	0.0	0.0
Total Former Soviet Union	**639.2**	**604.2**	**593.9**	**602.1**	**564.6**	**580.5**	**590.7**	**607.0**	**2.8**	**27.8**
Bahrain	6.2	6.4	6.5	6.7	7.2	7.5	7.6	**7.7**	1.3	0.4
Iran	24.4	28.6	31.8	36.2	42.3	45.0	47.7	**54.2**	13.6	2.5
Kuwait	4.9	5.4	8.4	8.4	8.3	8.5	7.8	**8.6**	10.3	0.4
Oman	2.5	2.6	3.6	3.9	4.5	4.6	4.9	**7.6**	55.1	0.3
Qatar	12.2	12.2	12.2	12.3	15.7	17.6	21.6	**25.7**	19.0	1.2
Saudi Arabia	36.0	38.5	38.6	40.1	41.3	42.0	41.6	**42.3**	1.7	1.9
United Arab Emirates	20.7	23.2	28.2	30.4	32.7	33.4	34.2	**35.9**	5.0	1.6
Other Middle East	3.8	4.4	4.8	5.4	6.5	6.7	7.1	**6.7**	-5.6	0.3
Total Middle East	**110.7**	**121.3**	**134.1**	**143.4**	**158.5**	**165.3**	**172.5**	**188.7**	**9.4**	**8.7**
Algeria	50.5	46.5	52.8	56.1	64.6	68.9	76.6	**80.4**	5.0	3.7
Egypt	9.0	9.5	9.9	10.4	10.5	11.0	13.2	**16.2**	22.7	0.7
Libya	5.2	5.2	5.2	5.2	5.4	5.2	5.0	**5.0**	0.0	0.2
Nigeria	4.4	4.0	4.4	4.9	4.6	4.6	5.4	**9.9**	83.3	0.5
Other Africa	2.4	2.6	2.7	3.8	4.4	4.5	5.0	**5.1**	2.0	0.2
Total Africa	**71.5**	**67.8**	**75.0**	**80.4**	**89.5**	**94.2**	**105.2**	**116.6**	**10.8**	**5.3**
Australia	22.0	25.3	26.8	27.5	27.0	27.3	27.5	**28.0**	1.8	1.3
Bangladesh	5.5	6.0	6.6	6.8	6.8	7.0	7.5	**9.3**	24.0	0.4
Brunei	9.3	9.4	10.6	10.5	10.5	9.7	10.1	**10.5**	4.0	0.5
China	14.6	14.9	15.8	17.9	20.0	20.1	21.9	**25.0**	14.2	1.1
India	14.5	15.6	16.9	18.4	18.6	22.2	22.4	**23.5**	4.9	1.1
Indonesia	50.6	56.6	57.4	60.4	60.8	58.2	60.2	**57.5**	-4.5	2.6
Malaysia	22.4	23.5	26.0	31.3	34.6	34.9	37.0	**39.8**	7.6	1.8
Pakistan	10.9	12.0	13.1	13.8	14.0	14.4	15.6	**17.1**	9.6	0.8
Thailand	7.6	8.6	9.1	10.6	12.7	13.9	15.3	**16.0**	4.6	0.7
Other Asia Pacific	8.5	8.5	8.3	9.2	9.8	9.6	10.5	**12.3**	17.1	0.6
Total Asia Pacific	**165.9**	**180.4**	**190.6**	**206.4**	**214.8**	**217.3**	**228.0**	**239.0**	**4.8**	**11.0**
TOTAL WORLD	**1866.1**	**1886.1**	**1922.3**	**2009.3**	**2009.9**	**2047.6**	**2091.3**	**2180.6**	**4.3**	**100.0**
of which. OECD	827.5	863.8	876.1	921.6	925.2	928.9	933.5	**962.6**	3.1	44.1
European Union 15	159.3	161.8	168.3	189.3	183.0	182.1	185.6	**190.9**	2.9	8.8
Other EMEs‡	377.8	398.7	433.0	467.4	504.0	523.5	552.0	**596.2**	8.0	27.3

*Excluding gas flared or recycled. †Less than 0.05. ‡Excludes Central Europe and Former Soviet Union.

Source: BP Statistical Review of World Energy, 2001.

XIV.5 WORLD CONSUMPTION OF NATURAL GAS 1993—2000

Million tonnes oil equivalent

	1993	1994	1995	1996	1997	1998	1999	2000	% Change 2000 over 1999	% share of total 2000
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
USA	524.9	536.5	558.5	568.5	567.8	552.4	561.7	**588.9**	4.8	27.2
Canada	61.6	63.8	63.8	66.9	67.3	63.3	65.4	**70.1**	7.1	3.2
Mexico	25.4	26.5	26.7	27.9	28.5	30.9	30.6	**32.0**	4.6	1.5
Total North America	611.9	626.8	649.0	663.3	663.6	646.6	657.7	**691.0**	5.1	31.9
Argentina	21.2	21.9	24.3	25.7	25.7	27.5	30.4	**29.8**	-1.9	1.4
Brazil	4.0	4.1	4.3	5.0	5.4	5.6	6.4	**8.5**	32.7	0.4
Chile	1.4	1.5	1.5	1.5	2.5	2.9	3.6	**6.2**	45.0	0.2
Colombia	3.8	3.7	4.0	4.2	5.3	5.6	4.7	**6.3**	14.4	0.2
Ecuador	0.1	0.1	0.1	0.1	0.1	0.1	0.1	**0.1**	-	^
Peru	0.4	0.4	0.4	0.4	0.3	0.5	0.5	**0.4**	-18.4	^
Venezuela	21.0	22.2	24.8	26.8	27.7	29.1	24.1	**24.5**	1.6	1.1
Other S&Cent Americs	6.1	6.5	6.5	7.4	8.0	8.9	9.3	**9.7**	3.6	0.5
Total S. & Cent. Americs	58.0	60.4	65.9	71.1	75.0	80.2	79.1	**83.5**	5.6	3.8
Austria	5.7	5.8	6.1	6.6	6.9	7.1	7.2	**7.1**	-1.0	-0.3
Belgium & Luxembourg	9.9	9.7	10.6	11.8	11.3	12.4	13.3	**13.4**	0.8	0.6
Bulgaria	3.7	3.7	4.5	4.6	3.7	3.1	2.8	**2.8**	-1.6	0.1
Czech Republic	5.3	5.7	6.5	7.6	7.7	7.7	7.7	**7.7**	-0.4	0.4
DenmarK	2.5	2.7	3.1	3.7	3.9	4.3	4.5	**4.4**	-1.9	0.2
Finland	2.6	2.8	2.9	3.0	2.9	3.3	3.3	**3.4**	2.2	0.2
France	29.0	27.8	29.6	32.5	31.2	33.3	33.9	**36.6**	5.0	1.6
Germany	59.8	61.1	67.0	75.2	71.3	71.7	72.1	**71.3**	-1.2	3.3
Greece	0.1	^	^	^	0.2	0.7	1.2	**1.6**	26.8	0.1
Hungary	8.1	8.4	9.2	10.2	9.7	9.8	9.9	**9.6**	-2.5	0.4
Iceland	-	-	-	-	-	-	-	**-**	-	-
Republic of Ireland	2.2	2.2	2.3	2.7	2.8	2.8	3.0	**3.4**	14.6	0.2
Italy	42.1	40.8	44.9	46.4	47.9	51.5	56.0	**57.4**	2.6	2.7
Netherlands	34.1	33.2	34.0	37.5	35.2	34.9	34.1	**34.5**	1.0	1.6
Norway	2.4	2.6	2.7	2.9	3.3	3.4	3.2	**3.5**	8.3	0.2
Poland	8.1	8.2	8.9	9.5	9.4	9.5	9.3	**10.0**	7.5	0.5
Portugal	-	-	-	-	0.1	0.7	2.0	**6.4**	>100	0.2
Romania	22.7	21.8	21.6	21.8	18.0	16.8	15.5	**14.6**	-5.9	0.7
Slovakia	4.6	4.5	5.1	5.5	5.6	5.7	5.8	**6.1**	-12.0	0.2
Spain	5.8	6.5	7.5	8.4	11.1	11.8	13.5	**15.2**	12.0	0.7
Sweden	0.7	0.7	0.7	0.8	0.7	0.8	0.8	**0.8**	1.3	^
Switzerland	2.0	2.0	2.2	2.4	2.3	2.4	2.4	**2.4**	-0.9	0.1
Turkey	4.6	5.9	6.2	8.1	8.5	8.9	10.8	**12.7**	17.5	0.6
United Kingdom	57.8	59.5	63.5	73.9	75.4	78.2	82.8	**86.1**	4.0	4.0
Other Europe	4.8	3.6	3.7	5.3	5.4	5.3	4.6	**6.0**	7.6	0.2
Total Europe	318.5	319.2	342.8	380.4	374.5	386.1	399.7	**4129**	3.3	19.1
Azerbaijan	7.8	7.3	7.2	5.3	5.0	4.7	5.0	**4.9**	-3.3	0.2
Belarus	14.0	12.3	11.1	11.7	13.3	13.5	13.8	**14.6**	6.1	0.7
Kazakhstan	11.7	9.2	9.7	8.1	6.4	6.5	7.1	**7.2**	1.2	0.3
Lithuania	1.5	1.8	2.1	2.3	2.4	2.1	2.2	**2.4**	13.0	0.1
Russian Federation	374.4	351.8	340.0	341.9	315.3	328.3	326.4	**339.5**	4.0	15.7
Turkmenistan	8.4	9.2	7.2	9.0	9.1	9.2	10.2	**11.3**	11.6	0.5
Ukraine	83.6	73.2	68.6	74.2	66.8	61.9	63.6	**61.6**	-3.0	2.9
Uzbekistan	36.6	37.2	38.1	39.0	40.9	42.3	44.3	**44.8**	1.1	2.1
Other Former Soviet Union	10.0	8.4	8.2	7.1	7.9	8.3	7.1	**7.1**	1.0	0.3
Total Former Soviet Union	548.0	510.4	492.2	498.6	467.1	476.8	479.7	**493.4**	2.9	22.8
Iran	23.9	28.6	31.5	36.1	42.4	46.6	49.5	**56.6**	14.4	2.6
Kuwait	4.9	5.4	8.4	8.4	8.3	8.5	7.8	**8.6**	10.5	0.4
Qatar	12.2	12.2	12.2	12.3	13.2	13.3	14.3	**13.0**	-9.1	0.6
Saudi Arabia	36.0	38.5	38.6	40.1	41.3	42.0	41.6	**42.3**	1.7	2.0
United Arab Emirates	17.7	19.5	22.3	24.4	26.1	27.4	28.3	**30.0**	6.2	1.4
Other Middle East	12.5	13.4	14.5	15.6	17.7	18.4	19.1	**19.6**	1.8	0.9
Total Middle East	107.2	117.6	127.5	136.9	149.0	156.2	160.6	**170.0**	5.9	7.9
Algeria	16.7	17.6	18.9	19.3	18.1	18.8	20.0	**21.9**	9.7	1.0
Egypt	8.7	9.4	9.9	10.2	10.4	10.8	12.9	**16.1**	24.5	0.7
South Africa	-	-	-	-	-	-	-	**-**	-	-
Other Africa	10.5	10.7	11.5	12.9	12.9	13.4	14.0	**14.9**	6.3	0.7
Total Africa	35.9	37.7	40.3	42.4	41.4	43.0	46.9	**62.9**	12.8	2.4
Australia	15.7	17.5	17.6	17.9	17.6	18.3	17.8	**19.1**	7.5	0.9
Bangladesh	5.5	6.0	6.6	6.8	6.8	7.0	7.5	**9.3**	24.7	0.4
China	14.6	14.9	15.9	15.9	17.4	17.4	19.3	**22.3**	16.0	1.0
China Hong Kong SAR	-	-	^	1.5	2.4	2.2	2.4	**2.2**	-9.6	0.1
India	14.7	15.7	17.7	18.5	19.1	20.9	21.4	**22.5**	5.2	1.0
Indonesia	21.5	24.6	27.0	28.2	28.7	25.0	24.8	**25.0**	0.8	1.2
Japan	50.7	54.3	55.0	59.5	58.6	62.5	67.1	**65.6**	2.2	3.2
Malaysia	11.7	12.3	12.4	14.3	15.0	15.7	17.1	**19.5**	14.0	0.9
New Zealand	4.3	4.0	3.7	4.3	4.6	4.0	4.7	**4.9**	4.6	0.2
Pakistan	10.9	12.0	13.1	13.8	14.0	14.4	15.6	**17.1**	9.5	0.8
Philippines	-	^	^	^	^	^	^	**^**	50.0	^
Singapore	1.4	1.4	1.4	1.4	1.4	1.4	1.4	**1.4**	-	0.1
South Korea	5.7	7.6	9.2	12.2	14.8	13.8	16.8	**18.9**	12.3	0.9
Taiwan	2.7	3.6	3.9	4.0	4.6	5.7	5.6	**6.2**	10.6	0.3
Thailand	7.6	8.6	9.0	10.7	13.1	14.3	15.6	**18.8**	20.5	0.9
Other Asia Pacific	2.7	2.9	3.0	3.4	3.8	4.1	4.4	**4.6**	1.4	0.2
Total Asia Pacific	169.7	185.4	195.5	212.4	221.9	226.7	241.5	**260.3**	7.8	12.1
TOTAL WORLD	1849.2	1857.5	1913.2	2005.1	1992.5	2015.6	2065.2	**2164.0**	4.8	100.0
Of which OECD	971.0	995.8	1042.4	1100.4	1101.0	1100.4	1135.1	**1187.9**	4.6	54.9
European Union 15	252.3	252.8	272.2	302.5	300.9	313.5	327.7	**339.6**	3.6	15.7
Other EMEs £	294.4	317.7	343.7	368.9	391.7	407.5	421.7	**455.2**	8.0	21.0

^ Less than 0.05 £ Excludes Central Europe and Former Soviet Union

Source : BP Statistical Review of World Energy, 2001.

XIV. 6 PRODUCTIVITY OF PRODUCING WELLS IN OPEC MEMBER COUNTRIES—2000 (AS AT YEAR END)

Country	Average Depth (Feet)	WELLS			AV-Daily production (000'bbl)	t/w/d
		Flowing	Artificial Lift	Total		
1	2	3	4	5	6	7
Algeria	10161	930	305	1235	796.0	87.9
Indonesia	3300	1511	7830	9341	1272.5	18.6
I.R. Iran	6301	1287	—	1287	3661.3	388.1
Iraq	n.a.	n.a.	n.a.	n.a.	2810.0	n.a.
Kuwait	7643	785	—	785	1996.1	346.9
Sp. Libyan A.J.	7796	904	532	1436	1347.2	128.0
Nigeria	9311	1179	330	2109	2053.6	132.8
Qatar	7410	325	90	415	648.2	213.1
Saudi Arabia	8049	1457	93	1550	8094.5	712.4
U.A.E.	7020	1143	362	1505	2174.7	197.1
Venezuela	9110	1223	14283	15506	2891.0	25.4
Total OPEC	5866	11554	24165	35719	27745.0	106.0
Total World	**5054**	**51849**	**832089**	**883938**	**65824.9**	**10.2**

t/w/d=Tonne/Well/Day
n.a. = Not Available
- = Negligible
Source: OPEC Annual Statistical Bulletin, 2000.

XIV. 7 WORLD OIL REFINING CAPACITIES AT END 1993-2000

(Million Tonnes Per Annum)

Country/Area	1993	1994	1995	1996	1997	1998	1999	2000	% Change 2000/1999	% share of total 2000
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
USA	751	746	766	763	767	780	822	829	0.9	20.2
Canada	95	91	91	89	90	89	93	93	0.0	2.3
Mexico	72	72	72	72	72	72	72	74	2.8	1.8
Total North America	**918**	**909**	**929**	**924**	**928**	**941**	**987**	**995**	**0.8**	**24.3**
Argentina	35	35	33	33	33	33	33	32	-2.3	0.8
Brazil	72	71	73	74	73	86	88	89	1.3	2.2
Netherlands Antilles & Aruba	23	23	24	25	26	27	27	27	-0.2	0.7
Trinidad & Tobago	13	13	13	13	8	8	8	8	0.7	0.2
Venezuela	61	59	59	59	59	64	59	64	8.8	1.4
Other S. & Cent. America	102	103	101	106	106	107	103	104	1.4	2.5
Total S. & Cent. America	**305**	**303**	**302**	**309**	**305**	**325**	**318**	**324**	**1.9**	**7.8**
Belgium	34	34	34	34	34	35	36	38	4.8	0.9
France	85	84	84	86	87	93	96	99	3.0	2.4
Germany	110	112	113	105	104	108	111	113	1.6	2.7
Greece	18	18	18	18	18	18	18	18	-2.0	0.5
Italy	121	117	117	118	117	117	114	114	0.0	2.8
Netherlands	62	59	59	59	58	59	60	60	-0.1	1.5
Norway	16	16	16	15	14	15	17	15	-13.7	0.4
Portugal	14	14	14	14	14	14	14	14	-2.8	0.4
Spain	61	62	60	60	61	63	62	62	0.3	1.5
Sweden	21	21	21	21	21	21	21	21	0.7	0.5
Turkey	33	34	34	34	33	34	32	32	-0.1	-0.8
United Kingdom	91	92	93	92	93	91	88	89	1.0	2.2
Other Europe	160	156	153	154	149	148	139	141	1.4	3.4
Total Europe	**827**	**818**	**816**	**811**	**806**	**816**	**811**	**818**	**0.9**	**20.0**
Total Former Soviet Union	**502**	**502**	**508**	**514**	**513**	**518**	**448**	**449**	**0.2**	**11.0**
Bahrain	12	12	12	12	12	12	12	12	-3.3	0.3
Iran	47	54	54	61	66	69	72	72	0.0	1.8
Iraq	29	26	26	26	26	26	32	32	1.5	0.8
Kuwait	17	30	39	39	39	42	45	45	0.0	1.1
Saudi Arabia	77	77	83	83	83	84	90	90	0.0	2.2
Other Middle East	50	50	50	54	55	56	65	66	1.5	1.6
Total Middle East	**232**	**249**	**265**	**277**	**281**	**290**	**316**	**317**	**0.3**	**7.8**
Total Africa	**136**	**141**	**140**	**141**	**142**	**143**	**145**	**148**	**2.1**	**3.6**
Australasia	39	39	39	41	42	44	46	46	0.0	1.1
China	151	166	177	200	210	226	269	271	0.7	6.6
India	52	53	53	56	60	61	109	111	1.8	2.7
Indonesia	39	39	44	44	44	46	46	46	-0.4	1.1
Japan	230	238	241	249	248	251	254	251	-1.1	6.2
Singapore	55	58	58	63	62	62	62	63	1.9	1.5
South Korea	68	79	80	86	95	115	115	116	0.9	2.8
Other Asia Pacific	90	92	99	112	125	125	137	137	0.0	3.4
Total Asia Pacific	**724**	**764**	**792**	**852**	**887**	**931**	**1038**	**1040**	**0.2**	**25.5**
TOTAL WORLD	**3644**	**3686**	**3752**	**3827**	**3863**	**3964**	**4065**	**4093**	**0.7**	**100.0**
Of which: OECD	1996	2003	2031	2035	2050	2096	2156	2168	0.6	53.0
Other EMEs ‡	1060	1100	1137	1202	1229	1279	1403	1417	1.0	34.5

* As on 1st April each year

Source: B.P. Amoco Statistical Review of World Energy 2000.

XIV. 8 WORLD REFINERY CRUDE THROUGHOUT 1993-2000

(Million Tonnes Per Annum)

COUNTRY	1993	1994	1995	1996	1997	1998	1999	2000	%Change 2000/1999	%share of total 2000
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
USA	676	688	694	730	728	737	735	751	2.2	21.7
Canada	76	78	78	84	84	85	85	88	3.0	2.5
Mexicao	76	72	74	72	71	72	69	68	-1.4	2.0
South & Central America	240	244	238	261	260	266	271	275	1.5	7.9
Europe	707	713	716	738	737	758	737	741	0.5	21.4
Former Soviet Union	294	252	243	236	235	222	222	227	2.3	6.6
Middle East	239	244	264	281	280	284	297	289	-2.7	8.4
Afirca	116	113	117	121	121	121	120	122	1.7	3.5
Australasia	37	39	39	43	43	43	44	44	0.7	1.3
China	128	127	135	154	153	160	183	210	14.8	6.1
Japan	198	207	207	215	214	209	206	206	0.0	6.0
Other Asia Pacific	300	314	339	407	406	395	414	440	6.3	12.7
TOTAL WORLD	**3088**	**3092**	**3144**	**3342**	**3334**	**3351**	**3382**	**3460**	**2.3**	**100.0**
of which: OECD	1814	1842	1858	1969	1964	1982	1964	1988	1.2	57.5
Other EMEs#	949	965	1007	1105	1102	1113	1166	1214	4.1	35.1

#Excludes Central Europe and Former Soviet Union

Source : BP Amoco Statistical Review of World Energy, 2001.

XIV. 9 COUNTRY-WISE WORLD OIL CONSUMPTION 1993-2000

(Million tonnes)

Country	1993	1994	1995	1996	1997	1998	1999	2000	%Change 2000/1999	%share of total 2000
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
USA	789.3	809.8	807.7	836.5	848.0	863.8	888.9	897.4	1.0	25.6
Canada	77.0	78.7	76.3	78.6	82.1	83.5	82.9	82.9	0.0	2.4
Mexico	71.0	77.9	71.4	73.9	77.9	81.4	80.8	84.3	4.3	2.4
Total North America	937.3	966.4	955.4	989.0	1008.0	1028.7	1052.6	1064.6	1.1	30.4
Argentina	19.5	20.0	20.1	21.3	22.0	23.0	20.8	20.1	-3.4	0.6
Brazil	62.9	65.7	69.2	74.1	79.9	83.2	83.2	84.4	1.4	2.4
Chile	8.0	8.8	9.7	10.5	11.2	11.4	11.7	11.8	0.9	0.3
Colombia	11.0	11.3	12.0	12.4	12.5	12.0	10.6	10.5	-0.9	0.3
Ecuador	4.8	5.2	5.1	5.7	6.5	6.6	6.0	6.5	8.3	0.2
Venezuela	19.4	19.6	20.0	19.0	18.7	21.6	21.9	22.6	3.2	0.6
Other S. & Cent, America	58.5	61.7	63.8	65.5	67.4	54.0	55.1	55.8	1.3	1.6
Total S. & Cent. America	179.3	187.1	194.8	202.8	211.7	219.1	216.7	218.7	0.9	6.2
Austria	11.4	11.3	11.3	11.6	11.9	12.3	12.1	11.5	-5.0	0.3
Belgium & Luxembourg	26.5	27.0	26.4	29.4	30.3	31.6	32.4	33.1	2.2	0.9
Czech Republic	6.9	7.1	8.0	8.3	8.3	8.3	8.2	7.9	-3.7	0.2
Denmark	9.5	10.1	10.5	11.4	11.1	10.7	10.6	10.4	-1.9	0.3
Finland	9.9	10.4	9.9	10.3	10.2	10.5	10.7	10.5	-1.9	0.3
France	91.1	88.2	89.0	91.0	91.7	95.0	96.4	95.1	-1.3	2.7
Germany	136.3	135.1	135.1	137.4	136.5	136.6	132.4	129.5	-2.2	3.7
Greece	16.7	16.9	17.6	18.2	18.4	18.2	18.7	19.1	2.1	0.5
Hungary	7.7	8.1	7.7	7.1	7.1	7.4	7.1	6.9	-2.8	0.2
Republic of Ireland	5.1	5.6	5.7	6.0	6.6	7.4	8.3	8.3	0.0	0.2
Italy	92.6	92.5	95.5	94.2	94.6	94.7	94.4	93.0	-1.5	2.7
Netherlands	36.4	36.4	38.0	37.4	39.5	39.4	40.6	41.8	3.0	1.2
Norway	9.5	9.6	9.6	10.1	10.3	10.0	10.1	9.4	-6.9	0.3
Poland	14.0	14.8	14.9	17.2	18.2	19.9	19.9	20.6	3.5	0.6
Portugal	12.0	12.0	12.9	12.1	13.0	15.1	15.4	15.3	-0.6	0.4
Romania	12.1	11.2	13.5	13.0	13.7	12.0	9.5	8.9	-6.3	0.3
Slovakia	3.0	3.3	3.2	3.4	3.6	3.4	3.4	2.8	-17.6	0.1
Spain	51.3	53.5	56.3	58.7	62.0	66.4	68.4	70.1	2.5	2.0
Sweden	16.1	17.0	16.1	17.4	16.1	16.2	16.1	15.2	-5.6	0.4
Switzerland	12.3	12.7	11.8	12.2	12.8	13.0	12.6	12.2	-3.2	0.3
Turkey	27.0	25.8	28.4	29.8	30.0	29.6	29.5	31.5	6.8	0.9
United Kingdom	84.1	83.4	81.7	83.8	81.3	80.9	79.4	77.6	-2.3	2.2
Other Europe	13.4	12.9	13.6	14.6	15.4	16.8	16.3	16.0	-1.8	0.5
Total Europe	711.2	711.4	723.1	740.7	749.1	760.7	757.9	752.6	-0.7	21.5
Azerbaijan	8.2	8.1	8.5	7.0	6.0	5.9	6.3	7.4	17.5	0.2
Belarus	14.0	12.8	12.3	9.3	9.6	9.9	6.1	5.4	-11.5	0.2
Kazakhstan	15.7	12.3	12.0	10.2	10.3	8.5	6.0	6.2	3.3	0.2
Russian Federation	188.6	162.7	146.1	130.1	129.1	123.7	126.2	123.5	-2.1	3.5
Tukmenistan	3.2	3.7	3.9	3.0	3.0	4.3	4.5	4.8	6.7	0.1
Ukraine	24.8	19.8	18.9	14.2	13.8	14.3	13.3	10.4	-21.8	0.3
Uzbekistan	8.1	7.2	6.7	7.4	6.7	7.0	7.1	6.8	-4.2	0.2
Other Former Soviet Union	13.1	9.6	8.5	7.2	8.2	8.5	4.7	5.7	21.3	0.2
Total Former Soviet Union	275.7	236.2	216.9	188.4	186.7	182.1	177.3	173.1	-2.4	4.9
Iran	51.8	54.3	59.6	62.2	60.8	58.0	58.4	56.9	-2.6	1.6
Kuwait	4.9	6.0	5.9	7.3	8.0	8.2	8.6	8.0	-7.0	0.2
Qatar	0.8	0.9	1.0	1.1	1.1	1.2	1.1	1.1	2.9	†
Saudi Arabia	52.1	53.5	51.4	53.7	55.4	58.8	60.9	62.4	2.5	1.8
United Arab Emirates	17.2	18.0	18.0	17.7	17.9	17.9	13.0	14.3	10.0	0.4
Other Middle East	50.4	51.9	55.5	57.1	59.7	64.1	65.0	66.3	2.0	1.9
Total Middle East	176.4	183.7	190.4	198.0	201.1	207.0	207.0	209.0	1.0	6.0
Algeria	9.4	8.9	8.7	8.3	8.3	8.4	8.1	8.5	4.9	0.2
Egypt	21.6	21.5	23.3	24.6	26.0	27.3	27.8	26.2	-5.8	0.7
South Africa	18.0	18.8	20.1	20.7	21.0	21.3	21.8	22.5	3.2	0.6
Other Africa	50.1	52.2	52.7	53.3	54.1	55.7	58.2	59.5	2.2	1.7
Total Africa	99.1	101.4	104.8	106.9	109.4	112.7	115.9	116.7	0.7	3.3
Australia	32.7	34.0	35.3	35.9	37.0	37.0	38.0	38.7	1.8	1.1
Bangladesh	2.1	2.3	2.6	2.7	2.8	2.8	3.2	3.3	3.1	0.1
China	140.5	149.5	160.7	174.4	185.6	190.3	207.2	226.9	9.5	6.5
China Hong Kong SAR	8.3	8.9	9.5	9.3	9.2	8.8	9.3	9.6	3.2	0.3
India	62.7	67.4	73.0	79.4	83.3	86.8	95.2	97.6	2.5	2.8
Indonesia	37.6	37.0	39.1	42.4	46.0	43.5	46.8	51.1	9.2	1.5
Japan	252.7	268.4	268.6	269.9	266.3	254.9	257.3	253.5	-1.5	7.2
Malaysia	15.6	17.4	17.9	19.0	20.2	19.0	20.3	20.5	1.0	0.6
New Zealand	5.2	5.6	5.8	5.9	6.1	6.1	6.3	6.3	0.0	0.2
Pakistan	13.5	14.5	15.8	16.6	16.5	17.6	18.2	19.6	7.7	0.6
Philippines	14.1	14.9	16.8	17.5	18.8	19.1	18.0	16.8	-6.7	0.5
Singapore	23.0	26.8	27.9	27.5	29.1	29.2	28.3	29.1	2.8	0.8
South Korea	79.3	87.0	94.8	101.4	110.3	92.9	99.7	101.8	2.1	2.9
Taiwan	30.2	32.3	34.7	34.8	36.0	37.2	39.9	39.8	-0.3	1.1
Thailand	26.8	29.8	34.7	37.5	37.8	35.4	35.4	34.1	-3.7	1.0
Other Asia Pacific	11.3	11.8	12.1	13.6	14.6	15.7	18.6	20.2	8.6	0.6
Total Asia Pacific	755.6	807.6	849.3	887.8	919.6	896.3	941.7	968.9	2.9	27.7
TOTAL WORLD	3134.6	3193.8	3234.7	3313.6	3386.3	3406.6	3469.1	3503.6	1.0	100.0
Of which: OECD	1984.3	2039.6	2047.1	2106.5	2138.5	2143.7	2178.1	2184.8	0.3	62.4
European Union 15	599.0	599.4	606.0	618.9	623.2	635.0	635.9	630.5	-0.8	18.0
Other EMEs‡	840.5	884.6	934.8	982.6	1023.1	1044.2	1079.8	1112.7	3.0	31.8

†Less than 0.05 ‡Excludes Central Europe and Former Soviet Union.
Source: B.P. Amoco Statistical Review of World Energy, 2001.

XIV. 10 PRODUCT-WISE REGIONAL CONSUMPTION OF MAIN PETROLEUM PRODUCTS DURING 1993-2000

(Million tonnes)

COUNTRY	1993	1994	1995	1996	1997	1998	1999	2000	% Change 2000/1999	%share of total 2000
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Gasolines	383.1	388.4	397.5	405.2	412.2	424.1	430.3	436.4	1.4	41.0
Middle distillates	273.3	287.6	287.4	300.7	309.6	312.4	320.9	330.8	3.1	31.1
Fuel oil	86.6	86.6	73.2	74.0	73.9	82.4	77.4	83.3	7.6	7.8
Others	194.5	203.7	197.4	209.1	212.3	209.7	224.0	214.1	-4.4	20.1
Total North America	**937.5**	**966.3**	**955.5**	**989.0**	**1008.0**	**1028.6**	**1052.6**	**1064.6**	1.1	100.0
Of which: USA										
Gasolines	335.5	339.3	345.5	252.6	358.4	369.4	375.3	380.5	1.4	42.4
Middle distillates	234.7	246.3	248.6	259.4	266.5	268.6	276.0	284.1	2.9	31.7
Fuel oil	58.3	55.1	45.8	45.7	42.7	47.7	44.7	49.1	9.8	5.5
Others	160.8	169.1	167.8	178.8	180.4	178.1	192.9	183.7	-4.8	20.5
Total USA	**789.3**	**809.8**	**807.7**	**836.5**	**848.0**	**863.8**	**888.9**	**897.4**	1.0	100.0
S & Cent. America										
Gasolines	44.6	48.0	50.1	51.9	54.7	55.1	55.1	55.0	-0.2	25.2
Middle distillates	64.0	68.1	71.9	75.1	78.5	82.6	81.9	83.3	1.7	38.1
Fuel oil	37.2	37.9	38.8	40.4	42.6	43.9	43.2	43.1	-0.2	19.7
Others	33.4	33.1	34.0	35.6	36.0	37.5	36.5	37.2	1.9	17.0
Total S. & cent. America	**179.2**	**187.1**	**194.8**	**203.0**	**211.8**	**219.1**	**216.7**	**218.6**	0.9	100.0
Europe										
Gasolines	178.1	177.8	180.2	181.6	183.1	185.1	186.4	181.4	-2.7	24.1
Middle distillates	284.2	284.7	292.4	308.2	310.8	320.5	323.3	325.3	0.6	43.2
Fuel oil	128.3	124.3	124.4	123.4	120.8	120.0	113.9	108.3	-4.9	14.4
Others	120.7	124.7	126.2	127.4	134.0	135.0	134.2	137.8	2.7	18.3
Total Europe	**711.3**	**711.5**	**723.2**	**740.6**	**748.7**	**760.6**	**757.8**	**752.8**	-0.7	100.0
Middle East										
Gasolines	27.5	30.4	32.7	33.5	35.1	35.9	36.5	37.2	1.9	17.8
Middle distillates	58.8	63.5	68.5	70.8	71.3	71.9	74.0	73.6	-0.5	35.2
Fuel oil	61.0	62.0	62.8	66.0	67.0	69.4	66.0	68.3	3.5	32.7
Others	29.2	27.9	26.4	27.7	28.5	29.8	30.5	29.8	-2.3	14.3
Total Middle East	**176.5**	**183.8**	**190.4**	**198.0**	**201.9**	**207.0**	**207.0**	**208.9**	0.9	100.0
Africa										
Gasolines	22.6	23.2	23.8	23.8	24.1	24.4	24.8	25.2	1.6	21.6
Middle distillates	39.5	40.4	41.7	43.0	43.9	45.3	47.2	48.6	3.0	41.6
Fuel oil	23.0	23.2	24.4	25.0	25.9	27.1	27.7	26.3	-5.1	22.5
Others	14.0	14.5	14.8	15.1	15.4	15.7	16.2	16.7	3.1	14.3
Total Africa	**99.1**	**101.3**	**104.7**	**106.9**	**109.3**	**112.5**	**115.9**	**116.8**	0.8	100.0
Asia Pacific (incl. China & Japan)										
Gasolines	156.9	162.9	175.0	185.1	201.8	210.2	223.5	233.1	4.3	24.1
Middle distillates	289.1	300.8	323.0	344.8	356.3	344.8	366.2	378.9	3.5	39.1
Fuel oil	194.4	218.1	216.3	215.5	212.3	188.7	193.1	190.2	-1.5	19.6
Others	115.2	125.6	135.0	142.6	149.3	152.6	158.7	166.2	4.7	17.2
Total Asia Pacific	**755.6**	**807.4**	**849.3**	**888.0**	**919.7**	**896.3**	**941.5**	**968.6**	2.9	100.0
China										
Gasolines	34.5	30.5	32.3	36.0	40.8	47.1	50.0	56.4	12.8	24.9
Middle distillates	43.5	42.6	48.3	52.5	58.2	61.9	70.5	80.5	14.2	35.5
Fuel oil	39.5	45.2	45.6	48.5	46.1	35.5	37.8	38.9	2.9	17.1
Others	22.9	31.3	34.4	37.4	40.5	45.7	48.9	51.1	4.5	22.5
Total China	**140.4**	**149.6**	**160.6**	**174.4**	**185.6**	**190.2**	**207.2**	**226.9**	9.5	100.0
Japan										
Gasolines	56.4	60.1	64.5	65.9	68.6	67.1	70.9	71.7	1.1	28.3
Middle distillates	89.6	92.1	95.3	98.2	96.2	94.2	95.6	94.5	-1.2	37.3
Fuel oil	60.0	69.7	61.2	57.7	52.7	47.4	46.5	43.5	-6.5	17.2
Others	46.7	46.4	47.5	48.1	48.7	46.2	44.3	43.7	-1.4	17.2
Total Japan	**252.7**	**268.3**	**268.5**	**269.9**	**266.2**	**254.9**	**257.3**	**253.4**	-1.5	100.0
World excl. FSU										
Gasolines	812.7	830.7	859.3	881.1	911.1	934.8	956.6	968.3	1.2	29.1
Middle distillattes	1008.7	1045.0	1084.9	1142.6	1170.5	1177.6	1213.5	1240.5	2.2	37.2
Fuel oil	530.6	552.1	539.9	544.3	542.5	531.5	521.3	519.5	-0.3	15.6
Others	507.0	529.7	533.7	557.4	575.5	580.5	600.1	602.0	0.3	18.1
Total World excl. FSU	**2859.0**	**2957.5**	**3017.8**	**3125.4**	**3199.6**	**3224.4**	**3291.5**	**3330.3**	1.2	100.0
OECD										
Gasolines	644.5	655.5	672.6	685.2	702.6	716.0	728.6	731.5	0.4	33.5
Middle distillates	677.5	698.8	714.0	749.4	760.3	761.1	778.1	788.0	1.3	36.1
Fuel oil	289.5	299.3	277.8	274.2	266.5	262.2	253.7	252.4	-0.5	11.6
Others	372.9	386.0	382.8	397.6	408.8	404.3	417.7	413.0	-1.1	18.9
Total OECD	1984.4	2039.6	2047.2	2106.4	2138.2	2143.6	2178.1	2184.9	0.3	100.0
European Union 15										
Gasolines	153.0	151.2	152.2	153.1	153.5	154.9	155.4	151.8	-2.3	24.1
Middle distillates	243.6	244.5	250.6	264.0	266.7	274.7	278.5	280.8	0.8	44.5
Fuel oil	100.3	97.9	97.6	95.9	92.8	94.4	90.3	84.6	-6.3	13.4
Others	102.1	105.7	105.7	105.9	110.0	111.0	111.6	113.3	1.5	18.0
Total European Union 15	**599.0**	**599.3**	**606.1**	**618.9**	**623.0**	**635.0**	**635.8**	**630.5**	-0.8	100.0
Others EMEs										
Gasolines	162.1	168.4	179.0	188.2	200.3	210.6	219.8	228.9	4.1	20.6
Middle distillates	321.3	337.1	361.0	382.4	399.3	405.5	425.3	442.6	4.1	39.8
Fuel oil	228.1	241.1	249.7	257.6	263.6	258.1	257.7	257.3	-0.2	23.1
Others	128.9	138.0	145.0	154.4	159.9	170.0	177.1	183.8	3.8	16.5
Total Others EMEs‡	**840.4**	**884.6**	**934.7**	**982.6**	**1023.1**	**1044.2**	**1079.9**	**1112.6**	3.0	100.0

‡Excludes Central Europe and Former Soviet Union
Gasolines' consists of aviation and moter gasolines and light distillate feedstock (LDF).
Middle distillates' consists of jet and heating kerosines, and gas and diesel oils (including marine bunkers).
'Others' consists of refinery gas, LPGs, solvents, petroleum coke, lubricants, bitumen, wax and refinery fuel and loss.
Source: B.P. Amoco Statistical Review of World Energy, June 2001.

XIV. 11 WORLD OIL PRODUCTION, CONSUMPTION AND RELATIVE DEFICIT/SURPLUS IN EACH COUNTRY/REGION DURING 1999 AND 2000

(Million Tonnes)

Country/Region	1999				2000			
	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	639.7	1052.6	-412.9	-39.2	651.9	1064.6	-412.7	-38.8
S. & Cent America	343.1	216.7	126.4	58.3	348.2	218.7	129.5	59.2
Middle East	1046.2	207.0	839.2	405.4	1112.4	209.0	903.4	432.2
Africa	361.5	115.9	245.6	211.9	373.2	116.7	256.5	219.8
Asia Pacific	362.7	941.7	-579.0	-61.5	380.5	968.9	-588.4	-60.7
Of which India	36.7	95.2	-58.5	-61.4	36.5	97.6	-61.1	-62.6
Japan	na	257.3	na	na	na	253.5	na	na
China	160.2	207.2	-47.0	-22.7	162.3	226.9	-64.6	-28.5
Australia	24.5	38.0	-13.5	-35.5	35.5	38.7	-3.2	-8.3
OECD	986.8	2178.1	-1191.3	-54.7	1010.4	2184.8	-1174.4	-53.8
Europe	328.7	757.9	-429.2	-56.6	329.0	752.6	-423.6	-56.3
Former Soviet Union	369.9	177.3	192.6	108.6	394.4	173.1	221.3	127.8
Total World	**3451.8**	**3469.1**	**-17.3**	**-0.5**	**3589.6**	**3503.6**	**86.0**	**2.5**

Source: BP Amoco Statistical Review of World Energy June 2001

XIV. 12 WORLD CRUDE OIL AND PETROLEUM PRODUCTS IMPORTS AND EXPORTS-2000

COUNTRY/AREA	IMPORTS		EXPORTS		IMPORTS		EXPORTS	
	Crude	Products	Crude	Produces	Crude	Products	Crude	Products
	(Million Tonnes)				(Thousand barrels daily)			
1	2	3	4	5	6	7	8	9
USA	446.0	103.6	3.2	39.5	8932	2160	64	826
Canada	45.4	7.7	64.4	19.8	909	161	1290	413
Mexico	-	17.5	86.7	3.7	-	365	1736	77
South & Central America	44.6	10.5	104.3	47.5	893	219	2089	990
Western Europe	402.7	96.0	63.7	40.0	8065	2001	1276	834
Former Soviet Union	0.3	5.6	142.9	67.7	6	117	2862	1411
Central Europe	50.7	12.1	0.1	5.7	1015	252	2	119
Middle East	4.2	4.6	835.9	105.7	84	96	16741	2204
North Africa	7.9	5.1	99.3	34.7	158	106	2009	723
West Africa	2.8	7.9	161.5	2.8	56	165	3234	58
East & Southen Africa	22.3	4.8	6.0	0.3	447	100	120	8
Australasia	24.3	4.6	17.2	5.0	487	96	344	104
China	70.3	18.0	10.4	6.9	1408	375	208	144
Japan	215.0	49.1	0.1	3.8	4306	1024	2	79
Other Asia Pacific	324.2	84.1	48.2	48.0	6493	1753	965	1001
Unidentified*	-	20.0	15.8	20.0	-	417	316	417
TOTAL WORLD	**1660.7**	**451.2**	**1660.7**	**451.2**	**33259**	**9406**	**33259**	**9406**

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

Note : Bunkers are not included as exports.

Intra-area movements (for example, between countries in Western Europe) are excluded.

Source : B.P. Amoco Statistical Review of World Energy, 2001.

XIV. 13 EXPORTS OF CRUDE OIL AND REFINED PETROLEUM PRODUCTS FROM OPEC MEMBER COUNTRIES

(Million Tonnes)

Country	1992	1993	1994	1995	1996	1997	1998	1999	2000
1	2	3	5	6	7	8	9	10	
				CRUDE OIL					
Algeria	13.9	15.3	16.4	16.6	19.5	18.5	20.3	20.6	23.0
Indonesia	32.6	33.9	39.5	37.0	35.2	35.4	33.7	38.9	31.1
Iran, IR	126.2	129.5	132.0	130.5	131.0	12.9	12.5	114.1	124.4
Iraq	3.0	2.9	3.0	3.2	4.4	36.7	76.2	106.1	99.7
Kuwait	34.7	71.7	62.9	59.1	62.7	56.4	59.2	47.2	62.1
Libya	58.7	55.3	56.0	54.9	55.7	54.0	56.6	49.4	50.2
Nigeria	78.9	77.5	79.2	82.9	84.6	87.0	76.9	84.9	99.2
Qatar	18.1	17.0	16.1	16.6	18.3	23.1	28.5	28.9	30.8
Saudi Arabia	328.6	313.4	310.4	313.2	304.2	308.0	318.2	284.8	312.2
U.A.E.	102.9	98.1	97.3	95.9	96.8	97.0	101.2	95.6	90.6
Venezuela	71.4	76.7	84.5	90.6	98.4	110.1	111.7	95.8	100.0
TOTAL	**869.0**	**891.3**	**897.3**	**900.5**	**910.8**	**839.1**	**895.0**	**966.3**	**1023.3**
				REFINED PETROLEUM PRODUCTS					
Algeria	20.9	18.7	19.1	19.7	20.2	23.0	23.0	29.8	27.2
Indonesia	12.7	11.8	12.4	14.6	14.8	12.9	10.9	9.6	9.4
Iran, IR	3.5	3.5	3.7	5.5	4.5	4.8	11.7	13.6	13.4
Iraq	0.8	0.9	1.0	0.9	1.0	.1.0	1.0	1.1	.1.1
Kuwait	12.8	20.9	31.0	39.5	35.7	42.2	4.5	41.8	33.7
Libya	8.5	7.1	6.5	6.1	5.6	7.1	6.8	10.0	11.8
Nigeria	1.5	1.6	1.2	1.0	1.1	1.2	0.9	0.5	0.9
Qatar	5.2	5.8	5.1	4.9	5.3	6.2	4.7	3.7	3.8
Saudi Arabia	64.3	69.0	67.7	65.8	74.3	69.3	68.1	63.7	61.2
U.A.E.	8.6	8.0	7.7	13.4	13.5	16.1	15.8	16.5	19.6
Venezuela	30.7	31.6	31.5	34.3	36.9	41.9	42.1	41.2	39.2
TOTAL	**169.5**	**178.9**	**186.9**	**205.7**	**212.9**	**225.7**	**189.5**	**231.5**	**221.3**

Note: Ecuador and Gabon withdraw their membership of OPEC

Source: OPEC Annual Statistical Bulletin, 2000.

XIV. 14 CRUDE OIL IMPORTS FROM OPEC MEMBER COUNTRIES BY REGIONS 1992-2000

(Million Tonnes)

IMPORT REGION	1992	1993	1994	1995	1996	1997	1998	1999	2000(P)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
North America	176.5	189.8	187.6	183.1	185.4	212.0	236.5	221.8	239.5
Of which USA	172.2	182.0	177.0	171.3	174.0	199.2	222.2	209.0	226.6
Latin America	43.0	38.9	40.7	33.6	40.0	35.2	37.3	41.1	45.6
Western Europe	278.4	279.6	262.3	253.6	252.1	264.3	292.4	248.0	255.1
Of which:									
France	44.5	52.4	44.4	44.0	42.2	42.7	49.9	41.1	39.9
Germany	36.9	31.2	37.1	29.8	28.8	27.3	28.0	23.8	24.8
Italy	56.9	55.8	46.8	49.4	53.8	60.2	64.0	59.2	61.8
U.K.	13.5	17.3	11.5	10.1	9.2	6.6	7.3	4.3	3.9
Middle East	15.4	14.8	15.6	15.1	15.6	15.3	15.7	14.6	13.6
Africa	14.1	14.0	14.7	25.2	23.6	26.1	27.9	27.8	31.0
Asia and Far East	331.3	346.3	358.7	369.9	371.3	380.5	377.8	393.3	413.0
Of which:									
Japan	162.6	169.3	179.2	179.2	177.2	186.5	177.5	175.0	177.9
Oceania	8.4	10.6	9.2	9.6	10.8	10.6	12.8	Na	Na
Eastern Europe	12.0	7.1	8.7	9.8	9.2	11.7	13.8	9.0	10.2
Unspecified	-	5.0	-	0.5	2.8	0.3	0.8	10.5	15.4
OECD Area	635.0	662.3	631.4	570.3	618.1	663.2	721.3	Na	Na
TOTAL WORLD	**879.1**	**906.1**	**897.2**	**900.5**	**910.7**	**955.8**	**1015.2**	**966.2**	**1023.4**

Source: OPEC Annual Statistical Bulletin 2000.

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

Na = Nil or Negligible (P) : Provisional

XIV. 15 CRUDE OIL EXPORTS FROM OPEC MEMBER COUNTRIES BY DESTINATION 2000

(000' bbl/Day)

DESTINATION/COUNTRY	Algeria	Indonesia	IR Iran	Iraq	Kuwait	Libya	Nigeria	Qatar	Saudi Arabia	UAE	Venezuela
1	2	3	4	5	6	7	8	9	10	11	12
North America	59.9	38.8	—	700.4	268.7	—	931.2	—	1581.3	1.3	1214.8
Latin America	15.0	—	60.0	—	—	—	105.7	—	61.6	—	671.2
Eastern Europe	8.9	—	110.0	80.0	—	—	2.6	—	—	—	—
Western Europe	353.7	—	920.8	781.1	199.9	3.5	437.9	2.7	1325.5	1.3	99.5
Middle East	—	1.5	30.0	75.0	—	986.5	—	—	165.6	—	—
Africa	—	—	200.0	—	24.8	—	129.8	—	217.7	34.3	—
Asia and Far East	—	552.1	1171.4	227.4	699.2	15.0	379.2	563.1	2901.5	1778.0	—
Oceania	—	—	—	—	—	—	—	—	—	—	—
Unspecified	23.5	30.1	—	132.0	52.0	—	—	51.8	—	—	18.1
OECD Area	—	—	—	—	—	—	—	—	—	—	—
TOTAL WORLD	461.1	622.5	2492.2	1995.9	1244.7	1005.0	1986.4	617.6	6253.1	1814.9	2003.5

Source : OPEC Annual Statistical Bulletin 2000
- = NIL or Negligible

XIV.16 VALUE OF PETROLEUM EXPORTS@ FROM OPEC MEMBER COUNTRIES 1993-2000

(Billion US$)

COUNTRIES	1993	1994	1995	1996	1997	1998	1999	2000
1	2	3	4	5	6	7	8	9
Algeria	6.90	6.36	6.90	9.16	8.35	5.69	7.55	12.92
Indonesia	5.69	6.00	6.44	7.87	7.24	4.60	6.58	10.94
Iran	14.25	14.80	14.94	17.96	17.66	11.10	16.09	25.44
Iraq	0.42	0.42	0.46	0.68	4.28	5.11	12.10	18.15
Kuwait	9.70	10.48	12.05	14.09	13.46	8.96	10.99	19.20
Libya	7.69	7.17	7.76	9.54	8.90	5.61	7.73	13.25
Nigeria	10.85	11.04	11.51	14.88	15.84	9.84	12.45	20.04
Qatar	2.81	2.62	2.98	3.80	4.65	3.17	4.77	7.83
Saudi Arabia	38.62	38.12	42.50	50.04	52.12	33.39	44.93	74.59
U.A.E.	12.11	11.68	12.82	14.98	15.26	11.13	15.02	26.15
Venezuela	11.03	11.47	13.73	18.52	18.18	11.51	16.46	25.60
TOTAL	**120.07**	**120.16**	**132.09**	**161.52**	**165.94**	**110.14**	**154.71**	**254.10**

@ Where applicable, petroleum product exports are included

Data for some countries may include export of condensates and other NGLs.

Source : OPEC Annual Statistical Bulletin, 2000

XIV. 17 SPOT PRICES OF KEY OPEC CRUDE SINCE 1990

(US $ bbl)

Period	Country/Crude Name													
	Kuwait	S.P. Libyan	A,I, Nigeria	Qatar	Saudi Arabi		UAE	Venezuela	Indonesia	I.R. Iran		Iraq		Oman
	Kuwait Exp.	Brega	Forcados	Dukhan	Arab Medium	Arab Heavy	Murban	T.J. Medium	Attacka	Iran Light	Iran Heavy	Basrah	Kirkuk	Oman
	31.4/2.6	40.4/0.2	41.4/1.1	41.4/1.1	30.3/2.4	28.0/3.0	39.4/0.8	24.0/0.85	42.3/0.09	33.9/1.4	31.0/1.6	34.0/2.0	36.1/2.1	36.3/0.79
1990	-	23.82	23.74	21.22	19.50	18.77	21.70	18.58	23.73	20.64	19.91	-	-	20.89
1991	-	20.41	20.17	17.86	15.77	14.02	18.17	15.83	20.68	17.34	16.33	-	-	17.14
1992	-	19.84	19.61	18.49	16.41	15.22	18.86	16.03	20.51	17.77	16.72	-	-	17.72
1993	14.07	17.08	17.44	16.21	14.19	13.03	16.90	14.32	18.10	15.06	14.08	-	-	15.77
1994	14.14	15.88	16.20	15.82	14.41	13.65	16.21	14.34	16.48	14.84	14.56	-	-	15.12
1995	15.90	17.21	17.26	16.73	16.09	15.58	17.18	15.91	17.82	16.17	16.26	-	-	16.34
1996	18.41	21.06	21.21	19.46	19.01	18.44	20.30	19.48	21.53	19.03	18.49	-	-	19.12
1997	17.81	19.36	19.29	18.99	17.97	17.17	19.59	-	20.35	18.24	18.00	-	-	18.52
1998	11.26	12.90	12.62	12.55	11.53	10.90	12.67	-	13.53	11.97	11.45	10.77	10.79	12.06
1999	16.75	18.08	17.93	17.65	16.95	16.44	17.89	-	17.94	17.25	16.93	16.28	16.43	17.27
2000	25.78	28.65	28.40	26.95	25.99	25.24	27.75	-	29.54	26.75	26.02	24.82	25.17	26.50
2000														
Jan	23.70	25.32	25.40	24.55	23.83	23.08	24.97	-	24.80	24.35	23.88	25.73	24.61	24.14
Feb	24.84	28.59	28.29	25.79	24.90	23.00	26.58	-	27.05	25.70	25.04	24.36	26.62	25.42
Mar	25.07	27.71	27.44	25.93	25.27	24.52	26.71	-	28.41	25.87	25.20	22.15	25.05	25.55
Apr	22.29	22.86	22.86	23.20	22.50	22.00	23.83	-	25.43	22.86	22.50	24.98	21.07	22.75
May	25.60	27.84	27.74	26.06	25.77	25.27	27.23	-	28.39	26.10	25.80	25.88	25.48	25.65
Jun	27.44	30.14	29.74	28.09	27.59	27.09	28.79	-	30.07	27.99	27.64	24.48	26.84	27.74
Jul	26.39	29.36	28.53	27.08	26.59	25.99	27.79	-	30.67	27.09	26.67	26.42	23.50	26.83
Aug	26.21	29.44	28.72	27.64	26.32	25.52	28.26	-	31.80	27.12	26.51	27.43	26.16	27.24
Sep	29.05	32.64	32.69	31.05	29.20	28.00	31.70	-	34.38	30.45	29.35	27.37	27.86	30.55
Oct	28.87	30.98	30.67	30.20	29.00	28.21	31.37	-	33.23	30.42	29.17	26.63	26.75	29.88
Nov	28.20	32.99	32.78	29.94	29.14	27.94	30.53	-	31.79	29.75	28.50	19.32	27.89	28.97
Dec	21.11	25.40	25.53	23.44	21.28	20.83	24.64	..	26.85	22.66	21.41	23.11	20.28	22.76

Notes: The number below crude names indicate the API gravities content in weight percentage, T.J. Medium Quotations are posted prices

Source: OPEC Annual Statistical Bulletin 2000

XIV. 18 CRUDE OIL SPOT PRICES IN US$/BBL.

(Average Unit Value, FOB)

Crude	Country	1993	1994	1995	1996	1997	1998	1999	2000
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Brent	U.K.	17.00	15.81	17.03	20.66	19.12	12.76	17.85	28.37
WTI	U.S.A.	18.44	17.20	18.41	21.77	20.62	14.40	19.25	30.33
WTS	U.S.A.	16.86	16.27	17.41	20.91	18.81	12.84	17.95	28.16
Louisiana Light	Louisiana	18.55	17.25	18.59	22.34	20.73	14.20	19.03	30.33
Dubai	UAE	14.92	14.75	16.10	18.57	18.15	12.18	17.20	26.17
Iranian Light	Iran	15.38	15.13	16.35	20.04	17.78	11.27	16.57	25.99
Iranian Heavy	Iran	14.48	14.74	15.94	19.40	17.32	10.82	16.13	25.61
Urals	Russia	15.39	15.23	16.52	20.81	18.33	11.83	17.18	26.52
Minas	Indonesia	17.89	16.20	17.63	20.63	19.30	12.36	17.79	28.73
Tapis	Malaysia	18.85	17.14	18.28	21.53	21.00	13.84	18.84	29.72

XIV. 19 PETROLEUM PRODUCT SPOT PRICES IN US$/BBL

(Average Unit Value, FOB)

Product	1993	1994	1995	1996	1997	1998	1999	2000
NW EUROPE								
Gasoline	20.93	18.89	20.01	23.22	23.33	16.76	23.11	36.14
Gas Oil	22.28	19.81	20.47	25.74	23.39	16.19	20.85	34.73
Jet/Kero	23.36	20.95	21.60	27.05	24.58	17.16	22.04	36.99
Naphtha	18.47	17.30	18.15	21.70	21.43	14.64	18.68	29.56
LSFO	13.50	14.00	15.76	17.52	15.47	11.73	14.75	23.20
HSFO	10.22	13.01	14.82	16.30	14.59	10.20	14.41	21.45
U.S.A.								
Gasoline	21.58	20.53	22.58	25.81	25.22	17.80	22.71	35.96
Gas Oil	22.03	20.69	20.72	26.35	23.64	16.43	20.45	36.41
Jet/Kero	23.31	22.20	21.76	27.57	24.58	18.03	21.74	38.11
Naphtha	..	..	..	..	..	..	..	..
LSFO	14.64	15.05	16.06	19.22	16.91	12.32	15.47	25.03
HSFO	11.22	12.24	14.47	16.03	15.26	10.25	13.96	20.65
SINGAPORE								
Gasoline	24.02	21.09	22.14	23.58	24.57	17.19	21.02	32.52
Gas Oil	24.02	20.88	21.61	27.07	24.28	15.47	19.13	32.41
Jet/Kero	23.31	22.20	21.76	27.57	24.58	18.03	21.74	38.11
Naphtha	17.22	16.35	17.54	20.22	21.93	14.84	19.39	28.28
LSFO	14.86	13.38	14.55	17.95	16.93	10.98	15.50	25.71
HSFO	10.81	12.37	14.30	15.90	15.10	10.09	15.14	23.58

.. = Not Available

Source: Energy Prices and Taxes, 2nd Quarter 2001, International Energy Agency Publication

XIV. 20 NATURAL GAS PRICES IN INDUSTRIAL/DEVELOPED COUNTRIES

US$ 10 K. Cal (GCV)

Country	1993	1994	1995	1996	1997	1998	1999	2000
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
				A. FOR INDUSTRIAL USE				
Australia	121.4	127.2	132.4	144.9	135.8	na	na	na
Austria	149.6	151.9	171.9	172.0	164.3	154.6	na	na
Belgium	129.3	124.3	141.5	132.6	131.3	na	na	na
Canada	74.7	78.5	69.8	71.1	72.5	70.6	79.4	89.8
Czech Republic	131.4	137.2	157.5	164.1	152.2	159.8	142.8	147.6
Finland	105.4	120.2	145.9	148.7	143.7	138.5	128.1	130.8
France	142.8	141.8	161.0	161.9	152.8	145.4	135.3	167.8
Germany	187.3	184.7	207.1	201.6	189.9	178.2	na	na
Hungary	127.9	111.9	105.6	105.8	145.0	144.8	134.9	124.9
Ireland	291.9	296.4	318.3	317.8	300.9	171.6	164.8	144.9
Italy	150.1	157.5	173.7	197.9	191.7	171.4	na	na
Japan	464.9	466.2	490.4	423.1	463.3	356.0	385.8	na
Mexico	99.9	87.6	70.2	102.7	114.2	81.4	88.3	150.0
Netherlands	126.4	126.0	158.7	153.0	142.7	133.0	166.8	166.6
New Zealand	163.6	180.4	203.0	217.2	222.0	209.3	217.4	176.2
Poland	115.9	115.4	129.7	138.4	130.6	132.0	121.8	133.0
Spain	127.1	135.5	159.0	168.7	155.8	137.8	131.5	175.4
Switzerland	265.3	267.7	296.9	272.8	237.5	238.8	214.5	222.9
Turkey	155.9	140.6	157.6	187.8	199.3	172.3	162.3	171.6
United Kingdom	137.5	141.6	127.1	92.0	101.8	108.7	106.3	104.6
United States	113.8	113.8	100.8	129.2	136.2	119.0	118.1	169.4
OECD Europe	149.2	150.6	165.9	163.3	159.0	151.3	na	na
OECD	130.7	131.3	130.1	143.5	147.6	133.9	na	na
				B. FOR HOUSEHOLD USE				
Australia	276.6	312.2	317.9	332.8	332.3	na	na	na
Austria	396.3	405.8	459.7	468.3	430.8	415.0	393.3	348.4
Belgium	406.5	435.3	487.1	451.8	413.3	409.8	na	na
Canada	176.9	175.6	162.2	169.7	170.6	169.8	212.4	199.4
Czech Republic	95.4	111.4	125.5	131.6	128.7	177.3	185.1	214.1
Denmark	641.2	636.9	691.5	739.2	677.6	645.2	654.6	735.1
Finland	112.4	131.1	177.9	181.4	170.3	169.0	156.2	159.5
France	456.5	459.6	500.5	470.4	426.6	434.9	384.3	347.5
Germany	425.3	436.3	476.8	438.9	416.6	405.5	na	na
Hungary	117.0	104.5	137.2	136.3	165.6	202.5	185.0	166.3
Ireland	432.7	441.0	473.6	472.8	447.7	420.3	435.2	345.6
Italy	636.1	666.3	667.2	733.2	698.2	691.0	638.8	na
Japan	1204.1	1307.9	1410.7	1294.1	1287.8	1068.4	1196.4	na
Luxembourg	249.2	261.5	298.0	319.4	296.7	274.5	244.5	275.6
Netherlands	351.6	366.0	406.2	400.2	393.1	393.6	369.2	359.4
New Zealand	254.1	297.2	363.4	415.9	437.7	380.2	379.3	322.5
Poland	153.9	159.5	208.7	236.1	227.7	248.3	240.9	247.5
Spain	553.8	540.9	609.5	613.4	548.0	533.2	481.0	491.5
Switzerland	429.0	448.3	537.8	505.7	437.7	439.6	412.2	411.3
Turkey	263.2	207.8	210.6	209.3	237.5	235.1	225.8	257.8
United Kingdom	285.4	308.9	328.8	325.7	338.2	330.6	321.0	292.8
United States	237.2	246.5	244.3	264.3	266.8	262.2	277.4	317.6
OECD Europe	399.6	411.7	441.0	437.7	423.3	423.5	404.7	na
OECD	333.4	345.4	361.9	367.2	362.7	359.4	358.4	na

0.95 tonne of oil approximate 10 K. Calories of gas na=Not Available, GCV=Gross Calorific Value

Source: International Energy Agency's "Energy Prices and Taxes" 2nd Quarter of 2001.

XIV. 21 CRUDE OIL IMPORT COSTS IN US$/BBL

(AVERAGE UNIT VALUE, CIF)

Country	1993	1994	1995	1996	1997	1998	1999	2000
IEA*	16.37	15.65	17.19	20.52	19.11	12.52	17.26	28.00
IEA Europe	16.14	15.63	17.06	20.67	18.88	12.30	17.32	27.89
Australia	17.91	16.76	18.53	21.81	21.78	14.60	18.38	30.79
Belgium	15.84	15.41	16.94	20.53	18.65	11.97	17.33	27.87
Canada	17.19	16.30	17.76	21.26	20.59	13.15	17.85	29.10
France	16.05	15.76	17.14	20.82	18.99	12.43	17.45	28.18
Germany	16.88	15.81	17.07	20.68	19.01	12.48	17.51	28.09
Greece	15.09	15.17	16.54	20.08	18.45	11.66	16.64	26.95
Italy	15.87	15.49	16.90	20.53	18.83	12.21	17.10	27.77
Japan	17.47	16.48	18.02	20.55	20.55	13.68	17.38	28.72
Netherlands	15.53	15.20	16.92	20.39	18.37	11.98	16.97	27.59
Spain	15.13S	15.24	16.96	20.45	18.34	11.80	16.99	27.16
Sweden	16.60	15.81	17.23	20.86	18.90	12.61	17.68	28.13
Turkey	16.05	15.52	16.78	20.25	18.79	11.99	16.07	26.61
U.K.	16.58	15.83	17.29	21.08	19.32	12.64	18.01	28.45
USA	15.87	15.06	16.74	20.16	18.34	12.02	17.06	27.54

* = Computed across all countries of the region using import volumes as current weights. For reasons as confidentiality, data for some countries are not listed seperately.

Source : Energy Prices and Taxes, 2nd Quarter, 2001, International energy Agency Publication.

XIV. 22 DEVELOPMENT OF SPOT PRICES OF KEY OPEC CRUDE OILS SINCE JANUARY 1999

Year/Month	IR Iran Light 33.9	Kuwait Export 31.4	Nigeria Bonny Light 36.7	Saudi Arabia Light 34.2	Saudi Arabia Heavy 28.0	UAE Dubai 32.4
1999						
January	10.25	9.78	11.33	10.43	9.53	10.70
February	9.80	9.35	10.24	10.05	9.20	10.03
March	11.99	11.54	12.56	12.11	11.31	12.39
April	14.67	14.17	15.44	14.92	13.72	14.90
May	15.37	14.82	15.45	15.60	14.60	15.46
June	15.24	14.73	15.86	15.41	14.51	15.46
July	17.65	17.10	19.28	17.85	16.80	17.90
August	19.31	18.76	20.44	19.58	18.45	19.45
September	22.12	21.65	22.90	22.35	21.30	22.08
October	22.03	21.53	22.30	22.18	21.03	21.48
November	23.51	23.13	24.80	23.66	22.81	23.08
December	24.81	24.20	25.86	25.04	23.70	23.65
2000						
January	24.35	23.70	25.41	24.43	23.08	23.23
February	25.70	24.84	28.36	25.85	24.00	24.77
March	25.87	25.07	27.54	26.02	24.52	24.99
April	22.86	22.29	22.91	22.95	22.00	22.14
May	26.10	25.60	27.87	26.27	25.27	25.69
June	27.99	27.44	29.86	29.09	27.09	27.24
July	27.09	26.39	28.75	27.19	25.99	26.35
August	27.12	26.21	29.06	27.12	25.52	26.79
September	30.45	29.05	32.65	30.60	28.00	30.05
October	30.42	28.87	30.67	30.17	28.21	30.57
November	29.75	28.20	32.86	29.81	27.94	30.25
December	22.66	21.11	25.47	22.65	20.83	22.27
2001						
January	22.63	21.08	25.43	22.31	20.74	22.56
February	24.65	23.10	27.40	24.82	23.32	24.79
March	23.58	22.03	24.35	23.77	22.57	23.67
April	24.05	22.50	25.43	24.24	23.15	24.06
May	25.58	24.03	28.51	25.77	24.60	25.40
June	25.80	24.25	28.06	26.17	24.88	25.86
July	23.78	22.47	24.81	24.03	22.61	23.45
August	24.68	23.13	25.41	24.92	23.77	24.70
September	24.54	22.99	25.98	24.73	23.63	24.37
October	20.04	18.49	20.60	20.16	19.36	19.93
November	17.64	16.09	18.92	17.82	17.00	17.62
December	17.69	16.14	18.78	17.99	17.21	17.60

Source: OPEC Monthly Bulletin.

XIV. 23 DEVELOPMENT OF SPOT PRICES OF MAJOR PETROLEUM PRODUCTS IN KEY TRADING CENTRES OF THE WORLD DURING 1999 AND 2000

(US$/Barrel)

Market/Product	1999					2000				
	Jan.	March	June	Sept.	Dec.	Janu.	March	June	Sept.	Dec.
NAPHTHA:										
North European Market, FOB Rotterdan	11.12	13.09	17.34	23.21	24.73	27.41	31.06	30.41	33.28	29.27
Sourth European Market, FOB Italy	9.80	11.80	16.39	22.37	23.83	26.26	29.65	28.93	31.58	27.74
Caribbean Cargoes	11.93	15.39	18.03	25.09	25.96	28.17	32.74	36.24	35.32	29.73
Singapore Cargoes	12.04	13.66	17.69	24.49	25.03	25.02	29.08	28.13	34.53	25.52
Middle East FOB	11.71	13.61	17.32	24.29	24.85	24.62	28.42	27.63	33.03	24.19
GASOLINE (Premium 0.15g/Litre)										
North European Market, FOB Rotterdan	13.45	15.36	19.14	26.75	28.93	28.23	36.27	44.28	37.70	28.05
Sourth European Market, FOB Italy	13.09	15.08	19.19	26.90	28.82	27.55	36.27	44.06	37.87	27.79
US East Coast, New York (Unl. regular 87)	14.13	17.50	20.28	28.67	29.35	29.41	37.10	40.12	39.90	30.96
Singapore Cargoes	14.15	15.79	18.49	26.86	25.46	28.36	32.58	33.08	35.05	29.97
JET KERO										
North European Market, FOB Rotterdan	14.65	16.16	19.02	26.41	33.07	32.24	34.01	34.40	43.84	37.50
Sourth European Market, FOB Italy	12.69	14.47	17.26	25.18	32.52	31.43	32.31	31.99	41.89	35.99
US East Coast, New York	14.34	16.68	19.37	26.66	30.92	39.42	34.31	33.69	43.80	40.97
Caribbean Cargoes	13.88	15.66	19.18	26.18	29.93	32.85	33.01	32.78	42.78	36.40
Singapore Cargoes	15.81	15.82	18.82	26.37	29.53	31.30	32.37	31.23	42.21	32.92
Middle East FOB	14.53	14.86	17.56	25.13	28.30	29.87	30.79	29.40	40.01	29.73
GAS OIL										
North European Market, FOB Rotterdan	13.23	15.61	16.58	24.29	28.18	28.96	30.28	31.40	42.09	34.25
South European Market, FOB Italy	12.71	13.88	15.73	23.36	27.86	28.06	29.63	30.14	41.97	34.92
US East Coast, New York	13.90	16.02	17.88	25.04	27.91	34.21	32.01	32.62	41.25	39.52
Caribbean Cargoes	12.71	15.04	17.44	24.54	27.38	30.61	30.82	32.27	41.01	34.63
Singapore Cargoes	14.66	14.10	17.19	23.04	25.63	28.14	32.94	30.69	40.13	29.61
Middle East FOB	13.32	13.07	15.86	21.73	24.34	26.63	31.28	28.76	37.79	26.46
FUEL OIL										
North European (1%s)	10.79	9.68	12.56	17.77	19.69	19.85	22.67	23.79	24.29	23.24
Sourth European (1%s)	10.86	9.45	11.85	17.34	18.23	20.48	22.40	24.50	25.00	23.46
US East Coast, New York (1%s)	10.98	11.20	14.61	19.48	19.21	21.76	21.06	27.11	29.42	25.63
Caribbean Cargoes (2.0%s)	9.29	9.42	12.21	18.34	18.20	19.82	20.17	22.27	23.59	19.89
Singapore Cargoes (0.3%s)	9.94	10.85	14.17	18.91	21.47	21.58	25.85	26.78	28.44	24.45
Singapore Cargoes (180C)	9.49	9.80	12.58	18.42	20.47	19.66	24.66	25.30	24.81	19.78
Middle East FOB (180C)	8.61	8.94	11.95	17.53	19.41	18.47	23.40	23.60	22.98	17.06

Source: Monthly OPEC Bulletin

XIV. 24 WORLD SURVEY OF SELECTED PETROLEUM PRODUCTS PRICES 2000

(US$/Litre)

Country	US$ Exchange Rate in National Currencies	Gasoline	Automotive Diesel Oil	Heavy Fuel Oil for Industry	Light Fuel Oil	
					For Household Use	For Industry Use
1	2	3	4	5	6	7
Australia	1.73	0.530	0.519	..	..	..
Austria	14.93	..	0.717	..	414.10	..
Belgium	43.77	1.008	0.747	180.80	324.10	267.90
Canada	38.64	..	..	182.40	..	243.10
Czech Republic	8.09	0.767	0.639	111.50	410.90	298.80
Denmark	6.45	..	0.877	..	690.60	379.20
Finland	7.12	..	0.784	..	399.00	327.00
France	2.12	1.084	0.783	183.90	430.20	332.40
Germany	364.10	..	0.738	..	376.70	324.70
Greece	282.30	0.763	0.624	..	453.90	384.70
Hungary	0.85	..	..	130.20	..	609.50
Ireland	2101.00	0.956	0.775	227.70	425.20	317.90
Italy	107.80	1.040	0.823	220.90	792.60	660.50
Japan	1131.00	..	0.769	224.30	437.90	286.70
Korea	43.77	..	0.542	275.60	494.70	..
Luxembourg	9.45	..	0.639	..	324.60	289.80
Mexico	2.39	..	0.441	115.50	..	247.90
Netherland	2.21	..	0.782	..	519.60	..
New Zealand	8.80	..	0.313	271.10	..	238.90
Norway	4.35	1.270	1.125	..	585.20	466.20
Poland	217.50	0.724	0.588	112.70	372.80	267.00
Portugal	180.50	..	0.603	221.30	..	..
Spain	9.15	0.806	0.639	186.50	391.90	337.80
Sweden	1.69	1.073	0.923	..	593.00	307.40
Switzerland	624300.00	..	0.851	..	300.90	257.20
Turkey	0.66	0.928	..	202.90	721.70	..
U.K.	1.00	..	1.230	191.60	325.40	261.60
USA	1.00	..	0.390	167.70	357.00	231.90

Source: Energy Prices and Taxes 2nd Quarter, 2001, International Energy Agency Publication.

XIV. 25 POSTED AIRFIELD PRICES OF JET A-1 FUEL AT MAJOR INTERNATIONAL AIRPORTS AS ON 1ST APRIL OF EACH YEAR

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

Countries / Ports	1990	1995	1996	1997	1998	1999	2000	2001
Australia								
Baharin	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	76.00
France								
Paris	66.24	60.94	77.62	70.42	54.20	54.20	91.99	68.30
Germany								
Frankfurt	67.96	62.29	78.21	66.87	N.A.	N.A.	N.A.	N.A.
Netherlands								
Amesterdam	65.22	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Italy								
Rome	68.48	82.03	71.97	N.A.	N.A.	N.A.	N.A.	N.A.
Kenya								
Nairobi	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	76.71
Malaysia								
Kualalumpur	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	59.90
Singapore								
Paya Lebqr/Chan-gi	63.10	57.87	71.33	66.99	41.98	46.81	78.23	60.45
Switzerland								
Geneva	67.93	64.71	78.53	73.56	N.A.	N.A.	N.A.	N.A.
U.A.E.								
Abu Dhabi	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	82.00
Dubai	78.11	80.00	92.00	91.00	63.50	63.00	108.25	78.30
United Kingdom								
London (Heathrow)	66.37	57.00	73.68	63.55	47.31	46.98	87.65	62.42
Kuwait	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	74.00
New York (1)	64.98	52.74	67.63	62.07	49.92	48.29	N.A.	61.04
Japan								
Tokyo	85.75	72.03	82.63	87.20	60.58	64.48	100.70	71.02
India								
Mumbai	89.59	93.00	110.40	119.40	81.60	75.60	120.00	94.43
Delhi	91.28	62.93	99.36	107.46	74.80	69.30	120.00	97.00
Madras	N.A.	N.A.	N.A.	N.A.	84.32	78.12	124.00	92.95

(1) Air India Contract Price.

N.A.: Not Available

Source: Air India

XIV. 26 INTERNATIONAL PETROLEUM PRICE INDEX DURING 1992—2000
(US $/BARREL)

(1990=100)

PETROLEUM SPOT	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.K. BRENT 38.0/0.26	81.87	72.00	72.05	66.92	87.67	80.73	53.83	75.86	120.46
USA WEST TAXAS INTERMEDIATE 40.0/0.4	84.14	75.43	70.28	75.31	90.76	84.06	58.71	78.90	124.16
UAE DUBAI FATEH 32.5/1.43	88.45	73.26	72.33	79.00	91.17	88.81	59.62	84.59	128.80
USA ANS 27.0/1.06	82.85	74.68	71.76	78.38	93.66	86.36	57.03	81.07	129.56
I.R. IRAN LIGHT 33.9/1.4	86.09	72.97	71.90	78.34	92.20	88.37	57.99	83.58	129.60
I.R. IRAN HEAVY 31.0/1.6	83.98	70.72	73.13	81.67	92.87	90.41	57.51	85.03	130.69
INDONESIA MINAS 33.9/0.1	82.72	76.91	69.69	75.84	88.99	82.80	52.92	76.70	123.56
NIGERIA BONNY LIGHT 36.7/0.1	82.57	72.72	67.09	71.77	87.91	80.30	52.86	74.79	117.92
MEXICO ISTHUMUS 31.8/1.51	81.86	72.20	69.66	75.87	93.65	82.81	54.78	78.41	126.08
RUSSIA URALS 36.1/2.52	80.30	68.28	67.39	73.74	89.22	81.10	52.26	76.49	117.92
MALAYSIA TAPIS 44.3/0.2	86.25	78.28	71.18	75.96	91.40	86.88	57.35	78.49	123.50
AUSTRALIA GIPPSLAND 46.0/0.13	85.56	74.77	68.16	73.37	89.03	84.04	56.44	78.32	124.47
SAUDI ARABIA ARAB HEAVY 28.0/3.0	81.09	69.42	72.72	83.00	98.24	91.48	58.07	87.59	134.47

Note : The number below the crude names show the API gravities and percentage of sulphur by weight.

Source: Based on data from OPEC Annual Statistical Bulletin, 2000.

XIV. 27 TANKER FLEET a) DEVELOPMENT IN OPEC MEMBER COUNTRIES, 1996—2000

(As at year End - In Thousand DWT)

Country	1996		1997		1998		1999		2000	
	No.	DWT	No.	DWT	No.	DWT	No.	DWT	No.	DWT
Algeria	1	22.3	1	22.6	1	22.6	1	22.6	1	22.6
Indonesia	25	726.7	25	739.1	25	739.1	31	904.2	32	988.9
I.R. Iran	12	3301.0	25	3996.1	17	2998.9	20	3523.6	29	4029.5
Iraq	17	1493.0	17	1517.0	16	1364.2	9	534.3	9	534.3
Kuwait	28	3441.5	27	3156.9	26	3343.0	17	2890.3	16	2862.9
S.P. Libyan A.J.	10	1234.7	10	1254.5	9	1113.5	5	526.8	6	775.3
Nigeria	2	406.5	3	423.7	2	413.0	2	413.0	2	413.0
Qatar	2	190.7	5	479.0	5	479.0	5	465.8	4	368.6
Saudi Arabia	15	796.5	14	719.3	10	521.8	11	481.3	12	578.6
UAE	15	785.5	10	509.4	13	659.4	13	659.4	10	291.6
Venezuela	11	559.9	10	521.8	9	474.4	7	373.8	6	320.3
TOTAL OPEC	**138**	**12958.3**	**147**	**13339.4**	**133**	**12128.9**	**121**	**10795.2**	**127**	**11186.0**
TOTAL WORLD	**3255**	**283742.0**	**3323**	**292397.5**	**3424**	**300460.0**	**3313**	**287358.1**	**3329**	**292059.0**
OPEC Percentage		4.6		4.6		4.0		3.7		3.8

a) Including commercial units, government-owned vessels and tankers for purpose other than transportation.
Total may not add up, due to independent rounding
Sources : OPEC Annual Statistical Bulletin, 2000

XIV. 28 WORLD TANKER FLEET a) by AGE, 10,000 DWT AND OVER

(As at year End—In Thousand DWT)

	1985 and earlier		1986-90		1991-95		1996-2000		Total	
	no.	dwt	no.	dwt	no.	dwt	no.	dwt	no.	dwt
10,000-19,999	269	4,061.4	59	911.2	68	956.7	149	2,180.1	545	8,109.3
20,000-29,999	224	5,971.4	61	1,720.8	35	995.3	20	491.4	340	9,178.8
30,000-39,999	322	11,169.5	46	1,721.1	40	1,448.5	88	3,061.7	496	17,400.8
40,000-49,999	88	3,881.4	62	2,687.3	74	3,261.4	143	6,504.5	367	16,334.6
50,000-59,999	79	4,358.1	4	211.2	3	170.1	1	55.2	87	4,794.6
60,000-69,999	113	7,265.8	26	1,687.3	25	1,681.5	15	1,001.7	179	11,636.4
70,000-74,999	6	425.2	—	—	2	141.8	12	866.4	20	1,433.4
75,000-89,999	135	11,573.0	52	4,389.6	10	852.2	7	584.4	204	17,399.2
90,000-99,999	46	4,341.7	34	3,259.6	88	8,479.6	31	3.050.9	199	19,131.8
100,000-109,999	11	1,159.7	18	1,875.4	16	1,665.9	91	9,627.5	136	14,328.5
110,000-119,999	9	1,043.2	8	897.8	3	333.9	12	1,342.5	32	3,617.3
120,000-129,999	27	3,374.5	7	877.6	4	493.5	12	1,512.1	50	6,257.7
130,000-139,999	28	3,795.2	6	813.1	14	1,899.8	4	537.8	52	7,045.9
140,000-149,999	12	1,722.8	13	1,879.3	39	5,698.1	25	3,701.3	89	13,001.5
150,000 159,999	16	2,469.9	8	1,227.8	21	3,250.9	37	5,741.9	82	12,690.6
160,000-199,999	12	2,141.0	—	—	—	—	—	—	12	2,141.0
200,000-229,999	2	453.4	2	429.7	—	—	—	—	4	883.1
230,000-259,999	29	7,062.1	34	8,516.1	39	9,975.3	15	3,885.0	117	29,438.6
260,000-299,999	56	15,321.7	16	4,418.7	66	18,837.8	46	13,359.8	184	51,938.0
300,000-349,999	14	4,473.6	2	609.0	24	7282.0	56	17126.0	96	29,491.3
350,000 and over	38	15,807.0	—	—	—	—	—	—	38	15,807.0
Total world b)	1,536	111,871.5	458	38,132.8	571	67,424.6	764	74,630.1	3,329	292,059.2

a) Commercial fleet as well as tankers covered for purposes other than transportation.
b) Included vessels mentioned under a) and government owned tankers.
Source : OPEC Annual Statistical Bulletin—2000

XIV. 29 INTER-AREA TOTAL OIL MOVEMENTS DURING 2000

To /FROM	USA	Canada	Mexico	S.&C America	Western Europe	Central Europe	Africa	Australasia	China	Japan	Other Pacific@	Rest of World	Unidentified	Total
USA	—	4.9	12.8	7.8	10.1	—	0.3	0.4	0.2	1.7	3.8	0.8	—	42.8
Canada	83.4	—	—	0.2	0.6	—	—	—	—	—	—	—	—	84.2
Mexico	67.8	1.3	—	8.4	10.1	—	0.2	—	—	2.1	0.3	0.2	—	90.4
South & Central America	127.1	6.2	1.0	—	12.3	0.2	0.6	0.2	0.4	0.2	3.6	—	—	151.8
Western Europe	43.7	28.3	0.2	1.4	—	9.5	8.4	0.1	2.6	0.3	6.9	2.3	—	103.7
Former Soviet Union	3.2	—	—	8.1	124.0	40.2	0.5	—	4.7	0.3	7.3	2.3	20.0	210.6
Central Europe	—	—	—	—	3.2	—	—	—	—	—	0.1	2.5	—	5.8
Middle East	124.5	5.2	0.9	21.3	182.7	9.8	34.9	10.1	38.4	208.2	303.1	2.5	—	941.6
North Africa	11.0	3.8	2.6	1.3	101.6	3.0	3.5	—	0.2	0.6	4.2	3.2	—	135.0
West Africa	69.7	1.1	—	6.3	27.6	0.1	2.2	—	13.4	0.8	43.1	—	—	164.3
East & Southern Africa	—	—	—	—	0.2	—	—	—	3.3	1.3	1.5	—	—	6.3
Australasia	2.4	—	—	—	—	—	—	—	1.5	4.7	13.6	—	—	22.2
China	2.2	—	—	0.2	0.1	—	0.2	0.4	—	6.1	8.0	0.1	—	17.3
Japan	0.6	—	—	—	0.1	—	—	0.4	0.6	—	2.2	—	—	3.9
Other Asia Pacific	8.9	0.1	—	0.1	1.3	—	—	15.0	22.6	37.5	9.9	0.8	—	96.2
Unidentified*	5.1	2.2	—	—	24.8	—	—	2.3	0.4	0.3	0.7	—	—	35.8
TOTAL IMPORTS	**549.6**	**53.1**	**17.5**	**55.1**	**498.7**	**62.8**	**50.8**	**28.9**	**88.3**	**264.1**	**408.3**	**14.7**	**20.0**	**2111.9**

*Includes changes in the quantity of oil in transit, movements not otherwise shown, unidentified military use, etc.
@Includes South Asia
Source: B.P. Amoco Statistical Review of World Energy, June 2001

XIV.30 WORLD PRIMARY ENERGY CONSUMPTION BY FUEL*—2000

(Million Tonnes oil equivalent)

Country/Region	Oil	N.Gas	Coal	Nuclear	Hydro	Total
1	2	3	4	5	6	7
USA	897.4	588.9	564.1	204.7	23.4	2278.5
Canada	82.9	70.1	29.3	18.7	30.8	231.8
Mexico	84.3	32.0	6.1	1.8	3.2	127.4
Total North America	**1064.6**	**691.0**	**599.5**	**225.2**	**57.4**	**2637.7**
Argentina	20.1	29.8	0.7	1.6	2.0	54.2
Brazil	84.4	8.5	12.2	1.4	26.2	132.7
Chile	11.8	5.2	3.5	-	1.6	22.1
Colombia	10.5	5.3	2.2	-	2.6	20.6
Ecuador	6.5	0.1	-	-	0.7	7.2
Peru	7.0	0.4	0.5	-	1.3	9.2
Venezuela	22.6	24.5	0.3	-	5.5	52.9
Other S. & Cent. America	55.8	9.7	0.5	-	6.8	72.8
Total S & Cent. America	**218.7**	**83.5**	**19.9**	**3.0**	**46.7**	**371.8**
Austria	11.5	7.1	3.0	-	3.7	25.4
Belgium & Luxembourg	33.1	13.4	7.3	12.7	0.2	66.7
Bulgaria	5.0	2.8	6.5	4.9	0.3	19.5
Czech Republic	7.9	7.7	19.3	3.5	0.2	38.6
Denmark	10.4	4.4	4.0	-	†	18.8
Finland	10.5	3.4	3.5	6.2	1.3	24.9
France	95.1	35.6	14.0	107.3	6.2	258.2
Germany	129.5	71.3	82.7	43.8	2.1	329.4
Greece	19.1	1.5	8.9	-	0.3	29.8
Hungary	6.9	9.6	3.2	3.7	†	23.4
Iceland	0.9	-	0.1	-	0.5	1.6
Republic of Ireland	8.3	3.4	1.7	-	0.1	13.5
Italy	93.0	57.4	11.7	-	3.8	166.0
Netherlands	41.8	34.5	7.9	1.0	†	85.1
Norway	9.4	3.5	0.7	-	12.2	25.8
Poland	20.6	10.0	57.1	-	0.4	88.0
Portugal	15.3	5.4	3.6	-	1.1	25.5
Romania	8.9	14.6	8.4	1.4	1.3	34.6
Slovakia	2.8	5.1	4.7	4.3	0.4	17.3
Spain	70.1	15.2	21.6	16.0	3.1	126.0
Sweden	15.2	0.8	2.0	14.8	6.8	39.6
Switzerland	12.2	2.4	0.1	6.8	3.3	24.8
Turkey	31.5	12.7	27.2	-	2.7	74.1
United Kingdom	77.6	86.1	37.7	24.0	0.7	226.1
Other Europe	16.0	5.0	10.5	1.2	2.7	35.4
Total Europe	**752.6**	**412.9**	**347.4**	**251.6**	**53.4**	**1817.9**
Azerbaijan	7.4	4.9	-	-	0.1	12.4
Belarus	5.4	14.6	0.1	-	†	20.1
Kazakhstan	6.2	7.2	23.2	-	0.6	37.2
Russian Federation	123.5	339.5	110.4	33.7	14.2	621.3
Turkmenistan	4.8	11.3	-	-	-	16.1
Ukraine	10.4	61.6	38.8	19.9	0.9	131.6
Uzbekistan	6.8	44.8	1.6	-	0.6	53.8
Other Former Soviet Union	5.7	7.1	0.8	0.5	3.1	17.2
Total Former Soviet Union	**173.1**	**493.4**	**175.0**	**56.3**	**19.6**	**917.4**

contd.....

XIV.30 (CONCLUDED) WORLD PRIMARY ENERGY CONSUMPTION BY FUEL*—2000

(Million Tonnes oil equivalent)

Country/Region	Oil	N.Gas	Coal	Nuclear	Hydro	Total
1	2	3	4	5	6	7
Iran	56.9	56.6	1.1	-	0.4	115.0
Kuwait	8.0	8.6	-	-	-	16.7
Qater	1.1	13.0	-	-	-	14.2
Saudi Arabia	62.4	42.3	-	-	-	104.7
United Arab Emirates	14.3	30.0	-	-	-	44.3
Other Middle East	66.3	19.5	6.2	-	0.3	92.3
Total Middle East	**209.0**	**170.0**	**7.3**	**-**	**0.7**	**387.2**
Algeria	8.5	21.9	0.3	-	†	30.7
Egypt	26.2	16.1	0.9	-	1.1	44.3
South Africa	22.5	-	81.9	3.5	0.3	108.3
Other Africa	59.5	14.9	6.6	-	5.1	86.1
Total Africa	**116.7**	**52.9**	**89.7**	**3.5**	**6.5**	**269.3**
Australia	38.7	19.1	46.7	-	1.4	106.0
Bangladesh	3.3	9.3	0.2	-	0.1	12.8
China	226.9	22.3	480.1	4.3	19.0	752.7
China Hong Kong SAR	9.6	2.2	3.7	-	-	15.5
India	97.6	22.5	163.4	4.1	6.6	294.2
Indonesia	51.1	25.0	11.5	-	0.8	88.4
Japan	253.5	68.6	98.9	82.5	7.9	511.4
Malaysia	20.5	19.5	1.3	-	0.4	41.7
New Zealand	6.3	4.9	1.2	-	2.1	14.4
Pakistan	19.6	17.1	2.1	0.1	1.6	40.5
Philippines	16.8	†	4.3	-	0.7	21.7
Singapore	29.1	1.4	-	-	-	30.4
South Korea	101.8	18.9	42.9	28.1	0.5	192.2
Taiwan	39.8	6.2	28.9	9.9	0.8	85.6
Thailand	34.1	18.8	8.4	-	0.5	61.8
Other Asia Pacific	**20.2**	**4.5**	**53.6**	**-**	**3.7**	**82.0**
Total Asia Pacific	**968.9**	**260.3**	**947.2**	**129.0**	**46.1**	**2351.5**
Total World	3503.6	2164.0	2186.0	668.6	230.4	8752.6
of which OECD	2184.8	1187.9	1106.5	575.6	118.0	5172.8
European Union 15	630.5	339.5	209.6	225.8	29.4	1434.8
Other EMEs ‡	1112.7	455.2	874.4	24.9	88.1	2555.3

XIV. 31 PER CAPITAL PRIMAY ENERGY CONSUMPTION DURING 2000
SOME INTERNATIONAL COMPARISON

(Kg. Oil Equivalent)

Country/Areas	Oil	N. Gas	Coal	Nuclear	Hydro-elct.	Total
1	2	3	4	5	6	7
USA	3224	2116	2027	735	84	8186
Canada	2662	2251	941	600	989	7443
Mexico	853	324	62	18	32	1289
Total North America	**2604**	**1690**	**1467**	**551**	**140**	**6452**
Austria	1401	865	365	-	451	3082
Belgium & Luxembourg	3258	1319	718	1250	20	6565
Bulgaria	608	340	790	596	36	2370
Czech republic	771	752	1884	342	19	3768
Denmark	1965	831	756	-	-	3552
Finland	2029	657	676	1198	251	4811
France	1610	603	237	1816	105	4371
Germany	1575	867	1006	533	25	4006
Greece	1794	141	836	-	28	2799
Hungary	687	957	319	369	-	2332
Iceland	3203	-	356	-	1779	5338
Republic of Ireland	2225	912	456	-	27	3620
Itlay	1623	1002	204	-	66	2895
Netherlands	2648	2185	500	63	—	5396
Norway	2105	784	157	-	2732	5778
Poland	531	258	1473	-	10	2272
Portugal	1549	547	364	-	111	2571
Romania	397	654	376	63	58	1548
Slovakia	520	947	872	798	74	3211
Sain	1769	383	545	404	78	3179
Sweden	1706	90	224	1661	763	4444
Switzerland	1652	325	14	921	447	3359
Turkey	473	191	408	-	41	1113
United Kingdom	1319	1464	641	408	12	3844
Others	65	20	43	5	11	144
Total Europe	**1032**	**566**	**477**	**345**	**73**	**2493**
Russian Federation	841	2312	751	229	97	4230
Total Former Soviet Union	**630**	**1796**	**637**	**205**	**71**	**3339**
Algeria	270	696	9	-	-	975
Egypt	383	235	13	-	16	647
South Aftica	480	-	1747	75	6	2308
Other Africa	907	23	10	-	8	948
Total Africa	**92**	**23**	**10**	**-**	**8**	**133**
Australia	2049	1011	2473	-	74	5607
Bagladesh	25	72	1	-	1	99
China	153	2	323	3	13	494
India*	96	22	161	4	7	290
Indonesia	241	118	54	-	4	417
Japan	2000	541	780	651	62	4034
Malaysia	922	877	58	-	18	1875
New Zealand	1631	1269	311	-	544	3755
Pakisthan	125	109	13	-	10	257
Philippines	221	-	57	-	9	287
Singapore	8158	392	-	-	-	8550
South Korea	2173	403	916	600	11	4103
Thailand	555	306	137	-	8	1006
Other Asia Pasific	73	16	194	-	13	296
Total Asia Pacific	**283**	**76**	**276**	**38**	**13**	**686**
Total World	**579**	**357**	**361**	**110**	**38**	**1445**
of which OECD	1667	906	844	439	90	3946
European Union 15	1680	905	558	602	78	3823
Other EMEs†	239	98	187	5	19	548

Source: BP Statistical Review of World Energy, June 2001

* Estimated on the basis of financial year data.

†=Excludes Central Europe and Former Soviet Union.

XIV. 32 PER CAPITA CONSUMPTION OF MAIN PETROLEUM PRODUCTS SOME INTERNATIONAL COMPARISONS DURING-2000

Kg./per capital

Country/Area	Gasoline	Middle Distillates	Fuel Oil	Others	Total
USA	1367	1021	176	660	3224
Europe	249	446	149	189	1033
Middle East	245	484	550	196	1475
China	44	64	31	40	179
Japan	566	746	343	345	2000
OECD	558	601	193	315	1667

Source: (1) BP Amoco Statistical Review of World Energy, June 2001
(2) United Nations population divisions publication 'World population prospects, 2000'.

XIV. 33 TRENDS IN WORLD PRIMARY ENERGY CONSUMPTION (1980 TO 2000)

(Million Tonnes Oil Equivalent)

Year	Oil	Natural Gas	Coal	Hydro Electricity	Nuclear Energy	Total
1	2	3	4	5	6	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	3037.5	1662.1	2241.5	183.7	488.4	7613.2
1989	3087.5	1737.4	2272.2	183.3	502.3	7782.7
1990	3134.5	1770.5	2244.5	189.4	516.7	7855.6
1991	3133.6	1802.8	2189.7	194.6	541.4	7862.1
1992	3163.2	1805.3	2171.8	193.9	545.6	7879.8
1993	3134.6	1844.6	2162.4	204.4	564.4	7910.4
1994	3193.8	1853.4	2174.1	206.1	574.6	8002.0
1995	3234.7	1911.7	2206.7	216.2	599.9	8169.2
1996	3313.6	2004.7	2284.5	219.1	520.9	8342.8
1997	3386.3	1990.3	2265.8	223.4	616.5	8482.3
1998	3406.6	2015.4	2243.2	224.8	626.9	8516.9
1999	3469.1	2065.1	2159.9	226.6	651.5	8572.2
2000(P)	3503.6	2164.0	2186.0	230.4	668.6	8752.4

Source: B.P. Amoco Statistical Review of World Energy June 2001

(P)-Provisional

XIV. 34 PRIMARY ENERGY CONSUMPTION IN SELECTED COUNTRIES/AREAS OF THE WORLD 1995-2000

(Million Tonnes oil equivalent)

Country/Region	1995	1996	1997	1998	1999	2000	% change 2000/1999	% share of total 2000
USA	2079.6	2144.8	2156.5	2169.5	2222.0	2278.6	2.5	26.0
Canada	219.4	225.6	227.7	221.9	224.6	231.8	3.2	2.6
Mexico	107.5	112.2	116.6	123.8	122.8	127.4	3.7	1.5
Total North America	**2406.5**	**2482.6**	**2500.8**	**2515.2**	**2569.4**	**2637.8**	**2.7**	**30.1**
Argentina	49.7	52.1	53.1	55.6	55.6	54.1	-2.7	0.6
Brazil	106.7	113.8	121.5	126.0	127.5	132.7	4.1	1.5
Chile	15.1	16.8	19.7	20.2	20.7	22.1	6.8	0.3
Colombia	21.9	22.7	23.5	23.0	20.3	20.6	1.5	0.2
Ecuador	5.6	6.4	7.2	7.3	6.7	7.2	7.5	0.1
Peru	9.3	9.5	9.4	9.6	9.5	9.2	-3.2	0.1
Venezuela	49.4	50.6	53.3	56.1	51.5	52.9	2.7	0.6
Other S. & Cent. America	64.1	66.7	68.5	70.1	71.6	72.8	1.7	0.8
Total S. & Cent. America	**321.8**	**338.6**	**356.2**	**367.9**	**363.4**	**371.6**	**2.3**	**4.2**
Austria	23.1	24.1	25.1	25.6	26.1	25.4	-2.7	0.3
Belgium & Luxembourg	57.7	60.2	61.5	64.1	65.4	66.7	2.0	0.8
Bulgaria	22.5	23.5	21.3	20.0	18.6	19.5	4.8	0.2
Czech Republic	38.8	40.8	40.0	39.6	36.7	38.6	5.2	0.4
Denmark	20.2	24.1	21.7	20.6	19.9	18.8	-5.5	0.2
Finland	21.9	23.4	24.1	24.2	24.6	24.9	1.2	0.3
France	237.0	247.4	244.1	249.2	253.0	258.2	2.1	3.0
Germany	334.6	346.0	340.3	336.6	330.6	329.4	-0.4	3.8
Greece	26.2	26.4	26.6	28.1	29.1	29.8	2.4	0.3
Hungary	24.0	24.7	24.1	24.9	24.1	23.4	-2.9	0.3
Iceland	1.2	1.3	1.4	1.4	1.5	1.6	6.7	0.0
Republic of Ireland	10.1	10.7	11.5	12.2	13.1	13.5	3.1	0.2
Italy	156.5	155.8	157.4	161.9	165.9	166.0	0.1	1.9
Netherlands	82.8	85.3	84.8	84.6	82.7	85.1	2.9	1.0
Norway	23.5	22.5	23.8	24.1	24.4	25.8	5.7	0.3
Poland	95.9	100.2	98.1	93.5	90.5	88.0	-2.8	1.0
Portugal	17.8	17.3	18.5	20.5	22.2	25.5	14.9	0.3
Romania	46.2	46.0	42.9	38.8	34.5	34.5	0.0	0.4
Slovakia	16.9	17.2	16.9	16.9	17.4	17.2	-1.1	0.2
Spain	98.8	100.8	108.2	114.5	120.2	125.9	4.7	1.4
Sweden	42.8	43.9	42.9	43.4	43.9	39.6	-9.8	0.5
Switzerland	23.7	23.8	24.8	25.1	25.1	24.8	-1.2	0.3
Turkey	61.5	67.6	70.8	73.2	71.0	74.1	4.4	0.8
United Kingdom	216.3	227.5	222.0	225.3	223.4	226.1	1.2	2.6
Other Europe	32.9	35.9	37.3	39.0	35.0	35.4	1.1	0.4
Total Europe	**1732.9**	**1796.4**	**1790.1**	**1806.3**	**1796.9**	**1817.8**	**1.1**	**20.8**
Azerbaijan	15.9	12.4	11.2	10.7	11.5	12.4	7.8	0.1
Belarus	23.6	21.4	23.5	23.8	20.0	20.1	0.5	0.2
Kazakhstan	50.0	44.8	39.8	38.6	33.6	37.2	10.7	0.4
Russian Federation	646.4	629.1	595.6	595.2	606.8	621.3	2.4	7.1
Turkmenistan	11.1	12.0	12.1	13.5	14.7	16.1	9.5	0.2
Ukraine	148.6	142.9	140.0	133.8	135.0	131.7	-2.4	1.5
Uzbekistan	46.7	48.1	50.0	51.7	53.8	53.8	0.0	0.6
Other Former Soviet Union	27.2	25.3	26.6	27.6	16.4	17.2	4.9	0.2
Total Former Soviet Union	**969.5**	**936.0**	**898.8**	**894.9**	**898.8**	**917.5**	**2.0**	**10.5**
Iran	93.2	100.2	104.7	106.2	109.3	115.0	5.2	1.3
Kuwait	14.2	15.7	16.4	16.3	16.4	16.7	1.8	0.2
Saudi Arabia	85.7	93.6	96.1	101.0	102.5	104.7	2.1	1.2
United Arab Emirates	40.3	42.4	44.1	45.2	41.3	44.3	7.3	0.5
Other Middle East	87.5	91.6	97.0	99.8	90.1	92.3	2.4	1.1
Total Middle East	**320.9**	**343.5**	**358.3**	**368.5**	**375.0**	**387.2**	**3.3**	**4.4**
Algeria	28.1	28.1	26.4	28.0	28.4	30.7	8.1	0.4
Egypt	34.8	36.6	38.1	40.0	42.7	44.3	3.7	0.5
Sourth Africa	100.7	105.9	108.9	108.6	107.7	108.3	0.6	1.2
Other Africa	75.1	77.2	78.6	79.9	83.9	86.1	2.6	1.0
Total Africa	**238.7**	**247.8**	**252.0**	**256.5**	**262.7**	**269.4**	**2.6**	**3.1**
Australia	95.3	99.1	101.4	102.6	102.8	106.0	3.1	1.2
Bangladesh	9.3	9.6	9.6	9.8	10.8	12.8	18.5	0.1
China	831.6	887.0	872.1	842.6	759.7	752.7	-0.9	8.6
China Hong Kong SAR	15.1	15.0	15.1	15.4	15.6	15.5	-0.6	0.2
India	237.1	254.7	263.7	271.3	281.5	294.2	4.5	3.4
Indonesia	72.2	79.2	84.1	77.1	82.9	88.4	6.6	1.0
Japan	491.6	501.9	505.7	499.3	505.9	511.3	1.1	5.8
Malaysia	32.3	35.3	37.1	38.1	39.0	41.7	6.9	0.5
New Zealand	13.1	13.5	13.9	13.4	14.1	14.4	2.1	0.2
Pakistan	33.4	35.0	35.1	36.4	37.7	40.4	7.2	0.5
Philippines	18.8	20.2	21.7	22.2	21.6	21.7	0.5	0.2
Singapore	29.3	28.9	30.4	30.6	29.6	30.4	2.7	0.3
Sourth Korea	149.9	165.4	180.2	166.5	181.9	192.3	5.7	2.2
Taiwan	65.5	68.8	72.7	77.1	81.1	85.5	5.4	1.0
Thailand	51.4	57.4	60.2	57.4	59.2	61.8	5.4	0.7
Other Asia Pacific	42.1	43.2	45.1	47.7	79.6	82.0	3.0	0.9
Total Asia Pacific	**2188.0**	**2314.2**	**2348.1**	**2307.5**	**2303.0**	**2351.1**	**2.1**	**26.9**
TOTAL WORLD	**8178.3**	**8459.1**	**8504.3**	**8516.8**	**8572.2**	**8752.4**	**2.1**	**100.0**
Of which OECD	4770.8	4936.3	4973.7	4988.6	5067.5	5173.0	2.1	59.1
European Union 15	1345.8	1392.9	1388.7	1410.8	1420.1	1434.9	1.0	16.4
Other EMEs‡	2319.5	2464.2	2513.4	2518.6	2499.4	2555.3	2.2	29.2

‡Excludes Central Europe and Former Soviet Union.

Source: BP Amco statistical review of world energy, 2001.

XIV. 35 ECONOMIC INDICATORS OF OPEC NATIONS DURING 2000

Country	Mid year population 2000 (million)	GDP* 2000 (Bn. $)	Per capita GDP 2000 (US$)	Petroleum* exports 2000 (Bn. $)	Total* exports FOB (Bn. $)	Petroleum exports as % of total exports	Oil reserves* Dec. 2000 (Bn. bbls)	Gas reserves* Dec. 2000 (Bn. CM)	Producing oil wells Dec. 2000	Refining capacity Dec. 2000 (000/bbls/day)	Exports of refined products (000/bbls/day)
1	2	3	4	5	6	7	8	9	10	11	12
Algeria	30.61	53.44	1746	12.92	20.01	64.6	11.31	4523	1235	487.0	544.3
Indonesia	212.60	154.88	729	10.93	62.30	17.5	5.12	3790	9341	1057.0	188.8*
I.R. Iran	63.61	130.54	2052	25.44	29.49	86.3	99.53	26600	1287	1474.0	268.0*
Iraq	23.10	29.70	1286	18.15	20.60	88.1	112.50	3285	na	603.0	23.0*
Kuwait	2.19	37.78	17260	19.20	22.69	84.6	96.50	1480	785	899.0	674.5
Libya	5.65	35.74	6325	13.26	13.42	98.8	36.00	1325	1436	380.0	237.0*
Nigeria	127.06	40.58	319	20.04	20.64	97.1	34.46	3610	2109	445.0	17.3
Qatar	0.60	14.47	24122	7.83	11.53	67.9	13.16	14443	415	63.0	75.3
Saudi Arabia	20.50	171.38	8360	74.59	80.46	92.7	262.77	6301	1550	1825.0	1228.1
U.A.E.	3.03	70.56	23288	26.15	46.64	56.1	97.80	6060	1505	420.0	391.7
Venezuela	24.20	120.51	4980	25.60	31.80	80.5	76.85	4152	15506	1183.2	784.7
Total	**513.15**	**859.58**	**1675**	**254.11**	**359.58**	**70.7**	**846.00**	**75569**	**35169**	**8836.2**	**3715.9**

Note: Total includes figures for Saudi Arabian-Kuwait Divided Zone *= Provisional or estimated figures of July 11, 2000 na = Not available
Source: OPEC Annual Statistical Bulletin, 2000

XIV. 36 WORLD IMPORTS OF NATURAL GAS BY COUNTRY 1996—2000

(Million Standard Cubic Metres)

Country/Area	1996	1997	1998	1999	2000	%change 00/99
North America	**84,584**	**86,051**	**91,375**	**102.090**	**110,365**	**8.1**
Canada	1,290	1,270	1,270	1,200	2,120	76.7
United States	83,294	84,781	90,105	100,890	108,245	7.3
Latin America	**2,970**	**3,750**	**4,970**	**6,690**	**9,570**	**43.0**
Argentina	2,040	1,830	2,200	1,200	—	—
Brazil	—	—	—	370	2,150	481.1
Chile	—	670	1,240	3,390	4,070	20.1
Maxico	930	1,250	1,530	1,730	3,000	73.4
Puerto Rico	—	—	—	—	350	—
Eastern Europe	**45,000**	**41,300**	**39,760**	**39,350**	**40,600**	**3.2**
Bulgaria	6,040	5,100	3,600	3,350	3,200	-4.5
Former Czechoslovakia	16,640	16,000	16,260	16,600	17,300	4.2
Former U.S.S.R.	100	—	—	—	—	• —
Hungry	7,940	8,000	8,500	8,700	9,200	5.7
Poland	7,140	7,700	7,600	7,500	7,500	—
Romania	7,140	4,500	3,800	3,200	3,400	6.3
Western Europe	**210,070**	**213,390**	**219,910**	**242,380**	**265,260**	**9.4**
Austria	6,790	6,030	6,200	6,120	6,120	—
Belgium	15,600	14,300	15,500	16,120	16,300	1.1
Denmark	—	—	—	—	—	—
Finland	4,040	3,700	4,200	4,200	4,300	2.4
France	36,020	35,150	36,800	41,120	42,620	3.6
Germany	77,807	75,380	73,800	75,230	76,200	1.3
Greece	—	160	900	1,500	2,140	42.7
Ireland	130	830	1,500	2,100	2,600	23.8
Italy	37,290	39,150	42,600	49,410	58,500	18.4
Luxembourg	730	710	760	700	700	—
Netherlands	4,630	5,890	5,300	7,340	12,600	-7.0
Portugal	-	500	800	2,150	2000	9.6
Spain	9,000	12,470	12,600	15,450	16,930	9.6
Sweden	860	860	860	840	840	-
Switzerland	2,770	2,620	2,700	3,040	3,050	0.3
Turkey	8,160	9,750	10,380	12,300	14,550	18.3
United Kingdom	1,710	1,320	900	1,370	2,200	60.6
Former Yugoslavia	4,480	4,570	4,110	3,390	3,610	6.5
Middle East	**-**	**100**	**1,750**	**2,000**	**2,650**	**32.5**
IR Iran	-	100	1,750	2,000	2,650	32.5
Kuwait	-	-	-	-	-	
Africa	**1,100**	**910**	**450**	**800**	**518**	**-35.3**
Tunisia	1,100	910	450	800	518	-35.3
Asia and Pacific	**80,140**	**85,320**	**87,410**	**93,790**	**100,440**	**7.1**
Hong Kong	220	-	-	-	-	
Japan	61,940	63,750	66,300	69,360	72,460	4,5
South Korea	12,950	15,710	14,310	17,520	19,680	12.3
Malaysia	-	-	-	-	-	
Singapore	1,500	1,500	1,500	1,500	1,500	-
Taiwan	3,530	4,360	5,300	5,320	5,900	10.9
Thailand	-	-	-	90	900	900.0
Total world	**423,864**	**430,821**	**445,625**	**487,100**	**529,403**	**8.7**
OPEC	-	100	1,750	2,000	2,650	32.5
OPEC percentage	-	-	0.4	0.4	0.5	

Source: OPEC Annual Statistical Bulletin, 2000.

XIV. 37 WORLD IMPORTS OF REFINED PRODUCTS BY COUNTRY 1996-2000

(Thousand Barrels per Day)

Country/Area.	1996	1997	1998	1999	2000	% change 00/99
North America	**1,355.5**	**1,387.7**	**1,495.8**	**1,600.0**	**1,599.4**	—
Canada	143.5	174.9	181.9	170.7	160.4	-6.0
United States	1,207.9	1,208.7	1,309.7	1,425.0	1,434.7	0.7
Others	4.1	4.1	4.2	4.3	4.3	—
Latin America	**1,247.4**	**1,430.1**	**1,480.4**	**1,490.2**	**1,582.6**	**6.2**
Brazil	285.8	304.2	301.6	304.7	308.3	1.2
Cuba	117.7	131.9	132.3	135.0	137.0	1.5
Mexico	176.6	296.5	328.2	358.7	442.3	23.3
Netherlands Antilles	33.4	33.3	33.3	33.5	33.5	—
Panama	11.0	20.5	23.8	21.0	20.0	-4.8
Puetro Rico	94.6	96.7	98.7	99.0	99.0	—
Others	528.4	546.8	562.5	538.4	542.4	0.8
Eastern Europe	**309.5**	**339.2**	**358.6**	**268.4**	**199.3**	**-25.8**
Bulgaria	9.3	8.8	6.0	6.0	12.0	100.0
Fomer USSR	95.0	97.7	105.0	40.0	10.0	-75.0
Hungary	38.6	32.0	30.2	26.7	21.0	-21.4
Poland	66.9	83.7	97.9	91.7	62.4	-32.0
Others	99.8	117.0	119.6	103.9	93.8	-9.7
Western Europe	**4,548.1**	**4,534.4**	**4,620.6**	**4,815.7**	**5,132.3**	**6.6**
Belgium	287.3	274.5	285.9	289.5	300.1	3.7
France	426.3	327.6	368.7	571.7	552.3	-3.4
Germany	983.9	1,057.3	955.8	872.9	908.0	4.0
Italy	503.8	430.4	412.5	365.7	357.5	-2.2
Netherlands	691.1	793.3	768.3	809.9	954.5	17.9
United Kingdom	178.7	177.8	242.7	255.6	291.1	13.9
Others	1,477.0	1,473.6	1,586.7	1,650.5	1,768.7	7.2
Middle East	**332.3**	**345.5**	**353.1**	**348.0**	**338.2**	**-2.8**
Syrian Arab Republic	12.0	19.2	23.0	20.0	20.2	1.0
Others	320.3	326.3	330.1	328.0	318.0	-3.0
Africa	**445.7**	**444.3**	**469.3**	**480.6**	**540.5**	**12.5**
Egypt	25.4	35.6	47.7	49.3	50.7	2.8
Morocco	32.0	32.7	25.7	27.0	28.5	5.6
Nigeria	48.8	37.0	44.5	52.6	106.3	102.2
Senegal	9.0	8.6	9.4	9.5	9.6	1.1
Tunisia	47.9	53.8	52.6	53.1	54.0	1.7
Others	282.6	276.7	289.4	289.1	291.4	0.8
Asia and Pacific	**5,032.4**	**5,206.5**	**4,959.2**	**5,250.4**	**5,242.0**	**-0.2**
Australia	75.2	64.7	64.4	76.6	85.8	12.0
China	430.7	595.8	587.3	631.9	522.4	-17.3
Hong Kong	366.7	403.1	409.1	411.0	413.1	0.5
India	448.8	427.7	437.8	441.2	449.0	1.8
Japan	1,355.5	1,238.7	1,074.6	1,238.1	1,243.0	0.4
New Zealand	26.0	26.9	19.9	31.0	25.6	-17.3
Singapore	575.3	633.9	649.4	643.2	645.7	0.4
Others	1,754.1	1,815.7	1,716.6	1,777.5	1,857.4	4.5
Total world	**13,271.1**	**13,687.7**	**13,736.9**	**14,253.3**	**14,634.2**	**2.7**

Notes: Data includes petroleum products from gas plants. Revisions have been made throughout the time series.
Sources : OPEC Annual Statistical Bulletin-2000.

XIV. 38 WORLD CRUDE OIL EXPORTS BY COUNTRY, 1996-2000

(Thousand Barrels per Day)

Country/Area	1996	1997	1998	1999	2000	% change 00/99
North America	**1,182.3**	**1,124.0**	**1,229.6**	**1,141.5**	**1,196.6**	**4.8**
Canada	1,072.2	1,016.0	1,117.0	1,020.4	1,144.9	12.2
United States	110.3	108.0	112.7	121.1	51.8	-57.2
Latin America	**4,523.6**	**5,034.3**	**5,181.9**	**4,758.4**	**4,898.2**	**2.9**
Colombia	322.1	358.8	462.6	491.9	426.8	-13.2
Ecuador	231.2	270.1	255.6	259.5	251.4	-3.1
Mexico	1,544.2	1,722.4	1,736.3	1,605.9	1,775.7	10.6
Trinidad & Tobago	58.9	57.9	72.1	73.8	71.5	-3.1
Venezuela	1,976.4	2,210.8	2,243.9	1,923.0	2,003.5	4.2
Others	390.8	414.3	411.3	404.3	369.3	-8.7
Eastern Europe	**2,069.0**	**2,177.9**	**2,428.2**	**2,565.0**	**3,058.5**	**19.2**
Former USSR	2,067.0	2,174.0	2,425.1	2,562.8	3,056.3	19.3
Others	2.0	3.9	3.1	2.2	2.2	1.8
Western Europe	**4,531.8**	**4,653.1**	**4,611.1**	**4,758.2**	**4,938.5**	**3.8**
Norway	2,849.5	2,879.5	2,758.0	2,739.9	2,910.2	6.2
United Kingdom	1,516.6	1,540.9	1,648.1	1,751.0	1,780.1	1.7
Others	165.7	232.7	205.0	267.2	248.1	-7.1
Middle East	**13,957.6**	**14,694.4**	**15,744.6**	**15,207.1**	**16,058.6**	**5.6**
Iran	2,630.0	2,587.0	2,512.0	2,291.0	2,492.2	8.8
Iraq	88.1	746.6	1,417.6	2,130.9	1,995.9	-6.3
Kuwait	1,224.2	1,134.2	1,190.2	948.2	1,244.7	31.3
Oman	832.6	857.1	847.2	842.3	845.0	0.3
Qatar	367.0	465.0	572.4	580.5	617.6	6.4
Saudi Arabia	6,109.3	6,184.5	6,390.4	5,719.7	6,253.1	9.3
Syrian Arab Republic	352.5	352.7	352.0	339.1	330.0	-2.7
United Arab Emirates	1,943.2	1,949.0	2,039.0	1,919.0	1,814.9	-5.4
Others	410.6	418.4	423.7	436.5	465.3	6.6
Africa	**4,837.9**	**4,966.7**	**5,139.7**	**4,745.4**	**5,007.8**	**5.5**
Algeria	390.8	373.1	549.4	414.6	461.1	11.2
Angola	625.2	660.7	694.3	733.2	701.3	-4.4
Cameroon	104.3	110.2	123.5	123.5	124.3	0.7
Congo	175.0	236.6	242.4	256.4	250.0	-2.5
Egypt	133.8	124.0	56.4	53.9	49.6	-8.0
Gabon	347.7	354.1	338.8	320.1	308.2	-3.7
SP Libyan AJ	1,123.4	1,115.7	1,161.0	991.7	1,005.0	1.3
Nigeria	1,812.9	1,855.5	1,832.8	1,705.1	1,986.4	16.5
Others	124.8	136.6	141.1	147.0	122.0	-17.0
Asia and Pacific	**2,227.8**	**2,284.2**	**2,222.6**	**2,175.1**	**2,185.7**	**0.5**
Australia	174.7	221.1	231.9	219.8	394.2	79.4
Brunei	155.5	147.4	146.9	162.6	171.9	5.7
China	409.2	400.4	312.9	143.7	209.3	45.6
Indonesia	706.7	709.7	678.0	781.9	622.5	-20.4
Malaysia	394.7	362.0	389.5	354.8	340.8	-3.9
Vietnam	174.1	220.3	250.4	258.9	252.3	-2.5
Others	213.0	223.4	212.9	253.3	194.5	-23.2
Total world	**33,329.9**	**34,934.7**	**36,557.7**	**35,350.6**	**37,344.0**	**5.6**
OPEC	18,372.0	19,331.1	20,586.9	19,405.5	20,496.8	5.6
OPEC percentage	55.1	55.3	56.3	54.9	54.9	

Notes: Data includes re-exports. Revisions have been made throughout the time series.
Sources: OPEC Annual Statistical Bulletin-2000.

XIV. 39 WORLD EXPORTS OF REFINED PRODUCTS BY COUNTRY, 1996-2000

(Thousand Barrels per Day)

Country/Area	1996	1997	1998	1999	2000	% change 00/99
North America	**1,234.9**	**1,285.8**	**1,212.6**	**1,209.7**	**1,358.1**	**12.3**
Canada	403.2	425.7	398.2	412.5	417.9	1.3
United States	831.6	859.9	814.4	797.2	940.2	17.9
Others	0.1	0.1	—	—	—	—
Latin America	**1,851.3**	**1,999.4**	**2,088.8**	**2,071.0**	**2,030.2**	**-2.0**
Argentina	86.4	101.9	110.5	101.2	102.4	1.2
Ecuador	36.2	40.3	34.6	35.0	35.0	—
Mexico	87.2	87.5	102.4	96.6	85.4	-11.6
Netherlands Antilles	219.3	219.6	226.0	230.0	232.8	1.2
Trinidad & Tobago	87.8	89.6	94.4	94.0	96.0	2.1
Venezuela	742.1	841.5	846.2	828.0	784.7	-5.2
Virgin Islands	361.2	375.5	385.0	382.1	385.9	1.0
Others	231.2	243.6	289.6	304.1	308.0	1.3
Eastern Europe	**1,187.4**	**1,219.2**	**1,097.5**	**1,121.7**	**1,329.5**	**18.5**
Romania	80.3	62.1	60.0	39.1	50.4	28.8
Former USSR	955.0	993.0	872.0	913.1	1,086.3	19.0
Others	152.0	164.1	165.5	169.4	192.8	13.8
Western Europe	**4,153.8**	**4,212.0**	**4,230.9**	**4,220.5**	**4,403.9**	**4.3**
Belgium	369.9	367.3	384.1	397.0	411.0	3.5
France	373.8	360.3	324.5	358.0	387.5	8.2
Germany	290.0	260.2	301.6	347.6	388.5	11.8
Italy	375.2	417.7	454.5	405.1	425.6	5.1
Netherlands	1,244.1	1,301.5	1,300.9	1,294.8	1,367.6	5.6
United Kingdom	504.8	568.4	516.7	478.5	444.4	-7.1
Others	996.0	936.6	948.7	939.6	979.2	4.2
Middle East	**3,196.6**	**3,335.6**	**3,263.5**	**3,224.9**	**3.073.5**	**-4.7**
Bahrain	259.6	248.2	247.3	248.0	250.0	0.8
IR Iran	172.5	225.9	277.8	272.3	268.0	-1.6
Iraq	23.6	18.9	23.0	23.0	23.0	—
Kuwait	751.5	848.0	795.0	838.6	674.5	-19.6
Qatar	107.0	125.0	95.1	75.3	75.3	—
Saudi Arabia	1,492.0	1,392.9	1,368.9	1,279.7	1,228.1	-4.0
United Arab Emirates	271.9	323.1	319.1	331.0	391.7	18.4
Others	118.5	153.6	157.3	157.1	162.8	3.6
Africa	**876.1**	**957.3**	**965.5**	**1,149.5**	**1,147.2**	**-0.2**
Algeria	406.1	462.3	461.9	599.7	544.3	-9.2
Egypt	109.9	109.5	103.2	106.0	110.0	3.8
Gabon	5.0	5.2	5.0	5.0	5.0	—
Nigeria	22.6	25.3	3.0	10.0	17.3	73.0
SP Libyan AJ	129.7	153.4	168.6	201.2	237.0	17.8
Others	202.8	201.6	223.7	227.6	233.7	2.7
Asia and Pacific	**2,625.7**	**2,949.8**	**2,898.3**	**2,938.9**	**3,001.2**	**2.1**
Australia	117.7	134.2	121.1	122.3	122.1	-0.1
China	114.9	198.4	188.6	264.8	292.0	10.3
Indonesia	297.1	257.3	220.8	191.9	188.8	-1.6
Japan	158.9	172.0	131.7	106.9	87.9	-17.8
Malaysia	140.8	151.3	139.9	142.0	145.0	2.1
Singapore	990.2	964.2	941.6	945.0	957.9	1.4
Others	806.0	1,072.4	1,154.7	1,165.9	1,207.6	3.6
Total world	**15,125.7**	**15,959.1**	**15,777.0**	**15,936.2**	**16,343.5**	**2.6**
OPEC	4,416.1	4,673.6	4,579.4	4,650.6	4,432.6	-4.7
OPEC percentage	29.2	29.3	29.0	29.2	27.1	—

Notes: Data includes re-exports and exports of petroleum products from gas plants. Revisions have been made throughout the time series.

Sources: OPEC Annual Statistical Bulletin-2000.

PART-III
PLAN STATISTICS

XV.1 ACTUAL EXPENDITURE/OUTLAY AND R.E. FOR 2001-02 AND B.E. FOR 2002-03 OF PUBLIC SECTOR UNDERTAKINGS UNDER THE PURVIEW OF MINISTRY OF PETROLEUM & NATURAL GAS

(Rs. Crore)

Undertaking	Eighth Plan Actual Expenditure	Ninth Plan Outlay	Actual Expenditure				2001-02 (R.E.)	2002-03 (B.E.)
			1997-98	1998-99	1999-00	2000-01		
A. EXPLORATIONS & PRODUCTION	**29682**	**29578**	**5371**	**5259**	**5207**	**5230**	**9534**	**11366**
1. ONGC	26198	20199	4005	4468	4068	3607	8159	8973
2. OIL	1555	2961	355	428	404	556	650	1493
3. GAIL	1929	6418	1011	363	735	1067	725	900
B. REFINING & MARKING	**10381**	**47718**	**4312**	**5954**	**4746**	**4637**	**4224**	**5817**
1. IOC	6259	25488	1713	2688	2696	2792	2616	3000
2. BPCL	535	6540	503	575	263	1083	300	650
3. HPCL	1357	7448	1085	1101	705	312	617	900
4. CPCL	436	3464	71	334	117	85	399	1000
5. KRL	484	2230	87	395	347	60	68	75
6. BRPL	236	755	33	15	19	31	35	10
7. Lubrizol India Ltd.$	38	40	Neg.	4	2	0	0	0
8. Engineers India Ltd.	22	35	6	10	9	11	7	0
9. IBP Co. Ltd.	272	0	93	156	186	124	140	144
10. Numaligarh Refinery	742	1718	721	676	402	139	42	38
C. PETROCHEMICALS	**1872**	**NA**	**415**	**381**	**107**	**247**	**229**	**792**
1. BRPL	34	NA	4	23	3	3	13	7
2. BPCL	29	NA	0	0	0	0	Neg.	Neg.
3. KRL	22	NA	Neg.	4	4.	Neg.	0	0
4. CPCL	6	NA	0	0	Neg.	Neg.	Neg.	Neg.
5. HPCL	9	NA	0	0	0	0	0	0
6. GAIL	1729	NA	407	328	50	35	30	63
7. IOC	43	NA	4	26	50	208	186	722
8. ONGC	-	-	0	0	Neg.	1	0	0
D. ENGINEERING	**102**	**1105**	**43**	**42**	**30**	**22**	**13**	**13**
IBP Co. Ltd. & Subsidiaries	102	1105	43	42	30	22	13	13
TOTAL (A+B+C+D)	**42037**	**78401**	**10141**	**11636**	**10090**	**10136**	**14000**	**17988**

Neg. : Negligible.

NA : Breakup Not Available

RE : Revised Estimates

BE : Budget Estimates

$: LIL has Ceased to be a central PSU w.e.f. 01.04.2000

XV. 2. NINTH PLAN PROJECTION PROFILE FOR CRUDE OIL AND NATURAL GAS PRODUCTION

Company/areas	1997-98	1998-99	1999-00	2000-01	2001-02	1997-2002
CRUDE OIL PRODUCTION (Mn. Tonnes)						
A. ONGC						
1. ONSHORE						
WRBC	6.880	7.060	7.260	7.300	7.360	35.860
ERBC	2.458	2.602	2.698	2.837	2.904	13.499
SRBC	0.235	0.192	0.184	0.172	0.165	0.948
TOTAL	9.573	9.854	10.142	10.309	10.429	50.307
2. OFFSHORE						
MRBC	18.160	18.238	18.898	19.422	19.449	94.167
SRBC	—	—	0.140	0.140	0.140	0.420
TOTAL OFFSHORE	**18.160**	**18.238**	**19.038**	**19.562**	**19.589**	**94.587**
TOTAL ONGC	**27.733**	**28.092**	**29.180**	**29.871**	**30.018**	**144.894**
B. OIL						
Assam & Arunachal Pradesh	3.100	3.200	3.390	3.380	3.500	16.470
C. JV/PRIVATE OPERATORS	**3.590**	**4.400**	**4.080**	**3.930**	**3.460**	**19.460**
GRAND TOTAL (A+B+C)	**34.423**	**35.692**	**36.550**	**37.181**	**36.978**	**180.824**
NATURAL GAS PRODUCTION (BASE CASE) (MMSCMD)						
A. ONGC						
1. ONSHORE						
WRBC	10.080	10.330	9.790	9.260	9.050	17.716
ERBC	1.664	1.752	1.897	1.935	1.942	3.356
CRBC	0.903	0.903	0.903	0.903	0.903	1.490
SRBC	2.530	2.564	2.609	2.616	2.616	4.724
TOTAL ONSHORE	**15.177**	**15.549**	**15.199**	**14.714**	**14.511**	**27.286**
2. OFFSHORE						
MRBC	47.577	48.264	50.293	50.579	54.432	91.645
SRBC	—	—	0.100	0.100	0.100	0.100
TOTAL OFFSHORE	**47.577**	**48.264**	**50.293**	**50.579**	**54.532**	**91.755**
TOTAL ONGC	**62.754**	**63.813**	**65.492**	**65.293**	**69.043**	**119.041**
B. OIL	**5.600**	**6.330**	**7.190**	**7.810**	**8.280**	**12.859**
C. JV/PRIVATE OPERATORS	**6.730**	**7.260**	**6.980**	**6.820**	**6.790**	**12.629**
GRAND TOTAL (A+B+C+)	**75.084**	**77.403**	**79.662**	**79.923**	**84.113**	**144.528**

Source: Draft Report—Ninth Five Year Plan.

XV. 3. DEMAND FOR PETROLEUM PRODUCTS

Items	1990-91	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01
1	2	3	4	5	6	7	8	9
Demand for Petroleum Products (MMT)	55.04	67.37	74.67	79.17	84.29	90.56	97.09	99.6
Annual Growth Rate%	1.7	10.8	10.8	6.0	6.5	7.4	7.2	2.6
Share of Middle Distillates (%)	60.2	60.8	60.9	61.5	60.0	57.5	56.3	53.1

Source Plan Document MMT:Million Metric Tonnes.

XV. 4. IMPORT AVAILABILITY RATIOS OF CRUDE OIL & PETROLEUM PRODUCTS

(Million tonnes)

Items	1990-91	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01
1	2	3	4	5	6	7	8	9
A. CRUDE OIL								
(i) Production†	33.02	32.24	35.17	32.90	33.86	32.72	31.95	32.43
(ii) Imports	20.70	27.35	27.34	33.91	34.49	39.81	57.81	74.10
(iii) Availability (Net)	53.72	59.59	62.51	66.81	68.35	72.53	89.76	106.53
(iv) Item (ii) as % of item (iii)	38.53	45.90	43.74	50.76	50.46	54.89	64.41	69.56
B. PETROLEUM PRODUCTS								
(I) Production	49.49	54.35	56.80	60.79	63.10	66.75	81.40	97.696
(ii) Imports	8.66	13.95	20.34	20.26	20.59	23.05	15.86	9.02
(iii) Availability (Gross)	58.15	68.30	77.14	81.05	83.69	89.80	97.26	106.72
(iv) Item (ii) as % of Item (iii)	14.89	20.42	26.37	25.00	24.6	25.7	16.3	8.5

†Includes LPG Production from Natural Gas.

XV. 5. VALUE* OF CRUDE OIL & POL PRODUCTS IMPORTED DURING V, VI,VII,VIII, AND IX FIVE YEAR PLAN PERIODS

Plan Period/ Year	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
VIIIth Plan (1992-97)	102265
1997-98	28915
1998-99	26887
1999-00	53516
2000-01	70353

*Net of POL Imports.

XV.6 Xth PLAN PROJECTION PROFILE FOR CRUDE OIL AND NATURAL GAS PRODUCTION

Company	2002-03	2003-4	2004-05	2005-06	2006-07	TOTAL
			Crude Oil (MMT)			
ONGC	25.90	25.99	26.38	26.19	25.56	130.02
OIL	3.50	3.60	3.75	3.85	4.00	18.70
Joint Venture Private Companies	3.68	3.55	3.53	3.08	2.68	16.52
TOTAL	**33.08**	**33.14**	**33.66**	**33.12**	**33.24**	**165.24**
			Natural Gas (MMSCMD)			
						(BCM)
ONGC	65.50	63.37	62.22	58.83	57.03	112.10
Oil	6.01	6.41	6.61	7.69	7.80	12.61
Joint Venture/Private Companies	15.05	19.31	26.62	26.62	29.40	42.72
TOTAL	**86.56**	**89.09**	**95.45**	**93.14**	**94.23**	**167.43**

Source : Draft Tenth Five Year Plan Document.

XV. 7 PRODUCT AVAILABILITY DURING THE TENTH PLAN

('000' Tonnes)

Product	2002-03	2003-04	2004-05	2005-06	2006-07	TOTAL
LPG	7545	7989	8823	8749	8635	41741
MS	10478	10994	11470	11676	11580	56198
Naphtha	11878	13447	13753	13521	13333	65932
Other Light Ends	4392	4627	4867	4865	4857	23608
ATF	3621	4367	4763	4787	4717	22255
SKO	13966	14656	15062	15110	14944	73738
HSD	47258	51921	57625	58007	57593	272404
LDA	877	701	570	570	545	3263
Other Middle Distillates	529	499	503	502	497	2530
Lubes	836	900	900	882	850	4368
LSHS	4574	4206	3518	3468	3451	19217
FO	7576	7841	7128	6037	5963	34545
Bitumen	3239	3175	3112	3090	3061	15677
Other Heavy Ends	3342	4121	5257	6008	5940	24668
TOTAL	**120111**	**129444**	**137351**	**137272**	**135966**	**660144**

Source : Draft Tenth Five Year Plan Document.

XV.8 REFINERY-WISE CAPACITY ADDITION DURING THE TENTH PLAN

Year	Refinery	MMT
2002-03	Barauni Expansion (PSU)	1.80
	Haldia Expansion (PSU)	1.40
	HPCL Mumbai Expansion (PSU)	0.33
	CPCL, Nagapatinam Expansion (PSU)	0.50
	RPL Expansion (Pvt.)	6.00
	Essar Oil (Pvt.)	10.50
	Sub Total	**20.53**
2003-04	Koyali Expansion (PSU)	4.30
	Panipat Expansion (PSU)	6.00
	BPCL Expansion (PSU)	5.10
	Chennai Expansion (PSU)	3.00
	BRPL Expansion (PSU)	0.35
	IOC, Paradip (PSU)	9.00
	Essar Oil Expansion (Pvt.)	1.50
	Nagarjuna Oil (Pvt.)	6.00
	Sub Total	**35.25**
2004-05	Kochi Expansion (PSU)	6.00
	Sub Total	**6.00**
2005-06	Essar Oil Expansion (Pvt.)	12.00
	RPL Expansion (Pvt.)	17.00
	Bhatinda (PSU)	9.00
	Sub Total	**38.00**
2006-07	BRPL Expansion (PSU)	0.30
	Bina (JVC)	6.00
	Sub Total	6.30
	TOTAL	**106.08**

REFINING CAPACITY ADDITION DURING THE TENTH PLAN

Year	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	Total
Capacity Addition	**Base year**	**20.530**	**35.250**	**6.000**	**38.000**	**6.300**	**106.080**
Total Capacity	**114.668**	**135.198**	**170.448**	**176.448**	**214.448**	**220.748**	

Source: Draft Tenth Five Year Plan Document.

XV. 9 Crude oil processing and import during the Tenth Plan

(TMT)

	2002-03	2003-04	2004-05	2005-06	2006-07	Tenth Plan
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Processing						
Total	124526	134947	144547	144577	143377	691974
Indigenous	29843	30031	31534	31394	30904	153706
Imported	94683	104916	113013	113183	112473	538268
High Sulphur	70499	79880	90030	90224	89610	420243
Low Sulphur	24184	25036	22983	22959	22863	118025
Imports						
High Sulphur	70853	80281	90482	90677	90060	422353
Low Sulphur	24306	25162	23098	23074	22978	118618
Total	95159	105443	113580	113751	113038	540971

XV.10 Value of Import of Crude Oil and Petroleum Products during the Tenth Plan Period

(Millions US Dollars)

	2002-03	2003-04	2004-05	2005-06	2006-07	Tenth Plan
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	CRUDE OIL—import (Overseas Production)					
Low Sulphur	3386	3505	3218	3214	3201	16524
High Sulphur	9870	11183	12604	12631	12545	58833
Gross Crude oil	13256	14688	15822	15845	15746	75357
Overseas production	(32)	(84)	(113)	(344)	(843)	(1416)
***Net* Crude oil**	**13224**	**14604**	**15709**	**15501**	**14903**	**73941**
	PRODUCT—Import (Export)					
LPG	272	339	329	519	724	2183
Naphtha	(138)	(368)	(695)	(599)	(559)	(2359)
MS	(439)	(429)	(407)	(344)	(228)	(1847)
ATF	(196)	(302)	(352)	(343)	(318)	(1511)
HSD	(1005)	(1416)	(1924)	(1630)	(1168)	(7143)
FO/LSHS	44	109	294	449	512	1408
LUBES	128	121	134	161	188	732
Others	(184)	(254)	(352)	(405)	(400)	(1595)
Products-exports	**(1518)**	**(2200)**	**(2973)**	**(2192)**	**(1249)**	**(10132)**
NET IMPORT	**11706**	**12404**	**12736**	**13309**	**13654**	**63809**

Source: Draft Tenth Five Year Plan Document.

XV.11 Estimates of Demand of Petroleum Products during the Tenth Plan

(TMT)

PRODUCTS	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	CARG
1	2	3	4	5	6	7	8
			BASE CASE SCENARIO				
LPG	8055	8776	9528	10310	11123	11966	*8.2*
Naphtha	10928	10823	10723	8668	9128	9228	*-3.5*
MS (R)	6910	7460	8042	8653	9259	9907	*7.5*
MS (D)	160	160	160	160	160	160	*0.0*
MS (T)	7070	7620	8202	8813	9419	10067	*7.3*
ATF	2299	2370	2445	2523	2605	2691	*3.2*
SKO	11000	11000	11000	11000	11000	11000	*0.0*
HSD (R)	30663	32505	34325	36179	38096	40115	*5.5*
HSD (D)	9152	9641	10183	10787	11459	12209	*5.9*
HSD (T)	39815	42146	44508	46966	49555	52324	*5.6*
LDO	1500	1500	1500	1500	1500	1500	*0.0*
FO	7081	7397	7733	8089	8466	8866	*4.6*
LSHS	5787	5787	5787	5787	5787	5787	*0.0*
FO/LSHS	12868	13184	13520	13876	14253	14653	*2.6*
Bitumen	2726	2808	2892	2979	3069	3161	*3.0*
Lub/Gr.	1103	1202	1245	1283	1342	1386	*4.7*
Others	5668	5668	5668	5668	5668	5668	*0.0*
Total	**103032**	**107097**	**111231**	**113586**	**118662**	**123644**	*3.7*
			UPPER CASE SCENARIO				
LPG	8055	8776	9528	10310	11123	11966	*8.2*
Naphtha	10928	13696	13806	11751	12980	13380	*3.5*
MS (R)	6910	7563	8275	9054	9904	10833	*9.4*
MS (D)	160	160	160	160	160	160	*0.0*
MS (T)	7070	7723	8435	9214	10064	10993	*9.2*
ATF	2299	2414	2535	2661	2794	2934	*5.0*
SKO	11000	11000	11000	11000	11000	11000	*0.0*
HSD (R)	30663	32932	35369	37986	40797	43816	*7.4*
HSD (D)	9152	9729	10341	10993	11686	12422	*6.3*
HSD (T)	39815	42661	45711	48979	52483	56238	*7.2*
LDO	1500	1500	1500	1500	1500	1500	*0.0*
FO	7230	7719	8251	8831	9464	10153	*7.0*
LSHS	5787	5787	5787	5787	5787	5787	*0.0*
FO/LSHS	13017	13506	14038	14618	15251	15940	*4.1*
Bitumen	2779	2918	3064	3217	3378	3547	*5.0*
Lub/Gr.	1103	1202	1245	1283	1342	1386	*4.7*
Others	5668	5668	5668	5668	5668	5668	*0.0*
TOTAL	**103234**	**111063**	**116530**	**120202**	**127584**	**134553**	*5.4*

Source: Draft Tenth Five Year Plan Document.

PART-IV

FINANCIAL

PERFORMANCE/STRUCTURE

FINANCIAL REVIEW/STRUCTURE OF THE PUBLIC/JOINT UNDERTAKINGS UNDER THE PURVIEW OF MINISTRY OF PETROLEUM & NATURAL GAS DURING 2000-01

FINANCIAL STRUCTURE/REVIEW 2000-01

The Financial structure of the Public Sector Undertakings for three years upto 2000-01 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) Petro Chemicals 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.

OVERALL FINANCIAL POSITION

(Rs. crores)

	Particulars	1998-99	1999-2000	2000-01
1	Paid up Capital	3813.77	4453.73	4827.01
2	Reserves	51717.48	58028.88	45361.64
3	Loans	25838.90	32747.44	38670.47
4	Net worth	55069.47	61860.07	69057.92
5	Capital Employed	58520.51	79337.51	91394.90
5.1	Net fixed Asset	48977.33	58022.17	62361.78
5.2	Working Capital	9543.18	21315.34	29033.12
6.1	Sales Turnover	146692.64	213228.10	273503.44
6.2	Other Income	3405.56	2523.17	4066.84
	Total	150098.20	215751.27	277570.28
7	Adjusted Gross Profit	14803.20	16603.22	21485.28
8	Net Profit	8734.10	9751.12	11841.07
9	Dividend Paid	2242.72	2587.14	3481.94
10	Corporate Tax	2621.02	3862.88	5344.94

The salient points of analysis are given as under:—

1. CAPITAL INVESTMENT

The Capital investment defined as the sum total of paid up capital and loans has increased by 16.93% from Rs. 37201.17 crores in 1999-2000 to Rs. 43497.48 crores in 2000-01. The increase in the capital investment in 2000-01 was on account of increase in loans from Rs. 32747.44 crores to Rs. 38670.47 crores and increase in paid up capital from Rs. 4453.73 crores in 1999-2000 to Rs. 4827.01 crores in 2000-01. The position of changes in paid up capital and total loans is as under:—

PAID UP CAPITAL

(Rs./crores)

Sl. No.	Name of the Undertakings	1999-2000	2000-01	% Increase/ Decrease
1	Oil and Natural Gas Corporation Ltd.	1425.93	1425.93	0.00
2	Oil India Ltd.	142.67	214.00	50.00
3	Indian Oil Corporation Ltd.	778.67	778.67	0.00
4	Bharat Petroleum Corporation Ltd.	150.00	300.00	100.00
5	Chennai Petroleum Corporation Ltd.	147.10	149.00	1.00
6	Hindustan Petroleum Corporation Ltd.	338.75	338.77	0.01
7	IBP Company Ltd.	22.15	22.15	0.00
8	Balmer Lawrie & Company Ltd.	16.29	16.29	0.00
9	Engineers India Ltd.	56.16	56.16	0.00
10	Biecco Lawriee Ltd.	42.00	42.00	0.00
11	Gas Authority of India Ltd.	845.65	845.65	0.00
12	Kochi Indian Refineries Ltd.	68.94	138.17	100.42
13	Indian Oil Blending Ltd.	0.40	0.40	0.00
14	Lubrizol India Ltd.	19.20	N.A	N.A
15	Bongaigaon Refinery and Petrochemicals Ltd.	199.82	199.82	0.00
16	ONGC-Videsh Ltd.	200.00	300.00	50.00

LOANS

(Rs./crores)

Sl. No.	Name of the Undertakings	1999-2000	2000-01	% Increase/ Decrease
1	Oil & Natural Gas Corporation Ltd.	7095.27	4479.74	-36.86
2	Oil India Ltd.	269.29	273.47	1.55
3	Gas Authority of India Ltd.	2372.48	2710.89	14.26
4	Indian Oil Corporation Ltd.	14715.65	20635.52	40.23
5	Bharat Petroleum Corporation Ltd.	2589.75	4155.46	60.46
6	Chennai Petroleum Corporation Ltd.	1005.86	1152.46	14.57
7	Hindustan Petroleum Corporation Ltd.	2901.49	3569.53	23.02
8	IBP Co. Ltd.	621.82	440.86	-29.10
9	Kochi Refineries Ltd.	807.39	880.59	9.07
10	Indian Oil Blending Ltd.	0.00	0.00	0.00
11	Lubrizol India Ltd.	0.00	N.A.	N.A.
12	Bongaigaon Refineries & Petrochemicals	52.42	85.14	62.42
13	Balmer Lawrie & Co. Ltd.	233.39	208.50	-10.66
14	Engineers India Ltd.	0.00	0.00	0.00
15	Biecco Lawrie Ltd.	18.98	24.25	27.90
16	ONGC-V Ltd.	63.65	54.06	-15.07

The position of the foreign loans during three years, 1998-99, 1999-2000 and 2000-01 is given below:—

(Rs./crores)

Sl. No.	Particulars	1998-99	1999-2000	2000-01
1	Foreign Loans	15331.57	17215.31	16415.14
2	Total Loans	25838.90	32747.44	38670.47
	% of Foreign Loan to Total Loan	59.34	52.57	42.45

The total loans to net worth ratio of all undertakings together increased from 0.53 in 1999-2000 to 0.56 in 2000-01.

2. 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 from Rs. 79337.51 Crores in 1999-2000 to Rs. 91394.90 Crores in 2000-01. This was on account of the increase in net fixed assets from Rs. 58022.17 crores in 1999-2000 to Rs. 62361.78 crores in 2000-01 and working capital from Rs. 21315.34 crores to Rs. 29033.12 crores during the same period. Details of changes in Capital employed are given below:—

(A) NET FIXED ASSETS

(Rs./crores)

SL. No.	Name of the Undertaking	1999-2000	2000-01	% increase/ decrease
1	Oil & Natural Gas Corporation Ltd.	22469.97	22180.60	-1.29
2	Oil India Ltd.	1774.95	1871.97	5.47
3	Gas Authority of India Ltd.	5554.74	6469.04	16.46
4	Indian Oil Corporation Ltd.	14676.04	17510.15	19.31
5	Bharat Petroleum Corporation Ltd.	4095.91	4584.03	11.92
6	Chennai Petroleum Corporation Ltd.	1239.27	1170.60	-5.54
7	Hindustan Petroleum Corporation Ltd.	5621.13	5926.97	5.44
8	IBP Co. Ltd.	505.21	616.75	22.08
9	Kochi Refineries Ltd.	1407.79	1397.90	-0.70
10	Indian Oil Blending Ltd.	26.12	25.53	-2.26
11	Lubrizol India Ltd.	78.53	N.A.	N.A.
12	Bongaigaon Refineries & Petrochemicals	340.92	356.65	4.61
13	Balmer Lawrie & Co. Ltd.	169.54	186.28	9.87
14	Engineers India Ltd.	52.15	55.80	7.00
15	Biecco Lawrie Ltd.	9.54	9.11	-4.51
16	ONGC-V Ltd.	0.37	0.40	7.50

(B) WORKING CAPITAL

(Rs./Crores)

Sl. No.	Name of the Undertaking	1990-2000	2000-01	%increase/ Decrease
1	Oil & Natural Gas Corporation Ltd.	7010.61	8866.72	26.48
2	Oil India Ltd.	1042.69	1121.73	7.58
3	Gas Authority of India Ltd.	102.38	437.74	327.56
4	Indian Oil Corporation Ltd.	7478.50	10918.81	46.00
5	Bharat Petroleum Corporation Ltd.	1037.86	1764.83	70.05
6	Chennai Petroleum Corporation Ltd.	882.57	1079.62	22.33
7	Hindustan Petroleum Corporation Ltd.	1995.07	3037.25	52.24
8	IBP Co. Ltd.	179.57	107.00	-40.41
9	Kochi Refineries Ltd.	547.09	702.19	28.35
10	Indian Oil Blending Ltd.	33.95	34.09	0.41
11	Lubrizol India Ltd.	115.96	N.A.	N.A.
12	Bongaigaon Refineries & Petrochemicals Ltd.	188.52	163.95	-13.03
13	Balmer Lawrie & Co. Ltd.	124.80	96.97	-22.30
14	Engineers India Ltd.	369.29	467.03	26.47
15	Biecco Lawrie Ltd.	17.86	16.40	-8.17
16	ONGC-V Ltd.	188.62	218.79	16.00

3. SALES TURNOVER

The sales turnover of all the Undertakings clubbed together increased by 28.27% from Rs. 213228.10 crores in 1999-2000 to Rs. 273503.44 crores in 2000-01. The company wise share of sales turnover showing the amount is as under:—

Sl. No.	Name of the Undertaking	1999-2000	%age Share	2000-01	%age Share
1	Oil & Natural Gas Corporation Ltd.	20093.57	9.42	23640.32	8.64
2	Oil India Ltd.	1635.10	0.77	1975.68	0.72
3	Gas Authority of India Ltd.	7710.17	3.62	9197.45	3.36
4	Indian Oil Corporation Ltd.	95699.17	44.88	118238.12	43.23
5	Bharat Petroleum Corporation Ltd.	33384.68	15.65	45932.07	16.79
6	Chennai Petroleum Corporation Ltd.	5520.69	2.59	7132.62	2.61
7	Hindustan Petroleum Corporation Ltd.	33830.87	15.86	48566.84	17.76
8	IBP Co. Ltd.	6629.74	3.10	8619.81	3.15
9	Kochi Refineries Ltd.	5768.33	2.71	7135.75	2.61
10	Indian Oil Blending Ltd.	37.05	0.02	29.00	0.01
11	Lubrizol India Ltd.	412.06	0.19	N.A.	N.A.
12	Bongaigaon Refineries & Petrochemicals	1291.52	0.61	1255.30	0.46
13	Balmer Lawrie & Co. Ltd.	693.96	0.33	744.18	0.27
14	Engineers India Ltd.	444.14	0.21	972.82	0.36
15	Biecco Lawrie Ltd.	77.05	0.04	63.48	0.02
16	ONGC-V Ltd.	0.00	0.00	0.00	0.00
		213228.10	**100.00**	**273503.44**	**100.00**

Note : Lubrizol India Limited is not a PSU from 2000-2001. Hence Not applicable (NA) is shown against the figure of Lubrizol India Limited.

4. PROFITABILITY

The adjusted gross profit, which stood at Rs. 16603.22 crores during the year 1999-2000 increased to Rs. 21485.28 Crores in 2000-01. The adjusted gross profit expressed as a percentage of sales turnover marginally increased from 7.79% in 1999-2000 to 7.86% in 2000-01. The net profit, also increased from Rs. 9751.12 crores in 1999-2000 to Rs. 11841.07 crores in 2000-01. The net profit expressed as a percentage of paid-up Capital increased from 218.94% in 1999-2000 to 245.30% in 2000-01 while that of net profit to net worth increased from 15.76% to 17.15%.

5. DIVIDENDS

There has been an increase in the quantum of dividends paid by the Public Sector Undertakings over the last year. The total dividend increased from Rs. 2587.14 crores in 1999-2000 to Rs. 3481.94 crores in 2000-01. The highest amount of dividend was paid by Oil & Natural Gas Corporation Ltd. which paid Rs. 1568.53 crores in 2000-01. The Indian Oil Corporation Ltd. paid a dividend of Rs. 739.74 crores in 2000-01. Biecco Lawrie Ltd., ONGC's Videsh Ltd. and Bongaigaon Refinery & Petrochemical Ltd. did not declare any dividend during the year under review.

6. CORPORATE TAX

The contribution made to the National Exchequer by the Public Sector Undertakings by way of corporate taxes was Rs. 5344.94 crors in 2000-01 as against Rs. 3862.88 crores in 1999-2000.

(A) EXPLORATION & PRODUCTION

This category includes the following four enterprises and the data in respect of each undertaking is given below.

1.	OiL & Natural Gas Corporation Ltd.	(ONGC)
2.	ONGC's Videsh Ltd.	(ONGC-V)
3.	Oil India Ltd.	(OIL)
4.	Gas Authority of India Ltd.	(GAIL)

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

(Rs./Crores)

Sl. No.	Particulars	1998-99	1999-2000	2000-01
1	Paid up Capital	2514.25	2614.25	2785.58
2	Loans	10509.28	9800.69	7518.16
3	Net worth	30669.01	34169.27	38714.87
4	Capital Employed	34258.66	38144.33	41166.99
4.1	Net fixed Asset	29350.01	29800.03	30522.01
4.2	Working Capital	4908.65	8344.30	10644.98
5	Sales Turnover	22387.41	29438.84	34813.45
6	Adjusted Gross profit	6862.51	9010.56	13004.64
7	Net Profit	4113.40	4908.71	6846.40
8	Dividend Paid	1158.71	1287.55	2049.46
9	Corporate Tax	1117.49	2686.04	4490.34

The salient points of analysis are given as under:—

1. CAPITAL INVESTMENT

There has been an decrease of 17.01% in the capital investment from Rs. 12414.94 crores in 1999-2000 to Rs. 10303.74 crores in 2000-01. The decrease in the capital on account of changes in loans of the undertakings noted below:—

(Rs./crores)

Sl. No.	Particulars	1999-2000	2000-01	% increase/ Decrease
	(A) Paid-up Capital			
1	Oil India Ltd.	142.67	214.00	50.00
2	Gas Authority of India Ltd.	845.65	845.65	0.00
3	ONGC Ltd.	1425.93	1425.93	0.00
4	ONGC-V Ltd.	200.00	300.00	50.00
	(B) Loans			
1	ONGC Ltd.	7095.27	4479.74	-36.86
2	ONGC-V	63.65	54.06	-15.07
3	Oil India Ltd.	269.29	273.47	1.55
4	Gas Authority of India Ltd.	2372.48	2710.89	14.26

2. CAPITAL EMPLOYED

The capital employed registered an increase of 7.92% from Rs. 38144.33 crores in 1999-2000 to Rs. 41166.99 crores in 2000-01. The increase in capital employed comprised of the incease in the Net Fixed Assets and Working Capital is as under:—

(Rs./crores)

Sl. No.	Particulars	1999-2000	2000-01	% increase/ Decrease
	(A) Net Fixed Assets			
1	ONGC Ltd.	22469.97	22180.60	-1.29
2	Gas Authority of India Ltd.	5554.74	6469.04	16.46
3	Oil India Ltd.	1774.95	1871.97	5.47
4	ONGC-V Ltd.	0.37	0.40	7.50
	(B) Working Capital			
1	ONGC Ltd.	7010.61	8866.72	26.48
2	Gas Authority of India Ltd.	102.38	437.74	327.56
3	Oil India Ltd.	1042.69	1121.73	7.58
4	ONGC-V Ltd.	188.62	218.79	16.00

3. SALES TURNOVER

The sales turnover under this category increased from Rs. 29438.84 crores in 1999-2000 to Rs. 34813.45 crores in 2000-01 showing an increase of 18.26%. The sales of Oil & Natural Gas Corporation went up from Rs. 20093.57 crores in 1999-2000 to Rs. 23640.32 crores in 2000-01 and that of GAIL increased from Rs. 7710.17 crores to Rs. 9197.45 crores in the same period. The sales turnover of oil India Ltd. increased from Rs. 1635.10 crores to Rs. 1975.68 crores during the same period.

4. PROFITABILITY

The adjusted gross proift increased by 44.33% from Rs. 9010.56 crores in 1999-2000 to Rs. 13004.64 crores in 2000-01. The gross profit expressed as a percentage of sales turnover increased from 30.61% in 1999-2000 to 37.36% in 2000-01. The ratios of net profit to paid-up capital and net worth were 245.78% and 17.68% in 2000-01 against 187.77% and 14.37% respectively in 1999-2000.

5. DIVIDEND

ONGC, GAIL and OIL have been paying dividend continuously. The dividend paid by the companies under this group during 2000-01 was Rs. 2049.46 crores against Rs. 1287.55 crores paid during 1999-2000.

6. CORPORATE TAX

The contribution made by companies of this group by way of taxes to the national exchequer has increased from Rs. 2686.04 crores in 1999-2000 to Rs. 4490.34 crores in 2000-01.

(B) REFINING AND MARKETING

Financial structure and performance of the individual undertakings have been provided in the Table.

1. Indian Oil Corporation Ltd.
2. Hindustan Petroleum Corporation Ltd.
3. Bharat Petroleum Corporation Ltd.
4. Chennai Petroleum Corporation Ltd.
5. IBP Co. Ltd.
6. Kochi Refineries Ltd.
7. Indian Oil Blending Ltd.
8. Lubrizol India Ltd.

Summary position of the undertaking for three years is as under:—

(Rs./crores)

Sl. No.	Particulars	1998-99	1999-2000	2000-01
1	Paid up Capital	1022.69	1525.21	1727.16
2	Loans	15023.16	22641.95	30837.42
3	Net worth	23095.17	26272.54	28907.96
4	Capital Employed	23092.91	39920.56	48875.72
4.1	Net fixed Asset	19088.92	27649.99	31231.93
4.2	Working Capital	4003.99	12270.54	17643.79
5	Sales Turnover	122306.96	181282.59	235654.21
6	Adjusted Gross Profit	7650.04	7300.87	8285.62
7	Net Profit	4451.10	4665.45	4929.09
8	Dividend Paid	1040.76	1250.30	1392.41
9	Corporate Tax	1431.81	1107.83	781.77

An analysis of salient features is given below:—

1. CAPITAL INVESTMENT

During the year the capital investment increased by 34.73% from Rs. 24167.16 crores in 1999-2000 to Rs. 32561.58 crores in 2000-01. The increase was due to increase in loans as well as the paid up capital of the companies under this group has increased from 1525.21 crores in 1999-2000 to Rs. 1727.16 crores in 2000-01 and loans has increased from 22641.95 crores to Rs. 30834.42 crores during the same period. The details of changes in the paid up capital and total loans of the companies under this group are given below:—

(Rs./crores)

SL. No.	PARTICULARS	1999-2000	2000-01	% increase/ Decrease
	(A) PAID-UP CAPITAL			
1.	IOC	778.67	778.67	0.00
2	HPCL	338.75	338.77	0.01
3	IBP	22.15	22.15	0.00
4	BPCL	150.00	300.00	100.00
5	KRL	68.94	138.17	100.42
6	CPCL	147.10	149.00	1.00
7	LIL	19.20	N.A.	N.A.
8	IOBL	0.40	0.40	0.00
	(B) LOANS			
1	IOC	14715.65	20635.52	40.23
2	BPCL	2589.75	4155.46	60.46
3	HPCL	2901.49	3569.53	23.02
4	KRL	807.39	880.59	9.07
5	CPCL	1005.86	1152.46	14.57
6	IBP	621.82	440.86	–29.10
7	LIL	0.00	N.A.	N.A.
8	IOBL	0.00	0.00	0.00

The total loans to net worth of the companies under the refining group has increased from 0.86 in 1999-2000 to 1.07 in 2000-01.

2. CAPITAL EMPLOYED

The capital employed in the Refining and Marketing category increased by 22.43% from Rs. 39920.56 crores in 1999-2000 to Rs. 48875.72 crores in 2000-01. This was due to increase in Net Fixed Assets from Rs. 27649.99 crores to Rs. 31231.93 crores during the period and working Capital increased from Rs. 12270.57 crores to Rs. 17643.79 crores in the same period.

(Rs./crores)

SL. No.	PARTICULARS	1999-2000	2000-01	% increase/ Decrease
	(A) NET FIXED ASSETS			
1	IOC	14676.04	17510.15	19.31
2	HPCL	5621.13	5926.97	5.44
3	IBP	505.21	616.75	22.08
4	BPCL	4095.91	4584.03	11.92
5	KRL	1407.79	1397.90	–0.70
6	CPCL	1239.27	1170.60	–5.54
7	LIL	78.53	N.A.	N.A.
8	IOBL	26.12	25.53	–2.26
	(B) WORKING CAPITAL			
1	IOC	7478.50	10918.81	46.00
2	BPCL	1037.86	1764.83	70.05
3	HPCL	1995.07	3037.25	52.24
4	KRL	547.09	702.19	28.35
5	CPCL	882.57	1079.62	22.33
6	IBP	179.57	107.00	–40.41
7	LIL	115.96	N.A.	N.A.
8	IOBL	33.95	34.09	0.41

3. SALES TURNOVER

The sales turnover of the companies under this category has increased by 29.99% from Rs. 181282.59 crores to Rs. 235654.21 crores in 2000-01. The details of sales turnover in respect of companies under this category are as under:—

(Rs./crores)

	PARTICULARS	1999-2000	2000-01	% increase/ decrease
1	IOC	95699.17	118238.12	23.55
2	BPCL	33384.68	45932.07	37.58
3	HPCL	33830.87	48566.84	43.56
4	KRL	5768.23	7135.75	23.71
5	CPCL	5520.69	7132.62	29.20
6	IBP	6629.74	8619.81	30.02
7	LIL	412.06	N.A.	N.A.
8	IOBL	37.05	29.00	–21.73

4. PROFITABILITY

The % age of adjusted gross profit to sales turnover was 3.52% during 2000-01 as against 4.03% in 1999-2000. The adjusted gross profit and net profits were Rs. 8285.62 crores and Rs. 4929.09 crores in 2000-01 against Rs. 7300.87 crores and Rs. 4665.45 crores respectively in 1999-2000. The net profit to paid up capital and net profit to net worth were 285.39% and 17.05% in 2000-01 agaisnt 305.89% and 17.76% respectively in 1999-2000.

5. DIVIDEND

During 2000-01, the companies under Refining and Marketing paid out Rs. 1392.41 crores as dividends as against Rs. 1250.30 crores in 1999-2000. The amount paid in 1998-99 was Rs. 1040.76 crores. IOC paid out the highest dividend amounting to Rs. 739.74 crores followed by HPCL amounting to Rs. 339.33 crores.

6. CORPORATE TAX

The taxes paid by this group of companies were Rs. 781.77 crores in 2000-01 against Rs. 1107.83 crores in 1999-2000.

(C) PETRO-CHEMICAL

There is only one undertaking in this category viz., Bongaigaon Refinery & Petrochemicals Ltd. The financial structure and performance of BRPL for three years is as under:—

(Rs./crores)

Sl. No.	Particulars	1998-99	1999-2000	2000-01
1	Paid up Capital	199.82	199.82	199.82
2	Loans	61.76	52.42	85.14
3	Net worth	597.04	617.52	555.87
4	Capital Employed	548.28	529.44	520.60
4.1	Net fixed Asset	364.96	340.92	356.65
4.2	Working Capital	183.32	188.52	163.75
5	Sales Turnover	936.36	1291.52	1255.30
6	Adjusted Gross Profit	44.69	41.59	–45.81
7	Net Profit	34.26	32.24	–57.29
8	Dividend Paid	10.28	9.67	0.00
9	Corporate Tax	0.00	0.00	0.00

The analysis of the salient features is as under:—

1. CAPITAL INVESTMENT

The capital investment increased from Rs. 252.24 crores in 1999-2000 to Rs. 284.96 crores in 2000-01. This is due to increase in loans from Rs. 52.42 crores in 1999-2000 to Rs. 85.14 crores in 2000-01. The total loans to net worth ratio of the sector during 2000-01 have increased from 0.08 in 1999-2000 to 0.15 in 2000.01

2. CAPITAL EMPLOYED

The capital employed decreased by 1.67% from Rs. 529.44 crores in 1999-2000 to Rs. 520.60 crores in 2000-01. The decrease in capital employed was due to 13.03% decrease in working capital. However, net fixed assets has been increased by 4.61% in the same period.

3. SALES TURNOVER

The Sales Turnover decreased by 2.80% from Rs. 1291.52 crores in 1999-2000 to Rs. 1255.30 crores in 2000-01.

4. PROFITABILITY

The percentage of adjusted gross loss to sales turnover stood at 3.65% in 2000-01 as against 3.22% adjusted gross profit to sales turnover in 1999-2000. The net loss to paid up capital and net loss to net worth were 28.67% and 10.31% in 2000-01 against net profit to paid up capital and net profit to net worth of 16.13% and 5.22% respectively in 1999-2000.

5. DIVIDEND

This sector did not paid any dividend during 2000-01 as against Rs. 9.67 crores in 1999-2000.

6. CORPORATE TAX

The sector paid nil corporate tax in 1999-2000 and 2000-01.

(D) ENGINEERING UNITS

There are at present three undertakings under this category, which are:—

1. Engineers India Ltd.
2. Balmer Lawriee & Co. Ltd.
3. Biecco Lawrie Ltd.

Summery position of these Undertakings for three years is as under:—

(Rs./crores)

Sl. No.	Particulars	1998-99	1999-2000	2000-01
1	Paid up Capital	77.01	114.45	114.45
2	Loans	244.70	252.37	232.75
3	Net worth	708.25	800.75	879.22
4	Capital Employed	620.66	743.18	831.59
4.1	Net fixed Asset	173.44	231.23	251.19
4.2	Working Capital	447.22	511.95	580.40
5	Sales Turnover	1058.91	1215.15	1780.48
6	Adjusted Gross Profit	245.96	250.21	240.83
7	Net Profit	135.34	144.73	123.02
8	Dividend Paid	32.97	39.62	40.07
9	Corporate Tax	71.72	69.01	72.83

1. CAPITAL INVESTMENT

The Capital Investment under this category decreased by 5.35% from Rs. 366.82 crores in 1999-2000 to Rs. 347.20 crores in 2000-01. This was due to 7.74% decrease in total loans.

The details of the changes in Paid up capital and loans are given below:—

(Rs./crores)

Sl. No.	Name of the Company	1999-2000	2000-01	% Increase/ Decrease
	(A) Paid up Capital			
1	Balmer Lawrie Company Ltd.	16.29	16.29	0.00
2	Bieeco Lawrie Ltd.	42.00	42.00	0.00
3	Engineers India Ltd.	56.16	56.16	0.00
	(B) Loans			
1	Balmer Lawrie Company Ltd.	233.39	208.50	-10.66
2	Bieeco Lawrie Ltd.	18.98	24.25	27.90
3	Engineers India Ltd.	0.00	0.00	0.00

The total loans/net worth ratio has decreased from 0.32 in 1999-2000 to 0.26 during 2000-01.

2. CAPITAL EMPLOYED

The Capital Employed by the engineering units increased by 11.90% from Rs. 743.18 crores in 1999-2000 to Rs. 831.59 crores in 2000-01. The net fixed assets and working capital of the companies under this category was as under:—

(Rs./crores)

Sl. No.	Name of the Company	1999-2000	2000-01	% increase/ Decrease
	(A) Net Fixed Assets			
1	Balmer Lawrie Company Ltd.	169.54	186.28	9.87
2	Bieeco Lawrie Ltd.	9.54	9.11	-4.51
3	Engineers India Ltd.	52.15	55.80	7.00
	(B) Working Capital			
1	Balmer Lawrie Company Ltd.	124.80	96.97	-22.30
2	Bieeco Lawrie Ltd.	17.86	16.40	-8.17
3	Engineers India Ltd.	369.29	467.03	26.47

3. SALES TURNOVER

The sales turnover of the Undertakings in this category increased from Rs. 1215.15 crores in 1999-2000 to Rs. 1780.48 crores in 2000-01. The sales during the year have increased by 46.52%.

4. PROFITABILITY

The adjusted gross profit has decreased from Rs. 250.21 crores in 1999-2000 to Rs. 240.83 crores in 2000-01. The ratio of adjusted gross profit to sales decreased from 20.59% to 13.52% in the same period. The ratio of net profit to paid up capital decreased from 126.46% to 107.45% in the period and the ratio of net profit to net worth decreased from 18.07% to 13.99%.

5. DIVIDEND

The companies under this category paid a dividend of Rs. 40.07 crores in 2000-01 as against Rs. 39.62 crores in 1999-2000.

6. CORPORATE TAX

The contribution made by the companies to National Exchequer by way of taxes was Rs. 72.83 crores in 2000-01 as against Rs. 69.01 crores in 1999-2000.

XVI. 2. CONSOLIDATED FINANCIAL STRUCTURE 2000-01

(Rs./lakhs)

PARTICULARS		Exploration & Production	Refining & Marketing	Petro Chemicals	Engineering & Serv. Units	Total
1.	Authorised Capital	1675000	360040	20000	18000	**2073040**
2.	(i) Paid-up Capital	278558	172716	19982	11445	**482701**
	(ii) Preference Capital	0	0	0	0	**0**
	(iii) Reserves & Surpluses	3204684	2465743	41802	72966	**5785195**
3. Total loans		**751816**	**3083442**	**8514**	**23275**	**3867047**
	(i) of which foreign	560787	1080727	0	0	**1641514**
	(ii) of which Cash credits & advance from bank & others	191029	2002715	8514	23275	**2225533**
4.	Net worth	3871487	2890796	55587	87922	6905792
5.	(i) Gross Block	8009173	4943047	78671	38161	13069052
	(ii) Less Depreciation	4956972	1819854	43006	13042	6832874
	(III) Net fixed assets	**3052201**	**3123193**	**35665**	**25119**	6236178
	(iv) Working Capital	1064498	1764379	16395	58040	2903312
	(v) Capital Empl (iii+iv)	4116699	4887572	52060	83159	9139490
6.	(i) Sales	3481345	23565421	125530	178048	27350344
	(ii) Other income	176986	216830	3189	9679	406684
	TOTAL	3658331	23782251	128719	187727	27757028
7.	(i) Total emoluments (incl. perks)	285082	335347	7650	31860	659939
	(ii) of which bonus	3023	5731	0	7	8761
	(iii) Average Emol. per person	5.32	5.31	4.18	5.10	2.70
8.	Inventories	211856	1924421	29505	8406	2174188
9.	Gross profit (PBIT)					
	(a) Gross Profit before Intt. & Tax	**1198177**	**834729**	**-4596**	**22877**	2051187
	(b) Adjusted gross profit	1300464	828562	-4581	24083	2148528
10.	Net Profit					
	(a) Net Profit after intt. & taxes	684640	492909	-5744	12302	1184107
	(b) Adjusted net profit	**728987**	**485350**	**-5729**	**11941**	1220549
11.	Dividends declared	204946	139241	0	4007	**348194**
12.	Corporate Tax	449034	78177	0	7283	**534494**
13	% age of					
	(a) NP to paid-up capital	245.78	285.39	-28.75	107.49	**245.31**
	Adj. NP to paid-up capital	261.70	281.01	-28.67	104.33	**252.86**
	(b) NP to Net Worth	**17.68**	**17.05**	**-10.33**	**13.99**	**17.15**
	Adj. NP to Net Worth	18.83	16.79	-10.31	13.58	**17.67**
	(c) GP to capital emp.	29.11	17.08	-8.83	27.51	**22.44**
	Adj. GP to capital emp.	31.59	16.95	-8.80	28.96	**23.51**
	(d) Sales to Capital Employed	84.57	482.15	241.13	214.11	**299.25**
	(e) GP to Sales	34.42	3.54	-3.66	12.85	**7.50**
	Adj. GP to Sales	37.36	3.52	-3.65	13.53	**7.86**
	(f) Loans/Net Worth Ratio	0.19	1.07	0.15	0.26	**0.56**

XVI. 3. CONSOLIDATED FINANCIAL STRUCTURE 1999-2000

(Rs./Lakhs)

	PARTICULARS	Exploration & Production	Refining & Marketing	Petro Chemicals	Engineering & Serv. Units	TOTAL
1.	Authorised Capital	1675000	344460	20000	18000	**2057460**
2.	(i) Paid-up Capital	261425	152521	19982	11445	**445373**
	(ii) Preference Capital	0	0	0	0	**0**
	(iii) Reserves & Surpluses	3204684	2483436	41802	72966	**5802888**
3.	**Total loans**	**980069**	**2264196**	**5242**	**26237**	**3274744**
	(i) of which foreign	811223	910308	0	0	**1721531**
	(ii) of which Cash credits & advances from banks & others	168846	1353888	5242	25237	**1553213**
4.	Net worth	3416927	2627254	61752	80075	**6186007**
5.	(i) Gross Block	7496528	4340840	74250	34446	**11946066**
	(ii) Less Depreciation	4516525	1575840	40158	11325	**6143848**
	(iii) Net fixed assets	**2980003**	**2764999**	**34092**	**23123**	**5802217**
	(iv) Working Capital	834430	1227057	18852	51195	**2131534**
	(v) Capital Empl (iii+ iv)	3814433	3992057	52944	74318	**7933752**
6.	(i) Sales	2943884	18128259	129152	121515	**21322810**
	(ii) Other income	136736	102534	2228	10819	**252317**
	TOTAL	3080620	18230793	131380	132334	**21575127**
7.	(i) Total emoluments (incl. perks)	276759	234876	6313	29067	**547015**
	(ii) of which bonus	2999	5754	0	16	**8769**
	(iii) Adverage Emol. per person	4.77	3.64	3.42	3.99	**2.70**
8.	Inventories	213555	2054508	24229	27821	**2320113**
9.	Gross profit (PBIT)					
	(a) Gross Profit before Intt. & Tax	**839221**	**731657**	**4072**	**23695**	**1598644**
	(b) Adjusted gross profit	901056	730087	4159	25021	**1660322**
10.	Net Profit					
	(a) Net Profit after intt. & taxes	490871	466545	3224	14473	**975112**
	(b) Adjusted net profit	**529507**	**464610**	**3523**	**13975**	**1011615**
11.	Dividends declared	128755	125030	967	3962	**258714**
12.	Corporate Tax	268604	110783	0	6901	**386288**
13.	% age of					
	(a) NP to paid-up capital	187.77	305.89	16.13	126.45	**218.94**
	Adj. NP to paid-up capital	202.55	304.62	17.63	122.11	**227.14**
	(b) NP to Net Worth	**14.37**	**17.76**	**5.22**	**18.07**	**15.76**
	Adj. NP to Net Worth	15.50	17.68	5.71	17.45	**16.35**
	(c) GP to capital empl.	22.00	18.33	7.69	31.88	**2015**
	Adj. GP to capital empl.	23.62	18.29	7.86	33.67	**20.93**
	(d) Sales to Capital Exployed	77.18	454.11	243.94	163.51	**268.76**
	(e) GP to Sales	28.51	4.04	3.15	19.50	**7.50**
	Adj. GP to Sales	30.61	4.03	3.22	20.59	**7.79**
	(f) Loans/Net Worth Ratio	0.29	0.86	0.08	0.32	**0.53**

XVI. 4. CONSOLIDATED FINANCIAL STRUCTURE 1998-99

(Rs./Lakhs)

PARTICULARS		Exploration & Production	Refining & Marketing	Petro Chemicals	Engineering & Serv. Units	TOTAL
1.	Authorised Capital	1675000	334460	20000	13000	**2042460**
2.	(i) Paid-up Capital	251425	102269	19982	7701	**381377**
	(ii) Preference Capital	0	0	0	0	**0**
	(iii) Reserves & Surpluses	2854945	2209583	39757	67463	**5171748**
3.	**Total loans**	**1050928**	**1502316**	**6176**	**24470**	**2583890**
	(i) of which foreign	890559	642598	0	0	**1533157**
	(ii) of which Cash credits & advances from banks & others	160369	859718	6176	24470	1050733
4.	Net worth	3066901	2309517	59704	70825	**5506947**
5.	(i) Gross Block	6912531	3181516	74050	27938	**10196035**
	(ii) Less Depreciation	3977530	1272624	37554	10594	**5298302**
	(iii) Net fixed assets	**2935001**	**1908892**	**36496**	**17344**	**4897733**
	(iv) Working Capital	490865	400399	18332	44722	**954318**
	(v) Capital Empl (iii+iv)	3425865	2309291	54828	62066	**5852051**
6.	(i) Sale	2238741	12230696	93936	105891	**14669264**
	(ii) Other income	148099	177555	3166	11736	**340556**
	TOTAL	2386840	12408251	97102	117627	**15009820**
7.	(i) Total emoluments (incl. perks)	165269	150510	4790	23906	**344475**
	(ii) of which bonus	3026	5744	0	28	**8798**
	(iii) Average Emol. per person	3.04	2.34	2.55	3.18	**2.70**
8.	Inventories	202923	987536	16711	10216	**1217386**
9.	Gross profit (PBIT)					
	(a) Gross Profit before Intt. & Tax	**618840**	**761221**	**4365**	**23656**	**1408082**
	(b) Adjusted gross profit	686251	765004	4469	24596	**1480320**
10.	Net Profit					
	(a) Net Profit after Intt. & Tax	411340	445110	3426	13534	**873410**
	(b) Adjusted net profit	**469193**	**448027**	**3530**	**13455**	**934205**
11.	Dividends declared	115871	104076	1028	3297	**224272**
12.	Corporate Tax	111749	143181	0	7172	**262102**
13.	% age of					
	(a) NP to paid-up capital	163.60	435.23	17.15	175.74	**229.01**
	Adj. NP to paid-up capital	186.61	438.09	17.67	174.72	**244.96**
	(b) NP to Net Worth	**13.41**	**19.27**	**5.74**	**19.11**	**15.86**
	Adj. NP to Net Worth	15.30	19.40	5.91	19.00	**16.96**
	(c) GP to capital emp.	18.06	32.96	7.96	38.11	**24.06**
	Adj. GP to capital emp.	20.03	33.13	8.15	39.63	**25.30**
	(d) Sales to Capital Employed	65.35	529.63	171.33	170.61	**250.67**
	(e) GP to Sales	27.64	6.22	4.65	22.34	**9.60**
	Adj. GP to Sales	30.65	6.25	4.76	23.23	**10.09**
	(f) Loan/Net Worth Ration	0.34	0.65	0.10	0.35	**0.47**

CONSOLIDATED FINANCIAL STRUCTURE

XVI. 5. EXPLORATION & PRODUCTION

(Rs./Lakhs)

Particulars		1998-99	1999-2000	2000-2001
1.	Authorised Capital	1675000	1675000	1675000
2.	i) Paid-up Capital	251425	261425	278558
	ii) Preference Capital	0	0	0
	iii) Reserves & Surpluses	2854945	3204684	3204684
3.	**Total loans (i+ii)**	**1050928**	**980069**	**751816**
	i) of which foreign	890559	811223	560787
	ii) of which Cash credits & advances from banks & others	160369	168846	191029
4	Net worth	3066901	3416927	3871487
5.	i) Gross Block	6912531	7496528	8009173
	ii) Less Depreciation	3977530	4516525	4956972
	iii) Net fixed assets	**2935001**	**2980003**	**3052201**
	iv) Working Capital	490865	834430	1064498
	v) Capital Empl (iii+iv)	3425866	3814433	4116699
6.	i) Sales	2238741	2943884	3481345
	ii) Other income	148099	136736	176986
	TOTAL	2386840	3080620	3658331
7.	i) Total emoluments (incl. perks)	165269	276759	285082
	ii) of which bonus	3026	2999	3023
	iii) Average Emol. per person	3.04	4.77	5.32
8.	Inventories	202923	213555	211856
9.	Gross profit (PBIT)			
	a) Gross Profit before Intt. & Tax	**618840**	**839221**	**1198177**
	b) Adjusted gross profit	686251	901056	1300464
10.	Net Profit			
	a) Net Profit after intt. & taxes	411340	490871	684640
	b) Adjusted net profit	**469193**	**529507**	**728987**
11.	Dividends declared	115871	128755	204946
12.	Corporate Tax	111749	268604	449034
13.	% age of	0.00	0.00	0.00
	a) NP to paid-up capital	163.60	187.77	245.78
	Adj. NP to paid-up capital	186.61	202.55	261.70
	b) NP to NetWorth	**13.41**	**14.37**	**17.68**
	Adj. NP to Net Worth	15.30	15.50	18.83
	c) GP to capital emp.	18.06	22.00	29.11
	Adj. GP to capital emp.	20.03	23.62	31.59
	d) Sales to Capital Employed	65.35	77.18	84.57
	e) GP to Sales	27.64	28.51	34.42
	Adj. GP to Sales	30.65	30.61	37.36
	f) Loans/NetWorth Ratio	0.34	0.29	0.19

FINANCIAL STRUCTURE
XVI. 6. OIL & NATURAL GAS CORPORATION LIMITED

(Rs./Lakhs)

Particulars		1998-99	1999-2000	2000-01
1.	Authorised Capital	1500000	1500000	1500000
2.	i) Paid-up Capital	142593	142593	142593
	ii) Preference Capital	0	0	0
	iii) Reserves & Surpluses	2282287	2538432	2538432
3.	**Total loans (i+ii)**	**815014**	**709527**	**447974**
	i) of which foreign	767509	662381	404963
	ii) of which Cash redits & advances	47505	47146	43011
	from banks & others	0	0	0
4.	Net worth	2415521	2672089	3013105
5.	i) Gross Block	5831590	6311569	6647586
	ii) Less Depreciation	3590918	4064572	4429526
	iii) Net fixed assets	**2240672**	**2246997**	**2218060**
	iv) Working Capital	459594	701061	886672
	v) Capital Empl (iii+iv)	2700266	2948058	3104732
6.	i) Sales	1496279	2009357	2364032
	ii) Other income	98838	99315	143663
	TOTAL	1595117	2108672	2507695
7.	i) Total emoluments (incl. perks)	134310	236782	231837
	ii) of which bonus	2428	2381	2418
	iii) Average Emol. per person	3.27	5.92	5.76
8.	Inventories	157175	156489	153692
9.	Gross profit (PBIT)	0	0	0
	a) Gross Profit before Intt. & Tax	**440505**	**653076**	**955338**
	b) Adjusted gross profit	509411	711827	1028544
10.	Net Profit	0	0	0
	a) Net Profit after intt. & taxes	275450	362947	522878
	b) Adjusted net profit	**335079**	**398837**	**535501**
11.	Dividends declared	78426	92685	156853
12.	Corporate Tax	82015	230097	392807
13.	% age of	0.00	0.00	0
	a) NP to paid-up capital	193.17	254.53	366.69
	Adj. NP to paid-up capital	234.99	279.70	375.55
	b) NP to NetWorth	**11.40**	**13.58**	**17.35**
	Adj. NP to Net Worth	13.87	14.93	17.77
	c) GP to capital emp.	16.31	22.15	30.77
	Adj. GP to capital emp.	18.87	24.15	33.13
	d) Sales to Capital Employed	55.41	68.16	76.14
	e) GP to Sales	29.44	32.50	40.41
	Adj. GP to Sales	34.05	35.43	43.51
	f) Loans/NetWorth Ratio	0.34	0.27	0.15

FINANCIAL STRUCTURE
XVI. 7. ONGC-VIDESH LIMITED

(Rs./Lakhs)

Particulars	1998-99	1999-2000	2000-01
1. Authorised Capital	50000	50000	50000
2. i) Paid-up Capital	10000	20000	30000
ii) Preference Capital	0	0	0
iii) Reserves & Surpluses	8823	15879	15879
3. Total loans (i+ii)	**7324**	**6365**	**5406**
i) of which foreign	0	0	0
ii) of which Cash credits & advances	7324	6365	5406
from banks & others	0	0	0
4. Net worth	-10337	-3355	3825
5. i) Gross Block	50	59	65
ii) Less Depreciation	18	22	25
iii) Net fixed assets	**32**	**37**	**40**
iv) Working Capital	5789	18862	21879
v) Capital Empl (iii+iv)	5821	18899	21919
6. i) Sales	0	0	0
ii) Other income	775	1751	3659
TOTAL	775	1751	3659
7. i) Total emoluments (incl. perks)	109	152	241
ii) of which bonus	5	6	6
iii) Average Emol. per person	2.27	3.17	5.74
8. Inventories	0	0	0
9. Gross profit (PBIT)	0	0	0
a) Gross Profit before Intt. & Tax	**1206**	**1260**	**2920**
b) Adjusted gross profit	448	1301	2730
10. Net Profit	0	0	0
a) Net Profit after intt. & taxes	738	818	2409
b) Adjusted net profit	**-19**	**860**	**2219**
11. Dividends declared	0	0	0
12. Corporate Tax	87	107	223
13 % age of	0.00	0.00	0.00
a) NP to paid-up capital	7.38	4.09	8.03
Adj. NP to paid-up capital	-0.19	4.30	7.40
b) NP to Net Worth	**-7.14**	**-24.38**	**62.98**
Adj. NP to Net Worth	0.18	-25.63	58.01
c) GP to capital emp.	20.72	6.67	13.32
Adj. GP to capital emp.	7.70	6.88	12.45
d) Sales to Capital Employed	0.00	0.00	0.00
e) GP to Sales	N.A.	N.A.	N.A.
Adj. GP to Sales	N.A.	N.A.	N.A.
f) Loans/Net Worth Ratio	-0.71	-1.90	1.41

FINANCIAL STRUCTURE
XVI. 8. OIL INDIA LIMITED

(Rs./Lakhs)

Particulars		1998-99	1999-2000	2000-01
1.	Authorised Capital	25000	25000	25000
2.	(i) Paid-up Capital	14267	14267	21400
	(ii) Preference Capital	0	0	0
	(iii) Reserves & Surpluses	233862	262415	262415
3.	**Total loans (i+ii)**	**30841**	**26929**	**27347**
	(i) of which foreign	0	0	0
	(ii) of which Cash credits & advances	30841	26929	27347
	from banks & others	0	0	0
4.	Net worth	248129	276682	307696
5.	(i) Gross Block	304014	332664	357731
	(ii) Less Depreciation	138948	155169	170534
	(iii) Net fixed assests	**165066**	**177495**	**187197**
	(iv) Working Capital	60322	104269	112173
	(v) Capital Empl (iii+iv)	225388	281764	299370
6.	(i) Sales	123151	163510	197568
	(ii) Other income	23382	20740	15466
	TOTAL	146533	184250	213034
7.	(i) Total emoluments (incl. perks)	23000	27087	38403
	(ii) of which bonus	593	612	599
	(iii) Average Emol. per person	2.33	2.64	3.85
8.	Inventories	23406	21809	20034
9.	Gross profit (PBIT)	0	0	0
	(a) Gross Profit before intt. & Tax	**44434**	**65417**	**62341**
	(b) Adjusted gross profit	44514	66183	90468
10.	Net Profit	0	0	0
	(a) Net Profit after intt. & taxes	29160	40979	46736
	(b) Adjusted net profit	**29240**	**41745**	**74862**
11.	Dividends declared	7847	10700	14267
12.	Corporate Tax	12100	21400	13400
13.	% age of	0.00	0.00	0.00
	(a) NP to paid-up capital	204.39	287.23	218.39
	Adj. NP to paid-up capital	204.95	292.60	349.82
	(b) NP to NetWorth	**11.75**	**14.81**	**15.19**
	Adj. NP to Net Worth	11.78	15.09	24.33
	(c) GP to capital emp.	19.71	23.22	20.82
	Adj. GP to capital emp.	19.75	23.49	30.22
	(d) Sales to Capital Employed	54.64	58.03	65.99
	(e) GP to Sales	36.08	40.01	31.55
	Adj. G.P. to Sales	36.15	40.48	45.79
	(f) Loans/NetWorth Ratio	0.12	0.10	0.09

FINANCIAL STRUCTURE

XVI. 9. GAS AUTHORITY OF INDIA LIMITED

(Rs./Lakhs)

Particulars		1998-99	1999-00	2000-01
1.	Authorised Capital	100000	100000	100000
2.	(i) Paid up- Capital	84565	84565	84565
	(ii) Preference Capital	0	0	0
	(iii) Reserves & Surpluses	329973	387958	387958
3.	**Total loans (i+ii)**	**197749**	**237248**	**271089**
	(i) of which foreign	123050	148842	155824
	(ii) of which Cash credits & advances from banks & others	74699	88406	115265
4.	Net worth	413588	471511	546861
5.	(i) Gross Block	776877	852236	1003791
	(ii) Less Depreciation	247646	296762	356887
	(iii) Net fixed assets	**529231**	**555474**	**646904**
	(iv) Working Capital	-34840	10238	43774
	(v) Capital Empl (iii+iv)	494391	565712	690678
6.	(i) Sales	619311	771017	919745
	(ii) Other income	25104	14930	14198
	TOTAL	644415	785947	933943
7.	(i) Total emoluments (incl. perks)	7850	12738	14601
	(ii) of which bonus	0	0	0
	(iii) Average Emol. per person	1.11	3.93	4.47
8.	Inventories	22342	35257	38130
9.	Gross profit (PBIT)			
	(a) Gross Profit before Intt. & Tax	**132695**	**119468**	**177578**
	(b) Adjusted gross profit	131878	121745	178722
10.	Net Profit			
	(a) Net Profit after intt. & taxes	105992	86127	112617
	(b) Adjusted net profit	**104893**	**88065**	**116405**
11.	Dividends declared	29598	25370	33826
12.	Corporate Tax	17547	17000	42604
13.	% age of			
	(a) NP to paid-up capital	125.34	101.85	133.17
	Adj. NP to paid-up capital	124.04	104.14	137.65
	(b) NP to Net Worth	25.63	18.27	20.59
	Adj. NP to Net Worth	25.36	18.68	21.29
	(c) GP to capital emp.	26.84	21.12	25.71
	Adj. GP to Capital emp.	26.67	21.52	25.88
	(d) Sales to Capital Employed	125.27	136.29	133.17
	(e) GP to Sales	21.43	15.49	19.31
	Adj. GP to Sales	21.29	15.79	19.43
	(f) Loans/Net Worth Ratio	0.48	0.50	0.50

CONSOLIDATED FINANCIAL STRUCTURE

XVI. 10. REFINING & MARKETING

(RS./LAKHS)

	Particulars	1998-99	1999-00	2000-01
1.	Authorised Capital	334460	344460	360040
2.	(i) Paid-up Capital	102269	152521	172716
	(ii) Preference Capital	0	0	0
	(iii) Reserves & Surpluses	2209583	2483436	2465743
3.	**Total loans (i+ii)**	**1502316**	**2264196**	**3083442**
	(i) of which foreign	642598	910308	1080727
	(ii) of which Cash credits & advances from banks & others	859718	1353888	2002715
4.	Net worth	2309517	2627254	2890796
5.	(i) Gross Block	3181516	4340840	4943047
	(ii) Less Depreciation	1272624	1575840	1819854
	(iii) Net fixed assets	**1908892**	**2764999**	**3123193**
	(iv) Working Capital	400399	1227057	1764379
	(v) Capital Empl (iii+iv)	2309291	3992057	4887572
6.	(i) Sales	12230696	18128259	23565421
	(ii) Other income	177555	102534	216830
	TOTAL	12408251	18230793	23782251
7.	(i) Total emoluments (incl. perks)	150510	234876	335347
	(ii) of which bonus	5744	5754	5731
	(iii) Average Emol. per person	2.34	3.64	5.31
8.	Inventories	987536	2054508	1924421
9.	Gross profit (PBIT)			
	(a) Gross Profit before Intt. & Tax	**761221**	**731657**	**834729**
	(b) Adjusted gross profit	765004	730087	828562
10.	Net Profit			
	(a) Net Profit after intt. & taxes	445110	466545	492909
	(b) Adjusted net profit	**448027**	**464610**	**485350**
11.	Dividends declared	104076	125030	139241
12.	Corporate Tax	143181	110783	78177
13.	% age of			
	(a) NP to paid-up capital	435.23	305.89	285.39
	Adj. NP to paid-up capital	438.09	304.62	281.01
	(b) NP to Net Worth	**19.27**	**17.76**	**17.05**
	Adj. NP to Net Worth	19.40	17.68	16.79
	(c) GP to Capital empl.	32.96	18.33	17.08
	Adj. GP to capital empl.	33.13	18.29	16.95
	(d) Sales to Capital Employed	529.63	454.11	482.15
	(e) GP to Sales	6.22	4.04	3.54
	Adj. GP to Sales	6.25	4.03	3.52
	(f) Loans/Net Worth Ratio	0.65	0.86	1.07

FINANCIAL STRUCTURE

XVI. 11. INDIAN OIL CORPORATION LIMITED

(RS./LAKHS)

	Particulars	1998-99	1999-00	2000-01
1.	Authorised Capital	250000	250000	250000
2.	(i) Paid-up Capital	38931	77867	77867
	(ii) Preference Capital	0	0	0
	(iii) Reserves & Surpluses	1187951	1328608	1328608
3.	**Total loans (i+ii)**	**1004208**	**1471565**	**2063552**
	(i) of which foreign	642598	889693	1070736
	(ii) of which Cash credits & advances from banks & others	361610	581872	992816
4.	Net worth	1225725	1398498	1532235
5.	(i) Gross Block	1722597	2310664	2714446
	(ii) Less Depreciation	647970	843060	963431
	(iii) Net fixed assets	**1074627**	**1467604**	**1751015**
	(iv) Working Capital	158846	747850	1091881
	(v) Capital Empl (iii+iv)	1233473	2215454	2842896
6.	(i) Sales	6358067	9569917	11823812
	(ii) Other income	106726	54607	118484
	TOTAL	6464793	9624524	11942296
7.	(i) Total emoluments (incl. perks)	75893	124351	189813
	(ii) of which bonus	3804	3792	3792
	(iii) Average Emol. per person	2.26	3.65	5.88
8.	Inventories	561037	1111919	1017027
9.	Gross profit (PBIT)			
	(a) Gross Profit before Intt. & Tax	**393530**	**397661**	**463220**
	(b) Adjusted gross profit	394038	391004	455915
10.	Net Profit			
	(a) Net Profit after intt. & taxes	221352	244340	272033
	(b) Adjusted net profit	**221860**	**237683**	**264721**
11.	Dividends declared	50614	58401	73974
12.	Corporate Tax	51900	52720	24228
13.	% age of			
	(a) NP to paid-up capital	568.58	313.79	349.36
	Adj. NP to paid-up capital	569.88	305.24	339.98
	(b) NP to Net Worth	**18.06**	**17.47**	**17.75**
	Adj. NP to Net Worth	18.10	17.00	17.28
	(c) GP to capital emp.	31.90	17.95	16.29
	Adj. GP to capital emp.	31.95	17.65	16.04
	(d) Sales to Capital Employed	515.46	431.96	415.91
	(e) GP to Sales	6.19	4.16	3.92
	Adj. GP to Sales	6.20	4.09	3.86
	(f) Loans/Net Worth Ratio	0.82	1.05	1.35

FINANCIAL STRUCTURE

XVI. 12. BHARAT PETROLEUM CORPORATION LIMITED

(RS./LAKHS)

	PARTICULARS	1998-99	1999-00	2000-01
1.	Authorised Capital	20000	20000	30000
2.	(i) Paid-up Capital	15000	15000	30000
	(ii) Preference Capital	0	0	0
	(iii) Reserves & Surpluses	287181	334468	334468
3.	**Total Loans (i+ii)**	**166444**	**258975**	**415546**
	(i) of which foreign	0	0	0
	(ii) of which Cash credits & advances from banks & others	166444	258975	415546
4.	Net worth	302095	349383	407855
5.	(i) Gross Block	558197	713380	824117
	(ii) Less Depreciation	243414	303789	365714
	(iii) Net fixed assets	**314783**	**409591**	458403
	(iv) Working Capital	40253	103786	176483
	(v) Capital Emp. (iii+iv)	355036	513377	634886
6.	(i) Sales	2159977	3338468	4593207
	(ii) Other income	18011	14821	30034
	TOTAL	2177988	3353289	4623241
7.	(i) Total emoluments (incl. perks)	28244	42806	63545
	(ii) of which bonus	1437	1480	1501
	(iii) Average Emol. per person	2.30	3.39	5.02
8.	Inventories	136837	299159	331318
9.	Gross profit (PBIT)			
	(a) Gross Profit before Intt. & Tax	**115276**	**112227**	136868
	(b) Adjusted gross profit	115441	114046	137903
10.	Net Profit			
	(a) Net Proft after intt. & taxes	70603	70163	83266
	(b) Adjusted net profit	**70286**	**72203**	83047
11.	Dividends declared	18750	18750	22500
12.	Corporate Tax	27222	23522	28046
13.	% age of			
	(a) NP to paid-up capital	470.69	467.75	277.55
	Adj. NP to paid-up capital	468.57	481.35	276.82
	(b) NP to Net Worth	**23.37**	**20.08**	20.42
	Adj. NP to Net Worth	23.27	20.67	20.36
	(c) GP to capital emp.	32.47	21.86	21.56
	Adj. GP to capital emp.	32.52	22.21	21.72
	(d) Sales to Capital Employed	608.38	650.30	728.47
	(e) GP to Sales	5.34	3.36	2.98
	Adj GP to Sales	5.34	3.42	3.00
	(f) Loans/Net Worth Ratio	0.55	0.74	1.02

FINANCIAL STRUCTURE

XVI. 13. HINDUSTAN PETROLEUM CORPORATION LIMITED

(RS./LAKHS)

	Particulars	1998-99	1999-00	2000-01
1.	Authorised Capital	25000	35000	35000
2.	(i) Paid-up Capital	22559	33875	33877
	(ii) Preference Capital	0	0	0
	(iii) Reserves & Surpluses	481162	543294	543294
3.	**Total loans (i+ii)**	**139364**	**290149**	**356953**
	(i) of which foreign	0	0	0
	(ii) of which Cash credits & advances from banks & others	139364	290149	356953
4.	Net worth	503100	576999	648542
5.	(i) Gross Block	571036	843107	916667
	(ii) Less Depreciation	251596	280994	323970
	(iii) Net fixed assets	**319440**	**562113**	**592697**
	(iv) Working Capital	57073	199507	303725
	(v) Capital Empl (iii+iv)	376513	761620	896422
6.	(i) Sales	2391030	3383087	4856684
	(ii) Other income	28001	12808	46424
	TOTAL	2419031	3395895	4903108
7.	(i) Total emoluments (incl. perks)	27535	40132	52317
	(ii) of which bonus	0	0	0
	(iii) Average Emol. per person	2.45	3.46	4.53
8.	Inventories	157651	418379	387957
9.	Gross profit (PBIT)			
	(a) Gross Profit before Intt. & Tax	**139944**	**142397**	**170753**
	(b) Adjusted gross profit	141666	144761	172216
10.	Net Profit			
	(a) Net Profit after intt. & taxes	90126	105741	108801
	(b) Adjusted net profit	**91468**	**107518**	**110125**
11.	Dividends declared	24871	28498	33933
12.	Corporate Tax	37930	21616	23219
13.	% age of			
	(a) NP to paid-up capital	399.51	312.15	321.16
	Adj. NP to paid-up capital	405.46	317.40	325.07
	b) NP to Net Worth	**17.91**	**18.33**	**16.78**
	Adj. NP to Net Worth	18.18	18.63	16.98
	(c) GP to capital empl.	37.17	18.70	19.05
	Adj. GP to capital empl.	37.63	19.01	19.21
	(d) Sales to Capital Employed	635.05	444.20	541.79
	(e) GP to Sales	5.85	4.21	3.52
	Adj. GP to Sales	5.92	4.28	3.55
	(f) Loans/Net Worth Ratio	0.28	0.50	0.55

FINANCIAL STRUCTURE

XVI. 14. KOCHI REFINERIES LIMITED
(Formerly Cochin Refineries Ltd.)

(RS./LAKHS)

Particular		1998-99	1999-00	2000-01
1.	Authorised Capital	7500	7500	7500
2.	(i) Paid-up Capital	6894	6894	13817
	(ii) Preference Capital	0	0	0
	(iii) Reserves & Surpluses	110442	120973	120973
3.	**Total loans (i+ii)**	**43477**	**80739**	**88059**
	(i) of which foreign	0	0	0
	(ii) of which Cash credits & advances from banks & others	43477	80739	88059
4.	Net worth	117335	127866	136163
5.	(i) Gross Block	113801	190475	199919
	(ii) Less Depreciation	43459	49696	60129
	(iii) Net fixed assets	**70342**	**140779**	**139790**
	(iv) Working Capital	41830	54709	70219
	(v) Capital Empl (iii+iv)	112172	195488	210009
6.	(i) Sales	417091	576833	713575
	(ii) Other income	9562	9970	10951
	TOTAL	426653	586803	724526
7.	(i) Total emoluments (incl. perks)	3459	5560	5579
	(ii) of which bonus	0	0	0
	(iii) Average Emol. per person	1.90	3.15	2.93
8.	Inventories	44599	86832	60640
9.	Gross profit (PBIT)			
	(a) Gross Profit before Intt. & Tax	**54658**	**32249**	**21238**
	(b) Adjusted gross profit	55654	32637	21609
10.	Net Profit			
	(a) Net Profit after intt. & taxes	33823	23521	10946
	(b) Adjusted net profit	**34819**	**23909**	**11316**
11.	Dividends declared	2482	11443	2902
12.	Corporate Tax	15800	4850	-700
13.	% age of			
	(a) NP to paid-up capital	490.62	341.18	79.22
	Adj. NP to paid-up capital	505.06	346.81	81.90
	(b) NP to Net Worth	**28.83**	**18.40**	**8.04**
	Adj. NP to Net Worth	29.67	18.70	8.31
	(c) GP to capital empl.	48.73	16.50	10.11
	Adj. GP to capital empl.	49.61	16.70	10.29
	(d) Sales to Capital Employed	371.83	295.07	339.78
	(e) GP to Sales	13.10	5.59	2.98
	Adj. GP to Sales	13.34	5.66	3.03
	(f) Loans/Net Worth Ratio	0.37	0.63	0.65

FINANCIAL STRUCTURE

XVI. 15. IBP CO. LIMITED

(RS./LAKHS)

	Particulars	1998-99	1999-00	2000-01
1.	Authorised Capital	10000	10000	10000
2.	i) Paid-up Capital	2215	2215	2215
	ii) Preference Capital	0	0	0
	iii) Reserves & Surpluses	28782	31710	31710
3.	**Total loans (i+ii)**	**55500**	**62182**	**44086**
	i) of which foreign	0	0	0
	ii) of which Cash credits & advances from banks & others	55500	62182	44086
4.	Net worth	30527	33455	36438
5.	i) Gross Block	48621	61744	76021
	ii) Less Depreciation	8194	11223	14346
	iii) Net fixed assets	**40427**	**50521**	**61675**
	iv) Working Capital	12473	17957	10700
	v) Capital Empl (iii+iv)	52900	68478	72375
6.	i) Sales	486512	662974	861981
	ii) Other income	4880	5312	5173
	TOTAL	491392	668286	867154
7.	i) Total emoluments (incl. perks)	6380	9238	11392
	ii) of which bonus	287	287	287
	iii) Average Emol. per person	2.38	3.50	4.34
8.	Inventories	15808	33148	41642
9.	Gross profit (PBIT)			
	a) Gross Profit before Intt. & Tax	**10828**	**12407**	**14378**
	b) Adjusted gross profit	10862	12215	14473
10.	Net Profit			
	a) Net Profit after intt. & taxes	3523	4171	5422
	b) Adjusted net profit	**3552**	**3979**	**5517**
11.	Dividends declared	952	1019	2215
12.	Corporate Tax	611	600	700
13.	% age of			
	a) NP to paid-up capital	159.05	188.31	244.79
	Adj. NP to paid-up capital	160.36	179.64	249.07
	b) NP to Net Worth	**11.54**	**12.47**	**14.88**
	Adj. NP to Net Worth	11.64	11.89	15.14
	c) GP to capital empl.	20.47	18.12	19.87
	Adj. GP to capital empl.	20.53	17.84	20.00
	d) Sales to Capital Employed	919.68	968.16	1190.99
	e) GP to Sales	2.23	1.87	1.67
	Adj. GP to Sales	2.23	1.84	1.68
	f) Loans/Net Worth Ratio	1.82	1.86	1.21

FINANCIAL STRUCTURE

XVI. 16. CHENNAI PETROLEUM CORPORATION LIMITED
(Formerly Madras Refineries Ltd.)

(RS./LAKHS)

	Particulars	1998-99	1999-00	2000-01
1.	Authorised Capital	20000	20000	20000
2.	(i) Paid-up Capital	14710	14710	14900
	(ii) Preference Capital	0	0	0
	(iii) Reserves & Surpluses	91576	100456	100456
3.	Total loans (i+ii)	92888	100586	115246
	(i) of which foreign	0	20615	9991
	(ii) of which Cash credits & advances from banks & others	92888	79970	105255
4.	Net worth	106286	115166	123411
5.	(i) Gross Block	149211	202261	205603
	(ii) Less Depreciation	70187	78334	88543
	(iii) Net fixed assets	79024	123927	117060
	(iv) Working Capital	75818	88257	107962
	(v) Capital Empl (iii+iv)	154842	212183	225022
6.	(i) Sales	374660	552069	713262
	(ii) Other income	9927	3876	3072
	TOTAL	384587	555945	716334
7.	(i) Total emoluments (incl. perks)	5196	7446	9467
	(ii) of which bonus	144	128	151
	(iii) Average Emol. per person	2.97	4.22	6.00
8.	Inventories	63703	96357	85818
9.	Gross profit (PBIT)			
	(a) Gross Profit before Intt. & Tax	38765	27767	27890
	(b) Adjusted gross profit	39071	28402	26064
10.	Net Profit			
	(a) Net Profit after intt. & taxes	20493	14314	12243
	(b) Adjusted net profit	20799	14949	10418
11.	Dividends declared	5149	4413	3705
12.	Corporate Tax	7071	4854	2500
13.	%age of			
	(a) NP to paid-up capital	139.31	97.31	82.17
	Adj. NP to paid-up capital	141.39	101.63	69.92
	(b) NP to Net Worth	19.28	12.43	9.92
	Adj. NP to Net Worth	19.57	12.98	8.44
	(c) GP to capital empl.	25.04	13.09	12.39
	Adj. GP to capital empl.	25.23	13.39	11.58
	(d) Sales to Capital Employed	241.96	260.18	316.97
	(e) GP to Sales	10.35	5.03	3.91
	Adj. GP to Sales	10.43	5.14	3.65
	(f) Loans/Net Worth Ratio	0.87	0.87	0.93

FINANCIAL STRUCTURE

XVI. 17. LUBRIZOL INDIA LIMITED

(RS./LAKHS)

	Particulars	1998-99	1999-00	2000-01$
1.	Authorised Capital	1920	1920	
2.	(i) Paid-up Capital	1920	1920	
	(ii) Preference Capital	0	0	
	(iii) Reserves & Surpluses	16878	17693	
3.	**Total loans (i+ii)**	**435**	**0**	
	(i) of which foreign	0	0	
	(ii) of which Cash credits & advances from banks & others	435	0	
4.	Net worth	18798	19613	
5.	(i) Gross Block	12878	13306	
	(ii) Less Depreciation	4897	5453	
	(iii) Net fixed assets	**7981**	**7853**	
	(iv) Working Capital	11159	11596	
	(v) Capital Empl. (iii+iv)	19140	19449	
6.	(i) Sales	39236	41206	
	(ii) Other income	174	466	
	TOTAL	39410	41672	
7.	(i) Total emoluments (incl. perks)	2297	3300	
	(ii) of which bonus	1	0	
	(iii) Average Emol. per person	3.24	4.76	
8.	Inventories	7874	8697	
9.	Gross profit (PBIT)			
	(a) Gross Profit before Intt. & Tax	**6573**	**5881**	
	(b) Adjusted gross profit	6625	5953	
10.	Net Profit			
	(a) Net Profit after intt. & taxes	4124	3661	
	(b) Adjusted net profit	**4176**	**3733**	
11.	Dividends declared	1248	2496	
12.	Corporate Tax	2066	2197	
13.	%age of			
	(a) NP to paid-up capital	214.79	190.68	
	Adj. NP to paid-up capital	217.50	194.43	
	(b) NP to Net Worth	**21.94**	**18.67**	
	Adj. NP to Net Worth	22.22	19.03	
	(c) GP to capital empl.	34.34	30.24	
	Adj. GP to capital empl.	34.61	30.61	
	(d) Sales to Capital Employed	204.99	211.87	
	(e) GP to Sales	16.75	14.27	
	Adj. GP to Sales	16.89	14.45	
	(f) Loans/Net Worth Ratio	0.02	0.00	

$: With the disinvestment of the Government of India share Lubrizol India Limited is not a public sector undertaking from the year 2000-01.

FINANCIAL STRUCTURE

XVI. 18. INDIAN OIL BLENDING LIMITED

(RS./LAKHS)

Particulars	1998-99	1999-00	2000-01
1. Authorised Capital	40	40	40
2. (i) Paid-up Capital	40	40	40
(ii) Preference Capital	0	0	0
(iii) Reserves & Surpluses	5611	6234	6234
3. Total loans (i+ii)	0	0	0
(i) of which foreign	0	0	0
(ii) of which Cash credits & advances from banks & others	0	0	0
4. Net worth	5651	6274	6152
5. (i) Gross Block	5175	5903	6274
(ii) Less Depreciation	2907	3291	3721
(iii) Net fixed assets	2268	2612	2553
(iv) Working Capital	2947	3395	3409
(v) Capital Empl. (iii+iv)	5215	6007	5962
6. (i) Sales	4123	3705	2900
(ii) Other income	274	665	2692
TOTAL	4397	4370	5592
7. (i) Total emoluments (incl. perks)	1506	2043	3234
(ii) of which bonus	71	67	0
(iii) Average Emol. per person	2.49	3.57	6.35
8. Inventories	20	17	19
9. Gross profit (PBIT)			
(a) Gross Profit before Intt. & Tax	1647	1068	382
(b) Adjusted gross profit	1648	1068	382
10. Net Profit			
(a) Net Profit after intt. & taxes	1066	633	198
(b) Adjusted net profit	1067	634	198
11. Dividends declared	10	10	12
12. Corporate Tax	581	424	184
13. % age c.			
(a) NP to paid-up capital	2665.00	1582.50	495.00
Adj. NP to paid-up capital	2667.50	1585.00	495.00
(b) NP to Net Worth	18.86	10.09	3.22
Adj. NP to Net Worth	18.88	10.11	3.22
(c) GP to capital empl.	31.58	17.78	6.41
Adj. GP to capital empl.	31.60	17.78	6.41
(d) Sales to Capital Employed	79.06	61.68	48.64
(e) GP to Sales	39.95	28.83	13.17
Adj. GP to Sales	39.97	28.83	13.17
(f) Loans/Net Worth Ratio	0.00	0.00	0.00

PETRO CHEMICALS FINANCIAL STRUCTURE

XVI.19. BONGAIGAON REFINERY & PETROCHEMICALS LIMITED

(RS./LAKHS)

Particulars	1998-99	1999-00	2000-01
1. Authorised Capital	20000	20000	20000
2. (i) Paid-up Capital	19982	19982	19982
(ii) Preference Capital	0	0	0
(iii) Reserves & Surpluses	39757	41802	41802
3. Total loans (i+ii)	**6176**	**5242**	8514
(i) of which foreign	0	0	0
(ii) of which Cash credits & advances from banks & others	6176	5242	8514
4. Net worth	59704	61752	55587
5. (i) Gross Block	74050	74250	78671
(ii) Less Depreciation	37554	40158	43006
(iii) Net fixed assets	**36496**	**34092**	**35665**
(iv) Working Capital	18332	18852	16395
(v) Capital Empl. (iii+iv)	54828	52944	52060
6. (i) Sales	93936	129152	125530
(ii) Other income	3166	2228	3189
TOTAL	97102	131380	128719
7. (i) Total emoluments (incl. perks)	4790	6313	7650
(ii) of which bonus	0	0	0
(iii) Average Emol. per person	2.60	3.42	4.18
8. Inventories	16711	24229	29505
9. Gross profit (PBIT)			
(a) Gross Profit before Intt. & Tax	**4365**	**4072**	**-4596**
(b) Adjusted gross profit	4469	4159	-4581
10. Net Profit			
(a) Net Profit after intt. & taxes	3426	3224	-5744
(b) Adjusted net profit	**3530**	**3523**	-5729
11. Dividends declared	1028	967	0
12. Corporate Tax	0	0	0
13. % age of			
(a) NP to paid-up capital	17.15	16.13	-28.75
Adj. NP to paid-up capital	17.67	17.63	-28.67
(b) NP to Net Worth	**5.74**	**5.22**	-10.33
Adj. NP to Net Worth	5.91	5.71	-10.31
(c) GP to Capital empl.	7.96	7.69	-8.83
Adj. GP to capital empl.	8.15	7.86	-8.80
(d) Sales to Capital Employed	171.33	243.94	241.13
(e) GP to Sales	4.65	3.15	-3.66
Adj. GP to Sales	4.76	3.22	-3.65
(f) Loans/Net Worth Ratio	0.10	0.08	0.15

CONSOLIDATED FINANCIAL STRUCTURE

XVI. 20. ENGINEERING SERVICES & OTHER UNITS

(RS./LAKHS)

Particulars	1998-99	1999-00	2000-01
1. Authorised Capital	13000	18000	18000
2. i) Paid-up Capital	7701	11445	11445
ii) Preference Capital	0	0	0
iii) Reserves & Surpluses	67463	72966	72966
3. Total loans (i+ii)	**24470**	**25237**	**23275**
i) of which foreign	0	0	0
ii) of which Cash credits & advances from banks & others	24470	25237	23275
4. Net worth	70825	80075	87922
5. i) Gross Block	27938	34448	38161
ii) Less Depreciation	10594	11325	13042
iii) Net fixed assets	**17344**	**23123**	**25119**
iv) Working Capital	44722	51195	58040
v) Capital Empl (iii+iv)	62066	74318	83159
6. i) Sales	105891	121515	178048
ii) Other income	11736	10819	9679
TOTAL	117627	132334	187727
7. i) Total emoluments (incl. perks)	23906	29067	31860
ii) of which bonus	28	16	7
iii) Average Emol. per person	3.18	3.99	5.10
8. Inventories	10216	27821	8406
9. Gross profit (PBIT)			
a) Gross Profit before Intt. & Tax	**23656**	**23695**	**22877**
b) Adjusted gross profit	24596	25021	24083
10. Net Profit			
a) Net Profit after intt. & taxes	13534	14473	12302
b) Adjusted net profit	**13455**	**13975**	**11941**
11. Dividends declared	3297	3962	4007
12. Corporate Tax	7172	6901	7283
13. % age of			
a) NP to paid-up capital	175.74	126.45	107.49
Adj. NP to paid-up capital	174.72	122.11	104.33
b) NP to Net Worth	**19.11**	**18.07**	13.99
Adj. NP to Net Worth	19.00	17.45	13.58
c) GP to Capital empl.	38.11	31.88	27.51
Adj. GP to capital emp.	39.63	33.67	28.96
d) Sales to Capital Employed	170.61	163.51	214.11
e) GP to Sales	22.34	19.50	12.85
Adj. GP to Sales	23.23	20.59	13.53
f) Loans/Net Worth Ratio	0.35	0.32	0.26

FINANCIAL STRUCTURE

XVI. 21. ENGINEERS INDIA LIMITED

(RS./LAKHS)

Particulars	1998-99	1999-00	2000-01
1. Authorised Capital	5000	10000	10000
2. i) Paid-up Capital	1872	5616	5616
ii) Preference Capital	0	0	0
iii) Reserves & Surpluses	52918	57459	57459
3. Total loans (i+ii)	**0**	**0**	**0**
i) of which foreign	0	0	0
ii) of which Cash credits & advances from banks & others	0	0	0
4. Net worth	54590	62874	71313
5. i) Gross Block	10081	10455	11536
ii) Less Depreciation	5330	5240	5956
iii) Net fixed assets	**4751**	**5215**	5580
iv) Working Capital	29120	36929	46703
v) Capital Empl (iii+iv)	33871	42144	52283
6. i) Sales	37667	44414	97282
ii) Other income	6997	7765	7129
TOTAL	44664	52179	104411
7. i) Total emoluments (incl. perks)	17989	21750	25103
ii) of which bonus	7	7	2
iii) Average Emol. per person	4.83	5.76	6.96
8. Inventories	3083	20232	1707
9. Gross profit (PBIT)			
a) Gross Profit before Intt. & Tax	**18778**	**19321**	19568
b) Adjusted gross profit	18818	20158	19871
10. Net Profit			
a) Net Profit after intt. & taxes	11806	13023	12568
b) Adjusted net profit	**11806**	**12620**	12385
11. Dividends declared	2808	3555	3763
12. Corporate Tax	6972	6701	7183
13. % age of			
a) NP to paid-up capital	630.66	231.89	223.79
Adj. NP to paid-up capital	630.66	224.72	220.53
b) NP to Net Worth	**21.63**	**20.71**	17.62
Adj. NP to Net Worth	21.63	20.07	17.37
c) GP to capital empl.	55.44	45.85	37.43
Adj. GP to capital empl.	55.56	47.83	38.01
d) Sales to Capital Employed	111.21	105.39	186.07
e) GP to Sales	49.85	43.50	20.11
Adj. GP to Sales	49.96	45.39	20.43
f) Loans/Net Worth Ratio	0.00	0.00	0.00

FINANCIAL STRUCTURE

XVI. 22. BALMER LAWRIE & CO. LIMITED

(RS./LAKHS)

Particulars	1998-99	1999-00	2000-01
1. Authorised Capital	3000	3000	3000
2. i) Paid-up Capital	1629	1629	1629
ii) Preference Capital	0	0	0
iii) Reserves & Surpluses	14514	15476	15476
3. Total loans (i+ii)	**22798**	**23339**	20850
i) of which foreign	0	0	0
ii) of which Cash credits & advances from banks & others	22798	23339	20850
4. Net worth	15417	16379	16711
5. i) Gross Block	16491	22466	25069
ii) Less Depreciation	4765	5512	6441
iii) Net fixed assets	**11726**	**16954**	18628
iv) Working Capital	14002	12480	9697
v) Capital Empl (iii+iv)	25728	29434	28325
6. i) Sales	61055	69396	74418
ii) Other income	4726	2914	2538
TOTAL	65781	72310	76956
7. i) Total emoluments (incl. perks)	4942	6307	5708
ii) of which bonus	11	8	4
iii) Average Emol. per person	1.82	2.92	3.00
8. Inventories	6407	6610	6088
9. Gross profit (PBIT)			
a) Gross Profit before Intt. & Tax	**4724**	**4162**	3882
b) Adjusted gross profit	5611	4676	4784
10. Net Profit			
a) Net Profit after intt. & taxes	1683	1432	601
b) Adjusted net profit	**1592**	**1363**	**422**
11. Dividends declared	489	407	244
12. Corporate Tax	200	200	100
13. % age of			
a) NP to paid-up capital	103.31	87.89	36.89
Adj. NP to paid-up capital	97.73	83.67	25.91
b) NP to Net Worth	**10.92**	**8.74**	3.60
Adj. NP to Net Worth	10.33	8.32	2.53
c) GP to capital empl.	18.36	14.14	13.71
Adj. GP to capital empl.	21.81	15.88	16.89
d) Sales to Capital Employed	237.31	235.77	262.73
e) GP to Sales	7.74	6.00	5.22
Adj. GP to Sales	9.19	6.74	6.43
f) Loans/Net Worth Ratio	1.48	1.42	1.25

FINANCIAL STRUCTURE

XVI. 23. BIECCO LAWRIE LIMITED

(Rs./Lakhs)

Particulars	1998-99	1999-00	2000-01
1. Authorised Capital	5000	5000	5000
2. (i) Paid-Up Capital	4200	4200	4200
(ii) Preference Capital	0	0	0
(iii) Reserves & Surpluses	31	31	31
3. Total loans (i+ii)	**1672**	**1898**	2425
(i) of which foreign	0	0	0
(ii) of which Cash credits & advances from banks & others	1672	1898	2425
4. Net worth	818	822	-102
5. (i) Gross Block	1366	1527	1556
(ii) Less Depreciation	499	573	645
(iii) Net fixed assets	**867**	**954**	911
(iv) Working Capital	1600	1786	1640
(v) Capital Empl(iii+iv)	2467	2740	2551
6. (i) Sales	7169	7705	6348
(ii) Other income	13	140	12
TOTAL	7182	7845	6360
7. (i) Total emoluments (incl. perks)	975	1010	1049
(ii) of which bonus	10	1	1
(iii) Average Emol. per person	1.16	1.26	1.42
8. Inventories	726	979	611
9. Gross Profit (PBIT)			
(a) Gross Profit before intt. & tax	**154**	**212**	-573
(b) Adjusted gross Profit	167	187	-572
10. Net Profit			
(a) Net Profit after intt. & taxes	45	18	-867
(b) Adjusted net profit	**57**	**-8**	-866
11. Dividends declared	0	0	0
12. Corporate Tax	0	0	0
13. % age of			
(a) NP to paid-up capital	1.07	0.43	-20.64
Adj. NP to paid-up capital	1.36	-0.19	-20.62
(b) NP to Net Worth	**5.50**	**2.19**	846.51
Adj. NP to Net Worth	6.97	-0.97	845.54
(c) GP to capital empl.	6.24	7.74	-22.46
Adj. GP to capital empl.	6.77	6.82	-22.42
(d) Sales to Capital Employed	290.60	281.20	248.84
(e) GP to Sales	2.15	2.75	-9.03
Adj. GP to Sales	2.33	2.43	-9.01
(f) Loans/Net Worth Ratio	2.04	2.31	-23.68

APPENDIX

ABBREVIATIONS

(I) COMPANIES/ORGANISATIONS

AOC	:	Assam Oil Company.
AOD	:	Assam Oil Division.
BPCL	:	Bharat Petroleum Corporation Limited.
BRPL	:	Bongaigaon Refinery & Petrochemicals Limited.
B/Shell	:	Burmah Shell Oil Storage & Distributing Co. Ltd.
BSR	:	Burmah Shell Refineries Ltd.
Caltex/CIL	:	Caltex (India) Limited.
CORIL	:	Caltex Oil Refining (India) Limited.
KRL	:	Kochi 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.
CASTROL	:	Castrol 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.
CPCL	:	Chennai Petroleum Corporation Limited.
POCL	:	Petrosil Oil Company Limited.
OIL	:	Oil India Limited.
ONGC	:	Oil & Natural Gas Commission/Corporation Ltd.
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.
EME	:	Emerging Market Economcies.

(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/IOMEX, HSDO, LDO/MLO and JBO, Mineral Turpentine Oils, Chemisperse & LABFS.

(III) PREFIXES USED IN METRIC TABLES

Prefix	:	Meaning
Milli	:	One Thousandth (1/1000=0.001)
Centi	:	One Hundredth (1/100=0.01).
Deci	:	One Tenth (1/10=0.1).
Unit	:	One (1).
Deka	:	Ten (10)
Hecto	:	One Hundred (100)
Kilo	:	One Thousand (1,000).
Mega	:	One Million (1,000,000)

(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 Vicosity.
HVI	:	High Viscosity Index
KL	:	Kilolitre
LR I	:	Large Range I (45,000-79,999 dwt).
LR II	:	Large Range II (80,000-159,999 dwt).
LVI	:	Medium Range (25,000-49,999 dwt).
MT	:	Metric Ton.
MTPA	:	Million Tonnes Per Annum.
MV	:	Medium Viscosity.
MVI	:	Medium Viscosity Index.
R&D	:	Research & Development.
ULCC	:	Ultra Large Crude Carrier (320,000-549,999 dwt).
VLCC	:	Very Large Crude Carrier (160,000 dwt and more).
NA	:	Not available.
—	:	Nil
Neg		Negligible
Billion	:	10^9 or one thousand Million.
Trillion	:	10^{12} or one million million.
P	:	Provisional.
LOI	:	letter of Intent
MMSCMD	:	Million Standard Cubic Metres Per Day
CNG	:	Compressed Natural Gas
MOU	:	Memorandum of Understanding

METRIC UNITS

LINEAR

10 Milimeters	—	1 Centimetre.
10 Centimetres	—	1 Decimetre
10 Decimetres	—	1 Metre
10 Metres	—	1 Decametre
10 Decametres	—	1 Hectometre
10 Hectometres	—	1 Kilometre
100sq. Milimetres	—	1 Sq. Centimetre
100 Sq. Centimetres	—	1 Sq. Metre
100 Sq. Decimetre	—	1 Decimetre
100 Sq. Metres	—	1 Sq. Decametre-1 Acre.
100 Sq. Acres	—	1 Sq. Hectometre-Hectare.
100 Hectares	—	1 Sq. Kilometre.

WEIGHT

10 Miligrams	—	1 Centigram
10 Centrigrams	—	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 Milimetres	—	1 Centilitre
10 Centilitres	—	1 Decilitre.
10 Decilitres	—	1 Litre
10 Litres	—	1 Decalitre
10 Decilitre	—	1 Hectolitre
10 Hectolitres	—	1 Kilolitre

VOLUME

1000 Cubic Milimetres	—	1 Cubic Centimetre
1000 Cubic Centimetres	—	1 Cubic Decimetre.
1000 Cubic Decimetres	—	1 Cubic Metre.

CONVERSION FACTORS USED IN THE OIL TRADE LINER AND SQUARE MEASURES

LENGTH

1 Inch	—	25.4 Milimetres (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
	—	1.09731 Yards
	—	0.001 Kilometre (km.)
1 Kilometre	—	1000 Metre (m)
	—	0.621371 Mile
1 Mile	—	1760 Yard
	—	1,60934 Kilometre (km.)
1 International Nautical Mile	—	6076.12 Feet.
	—	1.852 Kilometres (km)
	—	1.5152 Statute mile

AREA

1 Square Inch	—	645.16 Square Milimetres (mm2).
1 Square Foot	—	0.0929030 Square Metre (m2).
1 Square Yard	—	9 Square Feet.
1 Square Metre	—	0.836127 Squae Metre (m2).
	—	10,7639 Square Feet.
	—	1.19599 Square Yards.
1 Acre	—	4840 Square Yards
	—	4046.86 Sq. Metres (m2)
	—	0.404686 Hectares.
1 Hectare	—	10,000 Square Metre (km2).
	—	2,47105 Acres.
	—	0.01 Square Kilometre ($Km^{2)}$
1 Square Kilometre	—	100 Hectares.
	—	0.386102 Square Mile.
91 Square Mile	—	640 Acres.
	—	258.999 Hectares
	—	2.58999 Square Kilometres (km2).

MASS AND 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.
	—	0.892857 Long Ton
	—	0.97185 Tonnes
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 Thermis
	—	25200 Kilocalories
1 Metric Horsepower	—	735.499 watts (W).
(Pferdestaeorke or Cheval Vapeur)	—	542.476 Foot Pounds Force/Second.
	—	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 Decimeter (dm 3)
	—	0.264172 American Gallons.
	—	0.219963 Imperial Gallons.
	—	0.0353147 Cubic Foot.
1 Hectolitre	—	100 Cubic Decimetres (dm 3) 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 Barrle.
	—	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 1000 Litres.
	—	6.28981 American Barrels.
1 Gross Ton (Shipping)	—	2.83168 Cubic Metres or 100 Cubic
	—	Feet or Permanently Emclosed Space.
1 Ton of Liquified	—	Approx. 16 Barrels.
Methane Upon	—	Approx. 1400 Cubic Metres of Natural Gas Depending Methane Content

PRODUCT CONVERSION FACTOR
(Conversion Factor From Volume to Tonnes At Natural Temp.)

Product	Litres to Metric Tonnes	Tonnes per K.L.	American Barrels to Metric Tonnes
1	2	3	4
Aviation Spirit 100/130	1421	0.7034	8.94
Aviation Spirit	1449	0.6901	9.11
Aviation Spirit 73 ON	1432	0.6983	9.01
Motor Spirit 79 ON	1427	0.7008	8.98
Motor Spirit 80 ON	1427	0.7008	8.98
Motor Spirit 93 ON	1386	0.7215	8.72
Motor 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 Fuel	1288	0.7764	8.10
Naphtha	1467	0.6817	9.23
Power Alcochol	1286	0.7776	8.09
Benzol	1154	0.8666	7.26
SBP/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	9.08
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 Speed Diesel	1172	0.8532	7.37
Malaria 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
Deminerralised 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 Alky Benzen Feed Stock	1205	0.8239	7.88

Volume per Metric Ton of Petroleum Products

Products	Kilolitre	Imperial Gallon	U.S. Gallon	Barrel
Liquified Petroleum 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	1.111	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.	High Speed Diesel Oil	0.9879
8.	Kerosene	0.9964
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.	Haxane	0.9806

PETROLEUM SPECIFIC GRAVITIES

Degree 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 degree C or 60 degree F.

PRODUCT SPECIFIC GRAVITY RANGES

Products	Specific Gracity	Barrels Per tonnes
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 Oil	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
Asphal Bitumens	1.00-1.10	6.4-5.8

CRUDE OIL CONVERSIONS@

To convert these into	Metric Tons	Barrels	Kilo liters	1,000 Imp. Gallon	1,000 U.S. Gallon
Metric	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	3.252	3.8	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

PRODUCT	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	40870
	United Nations	10,175	40375
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 Equivalence:**		
	Average Hard Coal (b)	7.000	27,775
D.	**INDIA:**		
	Hard Coal	5,000	19,840
	Lignite-Brown Coal	2,310	9,16
	Firewood@	4,750	18,848
	Charcoal@	6,900	27,379
E.	**Natural Gas- Production: (Average) India**		
	K cals/Cu. Metre	89,00-9480	
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 1kwh of electricty.

(b) Represents K cals of hydro-carbon energies required to produce 1 kwh 01 electricity I as per Report of Fuel Policy Committee 1974
Conversion Factor: 1 K cal=14.19 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.	**OTHER HYDROCARBONS**			
1.	Petroleum Crude	1.454		
2.	Natural Gas Liquids (wt.av.)	1.542		
3.	Gasolines	1.500		
4.	Kerosene & Jet Fuel	1.474		
5.	Gas-Diesel Oil	1450		
6.	Residuel Fuel Oil	1416		
7.	Liquified Petroleum Gases	1554		
8.	Natural Gasoline	1532		
9.	Condensate	1512		
10.	Other Natural Gas Liquids	1512		
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 in measured in Kcal/m3 (st.) i.e., in Kcal percubic metre of gas understandard condition of 15° C, 013.25 mbar, dry.

COAL REPLACEMENT AND EQUIVALENTS OF DIFERENT FUELS

Fuels Unit	Original of coal	Unit of coal Equivalent (mtce)	Unit of coal Replacement (mtcr)
1	2	3	4
Coal cooking 6640 K cal/Kg.,			
Non-cooking coal Used in steam Generation (5000 Kcal/kg.)	1mt	1.0	1.0
Hard Coke	1mt	1.3	1.3
Soft Coke	1mt	1.5	1.3
Firewood (4750 Kcal/Kg)	1mt	0.95	0.95
Char Coal (6900 Kcal/Kg)	1mt	1.0	1.0
2. Oil Products:			
Black Products (i.e. Fuel Oil., F.O. Refinery Fuel, LSHS, HHS).	1mt	2.0	2.0
Kerosene & LPG	1mt	2.0	2.0
HSDO & LDO	1mt	2.0	9.0
Motor Spirit & Jet Fuel	1mt	2.0	7.5
Natural Gas (9000K cal/Kg.)	109*m3	1.8	3.6
Electricity	109 kwh	1.0	1.0

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

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

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

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

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

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

Exchange Rate

1971-2000 and 1971-72 to 2000-01

0.670.67(Rs. per U.S. Dollar)

Year	Calender 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
1975	7.821	8.053	8.716	8.913	8.376	1975.76	8.65325
1980	7.993	7.921	7.747	7.791	7.863	1980-81	7.89278
1985	12.838	12.498	12.048	12.091	12.369	1985-86	12.23725
1990	17.029	17.344	17.554	18.087	17.504	1990-91	17.94850
1991	18.309	20.526	25.757	25.878	22.742	1991-92	24.51125
1992	25.914	25.890	25.890	25.979	25.918	1992-93	27.55250
1993	27.887	31.345	31.371	31.370	30.493	1993-94	31.36425
1994	31.371	31.310	31.371	31.388	31.375	1994-95	31.40
1995	31.401	31.411	32.045	34.745	32.401	1995-96	33.45
1996	34.649	34.743	35.643	35.740	35.193	1996-97	35.50
1997	35.811	35.813	36.029	37.560	36.321	1997-98	37.16
1998	39.257	40.790	42.596	42.358	41.250	1998-99	42.07
1999	42.50	42.877	43.426	43.544	43.084	1999-00	43.33
2000	43.58	44.10	45.78	46.62	45.02	2000-01	45.77

Notes: (1) A new value of the Indian Re. of 7.50 U.S. Dollar was agreed upon with the Fund effective June 6, 1966. Previously the year value was 4.7619 rupees per U.S. Dollar from September 22, 1949 to June, 5, 1966 and 3,30852 rupees per U.S. Dollar from December 18, 1946 to September 21, 1949.

(2) Exchange rate for the year 1970 and 1971 are based on Trade conversion Factores.

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

Source: International Financial Statistics, Economic Survey