

INDIAN PETROLEUM & NATURAL GAS STATISTICS

2007-08

GOVERNMENT OF INDIA
MINISTRY OF PETROLEUM & NATURAL GAS
ECONOMIC DIVISION

GOVERNMENT OF INDIA

MINISTRY OF PETROLEUM & NATURAL GAS

FOREWORD

The Ministry of Petroleum & Natural Gas has been publishing since 1967 its annual bulletin "***Indian Petroleum & Natural Gas Statistics***" containing comprehensive information on the Oil & Gas Sector. The latest bulletin provides information in terms of both calendar year (2007) and financial year (2007-08), to address the demands of the diverse users. It also includes a brief write-up on growth in production performance of Petroleum & Natural Gas sector-Some Key Macro-Economic Trends during 2007-08 and also new initiatives taken to increase production performance during the year.

The bulletin denotes the sustained efforts of the Economic Division of the Ministry.

We welcome suggestions to improve the bulletin.

(R.S.Pandey)
Secretary to the Government of India

Shastri Bhawan
New Delhi-110001
May, 2009

MINISTRY OF PETROLEUM & NATURAL GAS

ECONOMIC DIVISION

PREFACE

The Economic Division of the Ministry of Petroleum & Natural Gas has conscientiously endeavoured to bring out its annual bulletin "***Indian Petroleum & Natural Gas Statistics***" from 1967. This has been made possible with inputs furnished by various Ministries and Departments of the Government of India, Petroleum Planning & Analysis Cell 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 XI Plan figures), Part-IV focuses on financial performance of the oil companies and Part-V pertains to time series data on energy.

We express our deep sense of gratitude to all the data providers to the Ministry and record our appreciation for the efforts put in by the officials of the Economic Division viz., Shri Sukhvir Singh, Joint Director, Shri D.P.Singh, Research Officer, Shri S.S Chahal, Senior Investigator, Ms. Kanwaljit Kaur, Jr. Investigator and Mrs. Rajeshwari, Assistant.

Suggestions for its improvement would be duly appreciated.

Archana Suhag

(Dr. Archana S Mathur)
Economic Adviser

Paryavaran Bhawan
New Delhi-110003
May, 2009

CONTENTS

S.No.	SUBJECT	PAGE NO.
1.	Scope & Coverage of Data Published	1
2.	Indian Economy-Selected Indicators	2
3.	Trends in Indian Petroleum Industry at a Glance	3
	PART-I	
	PETROLEUM STATISTICS	
I.	**GENERAL:**	
I.1	Highlights of Indian Petroleum Industry during 2007-08	7
I.2	Growth in production performance of petroleum & Natural Gas sector-some key macro-economic trends during 2007-08.	8-15
I.3	Progress of Indian Petroleum Industry 1947-48 to 2007-08	16
I.4	Commodity balance of Crude Oil and Petroleum Products	17
I.5	(a) Growth of Petroleum Industry in India (Calendar Years)	18
	(b) Growth of Petroleum Industry in India (Financial Years)	19
I.6	(a) Petroleum Energy in India: 1990 to 2007 (Calendar Years)	20
	(b) Petroleum Energy in India: 1990-91 to 2007-08 (Financial Years)	21
II	**EXPLORATION**	
II.1	Area-wise deployment of deep drilling rigs, wells & metreage drilled by ONGC & OIL from 1980-81 to 2007-08	22
II.2	Exploratory and development drilling by ONGC & OIL	23
II.3	Status of wells as on 1st April of each year	24
II.4	State-wise geological surveys achievements upto 31.3.2008	25
II.5	State-wise achievements of geophysical field parties in India since inception upto 31.3.2008	26
II.6	Basin-wise/State-wise achievements of drilling since inception upto 31.03.2008	27
II.7	State-wise/Basin-wise oil and gas fields in India as on 1.4.2008	28
III	**CRUDE OIL:**	
III.1	Reserves of crude oil in India	29
III.2	Company-wise production of crude oil in India (Calendar Years)	30
III.3	Company-wise production of crude oil in India (Financial Years)	31
III.4	State-wise production of crude oil in India (Calendar & Financial Years)	32
IV.	**NATURAL GAS:**	
IV.1	Reserves of natural gas in India	33
IV.2	(a) State-wise gross production of natural gas in India (Calendar Years)	34
	(b) State-wise gross production of natural gas in India (Financial Years)	35
IV.3	State-wise gross and net production of natural gas in India.	36-38
IV.4	State-wise utilisation of natural gas in India (Financial Years)	39
IV.5	Industry-wise offtakes of natural gas in India	39

S.No.	SUBJECT	PAGE NO.
V.	**REFINING:**	
V.1	Petroleum refining capacity in India	40
V.2	(a) Refinery crude throughput and production of petroleum products during 1961 to 2007	41
	(b) Refinery crude throughput and production of petroleum products during 1961-62 to 2007-08	41
V.3	Refinery-wise crude run and total production of petroleum products during 1993-94 to 2007-08	42-43
V.4	(a) Production of Petroleum Products/Pattern of Production: 1991 to 2007	44
	(b) Production of Petroleum Products/Pattern of Production: 1991-92 to 2007-08	45
VI.	**SALES/CONSUMPTION:**	
VI.1	(a) Product-wise sales/consumption of petroleum products during 1999-2007	46
	(b) Product-wise sales/consumption of petroleum products during 1999-00 to 2007-08	47
	(c) Product-wise consumption of petroleum products	48
	(d) Time series consumption of petroleum products	49
VI.2	Sales/consumption of petroleum products and market share of oil companies in India from 1980-81 to 2007-08	50
VI.3	Deliveries made to international/coastal bunkers during 1992-93 to 2007-08	51
VI.4	State-wise consumption of major petroleum products during 2007-08	52-53
VI.5	State-wise per capita sales/consumption of petroleum products and per capita consumption of selected petroleum products	54
VI.6	Sector-wise consumption (end use) of selected petroleum products	55-59
VI.7	Consumption of diesel oil in Indian Railways during 1960-61 to 2007-08	60
VI.8	Industry/Plant-wise offtakes of Naphtha during the years 2001-02 to 2007-08	61-62
VI.9	Plant/customer-wise offtakes of FO/LSHS during 2000-01 to 2007-08	63-66
VI.10	State-wise fuel consumption and power generation in gas turbine and diesel power stations in India during 2006-07	67
VI.11	State-wise consumption of fossil fuels for electricity generation from thermal power stations in India during 2006-07	68
VII.	**FOREIGN TRADE:**	
VII.1	Import/Export of crude oil and petroleum products from 1970 to 2007	69
VII.2	Import/Export of crude oil and petroleum products from 1970-71 to 2007-08	70
VII.3	Import/Export of crude oil and petroleum products (product-wise) from 2003 to 2007	71
VII.4	Import/Export of crude oil and petroleum products (product-wise) from 2003-04 to 2007-08	72
VII.5	Trends in India's overall trade balance and trade balance with OPEC countries	73
VII.6	India's foreign exchange reserves: 1970-71 to 2007-08	74
VII.7	India's Pol. Imports as proportion to overall Exports from the Country: 1970-71 to 2007-08	74
VIII.	**MANPOWER:**	
VIII.1	Manpower employed in the petroleum industry in India 1995-2008 (As on 31st March)	75

	SUBJECT	PAGE NO.
VIII.2	Category-wise manpower employed in the petroleum industry in India 1995-2008 (As on 31st March)	75
VIII.3	Category-wise manpower employed in various sectors of petroleum industry in India 1995-2008(As on 31st March)	76
IX.	**PRICES:**	
IX.1	Wholesale price indices of selected petroleum products	77
IX.2	(a) Prices of indigenous crude oil in India with rate of royalty & oil development cess	78
	(b) Consumer and producer prices of natural gas	79
IX.3	Price build-up of selected petroleum-products in major cities as on 01.04.2008	80-82
IX.4	Trends in retail selling prices of selected petroleum products in metropolitan towns in India	83-84
IX.5	Rates of dealer's commission for MS, HSDO and LPG in India	85
IX.6	Month & Year-wise average, International Crude Oil price(Indian Basket)	86
X.	**EXCISE/CUSTOM DUTIES AND SALES TAX:**	
X.1	Realisation of excise and custom duties from crude oil and petroleum products	87
X.2	Percentage share of central excise on POL to total central excise and to net national product	88
X.3	Composite unit incidence of excise/custom duties on petroleum products	89
X.4	Royalty and oil development cess paid by oil companies on production of crude oil and natural gas during 1975-76 to 2007-08	90
X.5	Sales tax rates applicable on crude oil, natural gas and petroleum products in different states as on 01.04.2008	91-92
X.6	Sales tax payments (inclusive of MST and CST) on crude oil, condensates, natural gas and petroleum products made by oil companies to States/Union Territory Governments during the years 2000-01 to 2007-08	93
XI.	**TRANSPORTATION:**	
XI.1	Tonnage of Indian tankers fleet – 1975 to 2008	94
XI.2	Indian Tonnage as on 31.3.2008	95-96
XI.3	Share of traffic of petroleum products in the total traffic handled at major ports	97-99
XI.4	Movement of POL traffic on Railways since 1970-71	100
XI.5	Rail freight rates in respect of petroleum products	100
XI.6	Crude oil, natural gas and product pipelines in India	101
XII.	**MARKETING NETWORK:**	
XII.1	Retail outlets in India as on 1st January of each year, company-wise	102
XII.2	State-wise number of retail outlets, LDO/SKO dealers and LPG distributors as on 1.4.2008	103
XII.3	State-wise and company-wise retail outlets as on 1.4.2008	104
XII.4	State-wise and company-wise LPG domestic consumers as on 01.04.2008	105
XII.5	CNG activities in India as on 01.04.2008	106
XII.6	Supply Plan of Green Fuels in India	107

S.No.	SUBJECT	PAGE NO.
XIII.	**ENERGY:**	
XIII.1	Gross Production of energy by various sources in India	108
XIII.2	Trends in commercial energy production	109
XIII.3	Energy Demand by Source & percentage Demand met from Domestic sources	
	(a) Source-wise Energy Demand.	109
	(b) Percentage Demand met from Domestic Sources.	109
	PART-II	
XIV.	**INTERNATIONAL PETROLEUM STATISTICS:**	
XIV.1	(a) World proved reserves of crude oil at end 2007	113-114
	(b) World proved reserves of natural gas at end 2007	115-116
XIV.2	World crude oil production during 2001-2007	117-118
XIV.3	Crude oil production by OPEC member countries	119
XIV.4	World production of natural gas 2001-2007	120-121
XIV.5	World consumption of natural gas 2001-2007	122-123
XIV.6	Productivity of producing wells in OPEC countries during– 2007	124
XIV.7	World oil refining capacities at end 2001-2007	125
XIV.8	World refinery crude throughput 2001-2007	126
XIV.9	Country-wise world oil consumption 2001-2007	127-128
XIV.10	Product-wise regional consumption of main petroleum products during 2001-2007	129-130
XIV.11	World oil production, consumption and relative deficit/surplus in each country/region during 2006 and 2007	131
XIV.12	World crude oil & petroleum products imports and exports 2007	132
XIV.13	Exports of crude oil & refined petroleum products from OPEC	133
XIV.14	Crude oil imports from OPEC member countries by regions 1994-2007	134
XIV.15	Crude oil exports from OPEC member countries by destination 2007	135
XIV.16	Value of petroleum exports from OPEC member countries 1995-2007	136
XIV.17	Spot prices of key OPEC crude since 1990	137
XIV.18	Crude oil spot prices in US$ per barrel	138
XIV.19	Petroleum products spot prices in US$ per barrel	138
XIV.20	Natural gas prices for Industry and Household use	139
XIV.21	Crude oil import costs in US$ per barrel	140
XIV.22	Development of spot prices of key OPEC crude oils	141
XIV.23	Development of spot prices of major petroleum products in key trading centres of the world during 2006, 2007 and 2008	142
XIV.24	World survey of selected petroleum products prices 2007	143
XIV.25	Posted airfield prices of Jet A-1 fuel at major international airports as on 1st April of each year	144

S.No.	SUBJECT	PAGE NO.
XIV.26	International petroleum price index during 1990-2007	145
XIV.27	Tanker fleet development in OPEC members 2003-2007	146
XIV.28	World tanker fleet by age	146
XIV.29	Inter-area total oil movements- 2000-2007	147
XIV.30	World primary energy consumption by fuel-2007	148-149
XIV.31	Per capita primary energy consumption during 2007 - Some international comparisons	150-151
XIV.32	Per capita consumption of main petroleum products-Some international comparisons – 2007	152
XIV.33	Trends in world primary energy consumption-1980-2007	152
XIV.34	Primary energy consumption in selected countries of the world-2001-2007	153-154
XIV.35	Economic indicators of OPEC nations during 2007	155
XIV.36	World imports of natural gas by country-2000-2007	156
XIV.37	World imports of refined products by country-2001-2007	157
XIV.38	World crude oil exports by country-2001-2007	158
XIV.39	World exports of refined products by country-2000-2007	159
	PART-III	
	PLAN STATISTICS	
XV.1	Tenth Plan Expenditure, RE for 2007-08 & BE 2008-09 of Public Sector Undertakings under Ministry of Petroleum & Natural Gas	163
XV.2	Demand for petroleum products	164
XV.3	Import availability ratios of crude oil & petroleum products	164
XV.4	Value of crude oil and POL Products imported during V, VI, VII, VIII, IX and X five year plan periods	164
XV.5	XI Plan projection profile for crude oil and natural gas production	165
XV.6	Product availability during XI Plan	165
XV.7	Refinery-wise capacity addition during the Eleventh Plan	166
XV.8	Refining capacity addition during the Eleventh Plan	166
XV.9	Crude oil processing and import during the Eleventh Plan	167
XV.10	Proposed crude oil and Natural Gas during the Eleventh Plan	167
XV.11	Estimates of demand of petroleum products during the Eleventh Plan	168
	PART-IV	
	FINANCIAL PERFORMANCE	
XVI.1	Dividend paid by Public Sector Undertakings under the Ministry of Petroleum & Natural Gas for fiscal year 2007-08	171
XVI.2	Equity capital of Public Sector Undertakings under the Ministry of Petroleum and Natural Gas as on 31st March 2008	171
XVI.3	Statement showing profit after tax earned by Public Sector Undertakings under the Ministry of Petroleum and Natural Gas during 1997-98 to 2007-08	172

S.No.	SUBJECT	PAGE NO.
XVI.4	Performance of Public Sector Undertakings under the Ministry of Petroleum and Natural Gas during 2007-08	173

PART – V
TIME SERIES DATA ON ENERGY

XVII.1	Production of Primary sources of conventional energy in India	177
XVII.2	Availability of primary sources of conventional energy in India	178
XVII.3	Consumption of primary sources of conventional energy in India	179
XVII.4	Domestic production of petroleum products in India	180-181
XVII.5	Foreign trade in crude oil and petroleum products in India	182
XVII.6	Availability of crude oil and petroleum products in India	183
XVII.7	Consumption of petroleum products in India	184-185
XVII.8	Sector-wise (End use) consumption of selected petroleum products in India	186-187
XVII.9	Gross and net production (utilisation) of natural gas in India	188
XVII.10	Industry-wise offtakes of natural gas in India	189
	APPENDIX	193-206

SCOPE AND COVERAGE OF DATA PUBLISHED

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

2. **Coverage:** The Statistics presented in the current publication cover the exploration, production, refining, marketing activities etc. of Oil sector.

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 oil public sector undertakings (PSUs), joint venture companies and private companies under the Ministry of Petroleum & Natural Gas.
   The sources of all the secondary data, including international statistics, incorporated in the publication, have been indicated at the bottom of relevant tables.

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

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

6. **Natural Gas:** The gross production of natural gas reflects gross withdrawals of natural gas from reservoir. On the other hand, the net production of natural gas show gross withdrawal of natural gas from reservoirs less gas used for reinjection into reservoirs for pressuring gas which is flared and / or vented.
   The utilisation data for natural gas includes gas marketed, gas used for LPG extraction and gas consumed for field operations by the companies engaged in hydrocarbons exploration / production activities.

7. **Petroleum Exports:** The data relating to export of crude oil includes Indian Crude Oil (Bombay High) consigned for processing abroad. The refined petroleum products supplied by the Indian Oil Corporation to Nepal have also been included under Indian exports from 1983-84.

8. **Petroleum Imports:** The crude oil and product import figures given in the publication includes crude oil / petroleum products imported by the oil PSUs, private and parallel marketers 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 and 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	2000-01	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
1	2	3	4	5	6	7	8	9	10	11
1. Geographical Area	M.Sq.Km.	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29
2. Population	Million	839	927	1019	1056	1072	1089	1106	1122	1138
3. Gross National Product										
at factor cost :										
(i) At current prices	Rs.Billion	5034	10598	19022	22447	25199	28553	32496 P	37603 Q	42818 R
(ii) At constant prices+	"	6837	8870	18418	20295	22049	23669	25932 P	28452 Q	31094 R
4. Net National Product										
at factor cost :										
(i) At current prices	Rs.Billion	4501	9419	17005	19942	22399	25264	28708 P	33258 Q	37895 R
(ii) At constant prices+	"	6142	7878	16479	18058	19635	21045	23069 P	25305 Q	27677 R
5. Per Capita Net										
National Product :										
(i) At current prices	Rupees	5365	10149	16688	18885	20895	23199	25956 P	29642 Q	33299 R
(ii) At constant prices+	"	7321	8489	16172	17101	18317	19325	20858 P	22553 Q	24321 R
6. Foreign Exchange Reserves										
(i) Gold++	Rs.Billion	68.28	156.58	127.11	167.85	182.16	196.86	256.74	295.73	401.24
(ii) SDR	Mn. of SDRs.	76	56	2.0	3.0	2.0	5.0	3.0	2.0	18.0
(iii) Foreign Currency Assets	Rs.Billion	43.88	584.46	1844.8	3414.76	4662.15	5931.21	6473.27	8365.97	0
Foreign Exchange Rate	Rs./US$	17.94	33.45	45.68	48.40	45.95	44.93	44.27	42.25	40.26
7. Foreign Trade :										
(i) Import	Rs.Billion	431.98	1226.78	2308.73	2972.06	3591.08	5010.65	6604.09	8405.06	9648.50
(ii) Export	"	325.53	1063.53	2035.71	2551.37	2933.67	3753.4	4564.18	5717.79	6401.72
(iii) Balance of Trade	"	-106.45	-163.25	-273.02	-420.69	-657.41	-1257.25	-2039.91	-2687.27	-3246.78
8. Index of Production :										
(i) Agricultural	@	148.4	160.7	165.7	150.4	183.0	177.3	191.6	197.1	218.7 aa
(ii) Industrial	1993-94=100	212.6***	123.3	162.6	176.6	189.0	204.8	221.5	247.1	258.6
9. Wholesale Price Index :	1993-94=100	73.7	121.6	155.7	166.8	175.9	187.3	195.6	206.2	213.9 a
10. Consumer Price Index:										
(i) Industrial Workers	1982=100	193	313	444	482	500	520	542	125 b	131.9 bb
(ii) Agricultural Labourers	1986-87=100	803**	237	305	319	331	340	353	380	405.6 a
(iii) Urban non-manual workers	1984-85=100	161	259	371	405	420	436	456	486	512.4 a
11. Employment : !										
(i) Public Sector	Million	19.06	19.43	19.14	18.58	18.20	18.07	N.A.	N.A.	N.A.
(ii) Private Sector	"	7.68	8.51	8.65	8.42	8.25	8.45	N.A.	N.A.	N.A.
Total	"	**26.73**	**27.94**	**27.79**	**27.00**	**26.44**	**26.46**	N.A.	N.A.	N.A.
No. of persons on live register										
of employment exchange	Million	34.89	36.90	41.23	41.17	41.39	42.00	N.A.	N.A.	N.A.
12. Energy Generation (Gross) :										
Coal	Mn.Tonne	211.73	270.13	309.63	341.27	361.25	382.61	407.40	430.85	309.52 $
Lignite	"	13.77	22.14	22.95	26.02	27.96	30.34	30.06	31.13	15.28 $
Natural Gas	Bn.Cub.Mtr.	17.998	22.639	29.477	31.389	31.962	31.763	32.202	31.747	32.402
Crude Oil	Mn.Tonne	33.02	35.17	32.43	33.04	33.37	33.98	32.19	33.988	34.118
Petroleum Products(Incl RBF)	"	51.27	58.32	102.51	111.79	121.70	127.12	128.89	146.18	156.68
13. Electricity Generated (Gross)										
(i) Utilities										
Hydel	B.KWH	71.7	72.6	74.5	64.0	75.2	84.6	99.9	113.4	NA
Thermal	"	186.5	299.3	408.1	449.3	472.1	492.8	506	535.5	NA
Nuclear	"	6.1	8.0	16.9	19.4	17.8	17	17.3	18.6	NA
Total	"	264.3	379.9	499.5	532.7	565.1	594.4	623.2	667.5	NA
(ii) Non-utilities	"	25.1	38.2	55.0	63.8	68.2	71.4	73.6	76.8	NA
Grand Total	"	**289.4**	**418.1**	**554.5**	**596.5**	**633.3**	**665.8**	**697.4**	**744.3**	NA

R: Revised Estimates

* : Provisional. N.A. : Not Available. **: Old base 1960-61=100 Q : Quick Estimates. $: April-Dec.'07

@ : Triennium ending 1981-82 + : Figures upto 1998-99 are based on old series at 1993-94 prices and from 2000-01 onwards are based on 1999-2000 prices. aa: Average April-Dec. '07

! : As on 31 March a: average of monthly index April-Dec'07

++ : Gold is valued at Rs. 84.39 per 10 gms from May 1966 upto Sept. 1990 & closer to international market prices w.e.f. Oct. 17, 1990.

b: The current CPI for industrial workers with 2001 base was introduced w.e.f. January, 2006. Earlier series was on base 1982=100 was simultaneously discontionued. The conversion factor from the current: to the series is 4.63 opf the General Index. bb: Average of monthly Index April-Dec. '07.

Source : Economic Survey, RBI, Ministry of Statistics/Industry/Finance. ***: Based on 1980-81=100

TRENDS IN INDIAN PETROLEUM INDUSTRY AT A GLANCE

Item	Unit	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
1	2	3	4	5	6	7	8	9	10	11
1. Reserves !										
(Balance Recoverable)										
(i) Crude Oil	Mn.Tonne	660	703	732	741	761	739	786	756	725
(ii) Natural Gas	Bn.Cub.Mtr	648	760	763	751	854	923	1101	1075	1055
2. Consumption										
(i) Crude Oil (in terms of refinery crude throughput)	Mn.Tonne	85.96	103.44	107.27	112.56	121.84	127.42	130.11	146.55	156.103
(ii) Petroleum Products (excl. RBF)	"	97.09	100.07	100.43	104.13	107.75	111.63	113.21	120.75	128.95
3. Production :										
(i) Crude Oil	"	31.95	32.43	32.03	33.04	33.37	33.98	32.19	33.988	34.118
(ii) Petroleum Products	"	79.41	95.61	100.00	104.14	113.46	118.58	119.75	135.26	144.93
(iii) LPG from natural gas	"	0.93	2.04	2.21	2.37	2.32	2.24	2.19	2.09	2.06
4. Imports & Exports										
(i) Gross Imports :										
(a) Qty : Crude Oil	Mn.Tonne	57.80	74.10	78.71	81.99	90.44	95.86	99.41	111.5	121.67
Pol. Products	"	16.61	9.27	7.01	7.23	8.00	8.83	13.44	17.66	22.46
Total (a)	"	74.41	83.37	85.72	89.22	98.44	104.69	112.85	129.16	144.13
(b) Value:Crude Oil	Rs.Billion	400.28	659.32	603.97	761.95	835.28	1170.03	1717.02	2190.29	2726.99
Pol.Products	"	141.86	120.93	72.49	88.47	97.23	148.87	279.71	411.6	610
Total (b)	"	542.14	780.25	676.46	850.42	932.51	1318.90	1996.73	2601.89	3336.99
Pol. Imports as per DGCI&S	"	454.21	714.97	667.70	853.67	945.20	1340.94	1946.4	2585.72	3206.41
(ii) Exports :										
(a) Qty :										
Pol. Products	Mn.Tonne	0.75	8.37	10.07	10.29	14.62	18.21	23.46	33.62	40.78
(b) Value:										
Pol.Products	Rs.Billion	6.98	76.72	82.19	108.68	167.81	299.28	499.74	810.94	1107.89
(iii) Net Imports :										
(a) Qty : Crude Oil	Mn.Tonne	57.80	74.10	78.71	81.99	90.44	95.86	99.41	111.50	121.67
Pol. Products	"	15.86	0.90	-3.06	-3.06	-6.62	-9.38	-10.02	-15.96	-18.32
Total (a)	"	73.66	75.00	75.65	78.93	83.82	86.48	89.39	95.54	103.35
(b) Value:Crude Oil	Rs.Billion	400.28	659.32	603.97	761.95	835.28	1170.03	1717.02	2190.29	2726.99
Pol.Products	"	134.88	44.21	-9.70	-20.21	-70.58	-150.41	-220.03	-399.34	-497.89
Total (b)	"	535.16	703.53	594.27	741.74	764.70	1019.62	1496.99	1790.95	2229.10
(iv) Unit Value of Crude oil Imports(gross)	Rs./MT	6925	8898	7673	9293	9236	12206	17272	19644	22413
5. India's Total Exports	Rs.Billion	1595.61	2035.71	2090.18	2551.27	2836.05	3753.4	4564.18	5717.79	6401.72
6. Pol. Imports as percentage of India's total exports										
(i) Gross Imports	%	34.0	38.3	32.4	33.3	32.9	35.1	43.7	45.5	52.1
(ii) Net Imports	%	33.5	34.6	28.4	29.1	27.0	27.2	32.8	31.3	34.8
7. Contribution of Oil Sector to Centre/State Resources										
(i) Royalty from crude oil	Rs.Billion	20.49	22.72	24.86	30.67	31.74	42.71	50.67	58.57	N.A.
(ii) Royalty from gas	"	5.47	6.08	6.59	7.78	8.54	8.29	8.637	10.75	N.A.
(iii)Oil Development Cess	"	27.16	27.28	28.78	50.91	51.43	55.37	51.96	71.77	N.A.
(iv) Excise & Custom duties	"	326.62	359.12	361.04	451.27	507.33	563.95	631.43	718.93	N.A.
(v) Sales Tax	"	181.06	233.75	200.90	297.41	328.49	390.00	459.34	530.86	N.A.
(vi) Dividend	"	25.87	34.82	32.87	67.94	63.10	94.36	95.45	115.27	N.A.
(vii)Corporate Tax/Others	"	38.63	53.45	N.A.	N.A.	N.A.				
8. Natural Gas :										
(i) Gross Production	Bn.Cub.Mtr	28.446	29.477	29.714	31.389	31.962	31.763	32.202	31.747	32.402
(ii) Utilisation	"	26.885	27.860	28.037	29.963	30.906	30.775	31.025	31.368	34.328

* : Provisional. ! : As on 1st April of initial year. N.A.: Not Available.

Source: Public Sector Undertakings / DGCI&S, Kolkata / Ministry of Finance.

PART-I

PETROLEUM STATISTICS

I. GENERAL

I.1 HIGHLIGHTS OF INDIAN PETROLEUM INDUSTRY DURING 2007-08

I.	**Reserves**			
	(a) Crude Oil (MMT)			
	As on 1.4.2008		770	
	As on 1.4.2007		725	
	(b) Natural Gas (BCM)			
	As on 1.4.2008		1090	
	As on 1.4.2007		1055	
II.	**Self-sufficiency in Oil**			
	(a) In 2007-08		25%	
	(b) In 2006-07		26%	
III.	**Crude Oil Production (MMT)**			
	(a) In 2007-08		34.12	
	(b) In 2006-07		33.99	
IV.	**Consumption of Petroleum Products (MMT)**			
	(a) In 2007-08		128.95	
	(b) In 2006-07		120.75	
V.	**%age variation 2007-08 over 2006-07**			
	(a) Crude Oil Production		0.4	
	(b) Consumption of Petroleum Products		6.8	
VI.	**Gross Imports of Crude Oil (MMT**			
	i) In 2007-08		121.672	
	ii) In 2006-07		111.502	
VII.	**Refineries Data**			
	(a) Number of refineries as on 1.4.2008		19	
	(b) Total refining capacity as on 1.4.2008		148.968 MMT	
	(c) Total refining capacity in PSUs as on 1.4.2008		105.468 MMT	
	(d) Total refining capacity in Private as on 1.4.2008		43.500 MMT	
	(e) Crude Oil processed (2007-08)		156.103 MMT	
	(f) Capacity Utilisation (2007-08)		104.8%	

VIII.	**Natural Gas Production (BCM)**	**2007-08**	**2006-07**	**2005-06**
	(a) Total Production	32.402	31.747	32.202
	(i) Offshore	23.318	22.475	22.624
	(ii) Onshore	9.084	9.272	9.578
	(b) Gas flared	0.924	0.956	0.877
	(c) % Gas flared	(2.85)	(3.0%)	(2.7%)

IX.	**(a) Production of Petroleum Products (MMT)**			
	i) In 2007-08		144.930	
	ii) In 2006-07		135.260	
	(b) Refinery Crude Throughput (MMT)			
	i) In 2007-08		156.103	
	ii) In 2006-07		146.551	
	(c) Gross Import of Crude Oil & Petroleum Products (Including Private/PMS)			
	i) In 2007-08	144.133 MMT	Rs. 333699 crores	
	ii) In 2006-07	129.162 MMT	Rs. 260189 crores	

I.2 Growth in Production Performance of Petroleum & Natural Gas Sector - some key macro-economic trends during 2007-2008

Introduction

Efficient and reliable energy supplies are a precondition for accelerating the growth of the Indian economy. While the energy needs of the country are going to increase at a rapid rate in the coming decades, the energy resources that are indigenously available are limited and may not be sufficient in the long run to sustain the process of economic development. The oil and gas share in the energy consumption has reached a level of about 45%. The Ministry of Petroleum and Natural Gas is mandated to take measures for exploration and exploitation of petroleum resources including natural gas and coal bed methane, and also distribution, marketing and pricing of petroleum products.

During the financial year 2007-08, Crude Oil production was 34.118 Million Metric Tonnes (MMT) which shows slightly increase of 0.38% as against 33.988 MMT during the year 2006-07. Natural Gas production during 2007-08 was 32.402 Billion Cubic Metre (BCM) which shows an increase of 2.06% over the previous year (2006-07) of 31.747 BCM. Refinery production (crude throughput) during 2007-08 was 156.103 MMT, which shows an increase of 6.52% over production of 146.551 MMT for 2006-07. It is some of these key parameters that are highlighted in context of performance during the past decade in the following sections:-

2. Crude Oil Production

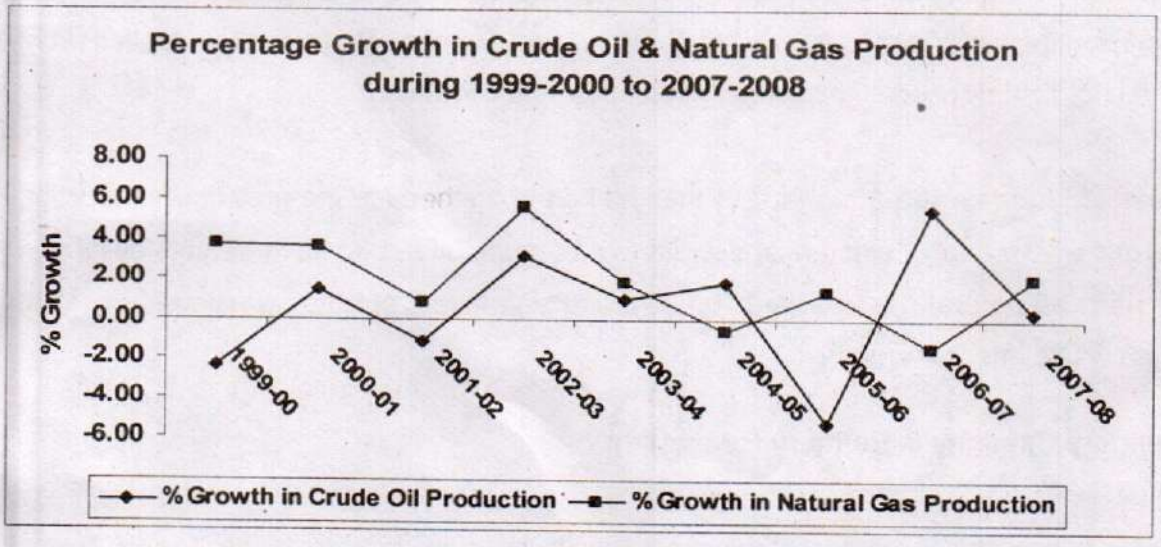
During the year 2007-08, Crude oil production was 34.118 Million Metric Tonnes (MMT) as against 33.988 MMT during the previous year (2006-07). The crude production achievement was slightly higher (by 0.38%) than that achieved during the year 2006-07. However, if seen against the planned target for 2007-08 at 34.976 MMT of crude oil production, achievement was 97.50%. The trend in crude oil production over the last decade shows that it has remained in the range of 32 MMT to 34 MMT with year to year variation, as may be seen in **Table-1.**

Table-1: Crude Oil Production during 1998-1999 to 2007-2008

Year	Crude Oil Production (MMT)	% Growth
1998-99	32.722	
1999-00	31.949	-2.36
2000-01	32.426	1.49
2001-02	32.032	-1.22
2002-03	33.044	3.16
2003-04	33.373	1.00
2004-05	33.981	1.82
2005-06	32.190	-5.27
2006-07	33.988	5.59
2007-08	34.118	0.38

It may be noted that the growth in crude oil production was considerably low in 2007-08 compared to the previous years. Various reasons that lead to this slower growth includes excessive rains in Gujarat, road and transport constraints, non-availability of off-shore rigs, environmental and law and order issues in Assam etc.

Graph-1: Percentage Growth in Crude Oil & Natural Gas Production



3. Natural Gas Production

During the year 2007-08, natural gas production was 32.402 Billion Cubic Metre (BCM) as against 31.747 BCM during the previous year (2006-07) i.e. 2.06%. However, as against the planned target during 2007-08 at 33.243 BCM of natural gas production, achievement was 97.10%. However, there has been an increase in natural gas production during the last ten

years from 27 BCM in 1998-99 to 32 BCM in 2007-08 although with some year to year variations during this period, as may be seen in **Table-2**.

Table-2: Natural Gas Production during 1998-1999 to 2007-2008

Year	Natural Gas Production (BCM)	% Growth
1998-99	27.428	
1999-00	28.446	3.71
2000-01	29.477	3.62
2001-02	29.714	0.80
2002-03	31.389	5.64
2003-04	31.962	1.83
2004-05	31.763	-0.62
2005-06	32.202	1.38
2006-07	31.747	-1.41
2007-08	32.402	2.06

There is considerable scope for increasing the production of natural gas but has been constrained in the last year or so by lower than potential consumer demand in the North Eastern States of Tripura and Arunachal Pradesh, local law and order problems apart from less production of associated gas in Tamil Nadu and Mumbai High and production from offshore did not commence as anticipated earlier in Andhra Pradesh.

It may be noted from **Graph-1** that during the first half of the decade the growth in production of natural gas was broadly commensurate with that of crude oil but no such trend is evident in the latter part as natural gas reached higher production levels but the variations in year to year growth was higher for crude oil.

4. Refinery Capacity & Refinery Production

There was an increase in domestic refining capacity by over 12% to reach 148.97 Metric Million Tonne Per Annum (MMTPA) as compared to 132.47 MMTPA in 2006-07. The refining capacity was 62.240 MMTPA during 1998-1999. By the end of XI Plan, refinery capacity is expected to reach 240.96 MMTPA.

The Refinery Sector production (crude throughput) was 156.103 MMT during 2007-08 which marks net increase of 127.76% over that produced during 1998-1999 (68.538 MMT) and 6.52% over 2006-07 (146.551 MMT) as may be seen in **Table-3**.

Table-3: Refinery Capacity & Production during 1998-1999 to 2007-2008

Year	Refining Capacity @ (MMTPA)	% Growth	Refinery Production (Crude Throughput) (MMTA)	% Growth
1998-99	62.240		68.538	
1999-00	69.140	11.09	85.964	25.43
2000-01	112.040	62.05	103.444	20.33
2001-02	112.540	0.45	107.274	3.70
2002-03	114.670	1.89	112.559	4.93
2003-04	116.968	2.00	121.840	8.25
2004-05	127.368	8.89	127.416	4.58
2005-06	127.368	0.00	130.109	2.11
2006-07	132.468	4.00	146.551	12.64
2007-08	148.968	12.46	156.103	6.52

@= As on 1st April of the year.

5. Production and Consumption of Petroleum Products

There was an increase by 7.02% in production of total petroleum products, including fractioners, during 2007-08 compared to the year 2006-07. At the same time, indigenous consumption of petroleum products (in terms of domestic sales) increased by 6.79% during 2007-08 compared to the previous year.

During the year 2007-08, net consumption of petroleum products was 128.946 MMT against total production of 146.990 MMT. Year-wise production and consumption of petroleum products during 1998-1999 to 2007-2008 may be seen in **Table-4 and Graph-2** below. It may be observed that while consumption has broadly shown a steady upward trend, production has varied considerably over the years leading to greater dependence on oil imports, as may be seen in the next section.

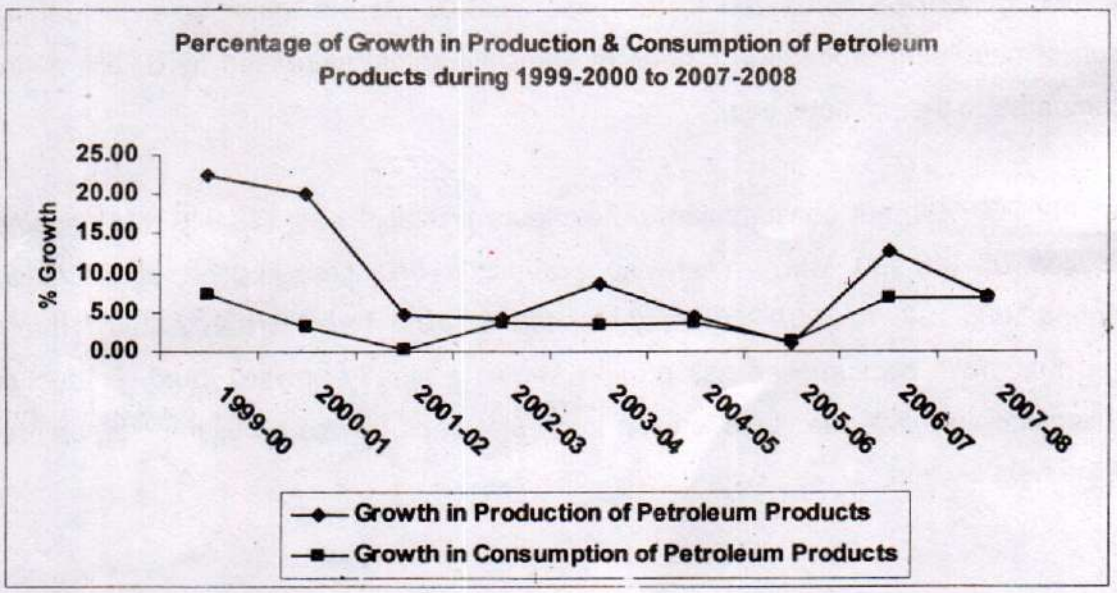
Table-4: Production and Consumption (indigenous sales) of Petroleum Products during 1998-1999 to 2007-2008

Year	Production of Petroleum Products * (MMT)	% Growth	Consumption of Petroleum Products ** (MMT)	% Growth
1998-99	66.459		90.560	
1999-00	81.397	22.48	97.086	7.21
2000-01	97.659	19.98	100.074	3.08
2001-02	102.209	4.66	100.432	0.36
2002-03	106.510	4.21	104.126	3.68
2003-04	115.783	8.71	107.751	3.48
2004-05	120.819	4.35	111.634	3.60
2005-06	121.935	0.92	113.213	1.41
2006-07	137.353	12.64	120.749	6.66
2007-08	146.990	7.02	128.946	6.79

Note: * = Includes LPG production from Natural Gas.

**** = Excludes refinery fuels and includes imports also.**

Graph-2: Percentage Growth in Production & Consumption of Petroleum Products



6. Imports and prices of Crude Oil:

Imports of Crude Oil during 2007-2008, in terms of quantity was 121.672 MMT valued at Rs.2,72,699 crore, this marked an increase by 9.12% in quantity terms w.r.t. 111.502 MMT during the year 2006-2007, but increased by 24.50% (w.r.t.Rs.2,19,029 crore) in value terms over the year of 2006-2007. In terms of US$, the extent of increase in value of imports was

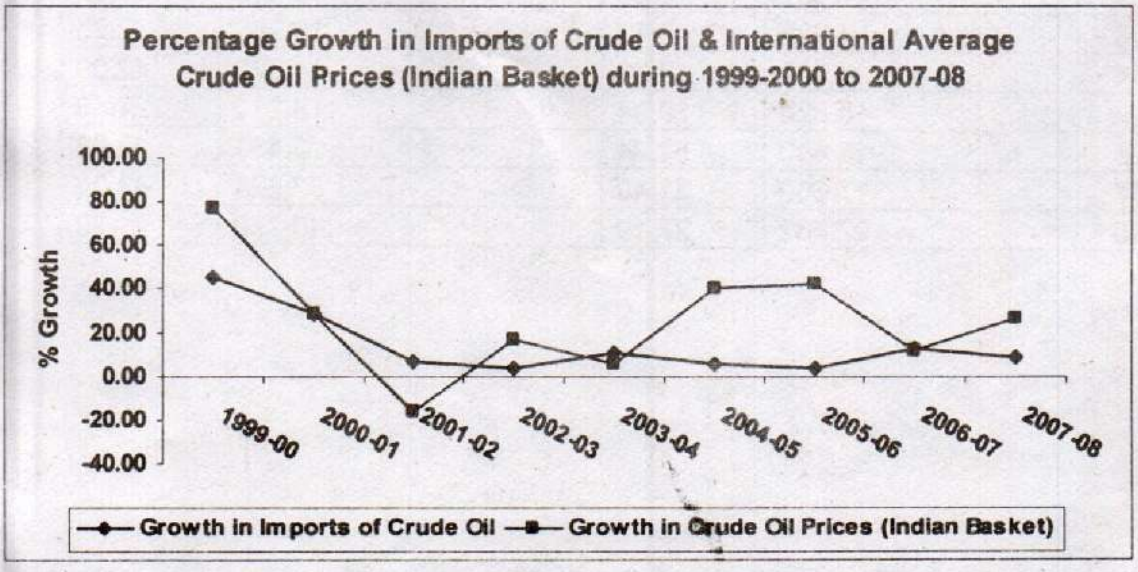
40.50%. During the year 1998-99 the imports of crude oil was 39.808 MMT that increased to 121.672 MMT in 2007-08 i.e. an increase of 206% during 2007-08 as compared to imports during 1998-99.

The average prices of International crude oil (Indian Basket) has increased from US$11.95/bbl. in 1998-99 to US$ 79.25 /bbl. during 2007-08 i.e. an increase of about 563%. The trend in growth of crude oil imports and crude oil International (Indian Basket) prices may be seen in **Table-5 and Graph-3:**

Table-5: Imports of Crude Oil and average Crude Oil Prices

Year	Imports of Crude Oil (MMT)	% Growth	Average Crude oil Prices (Indian Basket) (US$/bbl.)	% Growth
1998-99	39.808		11.95	
1999-00	57.805	45.21	21.12	76.74
2000-01	74.097	28.18	27.06	28.13
2001-02	78.706	6.22	22.75	-15.93
2002-03	81.989	4.17	26.59	16.88
2003-04	90.434	10.30	27.98	5.23
2004-05	95.861	6.00	39.21	40.14
2005-06	99.409	3.70	55.72	42.11
2006-07	111.502	12.16	62.46	12.10
2007-08	121.673	9.12	79.25	26.88

Graph-3: Percentage Growth in Imports of Crude Oil & average International Crude Oil Prices (Indian Basket)



7. Imports & Exports of Petroleum Products:

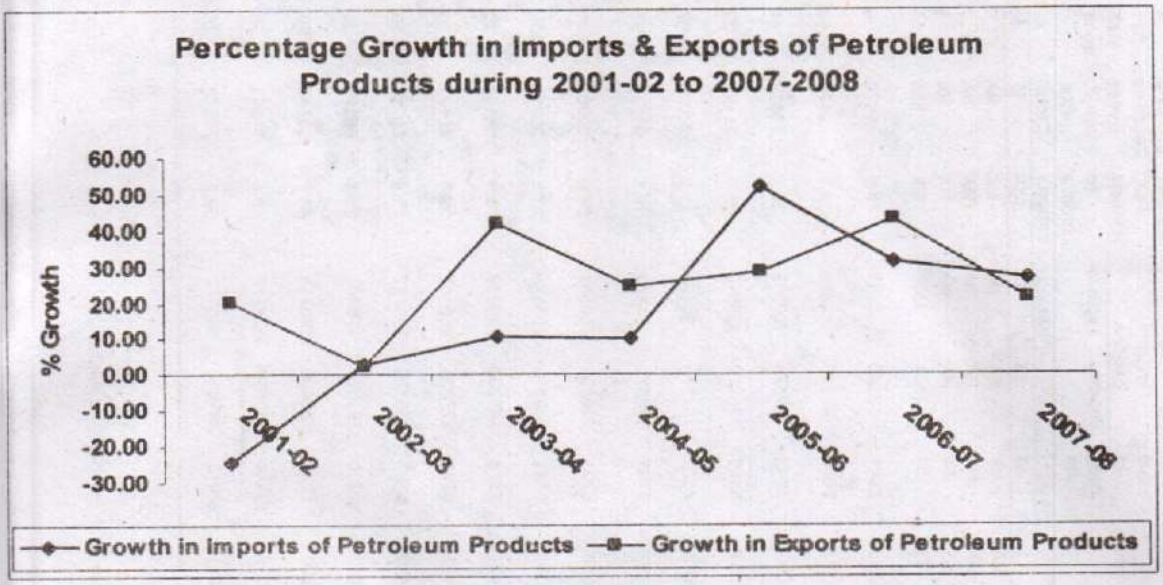
It may be seen that despite considerable variations in International prices of crude oil, imports have followed a steady growth primarily to meet domestic demand of a burgeoning economy, apart from re-exports of petroleum products. With substantial increase in refining capacity in India, as seen earlier, exports of petroleum products have picked up during the last four years.

Exports of petroleum products during 2007-2008, in terms of quantity was 40.779 MMT valued at Rs.1,10,789 crore, which marked an increase by 21.28% in quantity (w.r.t. 33.624 MMT during the year 2006-2007), but increased by 36.62% (w.r.t.Rs.81,094 crore) in value terms in Indian rupees over the year of 2006-2007. In terms of US$, the extent of increase of exports in value was at 53.87%. The exports of petroleum products was 0.720 MMT in 1998-99 only which steeply increased by 5664% during 2007-08. Imports of petroleum products is relatively limited with greater focus on importing crude oil to utilize domestic capacity (**Table-6 & Graph-4**).

Table-6: Imports & Exports of Petroleum Products during 1998-1999 to 2007-2008

Year	Imports of Petroleum Products (MMT)	% Growth	Exports of Petroleum Products (MMT)	% Growth
1998-99	23.772		0.720	
1999-00	16.608	-30.14	0.746	3.61
2000-01	9.267	-44.20	8.365	1021.31
2001-02	7.009	-24.37	10.065	20.32
2002-03	7.228	3.12	10.289	2.23
2003-04	8.001	10.69	14.620	42.09
2004-05	8.828	10.34	18.211	24.56
2005-06	13.440	52.24	23.461	28.83
2006-07	17.660	31.40	33.624	43.32
2007-08	22.462	27.19	40.779	21.28

Graph-4: Percentage Growth in Imports & Exports of Petroleum Products



Initiative taken to increase production performance during 2007-08:

Various initiatives have been taken to meet the demand of gas through intensification in domestic Exploration & Production activities, LNG import, CBM, underground Coal gasification, Gas Hydrates and transnational Gas Pipelines etc. It is projected that the production of crude oil will increase by 24% in Eleventh Plan period and its production will be doubled by the end of Eleventh Plan.

During the financial year (2007-08) following policy decisions were taken to increase production performance under Petroleum & Natural Gas Sector:

- In accordance with the Eleventh Plan approved, Crude Oil production is likely to increase by 24% in XI Plan and its production will double by the end of Plan.
- First commercial CBM gas production commenced in July 2007.
- Seventh round of NELP has been launched on 13th December 2007.
- Overseas oil and gas production in coming years is likely to be about 7 MMT and 2 BCM per annum respectively.
- 80% of India's sedimentary area will be under exploration by the end of XI Plan.
- Reserve replacement ratio to be maintained as more than one during XI Plan period.
- Assam Gas Cracker Project was formally launched in April 2007.

I.3 PROGRESS OF INDIAN PETROLEUM INDUSTRY 1947-48 TO 2007-08

Year	Balance of recoverable Reserves@		Crude Oil production	Natural gas production	Refinery crude throughput	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 POL	Index of Self Reliance
								Crude Oil	POL Products	Crude Oil & Pol. Products Qty.	Value		Imports	Exports			
	Crude Oil (MMT)	Natural Gas (BCM)	(MMT)	(BCM)	(MMT)	(MMT)	(MMT)	(MMT)	(MMT)	(MMT)	(Rs.Crore)	(Rs./MT)	(Rs. Crore)			(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	0	2.36	NA	NA	NA	NA	NA	NA	NA	9
1950-51	4	2	0.26	NA	2.26	0.23	3.46	0	3.11	NA	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	11.68 (107)	1.09 (30)	12.43	132	92	1634	1535	8.9	638	35
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	32
1990-91	739	686	33.02	18.0	51.77	48.57	55.04	20.70 (6118)	8.66 (4660)	26.71	9775	2956	43198	32553	33.1	9179	56
1995-96	732	676	35.17	22.6	58.74	55.08	74.83	27.34 (11517)	20.34 (12578)	44.24	22263	4212	122678	106353	22.7	15612	44
1996-97	729	641	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	34.49 (15872)	22.97 (14309)	55.08	28915	4602	154176	130101	23.2	20973	37
1998-99	716	675	32.72	27.4	68.54	64.54	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 (14185)	73.66	53516	6925	215236	159561	34.0	32662	31
2000-01	703	760	32.43	29.5	103.44	95.61	100.07	74.10 (65932)	9.27 (12093)	75.00	70353	8898	230873	203571	38.3	35912	30
2001-02	732	763	32.03	29.7	107.27	100.00	100.43	78.71 (60397)	7.01 (7249)	75.65	59427	7873	245200	209018	32.4	36104	30
2002-03	741	751	33.04	31.4	112.56	104.14	104.13	81.99 (76195)	7.23 (8847)	78.93	74174	9293	277206	255137	33.3	45127	30
2003-04	733	854	33.37	32.0	121.84	113.46	107.75	90.43 (83528)	8.00 (9723)	83.82	76470	9237	359108	293367	31.8	50733	29
2004-05	739	923	33.98	31.8	127.42	118.58	111.63	95.86 (117003)	8.83 (14887)	86.48	101962	12206	501065	375340	35.1	56395	28
2005-06	786	1101	32.19	32.2	130.11	119.75	113.21	99.41 (171702)	13.44 (27972)	89.39	149700	17272	660409	456418	43.7	63143	26
2006-07	756	1075	33.99	31.7	146.55	135.26	120.75	111.50 (219029)	17.66 (41160)	95.54	179095	19644	840506	571779	45.5	71893	26
2007-08(p)	725	1055	34.12	32.4	156.1	144.9	128.946	121.67 (272699)	22.46 (61000)	103.36	222911	22413	964850	640172	52.1	78373	25

Note: Figures in parenthesis relate to value in Rs. Crore.
NA: Not Available (P): Provisional
* Excluding RBF BCM: Billion Cubic Metres.
MMT: Million Metric Tonnes.
@: As on 1st January of the initial year upto 1992, thereafter 1st April.
Source: PPAC, PSUs, DGCI&S, Calcutta & Economic Survey.

I.4 COMMODITY BALANCE OF CRUDE OIL AND PETROLEUM PRODUCTS

(Million Tonnes)

ITEM	1950-51+	1960-61+	1970-71+	1980-81	1990-91	1995-96	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*
I. Crude Oil														
1. Refinery Throughput	0.3	6.6	18.4	25.8	51.8	58.7	103.4	107.3	112.6	121.8	127.4	130.1	146.6	156.1
2. Domestic Production	0.3	0.5	6.8	10.5	32.2	35.2	32.4	32.0	33.0	33.4	34.0	32.2	33.99	34.12
a) On-shore	0.3	0.5	6.8	5.5	11.8	11.9	11.8	11.9	11.5	11.5	11.6	11.4	11.33	11.21
b) Off-shore	-	-	-	5.0	20.4	23.3	20.6	20.1	21.5	21.9	22.4	20.8	22.66	22.91
3. Imports	N.A.	6.0	11.7	16.2	20.7	27.3	74.1	78.7	82.0	90.4	95.9	99.4	111.5	121.7
4. Exports	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5. Net Imports (3-4)	N.A.	6.0	11.7	16.2	20.7	27.3	74.1	78.7	82.0	90.4	95.9	99.4	111.5	121.7
II. Petroleum Products														
1. Domestic Consumption@	**3.3**	**7.7**	**17.9**	**30.9**	**55.0**	**74.8**	**100.1**	**100.4**	**104.1**	**107.8**	**111.6**	**113.2**	**120.7**	**128.9**
of which														
a) Naphtha $	-	-	0.9	2.3	3.4	4.2	11.7	11.7	11.9	11.9	14.0	12.2	13.9	13.3
b) Kerosene	0.9	2.0	3.3	4.2	8.4	9.9	11.3	10.4	10.4	10.2	9.4	9.5	9.5	9.4
c) High Speed Diesel Oil	0.2	1.2	3.8	10.3	21.1	32.3	37.9	36.5	36.6	37.1	39.7	40.2	42.9	48.3
d) Fuel Oils	0.9	1.7	4.7	7.5	9.0	11.2	12.7	13.0	12.7	12.9	13.6	12.8	12.6	12.7
2. Domestic Production $$	**0.2**	**5.7**	**17.1**	**24.1**	**48.6**	**55.1**	**95.6**	**100.0**	**104.1**	**113.5**	**118.6**	**119.8**	**135.3**	**144.9**
of which														
a) Naphtha	N.A.	-	1.2	2.1	4.9	6.0	9.9	9.2	9.7	11.3	14.1	14.5	16.7	16.4
b) Kerosene	N.A.	0.9	2.9	2.4	5.5	5.3	8.7	9.7	10.0	10.2	9.3	9.1	8.5	7.8
c) High Speed Diesel Oil	N.A.	1.1	3.8	7.4	17.2	20.7	39.1	39.9	40.2	43.3	45.9	47.6	53.5	58.4
d) Fuel Oils	N.A.	1.6	4.1	6.1	9.4	9.6	11.4	12.2	12.2	13.4	15	14.3	15.7	15.8
3. Imports	3.1	2.5	1.1	7.3	8.7	20.3	9.3	7.0	7.2	8.0	8.8	13.4	17.7	22.7
4. Exports @@	N.A.	N.A.	0.3	Neg	2.7	3.4	8.4	10.1	10.3	14.6	18.2	23.5	33.6	39.3
5. Net Imports (3-4)	N.A.	N.A.	0.8	7.3	6.0	16.9	0.9	-3.1	-3.1	-6.6	-9.4	-10.0	-16.0	-16.6

*: Provisional

+: On a calendar year basis.

@: Excluding refinery fuel consumption. Including import by private parties.

$: Includes NGL consumption from 1995-96 onwards.

N.A.: Not Available.

Neg: Negligible.

@@: Including supplies of POL products to Nepal till 1997-98.

$$: Excludes LPG production from fractionators.

I.5(a) GROWTH OF PETROLEUM INDUSTRY IN INDIA
(Calendar Year)

Year	Crude Oil		Petroleum Products		Gross Imports			Exports/Re-exports			Net Pol. Imports (Col.8-11)
	Production	Refinery Crude Throughput	Production	Consumption*	Crude Oil	Petroleum Products	Total	Crude Oil	Petroleum Products	Total	
	....000 Tonnes....				(....Rs.Crores....)						
1	2	3	4	5	6	7	8	9	10	11	12
1960	451	6091	5747	7964	40.57	41.02	81.59	-	4.61	4.61	76.98
1965	3022	9754	9113	12356	40.38	44.73	85.11	-	3.92	3.92	81.19
1970	6809	18459	17172	18816	102.36	30.53	132.89	-	5.72	5.72	127.17
1980	9399	25075	23597	31633	3038.66	1788.28	4826.94	-	17.98	17.98	4808.96
1990	32668	51671	48402	57943	5929.62	3541.64	9471.26	-	941.40	941.40	8529.86
1991	31006	50954	47916	58462	6827.57	5533.55	12361.12	-	1041.13	1041.13	11319.99
1992	27874	54254	51041	62092	10432.44	5711.16	16143.60	-	1658.33	1658.33	14485.27
1993	26508	53509	50396	62836	10916.90	7107.23	18024.13	-	1547.22	1547.22	16476.91
1994	30970	56407	52872	67373	9915.10	7438.77	17353.87	-	1580.74	1580.74	15773.13
1995	35048	57971	54379	73486	10856.71	10251.01	21107.72	-	1728.55	1728.55	19379.17
1996	32986	61704	57869	79500	17194.53	15454.63	32649.16	-	2050.49	2050.49	30598.67
1997	33831	64533	60631	82982	17061.19	14131.47	31192.66	-	1926.84	1926.84	29265.82
1998	32806	66672	62809	86507	14513.77	12784.00	27940.00	-	546.00	546.00	27394.00
1999	32628	79538	73100	94846	26341.48	13708.00	47458.00	-	600.00	600.00	46858.00
2000	32123	101788	95186	97117	65879.24	12616.00	72072.00	-	5929.00	5929.00	66143.00
2001	31972	106744	98977	106155	59768.00	8462.00	70243.00	-	8131.00	8131.00	62112.00
2002	32894	110148	101840	110053	69522.00	7655.00	77177.00	-	9243.00	9243.00	67934.00
2003	33015	118511	110099	113084	81161.00	9103.00	90264.00	-	15791.00	15791.00	74473.00
2004	34082	127755	118843	120170	108774.00	12062.00	120836.00	-	25611.00	25611.00	95225.00
2005	32458	127550	117245	119377	153217.00	23304.00	176521.00	-	40084.00	40084.00	136437.00
2006	33642	142417	131649	120137	219447.00	38296.00	257743.00	-	77115.00	77115.00	180628.00
2007(p)	34071	154695	143400	130444	265233.00	58534.00	323767.00	-	106646.00	106646.00	217121.00

(P): Provisional

*: Including Refinery Fuel. Including private sales from 2001 onwards.

Source: PPAC

I.5(b) GROWTH OF PETROLEUM INDUSTRY IN INDIA
(Financial Year)

Year	Crude Oil		Petroleum Products		Gross Imports			Exports/Re-exports			Net Pol. Imports (Col.8-11)
	Production	Refinery Crude Throughput	Production	Consumption	Crude Oil	Petroleum Products	Total	Crude Oil	Petroleum Products	Total	
	.....000 Tonnes.....				(.....Rs.Crores.....)						
1	2	3	4	5	6	7	8	9	10	11	12
1960-61	448(e)	6130	5777	8285	39.32	39.84	79.16	0	4.40(e)	0.00	74.60
1965-66	3473	10233	9561	12437	39.62	40.68	80.30	0	4.39	4.39	75.91
1970-71	6872	18379	17110	19135	106.72	29.91	136.63	0	4.67	4.67	131.96
1974-75	7684	21094	19603	23302	916.99	195.00	1111.99	0	17.40	17.40	1094.93
1980-81	10507	25836	24123	32261	3448.97	1917.52	5366.49	0	8.41	8.41	5258.08
1984-85	28990	35556	33236	40828	3430.34	1914.91	5345.25	1563	255.03	1818.19	3537.06
1989-90	34087	51942	48690	46789	4089.35	2254.71	6344.06	0	695.56	695.56	5648.50
1990-91	32160	51772	48562	57745	6118.42	4660.21	10778.63	0	1003.92	1003.92	9774.71
1991-92	30345	51423	48349	59603	7820.05	5218.27	13038.32	0	1214.65	1214.65	11823.67
1992-93	26950	53482	50359	61655	10685.86	6359.60	17045.46	0	1606.28	1606.28	15439.18
1993-94	27026	54296	51084	63648	10688.52	7041.43	17729.95	0	1508.81	1508.81	16221.14
1994-95	32494	56534	52927	70646$	10316.03	7521.71	17837.74	0	1587.38	1587.38	16250.36
1995-96	35168	58741	55081	78069$	11517.00	12577.85	24094.85	0	1831.98	1831.98	22262.87
1996-97	32900	62870	59004	82658$	18538.19	15633.49	34171.68	0	2079.65	2079.65	32092.03
1997-98	33858	65166	61308	87804$	15872.00	14309.00	30181.00	0	1266.00	1266.00	28915.00
1998-99	32722	68538	64544	94262$	14917.00	12276.00	27193.00	0	306.00	306.00	26887.00
1999-00	31949	85964	79411	102630$	40028.00	14186.00	54214.00	0	698.00	698.00	53516.00
2000-01	32426	103444	95614	106974$	65932.00	12093.00	78025.00	0	7672.00	7672.00	70353.00
2001-02	32032	107274	100004	107705$	60397.00	7249.00	67646.00	0	8219.00	8219.00	59427.00
2002-03	33044	112559	104140	111776$	76195.00	8847.00	85042.00	0	10868.00	10868.00	74174.00
2003-04	33373	121840	113463	115991$	83528.00	9723.00	93251.00	0	16781.00	16781.00	76470.00
2004-05	33981	127416	118579	120171$	117003.00	14887.00	131890.00	0	29928.00	29928.00	101962.00
2005-06	32190	130109	119750	122354$	171702.00	27972.00	199674.00	0	49974.00	49974.00	149700.00
2006-07	33988	146551	135260	131669$	219029.00	41160.00	260189.00	0	81094.00	81094.00	179095.00
2007-08(p)	34118	156103	144930	140967$	272699.00	61000.00	333699.00	0	110789.00	110789.00	222910.00

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

Source: PSUs & PPAC

I.6(a) PETROLEUM ENERGY IN INDIA 1990 TO 2007 (CALENDAR YEARS)

PRODUCTS	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007(p)
1	*2*	*3*	*4*	*4*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*
AVAILABILITY												
In Original Units (Million Tonnes)												
Kerosene	8.64	10.24	11.45	10.50	10.24	10.29	10.67	10.83	9.85	9.74	9.83	10.958
ATF	1.74	2.15	2.26	2.17	2.52	2.43	2.28	2.50	1.99	3.26	3.97	4.276
HSD	20.90	31.18	36.77	38.46	37.25	37.14	36.96	36.25	35.22	40.36	41.20	44.604
LDO	1.53	1.36	1.33	1.50	1.65	1.58	2.09	1.71	1.71	1.11	0.767	0.704
Fuel Oils	9.31	6.34	6.99	7.37	12.43	8.45	12.54	12.52	11.80	13.27	11.14	10.072
Others*	8.66	10.96	16.54	14.38	14.68	21.48	23.21	25.29	27.01	25.79	28.02	17.218
TOTAL	**50.78**	**62.23**	**75.34**	**74.38**	**78.77**	**81.37**	**87.75**	**89.10**	**87.58**	**93.52**	**94.92**	**87.83**
In Million Tonnes of Coal Equivalent Unit @												
Kerosene	17.28	20.48	22.90	21.00	20.48	20.58	21.34	21.66	19.70	19.48	19.66	21.92
ATF	3.48	4.30	4.52	4.34	5.04	4.86	4.56	5.00	3.98	6.52	7.94	8.56
HSD	41.80	62.36	73.54	76.92	74.50	74.28	73.92	72.50	70.44	80.72	82.40	89.20
LDO	3.06	2.72	2.66	3.00	3.30	3.16	4.18	3.42	3.42	2.22	1.54	1.40
Fuel Oils	18.62	12.68	13.98	14.74	24.86	16.90	25.08	25.04	23.60	26.54	22.28	20.14
Others*	17.32	21.92	33.08	28.76	29.36	42.96	46.42	50.58	54.02	51.58	56.04	34.44
TOTAL	**101.56**	**124.46**	**150.68**	**148.76**	**157.54**	**162.74**	**175.50**	**178.20**	**175.16**	**187.06**	**189.86**	**175.66**
In Million Tonnes of Coal Replacement Unit @												
Kerosene	69.12	81.92	91.60	84.00	81.92	82.92	85.36	86.64	78.80	77.92	78.64	87.68
ATF	13.05	16.12	16.95	16.28	18.90	18.23	17.10	18.75	14.93	24.45	31.76	34.24
HSD	188.10	280.62	330.93	346.14	335.25	334.26	332.64	326.25	316.98	363.24	329.60	356.80
LDO	13.17	12.24	11.97	13.50	14.85	11.06	18.81	15.39	15.39	9.99	6.16	5.60
Fuel Oils	18.62	12.66	13.98	14.74	24.86	16.90	25.08	25.04	23.60	26.54	89.12	80.56
Others*	51.31	54.78	88.49	77.65	85.87	81.62	88.89	94.58	99.15	100.22	224.16	137.76
TOTAL	**353.98**	**458.34**	**553.92**	**552.31**	**561.65**	**544.39**	**567.88**	**566.65**	**548.85**	**602.36**	**759.44**	**702.64**
CONSUMPTION#												
In Original Units (Million Tonnes)												
Kerosene	8.42	9.28	10.46	10.72	10.70	10.29	9.80	9.49	9.30	9.47	9.41	9.36
ATF	1.73	2.01	2.10	2.15	2.24	2.27	2.26	2.39	2.72	3.13	3.83	4.52
HSD	21.18	30.90	36.62	39.29	38.31	36.89	36.61	36.18	38.31	36.47	39.41	46.44
LDO	1.51	1.32	1.27	1.46	1.46	1.23	1.35	1.24	1.13	0.89	0.74	0.67
Fuel Oils	9.10	10.44	11.14	11.65	11.25	11.66	11.80	11.59	12.16	12.51	11.49	11.5
Others*	8.68	11.46	13.89	16.29	19.89	21.12	22.96	24.98	26.88	27.17	29.34	32.932
TOTAL	**50.62**	**65.41**	**75.46**	**81.56**	**83.85**	**78.80**	**84.78**	**85.87**	**90.50**	**89.63**	**94.23**	**105.42**
In Million Tonnes of Coal Equivalent Unit @												
Kerosene	16.84	18.56	20.22	21.44	21.40	20.58	19.60	18.98	18.60	18.94	18.83	18.72
ATF	3.46	4.02	4.20	4.30	4.47	4.54	4.52	4.78	5.44	6.25	7.66	9.04
HSD	42.36	61.84	73.24	78.58	76.62	73.78	73.22	72.36	76.62	72.93	78.82	92.88
LDO	3.02	2.64	2.54	2.92	2.92	2.46	2.70	2.48	2.26	1.78	1.48	1.34
Fuel Oils	18.20	20.88	22.28	23.30	22.51	14.00	23.60	23.18	24.32	25.02	22.98	23.00
Others*	17.36	22.96	27.78	32.58	39.78	14.24	45.92	49.96	53.76	54.34	58.69	65.86
TOTAL	**101.24**	**130.90**	**150.96**	**163.12**	**167.70**	**157.60**	**169.56**	**171.74**	**181.00**	**179.27**	**188.46**	**210.84**
In Million Tonnes of Coal Replacement Unit @												
Kerosene	67.36	74.24	83.68	85.76	85.59	82.32	78.40	75.92	74.40	75.78	75.31	74.88
ATF	12.98	15.08	15.75	16.13	16.77	17.03	16.95	17.93	20.40	23.45	28.73	33.90
HSD	190.62	278.10	329.58	353.61	344.79	332.01	329.49	325.62	344.79	328.20	354.69	417.96
LDO	13.59	11.88	11.43	13.14	13.14	8.61	12.15	11.16	10.17	8.01	6.68	6.03
Fuel Oils	18.20	20.88	22.28	23.30	22.51	14.00	23.60	23.18	24.32	25.02	22.98	23.00
Others*	51.45	61.31	74.31	87.97	114.77	180.26	87.09	91.97	97.48	99.83	109.59	109.59
TOTAL	**354.20**	**461.49**	**537.03**	**579.91**	**597.57**	**634.23**	**547.68**	**545.78**	**571.56**	**560.28**	**597.97**	**665.36**

(P)=Provisional

@ : Based on conversion factors adopted by FPC, 1974

* : Includes LPG, Gasolines,Refinery Gas and Refinery Fuel.

(#) : Includes Petroleum Products used for power generation.

I.6(b) PETROLEUM ENERGY IN INDIA 1990-91 TO 2007-08 (FINANCIAL YEARS)

PRODUCTS	1990-91	1995-96	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08(p)
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*
AVAILABILITY										
In Original Units (Million Tonnes)										
Kerosene	8.81	10.27	10.63	10.07	10.73	10.99	9.50	9.84	9.76	10.146
ATF	1.83	2.22	2.51	2.40	2.36	2.63	2.78	3.42	4.16	4.624
HSD	21.87	33.51	37.46	37.04	37.14	37.24	39.75	39.84	43.06	46.985
LDO	1.51	1.35	1.48	1.70	2.08	1.66	1.55	0.92	0.80	0.671
Fuel Oils	9.43	10.79	12.61	13.17	12.30	13.02	13.76	13.29	14.92	9.161
Others*	8.75	10.60	15.89	22.21	24.02	25.64	27.10	26.03	28.75	19.733
TOTAL	52.20	68.74	80.58	86.59	88.63	91.18	94.44	93.34	101.45	91.32
In Million Tonnes of Coal Equivalent Unit @										
Kerosene	17.62	20.54	21.26	20.14	21.46	21.98	19.00	19.68	19.52	20.30
ATF	3.66	4.44	5.02	4.82	4.72	5.26	5.56	6.84	8.32	9.24
HSD	43.74	67.02	74.92	73.82	74.28	74.48	79.50	79.68	86.12	93.98
LDO	3.02	2.70	2.96	3.40	4.16	3.32	3.10	1.84	1.60	1.34
Fuel Oils	18.86	21.58	25.22	16.86	24.60	26.04	27.52	26.58	29.84	18.32
Others*	17.50	21.20	31.78	44.42	48.04	51.28	54.20	52.06	57.50	39.46
TOTAL	104.40	137.48	161.16	163.46	177.26	182.36	188.88	186.68	202.90	182.64
In Million Tonnes of Coal Replacement Unit @										
Kerosene	70.48	84.16	85.04	80.56	85.84	87.92	76.00	78.72	78.08	81.20
ATF	13.72	16.65	18.83	18.08	17.70	19.73	20.85	25.65	33.28	36.96
HSD	196.83	301.59	336.70	332.19	334.26	335.16	357.75	358.56	344.48	375.92
LDO	13.59	12.15	10.36	11.90	18.72	14.94	13.95	8.28	6.40	5.36
Fuel Oils	18.86	10.79	25.22	16.86	24.60	26.04	27.52	26.58	119.36	73.28
Others*	51.93	56.71	76.73	84.40	92.18	95.38	100.47	99.99	230.00	157.84
TOTAL	365.41	482.05	552.88	543.99	573.30	579.17	596.54	597.78	811.60	730.56
CONSUMPTION#										
In Original Units (Million Tonnes)										
Kerosene	8.42	9.93	11.31	10.43	10.41	10.23	9.40	9.38	9.51	9.37
ATF	1.68	2.08	2.25	2.26	2.27	2.48	2.81	3.30	3.98	4.54
HSD	21.14	32.26	37.96	36.55	36.64	37.07	39.65	40.12	42.90	47.67
LDO	1.51	1.31	1.40	1.59	2.06	1.62	1.48	0.88	0.72	0.67
Fuel Oils	8.99	11.16	12.65	12.98	12.74	12.95	13.56	12.76	12.62	12.71
Others*	8.68	11.84	20.53	22.01	23.57	25.44	27.40	28.06	31.05	34.25
TOTAL	50.42	68.58	86.10	85.82	87.69	89.79	94.30	94.51	100.78	109.21
In Million Tonnes of Coal Equivalent Unit @										
Kerosene	16.84	19.86	22.62	20.86	20.82	20.46	18.80	18.75	19.01	18.74
ATF	3.36	4.16	4.50	4.52	4.54	4.96	5.62	6.59	7.97	9.08
HSD	42.28	64.52	75.92	73.10	73.28	74.14	79.30	80.25	85.79	95.34
LDO	3.02	2.62	2.80	3.18	4.12	3.24	2.96	1.77	1.44	1.34
Fuel Oils	17.98	22.32	25.30	25.96	25.48	25.90	27.12	25.53	25.24	25.42
Others*	17.36	23.68	41.06	44.02	47.14	50.88	54.80	56.13	62.11	68.50
TOTAL	100.84	137.16	172.20	171.64	175.38	179.58	188.60	189.01	201.55	218.42
In Million Tonnes of Coal Replacement Unit @										
Kerosene	67.36	79.44	90.48	83.44	83.28	81.84	75.20	75.02	76.04	74.96
ATF	12.60	15.60	16.88	16.95	17.03	18.60	21.08	24.71	31.86	36.32
HSD	190.26	290.34	341.64	328.95	329.76	333.63	356.85	361.12	343.17	381.36
LDO	13.59	11.79	12.60	14.31	18.54	14.58	13.32	7.95	5.76	5.36
Fuel Oils	17.98	22.32	25.30	25.96	25.48	25.90	27.12	25.53	100.94	101.68
Others*	51.41	70.62	76.63	82.04	88.77	94.30	99.45	103.68	248.43	273.98
TOTAL	353.20	490.11	563.53	551.65	562.86	568.85	593.02	598.00	806.21	873.66

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

@ : Based on conversion factors adopted by FP((#) : 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 1980-81 TO 2007-08

YEAR	ONSHORE			OFFSHORE			TOTAL		
	Rigs (Nos.)	Wells (Nos.)	Metreage ('000')	Rigs (Nos.)	Wells (Nos.)	Metreage ('000')	Rigs (Nos.)	Wells (Nos.)	Metreage ('000')
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*
				(A) OIL & NATURAL GAS (COMMISSION) CORPORATION LTD.					
1980-81	34	72	134	7	32	78	41	104	212
1984-85	5	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
1995-96	91	328	728	21	79	163	112	407	891
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	226	522	20	63	146	95	291	668
2000-01	75	237	558	18	52	116	93	289	674
2001-02	75	261	583	19	43	112	94	304	695
2002-03	73	275	580	23	65	194	96	340	774
2003-04	72	232	508	29	89	229	101	321	737
2004-05	72	295	641	29	69	223	101	364	864
2005-06	70	196	433	28	74	242	98	270	675
2006-07	70	199	426	25	66	201	95	265	627
2007-08*	71	234	476	25	88	258	96	322	734
				(B) OIL INDIA LIMITED					
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
1995-96	15	20	78	1	1	5	16	21	83
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
2001-02	16	22	97	-	-	-	16	22	97
2002-03	13	37	130	-	-	-	13	37	130
2003-04	13	33	109	-	-	-	13	33	109
2004-05	13	45	154	-	-	-	13	45	154
2005-06	14	31	125	-	-	-	14	31	125
2006-07	13	32	115	-	-	-	13	32	115
2007-08*	13	37	138	-	-	-	13	37	138
				TOTAL (A+B)					
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
1995-96	106	348	806	22	80	168	128	428	974
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	37	758
2000-01	91	262	647	18	52	116	109	314	763
2001-02	91	283	680	19	43	112	110	326	792
2002-03	86	312	710	23	65	194	109	377	904
2003-04	85	265	617	29	89	229	114	354	846
2004-05	85	340	795	29	69	223	114	409	1018
2005-06	84	227	558	28	74	242	112	301	800
2006-07	83	231	541	25	66	201	108	297	742
2007-08*	84	271	614	25	88	258	109	359	872

Source: PSUs.

*: Provisional.

II.2 EXPLORATORY & DEVELOPMENT DRILLING BY ONGC & OIL

Year	Exploratory		Development		Total	
	Wells (Nos.)	Metreage ('000')	Wells (Nos.)	Metreage ('000')	Wells (Nos.)	Metreage ('000')
1	2	3	4	5	6	7
			(A) ONSHORE			
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
1995-96	177	427	171	334	348	761
1998-99	110	273	124	267	234	540
1999-00	123	337	121	275	244	612
2000-01	124	331	132	316	256	647
2001-02	140	380	143	300	283	680
2002-03	139	332	173	378	312	710
2003-04	107	287	158	330	265	617
2004-05	84	217	180	399	264	616
2005-06	82	236	145	323	227	559
2006-07	74	187	157	354	231	541
2007-08*	79	209	192	404	271	613
			(B) OFFSHORE			
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
1995-96	27	77	52	86	79	163
1998-99	25	60	34	85	58	145
1999-00	28	87	35	59	63	146
2000-01	30	68	22	48	52	116
2001-02	15	45	28	67	43	112
2002-03	20	58	45	136	65	194
2003-04	30	87	59	142	89	229
2004-05	33	112	36	111	69	223
2005-06	32	106	42	137	74	243
2006-07	22	76	44	125	66	201
2007-08*	27	84	61	174	88	258
			TOTAL (A+B)			
1980-81	59+1P	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
1995-96	204	504	223	470	427	924
1998-99	135	333	158	352	293	685
1999-00	151	424	156	334	307	758
2000-01	154	399	154	364	308	763
2001-02	155	425	171	367	326	792
2002-03	159	390	218	514	377	904
2003-04	137	374	217	472	354	846
2004-05	117	329	216	510	333	839
2005-06	114	342	187	460	301	802
2006-07	96	263	201	479	297	742
2007-08*	106	293	253	578	359	871

P : Partly Drilled. *: Provisional Source: PSUs

II.3 STATUS OF WELLS

(Numbers)

Company / Year #	Oil	Gas	Dry	Under Test	Injec-tion	Others	Total
1	2	3	4	5	6	7	8
			(A) ASSAM OIL COMPANY / ASSAM OIL DIVISION				
1985	438	4	305	7	7	247	1001
1990	253	1	305	-	7	435	1001
1995	209	1	305	-	2	480	1001
2000	693	-	305	-	-	3	1001
2001	693	-	305	-	-	3	1001
2002	693	-	305	-	-	3	1001
2003	693	-	305	-	-	3	1001
2004**							
			(B) OIL INDIA LIMITED				
1985	321	42	49	35	50	31	528
1990	422	53	66	36	62	70	709
1995	418	69	92	79	46	160	864
2000	695	100	107	-	47	54	1003
2001	719	104	109	-	46	54	1032
2002	659	95	151	52	47	52	1056
2003	684	95	151	52	47	59	1088
2004	485	118	417	52	102	934	2108
2005	476	125	418	57	103	960	2139
2006	476	125	417	55	103	959	2135
2007*	468	129	428	57	104	976	2162
			(C) OIL & NATURAL GAS (COMMISSION) CORPORATION LTD.				
1985	1434	170	659	216	67	-	2546
1990	2579	302	1128	69	198	303	4579
1995	3488	410	1797	135	534	535	6899
2000	3939	548	2178	75	659	906	8305
2001	4072	552	2266	68	690	940	8588
2002	4265	575	2390	70	852	734	8885
2003	4465	596	2450	92	867	737	9207
2004	4620	620	2514	115	885	741	9495
2005	4769	649	2571	133	899	744	9765
2006	4906	682	2623	143	922	754	10030
2007*	5095	717	2663	167	948	762	10352
			TOTAL (A+B+C)				
1985	2186	216	1011	258	124	278	4073
1990	3254	356	1499	105	267	808	6289
1995	4115	480	2194	214	737	1175	8764
2000	5327	648	2590	75	706	963	10309
2001	5484	656	2080	68	736	997	10621
2002	5617	670	2846	122	899	789	10942
2003	5842	691	2906	144	914	799	11296
2004	5105	718	2931	167	932	1675	11603
2005	5245	774	2989	190	1002	1704	11904
2006	5382	807	3040	198	1025	1713	12165
2007*	5563	846	3091	224	1052	1738	12514

*: Provisional. **: Included in OIL figures. #: As on 1st April of each Year

Note: The exloration activities of Assam Oil Company were vested in Oil India Ltd. w.e.f. 14.10.1981.

Source: PSUs.

II. 4 STATEWISE GEOLOGICAL SURVEYS ACHIEVEMENTS UPTO 31.3.2008

STATES	GEOLOGICAL SURVEYS (Sq. Km)
1	*2*
Andhra Pradesh	53427
A.N. Islands	6860
Arunachal Pradesh	3692
Assam	48073
Bihar (incl. Jharkhand)	4035
Gujarat (Gulf Of Cambay)	60625
Himachal Pradesh*	9948
Jammu & Kashmir**	22970
Kerala-Karnataka (incl. Goa)	4000
Madhya Pradesh*	39221
Chhattisgarh**	5920
Manipur	2781
Meghalaya	1911
Mizoram	6194
Nagaland	6971
Rajasthan	45501
Sikkim	720
Tamil Nadu (Incl. Pondicherry)	20003
Tripura	21263
Uttar Pradesh (incl. Uttarakhand)	29797
West Bengal	8808
Total	**402720**

Source: ONGC and OIL.

*: In addition, geological traversing has been carried out in Himachal Pradesh (303.68 LKM) and Madhya Pradesh (455 LKM).

**: Including semi detailed mapping.

II. 5 STATEWISE ACHIEVEMENTS OF GEOPHYSICAL FIELD PARTIES IN INDIA SINCE INCEPTION UPTO 31.3.2008

AREA / STATE	2D		3D
	LK	GLK	SQK
1	2	3	4
OIL INDIA LTD.			
(A) ONSHORE			
Assam / Arunachal Pradesh		24181.25	5558.81
Rajasthan		12973.00	612.50
Orissa		4277.68	0.00
UP & Uttaranchal		6222.50	0.00
Total(A)		**47654.43**	**6171.31**
(B) OFFSHORE			
Orissa	13842		0
Andaman	201		0
Saurashtra	8767		332
Total(B)	**22810**		**332**

OIL & NATURAL GAS CORPORATION LTD.

	Seismic	
	2D-GLK	3D-SQK
(A) ONSHORE		
Andhra Pradesh	39231.80	4217.64
Assam	30713.45	3153.70
Bihar	7049.25	0.00
Gujarat	104651.50	7135.68
Himachal Pradesh	4249.58	0.00
Haryana	1038.00	0.00
Jammu & Kashmir	2563.00	0.00
Madhya Pradesh	10021.12	0.00
Chhattisgarh	202.00	0.00
Meghalaya	204.55	0.00
Mizoram	209.05	0.00
Nagaland	566.93	0.00
Orissa	313.00	0.00
Punjab	4078.00	0.00
Rajasthan	20570.43	549.67
Tamil Nadu	40823.26	6085.25
Tripura	5466.04	423.32
Uttar Pradesh	27791.19	0.00
Uttaranchal	1522.00	0.00
West Bengal	29243.00	596.02
TOTAL ONSHORE	**330507.15**	**22161.28**
(B) OFFSHORE		
West Coast	461651.71	69136.70
East Coast	152879.35	53278.33
TOTAL OFFSHORE	**614531.06**	**122415.03**
TOTAL ONGC	**945038.21**	**144576.31**

GLK: Ground Line Kilometre. LK: Line Kilometre.
SQK: Square Kilometre.

II.6 BASINWISE/STATEWISE ACHIEVEMENT OF DRILLING SINCE INCEPTION UPTO 31.3.2008

BASIN	STATE / REGION	Wells Numbers	Metreage ('000')
1	*2*	*3*	*4*
A. ONSHORE			
Cambay	Gujarat	5769	9996.23
Rajasthan	Rajasthan	133	305.79
	Total WRBC	**5902**	**10302.02**
	Nagaland	36	126.84
Upper Assam	Assam	2526	8661.76
	Meghalaya	5	5.90
Assam-Arakan	Arunachal Pradesh	58	137.06
Fold Belt	Mizoram under ERBC	2	5.91
	Total ERBC	**2627**	**8937.47**
Assam-Arakan	Tripura	131	366.49
Foot hills &	West Bengal	31	124.72
Ganga Valley	Bihar	6	29.82
	Orissa	4	8.70
	Total CRBC	**172**	**529.73**
Himalayan Foot-hills,	Himachal Pradesh	12	48.73
Ganga Valley &	Punjab	4	15.54
Vindhyan/Gondwana	Uttar Pradesh	9	35.78
	Madhya Pradesh under NRBC	5	19.01
	Jammu & Kashmir	4	12.02
	Total NRBC	**34**	**131.08**
Krishna-Godavari	Andhra Pradesh	469	1364.55
Cauvery	Tamil Nadu	535	1346.42
	Total SRBC	**1004**	**2710.97**
TOTAL ONSHORE (A)		**9739**	**22611.27**
B. OFFSHORE			
East Coast	East Coast including KG, Cauvery	219	673.39
West Coast	West Coast including drilling in Orissa, Andaman & Saurashtra	2210	5291.55
TOTAL OFFSHORE (B)		**2429**	**5964.94**
TOTAL (A+B)		**12168**	**28576.21**

II.7 STATE-WISE / BASIN-WISE OIL AND GAS FIELDS IN INDIA AS ON 1.4.2008

(Number)

Company / State	Basin	Oil Fields	Gas Fields	Oil and Gas Fields	Total Fields
1	*2*	*3*	*4*	*5*	*6*
A. OIL & NATURAL GAS CORPN. LTD.		**15**	**118**	**219**	**352**
a) ONSHORE					
Gujarat	Cambay	5	7	84	96
Assam	Upper Assam	2	0	29	31
	A&AA	0	4	2	6
Rajasthan	Jodhpur	0	7	0	7
Andhra Pradesh	K.G. Basin	0	34	11	45
Tamil Nadu	Cauvery	1	7	18	26
Tripura	AAFB	0	9	0	9
Nagaland	A&AA	2	0	1	3
b) OFFSHORE					
East Coast	Cauvery Offshore	0	1	3	4
	KG Offshore(Shallow)	0	4	5	9
	KG Offshore(Deep)	0	10	4	14
	Mahanadi	0	3	0	3
	Andaman	0	1	0	1
West Coast	Cambay	0	0	2	2
	Mumbai Offshore	5	27	59	91
	Kutch	0	4	1	5
B. OIL INDIA LTD.		**1**	**3**	**15**	**19**
Assam	Upper Assam	0	0	14	14
Arunachal Pradesh	Upper Assam	0	0	1	1
Rajasthan	Jaisalmer	0	3	0	3
	Bikaner Nagaur	1	0	0	1
C. PRIVATE/JVCs		**0**	**5**	**27**	**32**
a) ONSHORE					
Gujarat	Cambay	0	3	19	22
Arunachal Pradesh	AAFB	0	0	1	1
Assam	Assam	0	0	1	1
Rajasthan		0	0	1	1
West Bengal	Ranigunj (South)	0	1	0	1
b) OFFSHORE					
East Coast	Cauvery / KG Basin	0	1	2	3
West Coast	Bombay / Cambay	0	0	3	3
Grand Total		**16**	**126**	**261**	**403**

AAFB : Assam Arakan Fold Belt.

A&AA : Assam & Assam Arakan.

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
1966	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	144.08	172.86	3.68	5.78	353.89	51.91	732.20
2002	148.09	173.79	3.77	5.97	348.11	60.82	740.55
2003	146.08	180.85	4.45	7.38	336.69	85.66	761.11
2004	174.83	170.22	4.28	8.01	321.20	60.54	739.08
2005	191.98	171.59	4.71	8.18	366.51	43.07	786.04
2006	204.42	170.59	4.52	7.98	336.44	32.11	756.06
2007	131.62	133.76	4.40	8.09	420.65	26.86	725.38
2008	135.37	173.12	4.37	7.98	424.62	24.66	770.12

@ : Proved and indicated Balance Recoverable Reserves

1: Includes Nagaland, Tripura and Arunachal Pradesh reserves of crude oil.

2. Includes Bombay High offshore, Rajasthan and JVC.

3. Includes JVC/Pvt. Parties.

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

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	3070	-	3632	6809	-	-	6809	48410
1975	68	3087	-	5128	8283	-	-	8283	85939
1980	41	796	-	4033	4870	4529	-	9399	138292
1985	-	2635	-	6580	9215	20645	-	29860	255892
1990	-	2692	-	9252	11944	20724	-	32668	415124
1991	-	2578	-	9035	11613	19393	-	31006	446130
1992	-	2486	-	8779	11265	16609	-	27874	474004
1993	-	2738	-	8688	11426	15082	-	26508	500512
1994	-	2899	-	9107	12006	18900	64	30970	531482
1995	-	2867	17	9050	11934	22656	458	35048	566530
1996	-	2858	36	8641	11535	20526	925	32986	599516
1997	-	3040	41	8388	11469	20088	2274	33831	633347
1998	-	3246	66	8215	11527	18605	2674	32806	666153
1999	-	3298	95	7878	11271	17378	3979	32628	698781
2000	-	3269	80	8318	11667	16474	3982	32123	730904
2001	-	3256	72	8612	11940	15991	4041	31972	762876
2002	-	2987	73	8535	11595	17203	4096	32894	795770
2003	-	2946	73	8374	11393	17523	4099	33015	828785
2004	-	3144	74	8326	11544	18267	4271	34082	862867
2005	-	3280	90	8100	11470	16652	4336	32458	895325
2006	-	3123	151	8135	11409	17553	4680	33642	928967
2007	-	3028	185	7929	11142	18117	4812	34071	963038

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

Source: PSU/JVC

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

('000 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
1971-72	997	3159	4003	-	8159	-	-	8159	57602
1972-73	90	3131	4100	-	7321	-	-	7321	64923
1973-74	82	3079	4028	-	7189	-	-	7189	72112
1974-75	71	3079	4534	-	7684	-	-	7684	79796
1975-76	66	3103	5279	-	8448	-	-	8448	88244
1976-77	62	3085	5345	-	8492	406	-	8898	97142
1977-78	57	3113	5519	-	8689	2074	-	10763	107905
1978-79	53	2671	5599	-	8323	3310	-	11633	119538
1979-80	40	2215	5089	-	7344	4422	-	11766	131304
1980-81	48	1243	4231	-	5522	4985	-	10507	141811
1981-82	(a)23	995	5201	-	6196	7975	-	14171	158005
1982-83	-	2830	5356	-	8186	12877	-	21063	179068
1983-84	-	2873	5755	-	8628	17392	-	26020	205088
1984-85	-	2735	6119	-	8854	20136	-	28990	234078
1985-86	-	2654	6691	-	9345	20823	-	30168	264246
1986-87	-	2621	7241	-	9862	20618	-	30480	294726
1987-88	-	2448	7745	-	10193	20164	-	30357	325083
1988-89	-	2425	8503	-	10928	21112	-	32040	357123
1989-90	-	2704	9667	-	12371	21716	-	34087	391210
1990-91	-	2647	9137	-	11784	20376	-	32160	423370
1991-92	-	2529	8855	-	11384	18961	-	30345	453715
1992-93	-	2523	8681	-	11204	15746	-	26950	480665
1993-94	-	2811	8840	-	11651	15375	-	27026	507691
1994-95	-	2883	9130	4	12017	20226	251	32494	540185
1995-96	-	2882	8971	26	11879	22665	624	35168	575353
1996-97	-	2870	8504	38	11412	20181	1307	32900	608253
1997-98	-	3094	8387	42	11523	19863	2472	33858	642111
1998-99	-	3295	8100	77	11472	18285	2965	32722	674833
1999-00	-	3283	7921	94	11298	16727	3924	31949	706782
2000-01	-	3286	8428	77	11791	16629	4006	32426	739208
2001-02	-	3182	8636	71	11889	16074	4069	32032	771240
2002-03	-	2951	8445	75	11471	17560	4013	33044	804284
2003-04	-	3002	8380	74	11456	17677	4240	33373	837657
2004-05	-	3196	8321	74	11591	18164	4226	33981	871638
2005-06	-	3234	8095	101	11430	16309	4451	32190	903828
2006-07	-	3107	8058	161	11326	17993	4669	33988	937816
2007-08*	-	3100	7921	192	11213	18020	4885	34118	971934

* Provisional

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

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

(000 Tonnes)

Year	ONSHORE					OFFSHORE		Grand Total
	Arunachal Pradesh	T. Nadu/ Andhra Pradesh	Assam Nagaland	Gujarat	Total	Andhra Pradesh/ T. 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	-	1056	3812	4870	-	4529	9399
1985	60	-	4879	4576	9515	-	20645	30160
1990	39	314	5192	6399	11944	-	20724	32668
1991	41	313	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	30970
1995	27	491	5038	6378	11934	458	22656	35048
1996	36	390	4834	6278	11538	925	20526	32989
1997	39	374	5058	5998	11469	2274	20088	33831
1998	72	442	5105	5908	11527	2674	18605	32806
1999	100	504	4947	5720	11271	3979	17378	32628
2000	84	631	5183	5769	11667	3982	16474	32123
2001	68	746	5150	5976	11940	4041	15991	31972
2002	72	705	4787	6031	11595	4096	17203	32894
2003	75	662	4535	6121	11393	4099	17523	33015
2004	82	617	4679	6166	11544	4271	18267	34082
2005	97	609	4565	6199	11470	4336	16652	32458
2006	110	606	4413	6280	11409	4680	17553	33642
2007*	105	582	4287	6168	11142	4812	18117	34071
			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	41	316	5070	6357	11784	-	20376	32160
1991-92	41	319	4989	6035	11384	-	18961	30345
1992-93	59	352	4986	5807	11204	-	15746	26950
1993-94	49	537	5089	5976	11651	-	15375	27026
1994-95	34	656	5044	6283	12017	251	20226	32494
1995-96	28	418	5046	6386	11878	624	22665	35167
1996-97	36	381	4811	6184	11412	1307	20181	32900
1997-98	39	390	5116	5978	11523	2472	19863	33858
1998-99	83	449	5080	5860	11472	2965	18285	32722
1999-00	100	523	4972	5703	11298	3924	16727	31949
2000-01	78	699	5199	5815	11791	4006	16629	32426
2001-02	68	724	5095	6002	11889	4069	16074	32032
2002-03	74	695	4660	6042	11471	4013	17560	33044
2003-04	77	656	4592	6131	11456	4240	17677	33373
2004-05	83	617	4701	6189	11590	4226	18165	33981
2005-06	103	601	4475	6251	11430	4451	16309	32190
2006-07	108	605	4400	6213	11326	4669	17993	33988
2007-08*	102	577	4357	6177	11213	4885	18020	34118

*. Provisional.

IV. NATURAL GAS

IV.1 RESERVES @ OF NATURAL GAS IN INDIA

(Billion Cubic Metres)

Year	Gujarat	Assam(1)	Andhra Pradesh	Tamil Nadu	Western(2) Offshore	Eastern(3) Offshore	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	388.25	35.60	692.26
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	82.53	156.29	39.52	20.62	447.48	13.57	760.01
2001	83.51	156.29	39.65	21.95	442.58	18.97	762.95
2002	91.79	160.96	40.36	22.05	410.37	25.18	750.71
2003	96.22	164.37	42.07	24.76	392.66	133.40	853.48
2004	95.87	172.95	41.75	28.00	394.13	190.10	922.80
2005	93.11	174.94	42.28	29.57	374.69	386.40	1100.99
2006	84.96	174.68	41.46	28.78	344.44	400.83	1075.15
2007	76.72	119.74	40.92	28.72	369.36	419.12	1054.58
2008	73.75	112.34	40.33	27.77	392.95	442.83	1089.97

@ : Proved and indicated Balance Recoverable Reserves.

1: Includes Nagaland, Tripura and Arunachal Pradesh reserves of natural gas.

2. Includes Bombay High offshore, Rajasthan and Madhya Pradesh(Coal Bed Methane).

3. Includes West Bengal (CBM).

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

Source: ONGC/OIL and DGH.

IV.2(a) STATE-WISE GROSS PRODUCTION OF NATURAL GAS IN INDIA

(Million Cubic Metres)

Year	ONSHORE								OFFSHORE			Grand Total
	Assam/ Nagaland	Gujarat	Rajas-than	Tamil Nadu	Andhra Pradesh	Tripura	Arunachal Pradesh	Total	Eastern Offshore	Bombay High/ Western Offshore	Total	
						Calendar Years						
1970	966	458	-	-	-	-	-	1424	-	-	-	1424
1975	1550	760	-	-	-	-	-	2310	-	-	-	2310
1980	621	868	-	-	-	-	-	1489	-	588	588	2077
1985	2049	884	-	-	-	-	4	2937	-	4971	4971	7908
1990	2015	1645	-	74	23	58	27	3842	-	14021	14021	17863
1992	2054	1957	-	48	402	113	49	4623	-	13749	13749	18372
1993	1985	2082	-	74	603	101	49	4894	-	13229	13229	18123
1994	1937	2395	-	89	646	94	39	5200	4	14231	14235	19435
1995	1861	2796	8	115	660	122	33	5595	18	15813	15831	21426
1996	1939	2935	12	99	732	156	30	5903	42	17430	17472	23375
1997	1987	3118	110	93	975	176	28	6487	235	18574	18809	25296
1998	2047	3259	162	102	1185	290	36	7081	388	20185	20573	27654
1999	2076	3312	151	128	1346	342	43	7398	380	20194	20574	27972
2000	2216	3133	158	177	1509	352	15 $	7560	363	21377	21740	29300
2001	2065	3245	144	329	1746	425	3 $	7957	459	21213	21672	29629
2002	2032	3486	116	390	2023	418	6 $	8471	829	21442	22271	30742
2003	2210	3537	171	593	1959	506	9 $	8985	892	22329	23221	32206
2004	2231	3521	191	661	1747	493	40	8884	1041	21750	22791	31675
2005	2392	3802	239	841	1679	502	44	9499	1008	21492	22500	31999
2006	2483	3547	244	1091	1560	500	41	9466	878	21444	22322	31788
2007*	2581	2968	253	1165	1548	530	31	9076	892	22430	23322	32398

*:Provisional.

$: Oil India Ltd.'s share is included in Assam.

IV.2(b) STATE-WISE GROSS PRODUCTION OF NATURAL GAS IN INDIA

(Million Cubic Metres)

Year	ONSHORE								OFFSHORE			Grand Total
	Assam/ Nagaland	Gujarat	Rajas-than	Tamil Nadu	Andhra Pradesh	Tripura	Arunachal Pradesh	Total	Eastern Offshore	Bombay High/ Western Offshore	Total	
						Financial Years						
1970-71	980	465	-	-	-	-	-	1445	-	-	0	1445
1975-76	1595	773	-	-	-	-	-	2368	-	-	0	2368
1980-81	843	842	-	-	-	-	-	1685	-	673	673	2358
1985-86	2029	919	-	-	-	-	6	2954	-	5180	5180	8134
1990-91	2010	1696	-	64	47	70	29	3916	-	14082	14082	17998
1992-93	2034	1946	-	54	507	115	52	4708	-	13353	13353	18061
1993-94	1979	2166	-	76	610	102	47	4980	-	13356	13356	18336
1994-95	1909	2462	-	98	640	97	37	5243	10	14215	14225	19468
1995-96	1881	2887	12	117	679	130	33	5739	15	16888	16903	22642
1996-97	1942	2956	10	92	800	154	29	5983	80	17193	17273	23256
1997-98	2017	3175	149	95	1023	196	29	6684	284	19433	19717	26401
1998-99	2056	3279	164	106	1218	307	38	7168	395	19865	20260	27428
1999-00	2084	3271	151	138	1363	353	44	7404	369	20673	21042	28446
2000-01	2204	3149	160	200	1604	376	32	7725	369	21383	21752	29477
2001-02	1992	3280	101	349	1797	416	32	7967	574	21173	21747	29714
2002-03	2047	3531	162	466	2038	446	36	8726	831	21832	22663	31389
2003-04	2204	3517	168	605	1927	508	44	8973	923	22066	22989	31962
2004-05	2248	3711	213	678	1707	496	40	9093	1062	21608	22670	31763
2005-06	2408	3831	242	906	1663	480	48	9578	980	21644	22624	32202
2006-07	2526	3294	242	1130	1525	520	35	9272	857	21618	22475	31747
2007-08*	2598	2931	255	1169	1567	534	30	9084	892	22426	23318	32402

*:Provisional.

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

(Million cubic metres)

Period	Gross Prodn.	Sales	Flarred	Net availability$
1	*2*	*3*	*4*	*5*
		ONSHORE		
Gujarat				
1970-71	465	NA	135	330
1975-76	773	629	138	635
1980-81	842	654	165	677
1985-86	919	709	118	801
1990-91	1696	986	402	1294
1995-96	2887	2408	280	2607
1998-99	3279	2530	400	2879
1999-00	3271	2512	417	2854
2000-01	3149	2407	436	2713
2001-02	3280	2396	401	2879
2002-03	3531	2829	322	3209
2003-04	3517	2945	128	3389
2004-05	3711	3071	48	3663
2005-06	3831	3056	21	3810
2006-07	3294	2713	17	3277
2007-08*	2931	2352	18	2913
Rajasthan				
1995-96	12	12	0	12
1998-99	164	159	0	164
1999-00	151	147	0	151
2000-01	160	155	0	160
2001-02	100	95	0	100
2002-03	162	158	0	162
2003-04	168	163	2	166
2004-05	213	208	2	211
2005-06	242	238	0	242
2006-07	242	237	1	241
2007-08*	255	248	3	252
Assam / Arunachal Pradesh				
1970-71	980	250	607	373
1975-76	1595	384	946	649
1980-81	843	374	262	581
1985-86	2035	728	887	1148
1990-91	2039	925	622	1316
1995-96	1914	1005	404	1510
1998-99	2094	1252	322	1772
1999-00	2128	1351	237	1891
2000-01	2236	1478	219	2017
2001-02	2025	1326	179	1846
2002-03	2083	1363	185	1898
2003-04	2248	1506	201	2047
2004-05	2288	1521	229	2059
2005-06	2455	1714	205	2250
2006-07	2561	1808	232	2329
2007-08*	2628	1875	214	2414

$: Includes internal consumption

*: Provisional.

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

(Million cubic metres)

Period	Gross Prodn.	Sales	Flarred	Net availability$
1	*2*	*3*	*4*	*5*
Tripura				
1985-86	0	0	0	0
1990-91	70	70	0	70
1995-96	130	130	0	130
1998-99	307	306	1	307
1999-00	353	352	0	353
2000-01	376	375	0	376
2001-02	416	415	0	416
2002-03	446	445	0	446
2003-04	508	507	0	508
2004-05	496	496	0	496
2005-06	480	479	0	480
2006-07	520	519	0	520
2007-08*	534	533	0	534
Tamil Nadu				
1990-91	64	9	55	9
1995-96	117	19	96	21
1998-99	106	39	67	39
1999-00	138	86	51	87
2000-01	200	125	73	127
2001-02	349	249	98	251
2002-03	466	377	88	378
2003-04	605	535	68	537
2004-05	678	627	49	629
2005-06	906	866	39	867
2006-07	1130	1111	17	1113
2007-08*	1169	1151	17	1152
Andhra Pradesh				
1990-91	47	42	5	42
1995-96	679	670	0	679
1998-99	1218	1197	9	1209
1999-00	1363	1333	16	1347
2000-01	1604	1569	24	1580
2001-02	1797	1770	18	1779
2002-03	2038	2009	18	2020
2003-04	1927	1903	13	1914
2004-05	1707	1686	10	1697
2005-06	1663	1646	8	1655
2006-07	1525	1507	9	1516
2007-08*	1567	1548	10	1557

$: Includes internal consumption

*: Provisional.

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

(Million cubic metres)

Period	Gross Prodn.	Sales	Flarred	Net availability$
1	*2*	*3*	*4*	*5*
Total Onshore				
1970-71	1445	NA	742	703
1975-76	2368	1013	1084	1284
1980-81	1685	1028	427	1258
1985-86	2954	1437	1005	1949
1990-91	3916	2032	1084	2731
1995-96	5739	4244	780	4959
1999-00	7404	5781	721	6683
2000-01	7725	6109	752	6973
2001-02	7967	6251	696	7271
2002-03	8726	7181	613	8113
2003-04	8973	7559	412	8561
2004-05	9093	7609	338	8755
2005-06	9578	7999	273	9305
2006-07	9272	7895	276	8996
2007-08*	9084	7707	262	8822
OFFSHORE				
1980-81	673	292	366	307
1985-86	5180	2520	2113	3067
1990-91	14082	8616	4047	10035
1995-96	16903	13589	930	15973
1999-00	21042	17456	840	20202
2000-01	21752	17961	865	20887
2001-02	21747	17940	981	20766
2002-03	22663	18690	812	21851
2003-04	22989	19151	644	22345
2004-05	22670	18896	650	22020
2005-06	22624	18859	604	22020
2006-07	22475	18521	680	21795
2007-08*	23318	19267	662	22656
GRAND TOTAL				
1970-71	1445	NA	742	703
1975-76	2368	1013	1084	1284
1980-81	2358	1320	793	1565
1985-86	8134	3957	3118	5016
1990-91	17998	10648	5131	12766
1995-96	22642	17833	1710	20932
1999-00	28446	23237	1561	26885
2000-01	29477	24070	1617	27860
2001-02	29714	24191	1677	28037
2002-03	31389	25871	1425	29964
2003-04	31962	26710	1056	30906
2004-05	31763	26505	988	30775
2005-06	32202	26858	877	31325
2006-07	31747	26416	956	30791
2007-08*	32402	26974	924	31478

$: Includes internal consumption

*: Provisional.

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

(Million Cubic Metres)

Year	Onshore						Offshore			Grand Total
	Gujarat/ Rajasthan	Assam	Tripura **	Andhra Pradesh	Tamil Nadu	Total	Mumbai High	JVC	Total	
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	1316	70	42	9	2731	10035	-	10035	12766
1991-92	1580	1248	81	144	12	3065	11377	-	11377	14442
1992-93	1717	1310	115	501	19	3662	12454	-	12454	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	2619	1510	130	679	21	4959	15966	7	15973	20932
1996-97	2616	1702	154	799	43	5314	15975	35	16010	21324
1997-98	2963	1776	196	1021	47	6003	17227	1315	18542	24545
1998-99	3043	1772	307	1209	39	6370	16769	2567	19336	25706
1999-00	3005	1891	353	1347	87	6683	17058	3144	20202	26885
2000-01	2873	2017	376	1580	127	6973	17705	3182	20887	27860
2001-02	2979	1846	416	1779	251	7271	17439	3327	20766	28037
2002-03	3371	1898	446	2020	378	8113	17643	4208	21851	29964
2003-04	3555	2047	508	1914	537	8561	17235	5110	22345	30906
2004-05	3874	2059	497	1697	629	8756	16769	5251	22020	30776
2005-06	4052	2251	480	1655	867	9305	16351	5669	22020	31325
2006-07	3518	2329	520	1516	1113	8996	16011	5784	21795	30791
2007-08*	3165	2414	534	1557	1152	8822	15879	6777	22656	31478

*: Provisional. **:Includes Nagaland and Arunachal Pradesh.

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

(Million Cubic Metres)

Year	Energy Purpose							Non-Energy Purposes				Grand Total
	Power Generation	Industrial fuel	Tea Plantation	Domestic fuel	Captive Use/LPG shrinkage	Others	Total	Fertilizer	Petro-Chemicals	Others	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13
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	408	371	6391	12766
1991-92	4774	766	108	72	2165	-	7885	5509	532	516	6557	14442
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	4840	36	16424	8592	666	1203	10461	26885
2000-01	8801	2870	151	335	5004	38	17199	8480	779	1402	10661	27860
2001-02	9214	2979	147	485	5339	70	18234	7957	909	937	9803	28037
2002-03	10510	2939	119	654	5409	136	19767	7955	1027	1215	10197	29964
2003-04	11478	3099	142	93	4865	1263	20940	7889	1128	949	9966	30906
2004-05	12099	3569	142	343	4944	231	21328	8173	1236	38	9447	30775
2005-06	11878	3780	151	75	5048	1120	22052	7762	1175	36	8973	31025
2006-07	11963	3205	170	443	5034	40	20855	8497	1377	639	10513	31368
2007-08*	12037	3324	160	39	5618	1258	22436	9822	1432	638	11892	34328

@ : Excludes offtakes of natural gas by ONGC. *: Provisional.

Note: Excludes gas supplied to IGL, MGL, Bhagyanagar Gas, TNGCL, BMC & GGCL and sponge iron use.

V. REFINING

V.1 PETROLEUM REFINING CAPACITY IN INDIA

(Million Tonnes per annum)

Refinery	Year of Commissioning	Installed Capacity as on 1.4.2007 and 1.4.2008
1	*2*	*4*
(a) PUBLIC SECTOR REFINERIES		**105.47**
I. IOC REFINERIES		**47.35**
IOC, Digboi	1901	0.65
IOC, Guwahati	1962	1.00
IOC, Barauni	1964	6.00
IOC, Koyali	1965	13.70
IOC, Haldia	1974	6.00
IOC, Mathura	1982	8.00
IOC, Panipat	1998	12.00
II. BPCL REFINERIES		**19.50**
BPCL, Mumbai	1955	12.00
KRL, Kochi	1966	7.50
III. HPCL REFINERIES		**13.00**
HPCL, Mumbai	1954	5.50
HPCL, Visakh	1957	7.50
IV. CPCL REFINERIES		**10.50**
CPCL, Manali	1969	9.50
CPCL, Narimanam	1993	1.00
V. BRPL, Bongaigaon	1979	2.35
VI. NRL, Numaligarh	1999	3.00
VII. ONGC, Tatipaka	2002	0.08
VIII. MRPL, Mangalore	1996	9.69
(b) PRIVATE REFINERIES		**43.50**
I. RPL, Jamnagar	1999	33.00
II. Essar Oil Ltd., Vadinar	2006	10.50
Total (a+b)		**148.97**

V.2(a) REFINERY CRUDE THROUGHPUT AND PRODUCTION OF PETROLEUM PRODUCTS DURING 1961 TO 2007
(Calendar Years)

(000 Tonnes)

Year	Crude Throughput			Production of Petroleum Products		
	Public Sector/JVC	Private Sector	Total	Public Sector/JVC	Private Sector	Total
1	*2*	*3*	*4*	*5*	*6*	*7*
1961	0	6440	6440	0	6090	6090
1965	1549	8205	9754	1328	7785	9113
1970	10994	7465	18459	10132	7040	17172
1975	16723	5112	21835	15602	4766	20368
1980	24668	407	25075	23213	384	23597
1985	41226	0	41226	38264	0	38264
1990	51671	0	51671	48402	0	48402
1995	57971	0	57971	54379	0	54379
1996	61704	0	61704	57869	0	57869
1997	64533	0	64533	60631	0	60631
1998	66672	0	66672	62809	0	62809
1999	73079	6459	79538	68180	4920	73100
2000	76943	24845	101788	71838	23348	95186
2001	77818	28926	106744	72595	26382	98977
2002	80469	29679	110148	74914	26926	101840
2003	86350	32161	118511	80405	29694	110099
2004	93619	34136	127755	87008	31835	118843
2005	94489	33061	127550	87551	29694	117245
2006	105690	36727	142417	97477	34172	131649
2007*	112179	42516	154695	103701	39699	143400

*: Provisional.

V.2(b) REFINERY CRUDE THROUGHPUT AND PRODUCTION OF PETROLEUM PRODUCTS DURING 1961-62 TO 2007-08
(Financial Years)

(000 Tonnes)

Year	Crude Throughput			Production of Petroleum Products		
	Public Sector/ JVC	Private Sector	Total	Public Sector/ JVC	Private Sector	Total
1	*2*	*3*	*4*	*5*	*6*	*7*
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	25836	23646	477	24123
1985-86	42910	0	42910	39881	0	39881
1990-91	51772	0	51772	48562	0	48562
1995-96	58741	0	58741	55081	0	55081
1996-97	62870	0	62870	59005	0	59005
1997-98	65166	0	65166	61308	0	61308
1998-99	68538	0	68538	64544	0	64544
1999-00	74052	11912	85964	69144	10267	79411
2000-01	77411	26033	103444	72059	23555	95614
2001-02	77620	29654	107274	72462	27542	100004
2002-03	82015	30544	112559	76236	27904	104140
2003-04	89495	32345	121840	83397	30066	113463
2004-05	93107	34309	127416	86674	31905	118579
2005-06	96946	33163	130109	89793	29957	119750
2006-07	108173	38378	146551	99714	35546	135260
2007-08*	112541	43562	156103	104008	40922	144930

*: Provisional.

V.3 REFINERY-WISE CRUDE RUN AND TOTAL PRODUCTION OF PETROLEUM PRODUCTS DURING 1993-94 TO 2007-08

(000 Tonnes)

Year	IOC Dig-boi	BPCL Mum-bai	HPCL Mum-bai	HPCL Visakh	IOC Guwa-hati	IOC Bara-uni	IOC Koyali	IOC Hal-dia	IOC Math-ura	IOC Pani-pat	BPCL (KRL) Kochi
1	2	3	4	5	6	7	8	9	10	11	12
1993-94											
Total Production	535	6831	5774	4203	840	2051	8830	2878	8121	0	4568
Crude Run	554	7203	6018	4448	910	2222	9434	3106	8518	0	4862
1994-95											
Total Production	509	7071	4913	4759	833	2039	9148	2998	8018	0	4803
Crude Run	536	7506	5234	5014	884	2220	9888	3258	8377	0	5135
1995-96											
Total Production	537	7065	5674	4753	781	2129	9476	3168	7934	0	7010
Crude Run	559	7460	5965	5037	839	2322	10167	3416	8332	0	7421
1996-97											
Total Production	453	7279	6238	4576	778	1720	9722	3189	7744	0	6890
Crude Run	477	7640	6534	4847	848	1895	10352	3451	8113	0	7293
1997-98											
Total Production	479	7591	6053	2308	779	1989	10043	4445	8302	0	7312
Crude Run	502	7996	6378	2467	856	2181	10694	4706	8565	0	7729
1998-99											
Total Production	524	8531	4955	3637	772	2017	10346	4432	8665	1908	7304
Crude Run	553	8878	5203	3861	836	2204	10935	4714	8909	2208	7770
1999-00											
Total Production	564	8433	5702	4252	858	3177	10429	3794	7875	3688	7326
Crude Run	603	8907	6007	4555	914	3411	11109	4105	8125	4153	7830
2000-01											
Total Production	651	8203	5189	5986	653	2889	11269	3502	6863	5206	7039
Crude Run	678	8683	5575	6405	707	3122	12006	3873	7133	5707	7520
2001-02											
Total Production	640	8279	5229	6334	578	2625	11028	3601	7780	5323	6398
Crude Run	653	8744	5641	6706	656	2876	11697	4026	8031	5822	6797
2002-03											
Total Production	577	8221	5660	6386	390	2637	11734	4031	7880	5561	7063
Crude Run	581	8711	6078	6851	458	2994	12434	4513	8207	6101	7580
2003-04											
Total Production	584	8259	5707	7145	739	3815	12029	4112	7932	5818	7419
Crude Run	602	8757	6108	7591	891	4304	12758	4518	8248	6338	7854
2004-05											
Total Production	636	8598	5725	7636	868	4562	11041	4964	6145	5826	7387
Crude Run	651	9138	6118	8121	1002	5082	11698	5418	6387	6390	7924
2005-06											
Total Production	605	9627	5817	7515	75[illegible]	5016	10839	4988	7463	5780	6456
Crude Run	615	10298	6249	7980	86[illegible]	5553	11543	5502	7938	6507	6939
2006-07											
Total Production	567	11234	6981	8782	726	4931	12142	5282	8425	8016	7237
Crude Run	586	12030	7419	9377	839	5469	12953	5836	8883	9435	7742
2007-08*											
Total Production	537	11884	6908	8896	789	5083	12886	5199	7616	11272	7687
Crude Run	564	12746	7409	9409	920	5634	13714	5715	8033	12821	8134

*: Provisional.

Cont'd...

V.3 REFINERY-WISE CRUDE RUN AND TOTAL PRODUCTION OF PETROLEUM PRODUCTS DURING 1993-94 TO 2007-08

(000 Tonnes)

Year	CPCL (MRL)		BRPL	NRL	MRPL	ONGC	RPL	EOL	Total
	Manali	Nari-manam	Assam	Numali-garh	Manga-lore	Tati-paka	Jam-nagar	Vadi-nar	
1	13	14	15	16	17	18	19	20	21
1993-94									
Total Production	5313	120	1020	-	-	-	-	-	51084
Crude Run	5728	126	1167	-	-	-	-	-	54296
1994-95									
Total Production	6461	370	1005	-	-	-	-	-	52927
Crude Run	6921	382	1179	-	-	-	-	-	56534
1995-96									
Total Production	5162	358	1011	-	23	-	-	-	55081
Crude Run	5599	370	1215	-	39	-	-	-	58741
1996-97									
Total Production	6143	332	1306	-	2635	-	-	-	59005
Crude Run	6621	345	1542	-	2912	-	-	-	62870
1997-98									
Total Production	6437	533	1485	-	3552	-	-	-	61308
Crude Run	6965	556	1718	-	3853	-	-	-	65166
1998-99									
Total Production	5652	619	1445	-	3737	-	-	-	64544
Crude Run	6101	644	1653	-	4069	-	-	-	68538
1999-00									
Total Production	5870	612	1665	186	4713	-	10267	-	79411
Crude Run	6377	636	1905	215	5200	-	11912	-	85964
2000-01									
Total Production	5524	559	1353	1293	5879	-	23556	-	95614
Crude Run	6046	579	1488	1451	6438	-	26033	-	103444
2001-02									
Total Production	5676	549	1314	2052	5043	13	27542	-	100004
Crude Run	6123	566	1475	2307	5487	13	29654	-	107274
2002-03									
Total Production	5658	631	1352	1665	6699	91	27904	-	104140
Crude Run	6176	643	1463	1879	7253	93	30544	-	112559
2003-04									
Total Production	5827	645	1963	1961	9352	90	30066	-	113463
Crude Run	6387	653	2126	2200	10069	91	32345	-	121840
2004-05									
Total Production	7397	733	2171	1834	11059	92	31905	-	118579
Crude Run	8181	742	2311	2042	11809	93	34309	-	127416
2005-06									
Total Production	8742	671	2246	1918	11268	92	29957	-	119750
Crude Run	9680	682	2356	2133	12014	93	33163	-	130109
2006-07									
Total Production	8841	609	1932	2227	11689	93	34174	1372	135260
Crude Run	9784	618	2067	2504	12536	94	36616	1763	146551
2007-08*									
Total Production	8869	449	1888	2278	11706	62	34307	6614	144930
Crude Run	9802	464	2020	2568	12525	63	36931	6631	156103

*: Provisional.

V.4(a) PRODUCTION OF PETROLEUM PRODUCTS 1991 TO 2007

Calendar Years

('000' Tonne)

PRODUCTS	1991	1995	2000	2004	2005	2006	2007	% Variation 2006/2005	% Variation 2007/2006
1	2	3	4	5	6	7	8	9	10
				(a) From Crude Oil					
1. Light Distillates	**9544**	**12258**	**24836**	**32790**	**31569**	**37443**	**39658**	**18.6**	**5.9**
of which									
LPG	1229	1533	3993	5585	5298	6355	6578	20.0	3.5
Mogas	3453	4367	7849	11062	10392	12137	13634	16.8	12.3
Naphtha	4423	5924	9966	13592	14316	16568	16714	15.7	0.9
SBPS / Hexane	133	132	81	98	90	82	72	-8.9	-12.2
2. Middle Distillates	**26296**	**29560**	**52534**	**63169**	**62899**	**69317**	**75901**	**10.2**	**9.5**
of which									
Kerosene	5270	5315	8321	9854	8849	8721	8022	-1.4	-8.0
ATF/RTF/Jet A-1	1656	2026	2509	4890	5866	7305	9104	24.5	24.6
HSD	17259	20348	39469	46244	46455	51908	57311	11.7	10.4
LDO	1499	1364	1560	1621	1110	767	704	-30.9	-8.2
JBO	83	92	62	43	42	33	30	-21.4	-9.1
MTO	148	169	227	251	208	192	189	-7.7	-1.6
3. Heavy Ends	**12076**	**12561**	**17816**	**22884**	**22777**	**24889**	**27841**	**9.3**	**11.9**
of which									
Furnace Oil	4982	5512	6250	10297	10241	11951	12519	16.7	4.8
LSHS/HHS/RFO	4434	4092	4995	4245	4123	3365	3244	-18.4	-3.6
Total Fuel Oils	9416	9604	11245	14542	14364	15316	15763	6.6	2.9
Lube Oils	410	582	700	663	638	811	865	27.1	6.7
Bitomen	1676	1922	2697	3404	3449	3783	4358	9.7	15.2
Petroleum Coke	229	259	2054	3130	3117	3590	4092	15.2	14.0
Paraffin Wax	45	43	53	64	65	60	63	-7.7	5.0
Other Waxes	44	61	66	4	6	3	4	-50.0	33.3
Total Waxes	89	104	119	68	71	63	67	-11.3	6.3
4. Total Production	**47916**	**54379**	**95186**	**118843**	**117245**	**131649**	**143400**	**12.3**	**8.9**
5. Crude Throughput	**50954**	**57971**	**101788**	**127755**	**127550**	**142417**	**154695**	**11.7**	**8.6**
				(b) From Natural Gas					
LPG	1173	1599	2040	2256	2150	2134	2066	-0.7	-3.2

*: Provisional.

PATTERN OF PRODUCTION (PERCENTAGE)

PRODUCTS	1991	1995	2000	2004	2005	2006	2007*
Light Distillates	18.7	21.1	24.4	25.7	24.8	26.3	25.6
Middle Distillates	51.6	51.0	51.6	49.1	49.3	48.7	49.1
Total Fuel Oils	18.5	16.6	11.0	11.4	11.3	10.8	10.2
Lubes	0.8	1.0	0.7	0.5	0.5	0.6	0.6
Bitumen	3.3	3.3	2.6	2.7	2.7	2.7	2.8
Others	1.1	0.8	3.1	3.3	3.4	3.5	4.4
Total Production	**94.0**	**93.8**	**93.5**	**93.0**	**91.9**	**92.4**	**92.7**
RBF & Losses / inventories	6.0	6.2	6.5	7.0	8.1	7.6	7.3
Crude Throughput	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**

*: Provisional.

V.4(b) PRODUCTION OF PETROLEUM PRODUCTS 1991-92 TO 2007-08

Financial Years

('000' Tonne)

Products	Production							% Variation	
	1991-92	1995-96	2000-01	2004-05	2005-06	2006-07	2007-08*	2006-07 2005-06	2007-08 2006-07
1	2	3	4	5	6	7	8	9	10
(a) From Crude Oil									
1. Light Distillates	**9673**	**12433**	**25048**	**32865**	**32427**	**38104**	**40111**	**17.5**	**5.3**
of which									
LPG	1250	1539	4088	5570	5525	6315	6732	14.3	6.6
Mogas	3420	4462	8070	11057	10502	12539	14167	19.4	13.0
Naphtha	4546	5975	9908	14100	14509	16660	16440	14.8	-1.3
SBPS / Hexane	135	150	93	81	98	79	82	-19.4	3.8
2. Middle Distillates	**26371**	**29941**	**52445**	**62509**	**64432**	**71225**	**76649**	**10.5**	**7.6**
of which									
Kerosene	5339	5267	8714	9298	9078	8491	7794	-6.5	-8.2
ATF/RTF/Jet A-1	1539	2127	2513	5201	6196	7805	9107	26.0	16.7
HSD	17404	20661	39052	45903	47572	53465	58361	12.4	9.2
LDO	1482	1351	1481	1546	923	803	671	-13.0	-16.4
JBO	82	95	57	36	39	32	32	-17.9	0.0
MTO	143	180	214	226	212	187	184	-11.8	-1.6
3. Heavy Ends	**12305**	**12707**	**18121**	**23205**	**22891**	**25931**	**28170**	**13.3**	**8.6**
of which									
Furnace Oil	5430	5351	6479	10560	10320	12325	12638	19.4	2.5
LSHS/HHS/RFO	4207	4228	4913	4410	3985	3372	3166	-15.4	-6.1
Total Fuel Oils	9637	9579	11392	14970	14305	15697	15804	9.7	0.7
Lube Oils	390	633	684	646	677	825	881	21.9	6.8
Bitumen	1710	2032	2721	3349	3576	3891	4507	8.8	15.8
Petroleum Coke	216	256	2473	3162	3182	3779	4129	18.8	9.3
Paraffin Wax	44	43	51	64	63	63	64	0.0	1.6
Other Waxes	46	63	61	4	3	5	7	66.7	40.0
Total Waxes	90	106	112	68	66	68	71	3.0	4.4
4. Total Production	**48349**	**55081**	**95614**	**118579**	**119750**	**135260**	**144930**	**13.0**	**7.1**
5. Crude Throughput	**51423**	**58741**	**103444**	**127416**	**130109**	**146551**	**156103**	**12.6**	**6.5**
(b) From Natural Gas									
LPG	1235	1715	2045	2240	2185	2093	2060	-4.2	-1.6

*: Provisional.

PATTERN OF PRODUCTION (PERCENTAGE)

PRODUCTS	1991-92	1995-96	2000-01	2004-05	2005-06	2006-07	2007-08*
Light Distillates	18.8	21.2	24.2	25.8	24.9	26.0	25.7
Middle Distillates	51.3	51.0	50.7	49.1	49.5	48.6	49.1
Total Fuel Oils	18.7	16.3	11.0	11.7	11.0	10.7	10.1
Lubes	0.8	1.1	0.7	0.5	0.5	0.6	0.6
Bitumen	3.3	3.5	2.6	2.6	2.7	2.7	2.9
Others	1.1	0.8	3.2	3.3	3.3	3.8	4.5
Total Production	**94.0**	**93.8**	**92.4**	**93.1**	**92.0**	**92.3**	**92.8**
RBF & Losses / inventorie	6.0	6.2	7.6	6.9	8.0	7.7	7.2
Crude Throughput	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**

*: Provisional.

VI.1(a) PRODUCT-WISE SALES/CONSUMPTION OF PETROLEUM PRODUCTS DURING 2000 TO 2007

(Qty: '000' Tonnes)

Products	2000	2001	2002	2003	2004	2005	2006	2007*	% to total	Change % 2007/06
1	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
1 Light Distillates	**21627**	**22851**	**23369**	**24293**	**25454**	**24421**	**24318**	**26344**	**19.1**	**8.3**
LPG	6596	7179	7849	8828	9878	9980	10279	11228	8.2	9.2
Mogas	6438	6940	7485	7758	8081	8272	8594	9561	6.9	11.3
Naphtha	8089	8261	7465	7116	6843	5566	4758	5049	3.7	6.1
SBP/Hexane	128	111	109	130	143	198	213	138	0.1	-35.2
Others	376	360	461	461	509	405	474	368	0.3	-22.4
2 Middle Distillates	**53257**	**51250**	**50631**	**49879**	**52041**	**50449**	**53844**	**59080**	**42.9**	**9.7**
SKO	10699	10285	9804	9490	9303	9472	9414	9372	6.8	-0.4
ATF/Jet A-1	2236	2272	2257	2394	2716	3126	3830	4398	3.2	14.8
HSDO	38310	36892	36611	36182	38305	36467	39414	44112	32.0	11.9
LDO/MDO	1460	1234	1347	1236	1134	890	742	671	0.5	-9.6
JBO/Wash Oil	70	48	44	44	43	37	32	32	0.0	0.0
MTO	220	206	235	226	249	202	189	188	0.1	-0.5
Others	262	313	333	307	291	255	223	306	0.2	37.2
3 Heavy Ends	**15378**	**15549**	**16018**	**16216**	**17076**	**17650**	**17036**	**18717**	**13.6**	**9.9**
Furnace Oil	6206	7005	7080	7018	7698	8375	8076	8288	6.0	2.6
LSHS/HHS	5047	4659	4717	4572	4465	4134	3414	3306	2.4	-3.2
Fuel oils (Total)	11253	11664	11797	11590	12163	12509	11490	11595	8.4	0.9
Lubes/Greases	801	794	949	831	775	886	887	1057	0.8	19.2
Bitumen/Asphalt	2781	2410	2705	3196	3397	3365	3685	4308	3.1	16.9
Petroleum Coke	371	409	324	319	392	509	485	1150	0.8	137.1
Wax	107	105	57	60	74	74	74	70	0.1	-5.4
Others	65	167	186	220	275	307	415	538	0.4	29.6
4 Total (PSUs))	**90262**	**89650**	**90018**	**90388**	**94570**	**92520**	**95198**	**104141**	**75.6**	**9.4**
5 Pvt. sales	na	9510	12407	14633	17041	17943	14468	22048 @	16.0	52.4
6 TOTAL	**90262**	**99160**	**102425**	**105021**	**111611**	**110463**	**109666**	**126189**	**91.6**	**15.1**
7 RBF	6855	6995	7628	8063	8559	8914	10471	11575	8.4	10.5
8 Grand Total	**97117**	**106155**	**110053**	**113084**	**120170**	**119377**	**120137**	**137764**	**100.0**	**14.7**

*: Provisional @ :Pvt. Sales includes pvt. Imports.

Source: Petroleum Planning & Analysis Cell.

VI.1(b) PRODUCT-WISE SALES/CONSUMPTION OF PETROLEUM PRODUCTS (INCLUDING PVT. SALES) DURING 2000-01 TO 2007-08

(000' Tonne)

	Products	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*	% Growth 2007-08/ 2006-07
1	**Light Distillates**	**29618**	**31755**	**34335**	**35204**	**33662**	**37076**	**38556**	**4.0**
	of which								
	LPG	7728	8351	9305	10245	10456	10849	12165	**12.1**
	Mogas	7011	7570	7897	8251	8647	9285	10332	**11.3**
	Naphtha	11728	11929	11868	13993	12194	13886	13294	**-4.3**
	NGL	27	32	0	0	0	0	0	**0.0**
	Others	3124	3873	5265	2715	2365	3055	2766	**-9.5**
2	**Middle Distillates**	**51439**	**52065**	**52023**	**53906**	**54423**	**57595**	**62823**	**9.1**
	of which								
	SKO	10432	10405	10230	9395	9541	9505	9365	**-1.5**
	ATF	2256	2269	2484	2811	3296	3983	4543	**14.1**
	HSDO	36546	36644	37074	39651	40191	42896	47669	**11.1**
	LDO	1592	2063	1619	1476	883	720	667	**-7.4**
	Others	613	684	616	573	512	491	579	**17.9**
3	**Heavy Ends**	**19375**	**20306**	**21393**	**22524**	**25129**	**26078**	**27567**	**5.7**
	of which								
	Furnace Oil	8451	8027	8312	9136	8921	9257	9469	**2.3**
	LSHS/HHS	4531	4711	4633	4404	3907	3361	3248	**-3.4**
	Lubes/Greases	1137	1250	1427	1347	2081	1900	2290	**20.5**
	Bitumen	2584	2986	3373	3337	3508	3833	4506	**17.6**
	Petroleum Coke	1798	2563	2877	3129	4928	5441	5950	**9.4**
	Paraffin Wax	45	41	41	60	268	303	241	**-20.5**
	Other Waxes	51	13	20	20	105	64	65	**1.6**
	Others	775	715	710	1090	1411	1919	1799	**-6.3**
TOTAL		**100432**	**104126**	**107751**	**111634**	**113213**	**120749**	**128946**	**6.8**
Refinery Boiler Fuel		7273	7650	8240	8537	9141	10920	11751	**7.6**
Grand Total		**107705**	**111776**	**115991**	**120171**	**122354**	**131669**	**140697**	**6.9**

* :Provisional

Note: 2000-01 onwards consumption data includes pvt. sales & pvt. imports also.

Source: PPAC's report 2007-08

VI.1(c) SALES/CONSUMPTION OF PETROLEUM PRODUCTS

(000' Tonnes)

	Products	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*	% Change 2007-08/ 2006-07
	A. PUBLIC SECTOR									
1	**Light Distillates**	**21770**	**22916**	**23567**	**25002**	**25317**	**24008**	**25350**	**26695**	**5.3**
	LPG	6613	7310	8143	9089	9967	9976	10530	11482	9.0
	Mogas	6613	7011	7570	7895	8162	8254	8803	9875	12.2
	Naphtha	8059	8128	7284	7329	6550	5155	5327	4912	-7.8
	NGL	6	27	32	0	0	0	0	0	0.0
	Others	479	440	538	689	638	623	690	425	-38.4
2	**Middle Distillates**	**52854**	**50661**	**50555**	**50548**	**51919**	**50281**	**55189**	**61536**	**11.5**
	SKO	10714	10114	9707	9426	9395	9373	9412	9365	-0.5
	ATF	2249	2256	2269	2484	2811	3295	3982	4522	13.6
	HSDO	37938	36515	36534	36875	38087	36308	40617	46443	14.3
	LDO	1399	1202	1413	1181	1085	834	720	667	-7.4
	Others	554	574	632	582	541	471	458	539	17.7
3	**Heavy Ends**	**15362**	**15515**	**16002**	**16580**	**17357**	**17413**	**17401**	**18912**	**8.7**
	Furnace Oil	6371	7085	6941	7207	8055	8221	8186	8247	0.7
	LSHS/HHS	4989	4531	4711	4633	4404	3907	3361	3248	-3.4
	Lubes/Greases	797	819	938	816	779	892	878	1129	28.6
	Bitumen/Asphalt	2618	2428	2847	3367	3318	3485	3818	4471	17.1
	Petroleum Coke	414	367	335	308	445	496	645	1198	85.7
	Paraffin Wax	43	45	41	41	60	55	67	80	19.4
	Other Waxes	62	51	13	20	20	19	0	0	0.0
	Others	68	189	176	188	277	277	446	539	20.9
	Total (A) (Excl. RBF)	**89986**	**89092**	**90124**	**92130**	**94593**	**91702**	**97940**	**107142**	**9.4**
	B. PRIVATE SECTOR									
1	**Light Distillates**	**7544**	**6702**	**8188**	**9333**	**9887**	**9654**	**11726**	**11862**	**1.2**
	LPG	403	418	208	216	278	480	319	683	114.1
	MS	0	0	0	2	89	393	482	456	-5.4
	Naphtha / NGL	3614	3600	4645	4539	7443	7039	8559	8382	-2.1
	Benzene	8	0	0	0	0	0	0	0	0.0
	Others	3519	2684	3335	4576	2077	1742	2366	2341	-1.1
2	**Middle Distillates**	**613**	**778**	**1510**	**1475**	**1987**	**4141**	**2406**	**1287**	**-46.5**
	SKO	593	318	698	804	0	168	93	0	-100.0
	ATF	0	0	0	0	0	1	1	21	2000.0
	HSDO	20	31	110	199	1564	3883	2279	1226	-46.2
	LDO	0	390	650	438	391	49	0	0	0.0
	Others	0	39	52	34	32	40	33	41	24.2
3	**Heavy Ends**	**1931**	**3860**	**4304**	**4813**	**5167**	**7716**	**8677**	**8656**	**-0.2**
	Furnace Oil / LSHS	1293	1366	1086	1105	1081	700	1071	1222	14.1
	Lubes/Greases	246	318	312	611	568	1189	1022	1161	13.6
	Bitumen	96	156	139	6	21	23	14	35	150.0
	Petroleum Coke	34	1431	2228	2569	2684	4432	4796	4752	-0.9
	CBFS	230	75	74	230	243	157	840	$	0.0
	Others	32	514	465	292	570	1215	934	1486	59.1
	Total (B)	**10088**	**11340**	**14002**	**15621**	**17041**	**21511**	**22809**	**21804**	**-4.4**
	TOTAL (A+B)	100074	100432	104126	107751	111634	113213	120749	128946	6.8
	Refinery Boil Fuel	6900	7273	7650	8240	8537	9141	10920	11751	7.6
	Grand Total	**106974**	**107705**	**111776**	**115991**	**120171**	**122354**	**131669**	**140697**	**6.9**

*: Provisional $: included in others

Note: Private Sector data include private imports also.

Source: Petroleum Planning & Analysis Cell.

VI.1(d) TIME SERIES CONSUMPTION OF PETROLEUM PRODUCTS

(Qty. '000' Tonnes)

Year	Total Consumption	% age Growth	Year	Total Consumption	% age Growth
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	70646	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	97117	2.4	2000-01	106974	4.2
2001	106155	9.3	2001-02	107705	0.7
2002	110053	3.7	2002-03	111776	3.8
2003	113084	2.8	2003-04	115991	3.8
2004	120170	6.3	2004-05	120171	3.6
2005	119377	-0.7	2005-06	122354	1.8
2006	120137	0.6	2006-07	131669	7.6
2007*	137764	14.7	2007-08*	140697 #	6.9

Note : i) Consumption includes refinery boilers fuel from 1960/1960-61 onwards. Prior to that refinery fuel was not available.

ii) Consumption includes imports by private parties in respect of calender years from 2001 onwards. Prior to that data was not available for calender years. For the year 2007 Sales include private sales & pvt. Imports.

iii) In respect of financial years consumption includes both imports from private parties & refinery fuel.

iv) Data upto 1959-60 is estimated. *: Provisional

#: Excluding sales to Nepal,Sikkim,Bhutan & Bunkers/International Airlines

VI.2 SALES/CONSUMPTION OF PETROLEUM PRODUCTS AND MARKET SHARE OF OIL COMPANIES IN INDIA FROM 1980-81 TO 2007-08*

(Qty. '000' Tonnes)

Year	% S/C	IOC	B.Shell/ BPCL	Esso/ HPCL	IBP	Other COs	Pvt. #	TOTAL
1980-81	S/C	18494	5297	5596	1034	475	-	30896
	%	59.9	17.1	18.1	3.3	1.5	-	100.0
1985-86	S/C	23840	7580	7638	1552	262	-	40872
	%	58.3	18.5	18.7	3.8	0.6	-	100.0
1990-91	S/C	31426	10377	10576	2284	372	-	55035
	%	57.1	18.9	19.2	4.2	0.7	-	100.0
1991-92	S/C	32362	10688	11047	2498	379	-	56974
	%	56.8	18.8	19.4	4.4	0.7	-	100.0
1992-93	S/C	32906	11409	11511	2686	390	-	58902
	%	55.9	19.4	19.5	4.6	0.7	-	100.0
1993-94	S/C	33501	12099	12011	2860	341	-	60812
	%	55.1	19.9	19.8	4.7	0.6	-	100.0
1994-95	S/C	36359	13160.0	12588	2990	390	2027	67514
	%	53.9	19.5	18.6	4.4	0.6	3.0	100.0
1995-96	S/C	39858	14763	14151	3273	473	2313	74831
	%	53.3	19.7	18.9	4.4	0.6	3.1	100.0
1996-97	S/C	42054	15732	15460	3471	507	1944	79168
	%	53.1	19.9	19.5	4.4	0.6	2.5	100.0
1997-98	S/C	43465	16356	16000	3597	420	4452	84290
	%	51.6	19.4	19.0	4.3	0.5	5.3	100.0
1998-99	S/C	45489	17445	16249	3772	1811	5796	90562
	%	50.2	19.3	17.9	4.2	2.0	6.4	100.0
1999-00	S/C	49391	18894	17497	4133	736	6435	97086
	%	50.9	19.5	18.0	4.3	0.8	6.6	100.0
2000-01	S/C	47812	19368	17887	3959	960	10088	100074
	%	47.8	19.4	17.9	4.0	1.0	10.1	100.0
2001-02	S/C	47151	19047	17499	3747	1648	11340	100432
	%	46.9	19.0	17.4	3.7	1.6	11.3	100.0
2002-03	S/C	46336	19843	18228	3769	1948	14002	104126
	%	44.5	19.1	17.5	3.6	1.9	13.4	100.0
2003-04	S/C	46778	20297	18577	4162	2316	15621	107751
	%	43.4	18.8	17.2	3.9	2.1	14.5	100.0
2004-05	S/C	48018	20697	19091	4594	2193	17041	111634
	%	43.0	18.5	17.1	4.2	2.0	15.3	100.0
2005-06	S/C	46160	20477	18309	4316	2440	21511	113213
	%	40.8	18.1	16.2	3.8	2.2	19.0	100.0
2006-07	S/C	53425	22661	19698	$	2156	22809	120749
	%	44.2	18.8	16.3		1.8	18.9	100.0
2007-08*	S/C	57956	24866	22056	$	2264	21804	128946
	%	44.9	19.3	17.1		1.8	16.9	100.0

S/C : sales/consumption *: Provisional $: IBP has been merged with IOC
IOC includes AOD& IBP. BPC includes KRL.
Others companies include BRPL,CPCL,GAIL,MRPL,NRL and ONGC
: Private consumption figures includes pvt. imports also.
Note : Consumption excludes RBF

Source : Report of PPAC.

VI.3 DELIVERIES MADE TO INTERNATIONAL/COASTAL BUNKERS DURING 1993-94 TO 2007-08

(Qty. ' 000 ' Tonnes)

Items	1993-94	1994-95	1995-96	1996-67	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
1	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17
INTERNATIONAL BUNKERS															
F.O	116.0	120.1	85.8	87.5	69.8	74.5	63.6	64.8	28.6	25.2	47.0	21.1	17.9	12.3	33.8
H.S.D	13.3	11.8	18.3	13.7	11.0	9.1	6.8	3.7	3.0	2.9	2.8	3.5	4.8	2.3	14.9
L.D.O	29.1	25.0	20.4	19.7	17.3	15.8	15.7	18.7	6.3	2.8	12.1	3.7	4.5	1.4	0.1
TOTAL	**158.4**	**156.9**	**124.5**	**120.9**	**98.1**	**99.4**	**86.1**	**87.2**	**37.9**	**30.9**	**61.9**	**28.3**	**27.2**	**16.0**	**48.8**
COASTAL BUNKERS															
F.O	195.4	214.4	160.7	194.3	174.3	144.3	153.4	139.9	170.5	105.6	96.0	171.5	234.3	264.8	353.4
H.S.D	120.6	129.5	120.5	157.6	137.7	115.7	156.1	153.4	217.7	177.8	173.2	185.3	239.7	239.4	23.4
L.D.O	40.1	38.1	32.1	29.6	26.5	26.5	26.8	21.8	25.2	16.2	23.0	34.3	43.0	48.8	39.7
TOTAL	**356.1**	**382.0**	**313.3**	**381.5**	**338.5**	**286.5**	**336.3**	**315.1**	**413.4**	**299.6**	**292.2**	**391.1**	**517**	**553.0**	**416.5**
TOTAL BUNKERS :															
F.O	311.4	334.5	246.5	281.8	244.1	218.9	217.0	204.7	199.1	130.9	143.0	192.6	252.2	277.1	387.2
H.S.D	133.9	141.3	138.8	171.3	148.7	124.9	162.9	157.1	220.7	180.7	176.0	188.8	244.5	241.7	38.3
L.D.O	69.2	63.1	52.5	49.3	43.8	42.3	42.5	40.5	31.5	19.0	35.1	37.9	47.5	50.2	39.8
TOTAL	**514.5**	**538.9**	**437.8**	**502.4**	**436.6**	**386.1**	**422.4**	**402.3**	**451.3**	**330.6**	**354.1**	**419.3**	**544.2**	**569.0**	**465.3**

* Provisional

Source : Report of PPAC

VI.4 STATE-WISE CONSUMPTION OF MAJOR PETROLEUM PRODUCTS DURING 2007-08*

('000' Tonnes)

State/UT	Naphtha	LPG	Petrol/ MS	SKO	ATF	Diesel/ HSD	LDO	FO	LSHS/ HHS	Lubes & Greases	Bitumen	Others	TOTAL
A. States													
Region: North													
Jammu & Kashmir	0	123	100	156	46	426	9	15	@	9	56	11	951
Punjab	1	557	470	238	55	2572	15	831	@	32	188	94	5053
Rajasthan	230	503	452	403	85	3131	33	262	@	31	388	481	5999
Uttar Pradesh	346	1203	830	1243	95	4597	35	611	@	50	539	236	9785
Haryana	491	439	432	147	24	3162	17	666	@	30	213	88	5709
Himachal Pradesh	0	90	70	52	6	377	2	51	@	6	36	36	726
Uttarakhand	0	149	106	92	0	431	15	109	@	9	49	1	961
Chandigarh	0	35	68	9	28	74	0	12	@	1	4	1	232
Delhi	0	620	749	166	1187	1394	17	0	@	19	43	14	4209
Total	**1068**	**3719**	**3277**	**2506**	**1526**	**16164**	**143**	**2557**	@	**187**	**1516**	962	**33625**
Region: North East													
Assam	13	177	101	266	74	500	1	31	@	7	32	232	1434
Manipur	0	17	20	20	2	43	0	0	@	0	10	0	112
Meghalaya	0	13	32	21	0	192	0	0	@	0	14	2	275
Nagaland	0	14	16	14	1	27	0	0	@	0	9	1	83
Tripura	0	20	16	31	7	52	0	0	@	1	13	0	141
Arunachal Pradesh	0	11	13	13	2	51	0	0	@	1	14	2	107
Mizoram	0	17	11	6	0	30	1	1	@	0	9	0	75
Total	**13**	**269**	**209**	**371**	**86**	**895**	**2**	**32**	@	**9**	**101**	**240**	**2227**
Region: East													
Bihar	0	266	151	663	7	1179	5	25	@	8	147	187	2640
Orissa	0	145	197	312	31	1263	29	321	@	22	84	17	2420
West Bengal	486	571	273	760	207	1914	102	447	@	80	141	143	5125
Jharkhand	0	106	143	212	10	925	25	109	@	28	57	3	1618
Sikkim	0	8	7	12	0	27	1	1	@	0	1		57
Andaman & Nikobar	0	5	8	6	21	95	0	0	@	1	3	0	139
Total	**486**	**1099**	**779**	**1965**	**276**	**5403**	**162**	**903**	@	**139**	**433**	354	**11999**

* Provisional

Contd.....

VI.4 STATE-WISE CONSUMPTION OF MAJOR PETROLEUM PRODUCTS DURING 2007-08*

('000' Tonnes)

State/UT	Naphtha	LPG	Petrol	SKO	ATF	Diesel	LDO	FO	LSHS/ HHS	Lubes & Greases	Bitumen	Others	TOTAL
Region: West													
Goa	256	52	80	19	78	365	1	159	@	4	19	9	1043
Gujarat	313	655	685	751	119	2685	77	1837	@	51	493	173	7840
Madhya Pradesh	57	453	393	491	38	1774	19	226	@	29	203	79	3763
Maharashtra	1280	1778	1419	1284	1225	5024	180	2337	@	342	451	415	15736
Chhattisgarh	0	116	147	147	12	800	15	268	@	18	92	17	1630
Dadra & Nagarhav.	0	13	11	4	0	64	2	69	@	84	4	5	256
Daman & Diu	0	7	11	2	1	46	1	14	@	2	2	2	89
Total	**1906**	**3074**	**2746**	**2698**	**1473**	**10758**	**295**	**4910**	@	**530**	**1264**	703	**30357**
Regio: South													
Andhra Pradesh	291	917	730	523	173	4655	26	443	@	54	336	166	8314
Kerala	398	517	528	223	202	1457	1	298	@	42	113	63	3841
Tamilnadu	498	1071	908	602	405	3896	15	1622	@	120	447	245	9828
Karnataka	252	780	630	466	380	2879	22	678	@	45	263	52	6446
Lakshdeep	0	0	0	0	0	16	0	0	@	0	0	0	17
Pondicherry	0	30	69	12	0	319	2	52	@	2	0	2	490
Total	**1439**	**3315**	**2865**	**1826**	**1160**	**13222**	**66**	**3093**	@	**263**	**1159**	**528**	**28936**
Region: Outside India													
Bhutan	na	na	na	na	na	na	na	na	na	na	na	na	na
Nepal	na	na	na	na	na	na	na	na	na	na	na	na	na
Total	na	na	na	na	na	na	na	na	na	na	na	na	na
PSUs Total	**4912**	**11482**	**9876**	**9365**	**4522**	**46442**	**667**	**11495**	@	**1129**	**4471**	**2780**	**107142**
Sales by Private #	8382	683	456	0	21	1226	0	1222	@	1161	35	2542	21804
Grant Total	**13294**	**12165**	**10332**	**9365**	**4543**	**47668**	**667**	**12717**	@	**2290**	**4506**	**5322**	**128946**

@: LSHS/HHS included in FO. Note : Others includes Bitumen, Petroleum coke, Waxes, propylene,reformat,CBFs, Benzene etc.

*: Provisional #:Sales by private includes private imports also.

Source: Petroleum Planning and Analysis Cell, New Delhi.

VI.5 STATE-WISE PER CAPITA SALES/CONSUMPTION OF PETROLEUM PRODUCTS

(Unit: Kg)

State/UT	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
A. States									
1. Andhra Pradesh	86.9	82.9	83.5	84.5	85.9	86.4	78.8	84.6	100.9
2. Arunachal Pradesh	92.4	78.8	77.0	79.7	80.0	83.6	82.3	81.3	89.3
3. Assam	43.8	44.0	46.4	42.9	46.3	50.6	47.7	46.0	48.7
4. Bihar	37.9	39.7	27.8	25.1	26.7	26.6	24.4	25.0	28.2
5. Chhattisgarh		9.3	44.0	47.2	50.0	61.5	59.9	62.6	70.1
6. Delhi	267.2	235.5	223.9	226.4	237.2	253.5	228.3	260.4	248.2
7. Goa	582.1	612.4	595.2	589.3	656.9	743.1	631.0	651.4	653.5
8. Gujarat	215.9	190.0	176.3	169.4	164.5	161.9	135.0	136.4	138.5
9. Haryana	173.6	172.0	176.7	180.4	179.7	188.6	178.0	193.5	236.2
10. Himachal Pradesh	78.1	86.7	87.4	89.8	88.4	92.5	91.8	95.9	110.1
11. Jammu & Kashmir	64.2	61.2	65.5	69.3	71.1	74.3	75.1	77.5	84.5
12. Jharkhand		13.1	41.1	52.0	52.5	58.8	54.8	51.0	53.6
13. Karnataka	85.7	84.3	92.1	93.4	98.7	102.0	96.6	102.7	112.0
14. Kerala	113.3	119.8	107.5	120.8	129.2	112.7	105.6	107.1	113.6
15. Madhya Pradesh	57.6	68.1	57.5	57.9	62.1	62.7	51.9	52.9	54.7
16. Maharashtra	139.2	129.3	128.4	127.0	128.8	133.1	128.0	132.1	145.7
17. Manipur	36.7	32.6	27.6	59.4	40.0	42.7	42.1	40.5	47.4
18. Meghalaya	79.0	69.0	72.4	82.0	95.2	101.3	98.0	98.5	108.7
19. Mizoram	59.5	62.9	64.0	68.5	74.4	72.2	75.9	73.8	77.3
20. Nagaland	39.9	29.2	29.2	32.7	34.5	44.0	40.6	40.3	38.2
21. Orissa	45.3	45.2	44.5	49.5	50.2	54.9	51.6	52.2	61.0
22. Pondicherry		263.9	260.8	299.8	327.0	377.0	382.2	422.4	407.0
23. Punjab	195.7	173.0	184.2	182.9	180.9	189.0	169.4	179.8	189.1
24. Rajasthan	89.5	85.1	88.1	92.4	96.6	96.9	76.1	86.1	93.0
25. Sikkim	73.5	72.2	74.1	98.1	126.0	110.0	109.0	89.2	96.4
26. Tamilnadu	135.2	135.0	131.1	135.9	134.3	136.2	129.6	131.0	148.7
27. Tripura	30.3	33.2	34.2	37.0	37.8	36.6	37.4	39.0	40.4
28. Uttar Pradesh	61.6	60.2	53.7	54.7	57.5	59.5	53.3	50.9	51.4
29. Uttaranchal		20.9	80.3	80.0	84.6	88.7	85.6	92.4	101.0
30. West Bengal	58.4	58.5	63.6	58.5	57.8	60.5	55.6	54.5	58.9
B.Union Territories									
1. Chandigarh	362.8	275.2	225.3	226.4	230.0	245.6	211.4	212.4	189.1
2. Daman&Diu& Dadra&Nagar Haveli	634.9	537.0	529.1	754.0	820.0	965.0	739.6	636.8	642.5
3. Others	242.0	329.2	172.7	232.6	178.0	228.0	240.0	273.7	296.2
Total All India	**102.0**	**104.2**	**104.9**	**108.1**	**112.9**	**116.8**	**111.7**	**115.5**	**93.6**

Note: State-wise per capita sales/consumption is for PSU Sector only.

PER CAPITA CONSUMPTION OF SELECTED PETROLEUM PRODUCTS

(Unit : Kg)

Product	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
Naphatha	8.1	7.8	11.4	11.5	7.1	13.6	11.1	11.3	11.6
MS	6.0	6.4	6.8	7.3	7.7	8.0	7.9	8.2	9.0
SKO	10.9	10.4	10.2	10.1	9.2	9.1	8.7	8.4	8.2
HSDO	40.0	36.9	35.6	35.5	35.9	38.5	36.7	37.9	41.6
LDO	1.5	1.4	1.6	2.0	1.1	1.4	0.8	0.6	0.6
F.O (Regular)	6.9	6.2	8.2	7.8	7.0	8.9	8.1	8.2	8.3
LSHS/HHS	4.9	4.9	4.4	4.6	4.5	4.3	3.6	3.0	2.8
Total All India Sales @	**102.0**	**104.2**	**104.9**	**108.1**	**112.9**	**116.8**	**111.7**	**115.5**	**112.6**

Note : Population figures taken CSO's publication 'Selected Socio-Economic Statistics, India 2002".
Projected population of 2008 used for the year 2007-08.
* : Provisional @: included private sales & private imports also.

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

(Qty.'000'Tonnes)

SECTOR	2005-06		2006-07		2007-08*	
	Consum-ption	% to Total	Consum-ption	% to Total	Consum-ption	% to Total
			LPG			
1.Domestic	9820	93.9	10427	96.1	11173	91.8
2.Commercial/Industry	0	0.0	0	0.0	0	0.0
3.Transport sector	0	0.0	0	0.0	0	0.0
4.Power Generation	0	0.0	0	0.0	0	0.0
5.Agricultural sector	0	0.0	0	0.0	0	0.0
6.Mining	0	0.0	0	0.0	0	0.0
7.Manufacturing						
i) Chemicals	92	0.9	8	0.1	6	0.0
ii) Engineering	6	0.1	2	0.0	0	0.0
iii) Metallurgical	24	0.2	19	0.2	67	0.6
iv) Textiles	2	0.0	0	0.0	0	0.0
v) Consu.& Ind.Goods	11	0.1	2	0.0	19	0.2
Sub Total	**135**	1.3	**31**	0.3	**93**	0.8
8.Miscellaneous	21	0.2	66	0.6	223	1.8
9. Pvt. Party sales	**480**	4.6	**330**	3.0	**676**	5.6
TOTAL	**10456**	100.0	**10854**	100.0	**12165**	100.0
			SKO (Kerosene)			
1.Domestic	9267	97.1	9203	96.8	9163	97.8
2.Commercial/Industry	24	0.3	50	0.5	185	0.4
3.Others	82	0.9	159	1.7	17	0.2
4. Pvt. Party sales	**168**	1.8	**93**	1.0	**0**	0.0
TOTAL	**9541**	100.0	**9505**	100.0	**9365**	100.0
			NAPHTHA			
1. Fertilizers	2249	18.4	1980	15.5	1689	12.7
2. Petrochemicals	1490	12.2	1197	9.4	6048	45.5
3. Power Plants	629	5.2	660	5.2	753	5.7
4. Steel Plants	55	0.5	33	0.3	54	0.4
5. Others	732	6.0	1100	1.6	332	2.5
6. Pvt. Party sales	**7039**	57.7	**8669**	68.0	**4417**	33.2
TOTAL	**12194**	100.0	**13639**	100.0	**13294**	100.0

* : Provisional

Cont'd...

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

(Qty.'000'Tonnes)

SECTOR	2005-06		2006-07		2007-08*	
	Consum-ption	% to Total	Consum-ption	% to Total	Consum-ption	% to Total
		HSDO				
1. TRANSPORT						
i) Road Transport	19335	48.1	21611	50.4	23547	49.4
ii) Aviation	15	0.0	9	0.0	1	0.0
iii) Shipping	351	0.9	341	0.8	142	0.3
iv) Railways	1877	4.7	1856	4.3	351	0.7
Sub total (1)	**21578**	53.7	**23817**	55.6	**24041**	50.4
2. PLANTATION/FOOD						
i) Sugar Mills	92	0.2	110	0.3	51	0.1
ii) Others (incl.Plan. of Food)	6923	17.2	7804	18.2	8960	18.8
Sub total (2)	**7015**	17.5	**7914**	18.5	**9011**	18.9
3. Power Generation (Utilities)	**2683**	6.7	**2894**	6.8	**3020**	6.3
4. Industry						
i) Iron & Steel	118	0.3	130	0.3	84	0.2
ii) Textile & Fibre	152	0.4	267	0.6	41	0.1
iii) Cement	80	0.2	104	0.2	153	0.3
iv) Ceremic & Glass	15	0.0	16	0.0	10	0.0
v) Chemicals & Allied	62	0.2	83	0.2	58	0.1
vi) Aluminium	3	0.0	3	0.0	3	0.0
vii) Mining & Quarrying	642	1.6	714	1.7	369	0.8
viii) Engg. (Mech. & Elec.)	151	0.4	205	0.5	75	0.2
ix) Fertilizers	14	0.0	7	0.0	2	0.0
x) Other Industries & Construction	1209	3.0	1373	3.2	1173	2.5
Sub total (4)	**2446**	6.1	**2902**	6.8	**1968**	4.1
5. Misc. Services	**2586**	6.4	**3091**	7.2	**9495**	19.9
Total PSU)	**36308**	90.3	**40618**	94.8	**47535**	99.7
6. Private Party sales	**3883**	9.7	**2248**	5.2	**134**	0.3
Total	**40191**	100.0	**42866**	100.0	**47669**	100.0

*: Provisional.

Cont'd...

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

(Qty.'000'Tonnes)

SECTOR	2005-06		2006-07		2007-08*	
	Consum-ption	% to Total	Consum-ption	% to Total	Consum-ption	% to Total
		LDO				
1. TRANSPORT						
i) Road Transport	0	0.0	0	0.0	0	0.0
ii) Aviation	0	0.0	0	0.0	0	0.0
iii) Shipping	49	5.5	50	6.9	33	4.9
iv) Railways	3	0.3	3	0.4	2	0.3
v) Other Transport (incl. Agri. Retail Trade)	0	0.0	0	0.0	0	0.0
Sub total (1)	**49**	5.5	**53**	7.4	**35**	5.2
2. PLANTATION/FOOD						
i) Sugar Mills	2	0.2	1	0.1	3	0.4
ii)Others(incl.Plan.of Food)	26	2.9	12	1.7	0	0.0
Sub total (2)	**28**	3.2	**13**	1.8	**3**	0.4
3. Power Generation (Utilities)	**65**	7.4	**67**	9.3	**77**	11.5
4. Industry						
i) Iron & Steel	86	9.7	74	10.3	109	16.3
ii) Textile & Fibre	26	2.9	22	3.1	5	0.7
iii) Cement	8	0.9	7	1.0	34	5.1
iv) Ceremic & Glass	13	1.5	4	0.6	4	0.6
v) Chemicals & Allied	54	6.1	33	4.6	17	2.5
vi) Aluminium	3	0.3	2	0.3	4	0.6
vii) Mining & Quarrying	12	1.4	7	0.8	2	0.3
viii) Engg. (Mech. & Elec.)	45	5.1	41	5.7	28	4.2
ix) Fertilizers	0	0.0	0	0.0	0	0.0
x) Other Industries & Construction	175	19.8	60	36.3	0	0.0
Sub total (4)	**422**	47.8	**250**	62.5	**203**	30.4
5. Misc. Services	**270**	30.6	**337**	46.8	**349**	52.4
Total	**834**	94.5	**720**	100.0	**667**	100.0
6. Private Party sales	**49**	5.5	**0**	0.0	**0**	0.0
Total	**883**	100.0	**720**	100.0	**667**	100.0

* : Provisional

Contd...

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

(Qty.'000'Tonnes)

SECTOR	2005-06		2006-07		2007-08*	
	Consum-ption	% to Total	Consum-ption	% to Total	Consum-ption	% to Total
	Furnace Oil(FO)					
1. TRANSPORT						
i) Road Transport	0	0.0	0	0.0	55	0.6
ii) Aviation	0	0.0	0	0.0	0	0.0
iii) Shipping	237	2.7	276	3.0	260	2.7
iv) Railways	0	0.0	0	0.0	0	0.0
v) Other Transport (incl. Agri. Retail Trade)	241	2.7	226	2.4	0	0 0
Sub total (1)	**478**	5.4	**502**	5.4	**315**	3.3
2. PLANTATION/FOOD						
i) Sugar Mills	0	0.0	0	0.0	0	0.0
ii) Others (incl.Plan. of Food)	0	0.0	0	0.0	0	0.0
Sub total (2)	**0**	0.0	**0**	0.0	**0**	0.0
3. Power Generation (Utilities)	**302**	3.4	**254**	2.7	**281**	3.0
4. Industry						
i) Iron & Steel	849	9.5	853	9.2	**820**	8.7
ii) Textile & Fibre	28	0.3	24	0.3	15	0.2
iii) Cement	22	0.2	1	0.0	**5**	0.1
iv) Ceremic & Glass	0	0.0	0	0.0	**4**	0.0
v) Chemicals & Allied	303	3.4	297	3.2	750	7.9
vi) Aluminium	38	0.4	57	0.6	**35**	0.4
vii) Mining & Quarrying	-	0.0	0	0.0	1	0.0
viii) Engg. (Mech. & Elec.)	16	0.2	21	0.2	5	0.1
ix) Fertilizers	550	6.2	557	6.0	**0**	0.0
x) Other Industries & Construction	22	0.2	20	0.2	0	0.0
Sub total (4)	**1828**	20.5	**1830**	19.7	**1635**	17.3
5. Misc. Services	**5613**	62.9	**5600**	60.4	**6399**	67.6
Total (PSU)	**8221**	92.2	**8186**	88.4	**8630**	91.1
6. Private Party sales @	**700**	7.8	**1071**	11.7	**839**	8.9
Total	**8921**	100.0	**9257**	100.0	**9469**	100.0

*: Provisional

@: LSHS sales by private parties included in FO sales

Cont'd...

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

(Qty.'000'Tonnes)

SECTOR	2005-06		2006-07		2007-08*	
	Consum-ption	% to Total	Consum-ption	% to Total	Consum-ption	% to Total
	LSHS/HHS					
1. TRANSPORT	**0**	0.0	**0**	0.0	**0**	0.0
2. PLANTATION/FOOD						
i) Sugar Mills	0	0.0	0	0.0	0	0.0
ii) Others (incl.Plan. of Food)	0	0.0	0	0.0	0	0.0
Sub total (2)	**0**	0.0	**0**	0.0	**0**	0.0
3. Power Generation (Utilities)	**560**	14.3	**298**	8.9	**344**	10.6
4. Industry						
i) Iron & Steel	29	0.7	21	0.6	65	2.0
ii) Textile & Fibre	0	0.0	0	0.0	0	0.0
iii) Cement	5	0.1	0	0.0	0	0.0
iv) Ceremic & Glass	0	0.0	0	0.0	0	0.0
v) Chemicals & Allied	45	1.2	31	0.9	1239	38.1
vi) Aluminium	0	0.0	0	0.0	0	0.0
vii) Mining & Quarrying	0	0.0	0	0.0	0	0.0
viii) Engg. (Mech. & Elec.)	0	0.0	0	0.0	0	0.0
ix) Fertilizers	1295	33.2	1267	37.7	0	0.0
x) Other Industries & Construction	16	0.4	39	1.2	0	0.0
Sub total (4)	**1390**	35.6	**1358**	40.4	**1304**	40.1
5. Misc. Services	**1957**	50.1	**1705**	50.7	**1600**	49.3
Total (PSU)					3248	100.0
6. Private Party sales	@	0.0	0	0.0	0	0.0
Total	**3904**	100.0	**3361**	100.0	**3248**	100.0

*: Provisional.

Source: PPAC's Oil Industry Sales Statistics 2007-08

VI.7 CONSUMPTION OF DIESEL OIL IN INDIAN RAILWAYS DURING 1960-61 TO 2007-08

Year	No. of Diesel Locomotives	Consumption of Diesel oil (In Kls)	Consumption of Diesel per locomotive (In Kls)
1960-61	181	62771	346.8
1965-66	727	310813	427.5
1970-71	1169	569025	486.8
1975-76	1803	797294	442.2
1980-81	2403	1067477	444.2
1985-86	3046	1462609	480.2
1990-91	3759	1712816	455.7
1991-92	2905	1731473	596.0
1992-93	4069	1741751	428.1
1993-94	4192	1782985	425.3
1994-95	4259	1819464	427.2
1995-96	4313	1847748	428.4
1996-97	4363	1859443	426.2
1997-98	4496	1874139	416.8
1998-99	4586	1900804	414.5
1999-00	4651	1983427	426.5
2000-01	4702	1999262	425.2
2001-02	4815	1970723	409.3
2002-03	4699	2007993	427.3
2003-04	4769	2060396	432.0
2004-05	4807	2080634	432.8
2005-06	4793	2111190	440.5
2006-07	4816	2211531	459.2
2007-08	N.A.	N.A.	N.A.

Source : Railway Board, New Delhi. N.A.: Not Available.

VI. 8 INDUSTRY/PLANT-WISE OFFTAKES OF NAPHTHA

(Qty: '000' MTs)

Category and Plant	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
I. Fertilizer Plants:						
Nagarjuna Fert. & Chem. Ltd	42	89	160	179	174	154
ZAC Goa	185	180	223	202	174	192
IFFCO Kalol	99	121	52	16	13	55
FACT, Alwaye	0	0	4	0	89	17
MFL Madras	209	203	226	170	205	199
SPIC Tuticorin	258	272	155	277	270	na
Deepak Fert. & Chem. Ltd	2	8	17	16	24	7
MCFL Mangalore	167	150	152	171	168	162
SFC Kota	171	159	171	164	164	132
Kribc, Shahjahnpur	9	0	0	25	17	na
IFFCO Phulpur	697	688	665	682	202	64
Paswara Petrochem Ltd	0	0	99	0	0	na
Others	156	103	0	2	2	371
Total	**1995**	**1973**	**1924**	**1904**	**1560**	**1353**
2. Fertilizer Plants Gas Based:						
KRIBCO, Hazira	175	132	100	0	0	7
NFL Vijaypur	183	223	229	41	16	58
Chambal Fertiliser	544	634	605	147	217	53
Indo Gulf Fert. Ltd	33	81	111	14	29	33
IFFCO Aonla	79	91	75	128	128	90
TATA Chemicals/tata babrala	19	92	117	10	30	68
Bindal Agro Shahjahanpur	0	0	4	5	0	27
Others	0	0	0	0	0	0
Total	**1033**	**1253**	**1241**	**345**	**420**	**336**
3. Petrochemical Plants:						
Andhra Petrochem Ltd	12	14	14	13	13	14
BRPL, Bongaigaon	10	12	14	15	12	13
Reliance Industries, Ltd	0	15	4	0	0	na
Reliance Industries, Hazira	0	82	183	112	187	146
FACT Cochin	95	168	154	176	80	na
Reliance Industries	160	220	173	242	228	527
Reliance Petrochem. Ltd, Thene	0	0	81	237	39	na
Reliance Petrochem. Ltd, Patalganga	0	0	15	25	0	na
Haldia Petrochemicals Ltd, Midnapur	0	0	78	161	88	35
Haldia Petro WB, Haldia	359	237	0	25	1	448
Others	314	19	6	4	4	4445
Total	**950**	**767**	**722**	**1010**	**651**	**5628**
4. Petrochem. Plants Gas Based						
RCF, Thal	505	513	521	480	546	420
Total	**505**	**513**	**521**	**480**	**546**	**420**
5. Power Plants						
Gujarat Torrent Energy Corpn. Ltd	28	5	14	0	0	na
NTPC Ltd, Alapuzh (Allepy)	370	369	106	59	196	309
NTPC Anta	1	15	43	38	11	13
NTPC Auria	97	161	54	71	50	31
NTPC Faridabad	0	0	22	5	22	na
Essar Power Ltd	132	22	2	0	0	na
Others	1	1	1	11	27	14
Total	**629**	**573**	**242**	**184**	**306**	**367**

* Provisional

Contd...

VI. 8 INDUSTRY/PLANT-WISE OFFTAKES OF NAPHTHA

(Qty: ' 000' MTs)

Category and Plant	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
6. Power Plants Gas Based						
A. P Gas Power Corporation. Ltd	13	30	29	14	0	na
Reliance Energy Ltd, Goa	0	0	23	32	69	64
NTPC Kawas	477	487	446	211	99	73
BSES Kerala Power Ltd. Udagamanda	0	0	12	0	0	0
Chennai Municipal Corpn.	0	0	7	0	0	na
Herdelia Chemicals A/C Benzene	0	0	2	0	0	na
TBP Company Pvt. Ltd, Mangalore	0	0	110	42	86	90
NTPC Kota	0	0	20	44	16	21
NTPC Auria	0	0	70	102	45	19
Others	69	15	0	0	40	119
Total	**559**	**532**	**719**	**445**	**355**	**386**
7. Steel Plants						
Essar Steel Gandhar	4	23	6	28	11	28
Essar Steel, Hazira	231	333	61	0	0	1
EBG India Pvt. Ltd, Nasik	3	2	1	0	0	na
Thyssenkrupp Elect Steel India, Nasik	0	0	0	2	0	na
Vikram Ispat Ltd, Raigad	12	34	50	25	22	14
HCL Khetri	0	0	0	0	0	0
Others	0	0	2	0	0	12
Total	**250**	**392**	**120**	**55**	**33**	**55**
8. Others :						
Coramandal Fertilizer, Vizag	5	2	4	5	6	na
Asian Paraoxide Ltd, Nellore, AP	0	3	2	1	0	na
Reliance Salgaoncar Power Co.	68	58	42	35	0	na
Ultratech Cement Ltd , Kovaiya	0	0	5	19	2	na
L & T Ltd, Kuvaya	66	72	38	0	11	na
Nirma Ltd, Savli	3	4	63	32	2	na
Indo Gulf Corpn. Ltd , Bharuch	6	16	3	3	3	na
BSES Kerala Power Ltd. Udyogmanda	55	176	19	25	31	5
Sabari Rubber Pvt. Ltd, Kottayam	0	0	4	8	0	na
Indian Organic Chemicals	9	8	0	0	0	na
PPN Power Generating Co. Ltd, Naga	281	157	8	0	125	na
Hindusthan Organic Chemicals, Rasay	6	4	73	54	2	0
National Peroxide Ltd, Nagpur	5	5	4	3	5	2
Pix Transmission Ltd, Nagpur	10	9	5	5	9	10
Reliance Industries Ltd, Raigad	111	130	10	10	168	na
VVF Ltd , Raigad	0	0	140	106	6	7
HAL Sonabadi	0	0	4	7	0	na
Govind Rubber Ind. Ludhiana	0	0	0	0	0	na
Haldia Petro WB, Haldia	49	124	0	1	426	3
Haldia Petrochemicals Ltd, Haldia	139	105	481	356	5	na
NTPC, Faridabad	0	1	91	24	0	na
Others	552	452	66	36	299	305
Total	**1365**	**1326**	**1062**	**730**	**1100**	**332**
Grand Total	**7284**	**7329**	**6550**	**5155**	**4971**	**8877**

* Provisional

Note: Naphtha consumption excludes pvt. Sales.

Source : Industry sales By Customers, PPAC, New Delhi

VI. 9 PLANT/CUSTOMER-WISE OFFTAKES OF FO/LSHS DURING 2001-02 TO 2007-08

(Qty: '000' MTs)

Category & Plant	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
			(1) POWER				
A.Northern:	**63.1**	**57.6**	**52.6**	**70.4**	**53.2**	**43.3**	**24.0**
NTPC Unchahar	2.7	0.0	0.0	1.0	0.1	0.0	0.3
TPS Obra	20.1	16.4	13.9	14.4	12.2	12.0	10.4
TPS Hardwaganj	2.5	2.4	2.3	4.2	4.6	3.1	4.5
BTPS Badarpur	0.0	0.0	0.0	0.0	1.5	0.0	0.0
GNTP Bhatinda	3.0	2.8	1.4	2.9	2.7	0.0	0.0
TPS Paricha	5.4	8.7	3.9	1.4	5.3	11.1	6.0
NTPS Singrauli	2.7	1.3	1.3	3.6	0.3	0.1	0.0
NTPS Rihand	0.0	0.0	0.3	5.1	2.1	0.0	0.0
KTPS Kota	0.0	1.4	0.0	0.0	0.0	0.0	0.0
DVB Delhi	2.6	2.9	2.9	11.0	2.8	2.8	2.8
HSEB Faridabad	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TPS Ropar	7.5	7.2	2.9	4.3	7.3	2.9	0.0
TPS Panipat	16.6	13.1	5.8	22.5	14.3	9.9	0.0
HWP Rawatbhatta	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lehra Mohabbat, BTI	0.0	1.4	0.0	0.0	0.0	1.4	0.0
B. Eastern:	**111.6**	**112.9**	**96.8**	**92.1**	**68.3**	**58.6**	**79.5**
NTPC Kahalgaon	1.4	2.9	2.8	0.0	1.4	2.9	8.8
CTPS Chandrapura	29.8	24.1	12.7	0.0	0.0	0.0	0.0
NTPC Farakka	9.9	15.7	19.8	24.4	10.4	7.4	10.3
BTPS Barauni	4.3	1.4	2.8	0.0	3.0	0.0	4.4
TTPS Talcher	0.0	0.0	0.0	0.0	4.1	0.0	0.0
BTPS Bokaro	2.7	0.0	0.0	0.0	0.0	4.1	10.2
MCCPTA Haldia	24.7	23.7	13.5	20.9	30.2	30.2	35.6
PTPS Patratu	-	-	-	-	3.0	1.5	4.3
DPL, Durgapur	-	-	-	-	7.4	10.7	5.9
Others	38.8	45.1	45.2	46.8	19.2	14.0	0.0
C. Wastern:	**1409.0**	**1447.0**	**1522.8**	**1599.1**	**1366.9**	**961.9**	**979.6**
GEB Dhuwaran	472.6	401.4	447.3	580.4	429.6	352.8	384.8
GEB Ukai	15.9	8.1	13.0	12.7	6.9	0.0	0.0
GEB Gandhinagar	1.4	7.5	19.6	29.1	8.8	0.7	0.0
AECO Sabarmati	6.0	1.5	0.0	0.0	0.0	0.0	0.0
GEB Wanakbari	5.8	8.9	12.6	7.5	3.2	0.0	0.0
MPEB Sarani	23.8	16.6	7.6	1.3	2.7	0.0	0.0
MSEB Koradi	14.0	21.6	16.5	13.1	7.3	6.9	2.9
MSEB Chandrapur	17.2	10.4	2.8	2.7	6.8	2.9	2.9
MSEB Nasik	16.6	10.6	11.0	17.2	5.4	14.8	16.5
MSEB Bhusawal	8.3	11.1	10.3	6.2	12.6	9.1	8.2
MSEB Paras	0.7	0.8	0.0	1.4	0.0	0.0	5.2
MSEB Parli	11.2	15.2	12.3	9.0	13.5	13.4	43.2
NTPC Korba	1.4	0.0	1.4	0.0	1.4	0.0	0.0
MPEB Korba	18.4	7.1	4.3	0.0	0.0	0.0	0.0
TATA Thermal	746.9	899.4	943.2	905.0	857.2	556.9	514.5
MPEB Chachai	11.6	7.1	10.0	4.1	0.0	0.0	0.0
NTPC Waldhan	4.3	1.3	1.3	1.3	0.0	0.0	0.0
MSEB Kaperkheda	19.4	7.4	5.3	5.6	8.2	1.4	1.4
MPEB Birsingpur	13.5	11.0	4.3	2.5	3.3	3.0	0.0

Contd.....

*: Provisional

Source : Industrial Performance Review, IOC Ltd.

VI. 9 PLANT/CUSTOMER-WISE OFFTAKES OF FO/LSHS DURING 2001-02 TO 2007-08

(Qty: ' 000' MTs)

Category and Plant	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
D. Southern :	**860.4**	**811.4**	**574.2**	**446.6**	**325.4**	**399.8**	**449.4**
GMR Vasavi	232.8	226.9	173.8	148.9	130.3	166.4	159.8
TTPS Tutikorin	4.6	3.5	2.4	4.4	6.4	13.6	17.8
KTPS Palancha	9.1	6.6	6.3	2.5	2.5	0.3	4.5
RTPS Raichur	6.8	1.3	2.6	2.7	0.0	1.4	0.0
MTPP Metturdam	0.9	0.0	0.4	2.5	0.0	0.3	0.9
NLC Thermal Neyveli	58.8	34.9	0.0	5.1	11.3	8.6	11.8
HWP Manuguru	2.9	0.2	0.0	0.0	0.0	0.0	0.0
KEB Yellahanka	151.0	136.4	77.1	49.1	14.9	27.7	35.7
VTPS Ibrahimpatnam	2.6	1.3	1.2	0.0	1.4	1.3	2.4
RTPS Kalkamalla	0.0	1.3	1.3	2.1	0.3	2.7	7.1
NMTP Chennai	33.6	12.6	6.1	12.3	0.0	7.6	2.6
Samalpatti	86.0	130.5	96.0	70.2	68.3	76.4	111.2
KSEB Bramhapuram	38.3	6.9	0.0	0.0	10.2	11.8	12.3
Tata Power	131.4	56.9	57.4	43.9	0.0	3.2	1.8
Balaji power	57.8	128.5	96.9	71.6	64.1	74.9	80.3
Neyveli Power	-	-	-	-	0.0	0.0	1.2
NTPC Ramagundam	-	-	-	-	-	3.6	0.0
Others	43.8	63.6	52.7	31.3	15.7	3.6	0.0
Total Power (A+B+C+D)	**2444.1**	**2428.9**	**2246.4**	**2208.1**	**1813.8**	**1463.6**	**1532.5**
		(II) Fertilizer Plants					
A. Northern:	**959.0**	**842.6**	**939.3**	**919.0**	**909.2**	**803.9**	**814.0**
Indo Gulf, Jagdishpur	0.0	0.0	0.0	1.4	0.0	5.8	0.0
NFL, Nayanangal	291.2	260.9	293.3	301.1	272.2	287.5	242.3
NFL, Bhatinda	310.3	265.0	282.3	274.1	264.8	277.8	242.9
NFL, Panipat	288.5	258.6	302.7	270.8	277.5	216.0	308.7
IFFCO, Phulpur	69.0	58.1	61.0	71.6	88.9	22.6	20.1
B. Eastern:	**79.3**	**28.0**	**14.9**	**3.5**	**0.0**	**5.8**	**16.3**
Oswal Fertilizers	17.6	8.9	2.5	3.5	0.0	0.0	0.0
FCI Sindri	58.6	0.0	0.0	0.0	0.0	0.0	0.0
Paradeep Phosphate	3.1	19.1	12.4	0.0	0.0	5.8	16.3
C. Wastern:	**717.8**	**646.8**	**682.2**	**583.9**	**539.3**	**510.8**	**525.3**
ZAC Goa	105.8	101.3	103.6	110.5	88.8	74.7	52.8
IFFCO Kalol	50.1	44.6	42.0	44.8	18.0	19.6	16.6
GSFC Baroda	115.9	76.1	66.0	8.7	0.7	0.6	5.2
GNFC Bharuch	446.0	424.8	470.6	419.9	431.8	415.9	450.7
D. Southern :	**665.7**	**727.8**	**636.9**	**493.2**	**317.1**	**340.6**	**200.3**
MFL Madras	114.1	125.3	114.1	125.8	106.8	129.7	108.9
MCFL Mangalore	80.9	85.2	78.5	90.9	85.3	83.5	90.2
FACT Cochin	309.0	358.7	331.7	163.2	0.0	0.0	0.0
FACT (CD)	-	-	-	-	-	5.5	0.0
NLC	0.0	0.0	0.0	2.2	0.0	0.0	0.0
SPIC Tuticorin	139.4	141.4	100.7	102.4	120.5	117.9	0.0
Coromandal Fertilizers	22.3	17.2	11.9	8.7	4.5	4.0	1.2
Total Fertilizers (A+B+C+D)	**2421.8**	**2245.2**	**2273.3**	**1999.6**	**1765.6**	**1661.1**	**1555.9**

Contd.....

*: Provisional.

Source : Industrial Performance Review, IOC Ltd.

VI.9 PLANT/CUSTOMER-WISE OFFTAKES OF FO/LSHS DURING 2001-02 TO 2007-08

(Qty: ' 000' MTs)

Category and Plant	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
(III) Petrochemical Plants							
C. Wastern:							
Herdilla Chemicals Ltd	11.7	7.5	0.0	4.7	8.4	7.3	1.1
IPCL Baroda	24.8	46.6	85.3	36.4	3.1	11.0	0.0
NOCIL Mumbai	1.2	2.4	2.0	0.0	0.0	0.0	0.0
RIL patalganga (IOC)	-	-	-	-	0.0	2.9	0.0
RIL Industries (BPC)	-	-	-	-	87.9	86.1	112.1
RIL Industries (HPC)	-	-	-	-	65.0	47.7	50.9
Reliance Ind. Mumbai	90.0	123.5	137.9	143.3	-	-	-
Sub Total (C)	**127.7**	**180.0**	**225.2**	**184.4**	**164.4**	**155.0**	**164.1**
D. Southern :							
FACT Udagamandal	62.2	0.0	0.0	0.0	0.0	0.0	0.0
NTPL Chennai	65.5	83.1	53.0	7.8	0.0	0.0	0.0
Sub Total (D)	**127.7**	**83.1**	**53.0**	**7.8**	**0.0**	**0.0**	**0.0**
Total Petrochemicals (C+D)	**255.4**	**263.1**	**278.2**	**192.2**	**164.4**	**155.0**	**164.1**
(IV) Steel Plants							
B.Eastern:							
RSP Rourkela	8.2	16.2	7.1	0.0	0.0	1.8	1.9
ASP Durgapur	11.3	8.1	3.3	12.8	3.1	2.6	2.5
TISCO Jamshedpur	0.1	0.5	0.0	0.0	0.0	0.0	0.0
BSP Bokaro	16.6	7.1	6.3	0.0	1.5	4.5	0.0
SAIL Patratu	9.3	0.0	0.0	0.0	0.0	0.0	0.0
Sub Total (B)	**45.5**	**31.9**	**16.8**	**12.8**	**4.6**	**4.4**	**4.4**
C.Wastern:							
HSL/BSP, Bhilai	8.7	10.0	9.5	9.7	10.6	1.2	2.6
Sub Total (C)	**8.7**	**10.0**	**9.5**	**9.7**	**10.6**	**1.2**	**2.6**
D.Southern:							
Essar Steels	23.1	37.1	44.6	36.4	9.3	0.0	27.0
Jindal Steel	7.9	0.0	0.0	0.0	0.6	0.0	0.0
Vizag Steel Plant	0.0	0.9	0.0	0.0	0.0	5.5	0.0
VISL Bhadravathi	7.0	3.0	1.7	3.5	2.8	0.4	0.0
Sub Total (D)	**38.0**	**41.0**	**46.3**	**39.9**	**12.7**	**5.9**	**27.0**
Total Steel (B+C+D)	**92.2**	**82.9**	**72.6**	**62.4**	**27.9**	**11.5**	**34.0**

Contd.....

* Provisional

Source : Industrial Performance Review, IOC Ltd.

VI. 9 PLANT/CUSTOMER-WISE OFFTAKES OF FO/LSHS DURING 2001-02 TO 2007-08

(Qty: '000' MTs)

Category and Plant	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
(V) Others							
A.Northern:	**46.9**	**50.2**	**64.3**	**71.4**	**83.2**	**70.6**	**68.7**
Hindalco	46.9	50.2	64.3	71.4	83.2	70.6	68.7
B.Eastern:	**173.2**	**189.6**	**135.5**	**122.7**	**143.5**	**117.6**	**125.0**
Indal Muri	8.9	4.8	2.7	1.1	0.0	0.0	0.0
NALCO Angul	24.6	23.6	15.7	11	11.5	11.2	15.8
IRE Chatarpur	2.0	2.5	4.0	0.0	0.0	0.2	0.0
NALCO Damanjodi	84.3	118.8	96.3	92.9	107.5	99.2	102.8
OCL Rajgangapur	10.7	8.8	0.1	5.7	2.7	1.4	5.8
TELCO Jamshedpur	0.1	0.0	0.3	0.0	0.0	0.0	0.0
HCL Ghatsila	0.0	3.0	1.2	0.0	0.0	0.0	0.0
Phumphar Shipping	30.4	17.8	2.2	0.0	1.1	1.3	0.6
Tata Refractors	-	-	-	-	20.7	4.5	0.0
Others	12.2	10.3	13.0	12.0	0.0	4.3	0.0
C.Western:	**59.4**	**60.6**	**32.8**	**55.9**	**27.7**	**12.2**	**16.4**
BALCO Korba	0.0	18.7	9.6	6.4	0.0	0.0	0.0
Bombai Dye & Mkg. Co.	30.0	33.4	23.2	20.0	17.3	6.6	14.4
HPC Mandovi Pellets	29.4	8.5	0.0	29.5	10.4	5.6	2.0
D.Southern:	**233.7**	**178.8**	**183.2**	**161.8**	**116.2**	**54.0**	**132.0**
S.I.Viscose	8.1	0.0	0.0	0.0	0.0	0.0	0.0
Indal Belgaum	12.1	21.7	16.9	24.0	26.6	15.6	27.7
Tex MACO	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ballapur Ind.	0.8	0.8	0.1	0.0	0.0	0.0	0.0
Chem Plast	82.5	74.3	79.2	47.5	17.2	6.6	0.0
HOC Cochin	19.7	0.0	0.0	0.0	0.0	4.9	10.5
KIOCL	83.2	73.1	81.3	83.7	69.1	15.0	86.5
FACT ASCL	7.0	0.0	0.0	0.0	0.0	0.0	0.0
Zuari	10.8	1.9	0.7	0.0	0.0	0.0	0.0
Burn Standard	-	-	-	-	3.1	11.3	6.4
Cardite	-	-	-	-	0.2	1.2	0.9
Others	9.5	7.0	5.0	6.6	0.0	0.0	0.0
Total (A+B+C+D)	**513.2**	**563.0**	**415.8**	**411.1**	**370.6**	**254.4**	**342.1**
(VI) General Trade							
A.Northern:	1417.1	1447.9	1524.6	1819.2	1726.4	1756.7	1638.1
B.Eastern:	391.9	373.2	526.6	621.9	657.9	650.3	683.4
C.Western:	2458.0	2482.7	2670.4	3160.1	3550.7	3306.1	3170.3
D.Southern:	1575.6	1825.4	1803.3	1894.2	2172.9	1994.4	2010.8
Total General Trade	**5842.6**	**6129.2**	**6524.9**	**7495.4**	**8107.9**	**7707.5**	**7502.6**
Grand Total (I+II+III+IV+V+VI)	**11583.0**	**11634.0**	**12288.0**	**13111.0**	**12250.2**	**11253.1**	**11131.2**

* Provisional

VI.10 STATE-WISE FUEL CONSUMPTION AND POWER GENERATION IN GAS TURBINE AND DIESEL POWER STATIONS IN INDIA DURING 2006-07

State/Union Territories	Gas Stations				Diesel Stations		
	Natural Gas (MCM)	HSD (KL)	Naphtha (KL)	Genera-tion (GWH)	LSHS (KL)	Diesel Oil (KL)	Genera-tion (GWH)
1	2	3	4	5	6	7	8
NORTHERN REGION							
Haryana	0.00	0	0	0.00	0	0	0.00
Himachal Pradesh	0.00	0	0	0.00	0	0	0.00
Jammu & Kashmir	0.00	0	0	0.00	0	1710	12.44
Punjab	0.00	0	0	0.00	0	0	0.00
Rajasthan	241.78	8609	0	360.09	0	0	0.00
Uttar Pradesh	0.00	0	0	0.00	0	0	0.00
Uttarakhand	0.00	0	0	0.00	0	0	0.00
Delhi	913.42	38	0	3666.85	0	0	0.00
Central Sector	3039.52	208318	202486	15981.37	0	0	0.00
WESTERN REGION							
Gujarat	2425.80	642	34845	11832.57	0	0	0.00
Madhya Pradesh	0.00	0	0	0.00	0	0	0.00
Chhattisgarh	0.00	0	0	0.00	0	0	0.00
Maharashtra	1159.16 A	0	0	5367.89	0	0	0.00
Goa	0.00	0	68372	354.59	0	0	0.00
D. & N. Haveli	0.00	0	0	0.00	0	0	0.00
Daman & Diu	0.00	0	0	0.00	0	0	0.00
Central Sector	1730.28	647	137116	9811.56	0	0	0.00
SOUTHERN REGION							
Andhra Pradesh	1513.46	123	3816	6520.96	0	0	0.00
Karnataka	0.00	0	92522	530.66	50978	38244	381.15
Kerala	0.00	88	33021	192.62	74814	4465	271.21
Tamil Nadu	651.49	181824	15825	4192.69	316087	0	1657.55
Lakshadweep	0.00	0	0	0.00	0	9562	28.15
Puducherry	66.52	0	0	270.60	0	0	0.00
Central Sector	0.00	456	196261	1137.35	0	0	0.00
EASTERN REGION							
Bihar	0.00	0	0	0.00	0	0	0.00
Jharkhand	0.00	0	0	0.00	0	0	0.00
Orissa	0.00	0	0	0.00	0	0	0.00
West Bengal	0.00	0	0	0.00	210	0	0.68
D.V.C.	0.00	0	0	0.00	0	0	0.00
A & N Islands	0.00	0	0	0.00	0	44300	173.88
Sikkim	0.00	0	0	0.00	0	21	0.15
Central Sector	0.00	0	0	0.00	0	0	0.00
NORTH EASTERN REGION							
Assam	398.69	0	0	966.63	0	0	0.00
Manipur	0.00	0	0	0.00	0	760	3.16
Meghalaya	0.00	0	0	0.00	0	0	0.00
Nagaland	0.00	0	0	0.00	0	35	0.10
Tripura	350.82	0	0	511.35	0	0	0.00
Arunachal Pradesh	0.00	0	0	0.00	0	2583	7.00
Mizoram	0.00	0	0	0.00	0	1207	3.51
Central Sector	782.84	0	0	2459.47	0	0	0.00
TOTAL (ALL INDIA)	13273.78	400745	784264	64157.25	442089	102887	2538.98

KL: Kilo Litres MCM: Million Cubic Metres GWH: Gigawatt Hour

A: Includes 201.52 thousand metric tonne of gas.

Source: Central Electricity Authority

VI.11 STATE-WISE CONSUMPTION OF FOSSIL FUELS FOR ELECTRICITY GENERATION FROM THERMAL POWER STATIONS IN INDIA DURING 2006-07

State/Union Territories	Steam Stations						Gross Generation
	Coal (TMT)	Lignite (TMT)	Furnace Oil (KL)	HSD/ LDO (KL)	LSHS/ HHS (KL)	Gas (MSCM)	(GWH)
1	2	3	4	5	6	7	8
NORTHERN REGION							
Haryana	7667	0	0	38534	0	0	10524.72
Himachal Pradesh	0	0	0	0	0	0	0.00
Jammu & Kashmir	0	0	0	0	0	0	0.00
Punjab	9952	0	8781	0	0	0	15434.64
Rajasthan	11885	0	9646	565	0	0	18368.34
Uttar Pradesh	17019	0	3806	59276	0	0	21485.79
Uttarakhand	0	0	0	0	0	0	0.00
Delhi	1451	0	0	10512	2767	0	1587.23
Central Sector	35780	0	3372	19072	0	0	54207.02
WESTERN REGION							
Gujarat	16600	3211	6971	3425	440472	26 C	30216.13
Madhya Pradesh	11677	0	27029	5612	0	0	14018.22
Chhattisgarh	7151	0	9983	1949	0	0	9227.49
Maharashtra	35925	0	914392	520	0	31891 A	53560.26
Goa	0	0	0	0	0	0	0.00
D. & N. Haveli	0	0	0	0	0	0	0.00
Daman & Diu	0	0	0	0	0	0	0.00
Central Sector	24877	0	18405	2070	0	0	36649.79
SOUTHERN REGION							
Andhra Pradesh	15831	0	10723	1752	0	0	22066.62
Karnataka	8122	0	0	5746	0	666236 B	13545.50
Kerala	0	0	0	0	0	0	0.00
Tamil Nadu	15047	1768	32638	4843	964	0	23065.83
Lakshadweep	0	0	0	0	0	0	0.00
Puducherry	0	0	0	0	0	0	0.00
Central Sector	18003	18346	13171	5264		0	44108.35
EASTERN REGION							
Bihar	41	0	942	0	0	0	37.25
Jharkhand	4228	0	0	23527	0	0	6060.00
Orissa	2745	0	0	1271	0	0	3317.81
West Bengal	17317	0	12033	28815	0	0	25349.32
D.V.C.	9367	0	8687	46037	0	0	13779.10
A & N Islands	0	0	0	0	0	0	0.00
Sikkim	0	0	0	0	0	0	0.00
Central Sector	34844	0	20638	1555	0	0	45184.77
NORTH EASTERN REGION							
Assam	0	0	0	0	0	0	0.00
Manipur	0	0	0	0	0	0	0.00
Meghalaya	0	0	0	0	0	0	0.00
Nagaland	0	0	0	0	0	0	0.00
Tripura	0	0	0	0	0	0	0.00
Arunachal Pradesh	0	0	0	0	0	0	0.00
Mizoram	0	0	0	0	0	0	0.00
Central Sector	0	0	0	0	0	0	0.00
TOTAL (ALL INDIA)	**305529**	**23325**	**1101217**	**260345**	**444203**	**666236 B +31891 A +26 C**	**461794.18**

KL: Kilo Litres A:Unit in Metric tonne. B:Unit in Knm3-Corex gas. C:Unit in MMSCM
GWH: Giga Watt Hour TMT: Thousand Metric Tonnes Source: Central Electricity Authority

VII. FOREIGN TRADE

VII.1 IMPORT/EXPORT OF CRUDE OIL AND PETROLEUM PRODUCTS : 1970 - 20(

(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
1989	18919	3718.63	6489	2106.33	25408	5824.96
1990	20793	5929.62	7454	3541.64	28247	9471.26
1999	53306	33750.00	18400	13708.00	71706	47458.00
2000	70024	59456.00	11103	12616.00	81127	72072.00
2001	77554	61781.00	7574	8462.00	85128	70243.00
2002	81907	69522.00	7040	7655.00	88947	77177.00
2003	87027	81161.00	7374	9103.00	94401	90264.00
2004	95310	108774.00	7714	12062.00	103024	120836.00
2005	96270	153217.00	11247	23304.00	107517	176521.00
2006	109881	219447.00	16333	38305.00	126214	257752.00
2007*	119934	242707.00	20743	51723.00	140677	294430.00
			EXPORTS			
1970	-	-	412	5.72	412	5.72
1975	-	-	166	13.83	166	13.83
1988	-	-	2267	472.85	2267	472.85
1989	-	-	2531	654.84	2531	654.84
1998	-	-	1135	546.00	1135	546.00
1999	-	-	739	600.00	739	600.00
2000	-	-	6460	5929.00	6460	5929.00
2001	-	-	9657	8131.00	9657	8131.00
2002	-	-	10055	9243.00	10055	9243.00
2003	-	-	13915	15791.00	13915	15791.00
2004	-	-	16865	25611.00	16865	25611.00
2005	-	-	19143	39610.00	19143	39610.00
2006	-	-	31980	77732.00	31980	77732.00
2007*	-	-	39592	100521.00	39592	100521.00
			NET IMPORTS			
1970	11665	102.36	558	24.81	12223	127.17
1987	17977	3105.25	204	222.62	18181	3327.87
1988	17712	2811.28	3287	800.51	20999	3611.79
1997	33573	17061.19	17006	12204.63	50579	29265.82
1998	38479	15156.00	22437	12238.00	60916	27394.00
1999	53306	33750.00	17661	13108.00	70967	46858.00
2000	70024	59456.00	4643	6687.00	74667	66143.00
2001	77554	61781.00	-2083	331.00	75471	62112.00
2002	81907	69522.00	-3015	-1588.00	78892	67934.00
2003	87027	81161.00	-6541	-6688.00	80486	74473.00
2004	95310	108774.00	-9151	-13549.00	86159	95225.00
2005	96270	153217.00	-7896	-16306.00	88374	136911.00
2006	109881	219447.00	-15647	-39427.00	94234	180020.00
2007*	119934	242707.00	-18849	-48798.00	101085	193909.00

Provisional.

Source: PPAC.

VII.2 IMPORT/EXPORT OF CRUDE OIL AND PETROLEUM PRODUCTS
1970-71 TO 2007-08
(Qty: '000' Tonnes, Value: Rs. Crores)

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	7289	1917.52	23537	5266.49
1985-86	15144	3686.80	3865	1273.60	19009	4960.40
1990-91	20699	6118.42	8660	4660.21	29359	10778.63
1995-96	27342	11517.00	20335	12577.85	47677	24094.85
2000-01	74097	65932.00	9267	12093.00	83364	78025.00
2001-02	78706	60397.00	7009	7249.00	85715	67646.00
2002-03	81989	76195.00	7228	8847.00	89217	85042.00
2003-04	90434	83528.00	8001	9723.00	98435	93251.00
2004-05	95861	117003.00	8828	14887.00	104689	131890.00
2005-06	99409	171702.00	13440	27972.00	112849	199674.00
2006-07	111502	219029.00	17660	41160.00	129162	260189.00
2007-08*	121672	272698.80	22462	61000.00	144134	333698.80
			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	1003.94
1995-96	-	-	3435	1831.98	3435	1831.98
2000-01	-		8365	7672.00	8365	7672.00
2001-02	-	-	10065	8219.00	10065	8219.00
2002-03	-	-	10289	10868.00	10289	10868.00
2003-04	-	-	14620	16781.00	14620	16781.00
2004-05	-	-	18211	29928.00	18211	29928.00
2005-06	-	-	23460	49974.00	23460	49974.00
2006-07	-	-	33624	81094.00	33624	81094.00
2007-08*	-	-	40779	110789.00	40779	110789.00
			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	3551.65	1902	764.02	16518	4315.67
1990-91	20699	6118.42	6012	3656.27	26711	9774.69
1995-96	27342	11517.00	16900	10745.87	44242	22262.87
2000-01	74097	65932.00	902	4421.00	74999	70353.00
2001-02	78706	60397.00	-3056	-970.00	75650	59427.00
2002-03	81989	76195.00	-3061	-2021.00	78928	74174.00
2003-04	90434	83528.00	-6619	-7058.00	83815	76470.00
2004-05	95861	117003.00	-9383	-15041.00	86478	101962.00
2005-06	99409	171702.00	-10020	-22002.00	89389	149700.00
2006-07	111502	219029.00	-15964	-39934.00	95538	179095.00
2007-08*	121672	272698.80	-18317	-49789.00	103355	222909.80

*: Provisional.

VII.3 IMPORT / EXPORT OF CRUDE OIL AND PETROLEUM PRODUCTS

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

ITEM	2004		2005		2006		2007*	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7	8	9
GROSS IMPORTS								
A. Crude Oil	**95310**	**108774**	**96270**	**153217**	**109881**	**219447**	**119934**	**242707**
B. Pol.Products								
I.Light Distillates	**5212**	**9107**	**6560**	**14305**	**7487**	**20161**	**9001**	**25564**
1. LPG	2408	4402	2838	6019	2218	5798	2627	7284
2.MS	0	0	637	1623	397	1266	277	836
3. Naphtha	2245	3800	2549	5598	4777	12841	5829	16772
4.Propane	559	905	536	1064	95	255	268	672
II.Middle Distillates	**196**	**305**	**2441**	**5560**	**2019**	**6022**	**4297**	**12797**
1.ATF	2	13	3	15	2	19	2	14
2.SKO	0	0	976	2320	1257	3846	2254	7159
3.HSD	194	292	1462	3226	760	2157	2041	5624
4.Others	0	0	0	0	0	0	0	0
III.Heavy Ends	**2306**	**2650**	**2246**	**3439**	**6827**	**12122**	**7445**	**13362**
1.FO / LSHS	751	673	718	878	2734	4845	1419	2367
2.Lubes / Others[HEI]	1555	1977	1528	2561	4093	7277	6026	10995
TOTAL(B)	**7714**	**12062**	**11247**	**23304**	**16333**	**38305**	**20743**	**51723**
GRAND TOTAL(A+B)	**103024**	**120836**	**107517**	**176521**	**126214**	**257752**	**140677**	**294430**
EXPORTS								
Pol.Products								
I.Light Distillates	**5874**	**10205**	**6538**	**14663**	**11635**	**30651**	**13691**	**38500**
1.Naphtha	2658	4394	4083	9160	7742	19641	9586	26450
2.MS	2858	5211	2185	4912	3453	9731	3852	11298
3.TAME	0	0	10	25	0	0	0	0
4.Reformate	358	600	155	355	334	953	157	427
5.LPG	0	0	105	212	106	326	96	325
II.Middle Distillates	**9132**	**13816**	**10259**	**22230**	**14961**	**39444**	**18211**	**48252**
1.HSD	6943	10220	7559	15784	11469	29334	13584	35328
2.ATF	2189	3596	2612	6184	3343	9573	4489	12457
3.SKO	0	0	88	262	149	537	138	467
III.Heavy Ends	**1859**	**1590**	**2539**	**3190**	**5384**	**7637**	**7690**	**13769**
1.FO/LSHS	1717	1403	1816	1892	3547	4748	3727	5570
2.Others[HEE]	142	187	723	1298	1837	2889	3963	8199
TOTAL	**16865**	**25611**	**19336**	**40084**	**31980**	**77732**	**39592**	**100521**
NET IMPORTS								
A. Crude Oil	**95310**	**108774**	**96270**	**153217**	**109881**	**219447**	**119934**	**242707**
B. Pol.Products	**-9151**	**-13549**	**-8089**	**-16780**	**-15647**	**-39428**	**-18849**	**-48798**
GRAND TOTAL	**86159**	**95225**	**88181**	**136437**	**94234**	**180020**	**101085**	**193909**

TAME: Tertiary Amyl Methyl Ether. *Provisional

HEI: Includes Bitumen, Low Sulphur Waxy Residue, Paraffin Wax, RPO and CBFS.

HEE: Includes LOBS, Coke, VGO and Bitumen

Source: Petroleum Planning & Analysis Cell, New Delhi.

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

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

ITEM	2004-05		2005-06		2006-07		2007-08*	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7	8	9
GROSS IMPORTS								
A. Crude Oil	**95861**	**117003**	**99409**	**171702**	**111502**	**219029**	**121672**	**272699**
B. Petroleum Products								
I.Light Distillates	**5391**	**9973**	**6181**	**14855**	**8005**	**21369**	**9485**	**29221**
1. LPG	2334	4413	2883	7042	2278	5766	2832	8700
2. MS	233	501	486	1286	421	1326	328	1137
3. Naphtha	2214	4029	2331	5400	5306	14277	5983	18470
4. Propane/MTBE	610	1030	481	1127	0	0	342	914
II.Middle Distillates	**1028**	**2047**	**1846**	**4532**	**2392**	**6938**	**5443**	**17556**
1.ATF	3	14	2	12	2	17	3	20
2.SKO	211	429	1044	2617	1423	4250	2489	8324
3.HSD	814	1604	800	1903	967	2671	2951	9212
III.Heavy Ends	**2409**	**2867**	**5413**	**8585**	**7263**	**12853**	**7533**	**14223**
1.FO / LSHS	741	692	1434	2099	2983	5174	1187	2211
2.Lubes / Others[HEI]	1668	2175	3979	6486	4280	7679	6346	12012
Total(B)	**8828**	**14887**	**13440**	**27972**	**17660**	**41160**	**22461**	**61000**
Grand Total(A+B)	**104689**	**131890**	**112849**	**199674**	**129162**	**260189**	**144133**	**333699**
EXPORTS								
Petroleum Products								
I.Light Distillates	**6288**	**11513**	**7769**	**17384**	**12344**	**32581**	**13937**	**42220**
1.LPG	145	307	53	164	112	342	99	401
2.MS	2897	5625	2417	5843	3615	10191	4258	13614
3.Naphtha	2925	5030	5066	10787	8411	21431	9297	27365
4.TAME	0	0	0	0	0	0	0	0
5.Reformate	321	551	233	590	206	617	283	841
II.Middle Distillates	**9973**	**16689**	**11453**	**26102**	**15171**	**39993**	**18931**	**54919**
1.SKO	207	460	121	371	150	541	137	492
2.HSD/LDO	7286	11782	8504	18654	11369	29198	14308	40871
3.ATF	2480	4447	2828	7077	3652	10254	4486	13556
III.Heavy Ends	**1950**	**1726**	**4239**	**6488**	**6109**	**8520**	**7911**	**13650**
1.FO/LSHS	1792	1517	1815	2268	3759	4988	4718	6811
2.VGO/Lubes	102	137	993	1577	859	1826	1498	3236
3.Coke/Bitumen/ White Oil/Paraffin	56	71	339	302	66	77	409	614
4. OthersHEE	0	0	1092	2341	1425	1629	1286	2989
Total	**18211**	**29928**	**23461**	**49974**	**33624**	**81094**	**40779**	**110789**
NET IMPORTS								
A. Crude Oil	**95861**	**117003**	**99409**	**171702**	**111502**	**219029**	**121672**	**272699**
B. Pol.Products	**-9383**	**-15041**	**-10021**	**-22002**	**-15964**	**-39934**	**-18318**	**-49790**
Grand Total	**86478**	**101962**	**89388**	**149700**	**95538**	**179095**	**103354**	**222909**

TAME: Tertiary Amyl Methyl Ether $: Includes Benzene & Hexane Provisional.

HEI: Includes Bitumen, Lube Oil Base Stock, Low Sulphur Waxy Residue, Carbon Black Feed Stock, Coke, n-Paraffin and Wax.

HEE:Includes Benzene,Haxane,Aromex, mixed xylene & others(DGCI&S)

Source: Petroleum Planning & Analysis Cell, New Delhi.

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

(Rs. Crores)

Year	India's Overall Trade					India's Trade with OPEC Countries					% of India's trade with OPEC to India's total trade	
	Exports	Imports	Balance of Trade	% variation over preceding year		Exports	Imports	Balance of Trade	% variation over preceding year			
				Exports	Imports				Exports	Imports	Exports	Imports
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
1970-71	1535	1634	-99	8.6	3.3	99	126	-27	-	-	6.4	7.7
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
1981-82	7806	13608	-5802	16.3	8.4	940	3770	-2830	26.2	8.1	12.0	27.6
1982-83	8803	14293	-5490	12.8	5.0	820	3899	-3079	-12.8	3.4	9.8	27.2
1983-84	9771	15831	-6060	11.0	10.8	882	3225	-2343	7.6	17.3	9.0	20.4
1984-85	11744	17134	5390	20.2	8.2	944	3326	2282	7.0	3.1	8.0	19.0
1985-86	10895	19658	-8763	-7.2	14.7	835	3420	-2585	-11.5	2.8	7.7	17.8
1986-87	12452	20096	-7644	14.3	2.2	831	1792	-961	-0.5	-47.6	6.7	8.9
1987-88	15674	22244	-6570	25.9	10.7	980	3319	-2339	17.9	85.2	6.3	14.9
1988-89	20232	28235	-8003	29.1	26.9	1207	3681	-2474	23.2	10.9	6.0	13.0
1989-90	27658	35328	7670	36.7	25.1	1841	5074	-3233	52.5	37.8	6.7	14.3
1990-91	32553	43198	-10645	17.7	22.3	1831	7041	-5210	-0.5	38.8	5.6	16.3
1991-92	44041	47851	-3810	35.3	10.8	3852	9499	-5647	110.5	34.9	8.7	19.9
1992-93	53688	63375	-9687	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
1995-96	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	130100	154176	-24076	9.5	11.0	13110	34950	-21840	14.2	-3.3	10.1	22.7
1998-99	139752	178332	-38580	7.4	15.7	14982	32711	-17719	14.4	-6.4	10.7	18.3
1999-00	159561	215236	-55675	14.2	20.7	16910	48394	-31484	12.8	47.9	10.6	22.5
2000-01	203571	230873	-27302	27.6	7.3	22223	12385	9838	31.4	25.6	10.9	5.4
2001-02	209018	245199	-36181	2.7	6.2	25016	14215	10801	12.6	14.8	12.0	5.8
2002-03	255137	297206	-42069	22.1	21.2	33462	16951	16511	33.8	19.2	13.1	5.7
2003-04	293367	359108	-65741	15.0	20.8	43971	25905	18066	31.4	52.8	15.0	7.2
2004-05	375340	501065	-125725	27.9	39.5	59344	45031	14313	35.0	73.8	15.8	9.0
2005-06	456418	660409	-203991	21.6	31.8	67483	49458	18025	13.7	9.8	14.8	7.5
2006-07	571779	840506	-268727	25.3	27.3	94575	254871	-160296	40.1	415.3	16.5	30.3
2007-08*	640172	964850	-324678	12.0	14.8	108007	310383	-202376	14.2	21.8	16.9	32.2

*Provisional.

Source: (i) Ministry of Commerce's website (ii) Economic Survey 2007-08.

VII.6 INDIA'S FOREIGN EXCHANGE RESERVES (1970-71 TO 2007-08)

Year	S.D.R. Million	GOLD* (Rs.Crores)	Foreign Currency Assets (Rs.Crores)
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	9038.80	14578.00
1992-93	12.7	10548.80	20140.50
1993-94	76.5	12794.10	47287.00
1994-95	4.6	13751.80	66005.60
1995-96	55.9	15658.50	58445.90
1996-97	1.4	14557.20	80367.50
1997-98	1.0	13394.00	102506.70
1998-99	8.0	12562.20	125412.00
1999-00	4.0	12972.60	152924.00
2000-01	2.0	12711.00	184482.00
2001-02	8.0	14868.00	249118.00
2002-03	3.0	16785.00	341476.00
2003-04	2.0	18925.00	466215.00
2004-05	5.0	19686.00	593121.00
2005-06	3.0	25674.00	647327.00
2006-07	2.0	29573.00	836597.00
2007-08*	18.0	40124	1196023.00

Source: Economic Survey/Ministry of Finance(Appendix -68). **Provision

*Gold is valued at Rs.53.58 per 10 grams upto May 1966 and at Rs.84.39 per 10 gr upto september 1990 and closer to international market price w.e.f. October 17, 19

VII.7 INDIA'S POL IMPORTS AS A PROPORTION TO OVERALL EXPORTS

(Rs. Crores)

Year	POL Imports		India's Total Exports		Gross POL Imports as % age of total Gross Exports	Net POL Imports as % age of total Net Exports
	Gross	Net	Gross	Net of POL Exports		
1	2	3	4	5	6	7
1970-71	137	132	1535	1530	8.9	8.6
1975-76	1256	1242	4036	4022	31.1	30.9
1980-81	5266	5258	6711	6703	78.5	78.4
1985-86	4961	4316	10895	10250	45.5	42.1
1986-87	2773	2362	12452	12041	22.3	19.6
1987-88	4011	3362	15674	15025	25.6	22.4
1992-93	17046	15439	53688	52062	31.8	29.7
1993-94	17730	16221	69751	68242	25.4	23.8
1994-95	17838	16250	82674	81087	21.6	20.0
1995-96	24095	22263	106353	104521	22.7	21.3
1996-97	34171	32087	118817	104328	28.8	30.8
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	158863	34.0	33.7
2000-01	78025	70353	203571	195899	38.3	35.9
2001-02	67646	59427	209018	200733	32.4	29.6
2002-03	85042	74174	255137	244269	33.3	30.4
2003-04	93251	76470	283604	266823	32.9	28.7
2004-05	131891	1E+05	375340	345412	35.1	29.5
2005-06	199674	1E+05	456418	406444	43.7	36.8
2006-07	260189	2E+05	571779	490685	45.5	36.5
2007-08*	333699	222909	640172	532569	52.1	41.9

Source: Ministry of Commerce/DGCI&S. *Provisional

VIII. MANPOWER

VIII.1 MANPOWER EMPLOYED IN THE PETROLEUM INDUSTRY IN INDIA

(As on 31st March)

(Number)

CATEGORY	1995	2000	2003	2004	2005	2006	2007	2008
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
1. Exploration & Production	57633	50942	48237	44943	41415	39694	38948	33935
2. Refining	23031	27019	26451	25640	26859	30262	28151	30128
3. Marketing	34270	41110	40561	40232	40628	43317	42970	44995
4. Pipelines	3619	4180	4092	3829	7318	7816	7510	8933
5. R&D	2953	2858	2330	2278	2096	2071	2029	1964
6. Others	14929	13293	8256	9780	15055	15151	15707	20001
Grand Total	**136435**	**139402**	**129927**	**126702**	**133371**	**138311**	**135315**	**139956**

*: Provisional.

VIII.2 CATEGORY-WISE MANPOWER EMPLOYED IN THE PETROLEUM INDUSTRY IN INDIA

(As on 31st March)

(Number)

CATEGORY	1995	2000	2003	2004	2005	2006	2007	2008
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
1. Executive/Managerial	40282	43971	45301	45109	45319	45727	44447	46387
2. Supervisory	9245	12551	12610	12348	10780	11232	13147	12964
3. Clerical	16934	13627	12263	11559	11249	10807	16820	15247
4. Workman	64722	60292	52200	50013	48197	45810	38210	37266
5. TOTAL	**131183**	**130441**	**122374**	**119029**	**115545**	**113576**	**112624**	**111864**
6. Expatriates/ Foreign Experts/ on Contract	5252	8961	7553	7673	17826	24735	22691	28092
GRAND TOTAL	**136435**	**139402**	**129927**	**126702**	**133371**	**138311**	**135315**	**139956**

*: Provisional.

VIII.3 CATEGORY-WISE MANPOWER EMPLOYED IN VARIOUS SECTORS OF PETROLEUM INDUSTRY IN INDIA

(As on 31st March)

(Number)

CATEGORY	1995	2000	2003	2004	2005	2006	2007	2008
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
EXPLORATION AND PRODUCTION								
1. Executive/Managerial	17555	17867	19605	19270	18571	18432	19459	17693
2. Supervisory	4279	5824	6349	6055	4523	4778	3510	2825
3. Clerical	4532	3797	3068	2351	2176	1984	8013	6256
4. Workman	30295	23133	19215	17240	16138	14486	7940	7142
5. TOTAL	**56661**	**50621**	**48237**	**44916**	**41408**	**39680**	**38922**	**33916**
6. Expatriates/ Foreign Experts/ on Contract	972	321	0	27	7	14	26	19
GRAND TOTAL	**57633**	**50942**	**48237**	**44943**	**41415**	**39694**	**38948**	**33935**
PETROLEUM REFINING								
1. Executive/Managerial	4271	5175	5977	5899	6200	6296	5659	5975
2. Supervisory	1195	1928	2586	2616	2716	2809	3961	3988
3. Clerical	2479	1886	2521	2371	2293	2268	2216	1929
4. Workman	11893	13652	12266	11847	11445	11345	11208	11334
5. TOTAL	**19838**	**22641**	**23350**	**22733**	**22654**	**22718**	**23044**	**23226**
6. Expatriates/ Foreign Experts/ on Contract	3193	4378	3101	2907	4205	7544	5107	6902
GRAND TOTAL	**23031**	**27019**	**26451**	**25640**	**26859**	**30262**	**28151**	**30128**
MARKETING								
1. Executive/Managerial	8678	10924	11598	11747	11799	11365	10429	10841
2. Supervisory	2314	2605	2320	2334	2419	2422	3845	4015
3. Clerical	5566	5910	5245	5133	4831	4400	4413	4350
4. Workman	17291	18125	17152	16725	15658	15148	14621	14046
5. TOTAL	**33849**	**37564**	**36315**	**35939**	**34707**	**33335**	**33308**	**33252**
6. Expatriates/ Foreign Experts/ on Contract	421	3546	4246	4293	5921	9982	9662	11743
GRAND TOTAL	**34270**	**41110**	**40561**	**40232**	**40628**	**43317**	**42970**	**44995**

*: Provisional.

IX. PRICES

IX.1 WHOLESALE PRICE INDICES OF SELECTED PETROLEUM PRODUCTS

(1993-94 =100)

Products	Weight(%)	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*
Light Distillates							
LPG	1.83731	284.0	285.5	316.0	334.8	334.8	334.8
Petrol	0.88815	163.4	178.7	203.5	231.1	254.8	242.3
Naphtha	0.41885	256.5	315.6	432.1	530.4	615.9	694.4
Middle Distillates							
Kerosene	0.68928	359.7	359.2	357.9	357.6	357.6	357.6
Aviation Turbine Fuel	0.16953	135.7	149.3	174.1	228.7	262.6	272.7
High Speed Diesel Oil	2.02034	273.5	300.4	360.4	430.4	468.2	451.6
Light Diesel Oil	0.16015	233.0	284.6	366.3	445.3	491.1	491.2
Heavy Ends							
Furnace Oil	0.49335	179.7	227.2	265.5	347.4	393.2	438.4
Lubricating Oil	0.16367	154.7	163.8	189.3	194.5	248.8	275.0
Bitumen	0.14900	207.6	251.2	267.4	288.0	421.7	479.0
All commodities	**100.00000**	**166.8**	**175.9**	**187.3**	**195.6**	**206.2**	**215.7**

Source: Office of the Economic Adviser, Ministry of Commerce & Industry. *:Provisional.

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

(Rs./MT)

	Effective date	Basic Price	Royalty	Cess	Basic Rate	S.Tax on Basic Rate	Total
	1	2	3	4	5	6	7
	upto 13.7.75	713.04 (on import parity basis)					
(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	324.42	-	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	115.48	3002.48
	01.04.93	1796.00	**539.80	900.00	3235.80	129.43	3365.23
	01.04.96	**2094.00	**578.00	900.00	3572.00	142.88	3714.88

* Long run social marginal cost basis given up. ** Provisional.

Note: Impact of increase in price of crude oil royalty and sales tax w.e.f. 1.4.96 works out to around Rs.975 crores (on production QTY basis) for the year 1996-97.

1.4.98 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 as per methodology given below. The price is fixed on monthly basis. Upper ceiling of Rs.5570/MT has also been fixed by the Government w.e.f. January 2000. Royalty for the period April'98-May'99 was payable at the rate of Rs.578/MT.

June'99 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 8% 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.850/MT w.e.f. 1.12.99. For the period 1.6.99 to 30.11.99 upper ceiling of royalty was Rs.750/MT.

1.4.02 As per Govt. notification No.79 dated March 28, 2002 the price of indigenous crude oil of ONGC and OIL will be market determined w.e.f. 1.4.2002.

The weighted average crude prices (provisional) of ONGC for 2006-07 are given below:

		Unit	Basic Price	Royalty	Cess	Sales Tax
2006-07	Offshore crude	Rs./MT	17856.41	1813.96	2601.00	823.72
	Onshore crude	Rs./MT	14504.31	3110.28	2601	811.52
	Offshore and Onshore crude	Rs./MT	16725.42	2251.33	2601	819.6

Note:

2006-07 1. The above prices exclude octroi and BPT charges, which is Rs.303.25 and Rs.26.74 per MT respectively, applicable in case of offshore crude only& crude pipeline charges of Rs.72.30 per MT applicable for onshore crude.

2. Cess includes OIDB Cess of Rs.2500/MT, NCCD of Rs.50/MT and education cess @2% on OIDB Cess and NCCD.

Source: Petroleum Planning & Analysis Cell.

IX.2b CONSUMER AND PRODUCER PRICES OF NATURAL GAS

(Rs./'ooo' cubic metre)

Effective Date	Consumer Prices		Transportation charges along HVJ pipeline	Producer Prices			Calorific Value (K.Cal/SCM)
	Off-shore (Landfall point and On-shore	For North-Eastern States		ONGC	ONGC (NE states)	OIL (NE states)	
1	2	3	4	5	6	7	8
01.04.2002	2850	1700	1150	2116	1700	1900	10000
01.07.2002	2850	1700	1150	2074	1700	1900	10000
01.10.2002	2850	1700	1150	2118	1700	1900	10000
01.01.2003	2850	1700	1150	2132	1700	1900	10000
01.04.2003	2850	1700	1150	2206	1700	1900	10000
01.07.2003	2850	1700	1150	2176	1700	1900	10000
01.10.2003	2850	1700	1150	2240	1700	1900	10000
01.01.2004	2850	1700	1150	2224	1700	1900	10000
01.03.2004	2850	1700	1150	2224	1700	1900	10000
01.04.2004	2850	1700	1150	2137	1700	1900	10000
01.07.2004	2850	1700	1150	2176	1700	1900	10000
01.09.2004	2850	1700	1150	2194	1700	1900	10000
01.10.2004	2850	1700	1150	2120	1700	1900	10000
01.01.2005	2850	1700	1150	2143	1700	1900	10000
01.04.2005	2850	1700	1150	2384	1700	1900	10000
01.07.2005	3200	1920	1150	3168	1920	3168	10000
01.10.2005	3200	1920	1150	3137	1920	3137	10000
01.01.2006	3200	1920	1150	3118	1920	3118	10000
01.04.2006	3200	1920	1150	3200	1920	3200	10000
01.04.2007	3200	1920	1150	3200	1920	3200	10000
01.03.2008	3200	1920	1150	3200	1920	3200	10000

Note:

1. The consumer prices are exclusive of Royalty, Sales Tax and other Statutory Levies. Producer prices are exclusive of Royalty.
2. w.e.f. 5.6.2006 in respect of direct customers, ONGC is paid consumer price of Rs.3840 per 1000 SCM of gas with calorific value of 10000 K Cal M^3.

Source: Petroleum Planning & Analysis Cell.

IX.3 PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS IN MAJOR CITIES AS ON 1.4.2008

	DELHI	KOLKATA	MUMBAI	CHENNAI
Liquefied Petroleum Gas (Domestic) (Rs./14.2 Kg Cyl)				
Basic price	231.51	231.51	231.51	231.51
State surcharge	0.03	3.86	4.08	7.01
Freight upto bottling plant	1.42	2.27	0.00	0.00
Price adj factor	21.43	22.27	21.88	10.16
Assessable value	**254.39**	**259.91**	**257.46**	**248.68**
Price at bottling plant	**254.39**	**259.91**	**257.46**	**248.68**
Freight / local delivery charges	10.00	10.00	10.00	10.00
Price including octroi	**264.39**	**269.91**	**267.46**	**258.68**
Central sales tax / sales tax	10.58	10.80	10.70	10.35
Billable rate	**274.96**	**280.71**	**278.16**	**269.03**
Price to dealer (14.2kg/cyl)	274.96	280.71	278.16	269.03
Distributor commission	19.05	19.05	19.05	19.05
Vat on Distributor Commission	0.76	0.76	0.76	0.00
Price after Distributor Commission	294.77	300.52	297.98	288.08
RSP for 14.2kg/cyl	294.77	300.52	297.98	288.08
RSP Rounded off	294.75	300.50	298.00	288.10
Motor Spirit (Rs./Kl)				
Revised storage point price	21932.84	21932.84	21932.84	21932.84
State surcharge	4.00	605.00	276.00	795.00
BMC Surcharge	0.00	0.00	859.00	0.00
Siding Charge w.e.f. 19.7.07	15.67	0.00	0.00	0.00
Rly/Ocean/Freight	91.96	29.87	0.00	0.00
RPO surcharge	36.00	36.00	36.00	36.00
RPO charge	4.36	4.36	4.36	4.36
Price adj factor	0.00	84.79	(53.01)	(218.86)
Assessable value	**22084.83**	**22692.86**	**23055.19**	**22549.34**
Basic Excise Duty Amount	1350.00	1350.00	1350.00	1350.00
ADE + SADE	8000.00	8000.00	8000.00	8000.00
Sub Total	**31434.83**	**32042.86**	**32405.19**	**31899.34**
FDZ charges	44.00	44.00	44.00	44.00
Basic Excise Duty Amount	5000.00	5000.00	5000.00	5000.00
EDN Cess	430.50	430.50	430.50	430.50
Sub Total	**36909.33**	**37517.36**	**37879.69**	**37373.84**
Delivery charges beyond FDZ	0.00	13.44	0.00	0.00
Toll Tax	0.00	10.00	0.00	0.00
RPO Price	36909.33	37540.80	37879.69	37373.84
Sales Tax	7586.67	9385.20	10606.31	11212.15
Surcharge on ST	0.00	1000.00	1000.00	0.00
Dealer Commission	1024.00	1024.00	1024.00	1024.00
Retail Selling Price Rs./Kl	**45520.00**	**48950.00**	**50510.00**	**49609.99**
Retail Selling Price Rs./Ltr	**45.52**	**48.95**	**50.51**	**49.61**

Cont'd....

IX.3 PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS IN MAJOR CITIES AS ON 1.4.2008

	DELHI	KOLKATA	MUMBAI	CHENNAI
	High Speed Diesel (Rs./Kl)			
Revised Storage Point Price	22457.15	22457.15	22457.15	22457.15
State surcharge	2.00	300.00	137.00	120.00
BMC surcharge	0.00	0.00	299.00	0.00
Siding Charge w.e.f. 19.7.07	16.01	0.00	0.00	0.00
Rly / Ocean / Freight	102.68	21.93	0.00	0.00
RPO surcharge	21.00	21.00	21.00	21.00
RPO charge (excisable)	0.27	0.27	0.27	0.27
Price adj factor	0.00	18.14	22.33	3.52
Assessable value	**22599.11**	**22818.49**	**22936.75**	**22601.94**
Basic Excise Duty	1350.00	1350.00	1350.00	1350.00
Sub Total	**23949.11**	**24168.49**	**24286.75**	**23951.94**
FDZ charges	44.00	44.00	44.00	44.00
Additional Excise Duty	2000.00	2000.00	2000.00	2000.00
Basic Excise Duty Amount	1250.00	1250.00	1250.00	1250.00
Edn Cess	138.00	138.00	138.00	138.00
Sub Total	**27381.11**	**27600.49**	**27718.75**	**27383.94**
Delivery charges beyond FDZ	0.00	13.44	0.00	0.00
Octroi at destination	0.00	10.00	0.00	0.00
RPO Price	27381.11	27623.93	27718.75	27383.94
Pollution Cess w.e.f. 8.2.08	250.00	0.00	0.00	0.00
Sales Tax	3528.89	4696.07	7761.25	6416.06
Surcharge on ST	0.00	1000.00	0.00	0.00
Dealer Commission	600.00	600.00	600.00	600.00
Selling Price Rs./Kl	**31760.00**	**33920.00**	**36080.00**	**34400.00**
Selling Price Rs./Ltr	**31.76**	**33.92**	**36.08**	**34.40**
	Superior Kerosene Oil(Rs./Kl)			
Revised Ex-storage point price	7967.00	7967.00	7967.00	7967.00
State surcharge	0.00	62.00	4.00	113.00
BMC surcharge	0.00	0.00	62.00	0.00
Siding charges	15.55	0.00	0.00	0.00
Rly / PL / Ocean / Freight	52.51	19.37	0.00	0.00
Assessable value	**8035.06**	**8048.37**	**8033.00**	**8080.00**
Entry tax amount / TN rebate	0.00	0.00	0.00	(576.00)
Sales Tax	321.40	321.93	321.32	300.16
Wholesales Margin	204.00	204.00	204.00	143.00
Transport charges	328.46	203.30	243.00	52.25
VAT on wholesale margin	21.30	0.00	0.00	0.00
Leakage and other expenses	0.00	0.00	38.26	0.00
Wholesales Price/Kl	**8910.22**	**8777.60**	**8839.58**	**7999.41**
Retailers Margin	179.00	176.45	250.00	360.00
Leakage and other expenses	0.00	205.18	0.00	30.00
Retailer Transportation	0.00	130.00	0.00	0.00
VAT on wholesale margin	7.16	0.00	0.00	0.00
Rounding off	0.00	0.00	2.42	0.00
Selling Price Rs./Kl	**9096.38**	**9289.23**	**9092.00**	**8389.41**
Selling Price Rs./Ltr	**9.09**	**9.30**	**9.10**	**8.39**

Note: Selling price for Superior Kerosene Oil is for Public Distribution System(PDS).

Cont'd....

IX.3 PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS IN MAJOR CITIES AS ON 1.4.2008

	DELHI	KOLKATA	MUMBAI	CHENNAI
ATF (Domestic Airlines)				
Basic price	37740.00	38230.00	37830.00	38070.00
Inland differential	570.00	0.00	0.00	0.00
State surcharge	2.00	1520.00	590.00	1032.00
Freight	322.98	590.76	100.00	146.72
Siding charges	25.53	0.00	0.00	0.00
Marketing cost	2165.00	3500.00	2055.00	1945.00
MSL cost	217.00	217.00	217.00	217.00
Assessable value	**41042.51**	**44057.76**	**40792.00**	**41410.72**
Excise Duty	3283.40	3524.62	3263.36	3312.86
Education Cess @3% on ED	98.50	105.74	97.90	99.39
Toll Tax	0.00	0.00	0.00	0.00
Posted airfield price per KL	**44424.41**	**47688.12**	**44153.26**	**44822.96**
(exclusive of sales tax and other levies)				
Furnace Oil (Rs./Kl)				
Ex-storage point price		23630.00	23230.00	23500.00
State surcharge		105.00	191.60	375.00
Notional railway freight		260.35	0.00	0.00
Siding / shunting charges		95.85	0.00	0.00
Assessable value		24091.20	23421.60	23875.00
Excise duty + edu cess		3473.95	3377.39	3442.78
Total inclusive of excise duty + edu cess		**27565.15**	**26798.99**	**27317.78**
Sales tax		1102.61	3349.87	1092.71
Total		**28667.76**	**30148.86**	**28410.49**
Light Diesel Oil (Rs./Kl)				
Ex-storage point price	24880.00	24880.00	24880.00	24880.00
State surcharge	25.00	370.00	121.28	455.00
Notional railway freight	244.70	1139.81	0.00	0.00
Siding Dest.	27.06	90.93	0.00	0.00
Assessable value	**25176.76**	**26480.74**	**25001.28**	**25335.00**
Excise duty + edu cess	3630.49	3818.52	3605.18	3653.31
Additional levy alongwith cess	2575.00	2575.00	2575.00	2575.00
Total inclusive of excise duty + edu ce	**31382.25**	**32874.26**	**31181.46**	**31563.31**
Sales tax	3922.78	5588.62	3897.68	7890.83
State Development Tax	250.00	0.00	0.00	0.00
Total	**35555.03**	**38462.88**	**35079.15**	**39454.13**

IX.4 TRENDS IN RETAIL SELLING PRICES OF SELECTED PETROLEUM PRODUCTS IN METROPOLITAN TOWNS IN INDIA

Price as on	Mumbai	Kolkata	Delhi	Chennai	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	10.76	10.07	9.84	11.09	10.31
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
01.04.2002	30.78	26.99	26.54	28.49	26.80
01.04.2003	38.59	35.00	33.49	36.56	33.94
01.04.2004	38.83	36.61	33.71	36.79	N.A.
01.04.2005	43.23	40.89	37.99	41.25	N.A.
01.04.2006	49.16	46.90	43.49	47.49	N.A.
01.04.2007	48.41	46.90	42.85	47.48	N.A.
01.04.2008	50.51	48.95	45.52	49.61	N.A.
		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
01.04.1993	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
01.04.2002	21.10	16.97	16.60	18.10	17.75
01.04.2003	27.88	23.51	22.11	24.65	23.80
01.04.2004	27.43	23.99	21.73	24.23	N.A.
01.04.2005	32.83	28.72	28.22	29.30	N.A.
01.04.2006	37.57	32.87	30.45	33.72	N.A.
01.04.2007	34.96	32.88	30.25	33.31	N.A.
01.04.2008	36.08	33.92	31.76	34.40	N.A.

N.A.: Not Available.

IX.4 TRENDS IN RETAIL SELLING PRICES OF SELECTED PETROLEUM PRODUCTS IN METROPOLITAN TOWNS IN INDIA

Price as on	Mumbai	Kolkata	Delhi	Chennai	Kanpur
		Superior Kerosene Oil (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
01.04.1993	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
01.04.2002	9.01	9.27	8.98	8.40	9.59
01.04.2003	9.26	9.30	9.01	8.40	N.A.
01.04.2004	9.26	9.30	9.01	8.40	N.A.
01.04.2005	9.28	9.26	9.02	8.39	N.A.
01.04.2006	9.05	9.30	9.05	8.39	N.A.
01.04.2007	9.05	9.29	9.09	8.39	N.A.
01.04.2008	9.10	9.30	9.09	8.39	N.A.
		Liquefied Petroleum Gas (Rs./Cylinder)			
	14.2 Kg Cyl	15 Kg Cyl	15 Kg Cyl	15 Kg Cyl	15 Kg Cyl
13.01.1981	38.94	49.09	45.53	-	46.26
17.03.1985	49.95	56.34	51.35	50.74	54.89
01.04.1990	56.15	63.20	57.61	57.44	61.56
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
01.04.2002	244.95	265.55	240.45	247.40	249.90
01.04.2003	250.61	266.30	241.21	248.17	N.A.
01.04.2004	251.00	266.70	241.60	248.55	N.A.
01.04.2005	297.95	300.50	294.75	288.15	N.A.
01.04.2006	297.95	300.50	294.75	288.15	N.A.
01.04.2007	298.00	300.50	294.75	288.10	N.A.
01.04.2008	298.00	300.50	294.75	288.10	N.A.

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

N.A.: Not Available.

*: Prices for Public Distribution System.

IX.5 RATES OF DEALER'S COMMISSION FOR MS, HSDO AND LPG IN INDIA

(Rs./Kl)

Effective date	Annual volume of sale (KL)							
	0-360		361-600		601-1080		over 1080	
	MS	HSD	MS	HSD	MS	HSD	MS	HSD
17.3.1985	146	83	108	62	95	44	76	38
20.3.1990	250	135	179	92	160	42	138	66
15.10.1990	279	145	204	101	182	77	155	70
25.7.1991	311	145	233	101	206	77	172	70
16.9.1992	321	155	240	111	214	83	180	75
1.4.1993	381	186	277	128	248	101	217	92

	0-600		Above 600	
	MS	HSD	MS	HSD
1.9.1993#	363	190	224	90
2.2.1994*	363	195	224	90
1.4.1994*	376	196	232	93
1.4.1995*	378	197	233	93
1.4.1996*	380	197	234	93
7.7.1996*	387	200	238	94
1.4.1997*	389	201	239	94
6.11.1997*	409	222	409	168
1.4.1998*	411	223	411	169
1.4.1999*	413	224	413	170
6.10.1999*	413	238	413	184
5.1.2000*	462	271	462	271
1.10.2000*	478	277	478	277
10.11.2001**	613	365	613	365
1.11.2002**	639	385	639	385
1.4.2004**	707	425	707	425
1.8.2005***	848	509	848	509
1.3.2007***	894	529	894	529
14.5.2007	1024	600	1024	600
23.5.2008	1052	631	1052	631

	Commission for LPG(Rs./Cylinder)	
	On sale of LPG refills per month	
	Upto 2500	Over 2500
17.5.1991	5.70	5.70
1.9.1993	7.30	6.50

	On sale of LPG refills per month	
	Upto 3000	Over 3000
	(Rs./5 Kg Cylinder)	(Rs./14.2 Kg Cylinder)
1.4.1995	-	7.80	6.95
1.4.1996	-	8.05	7.15
1.4.1997	-	8.30	7.40
6.11.1997	-	10.50	10.50
1.4.1998	-	10.80	10.80
1.4.1999	-	11.10	11.10
5.1.2000	-	13.83	13.83
1.4.2000	-	14.28	14.28
1.10.2000	-	14.57	14.57
23.11.2000	-	14.38	14.38
1.12.2000	-	14.53	14.53
10.11.2001	-	15.55	15.55
1.11.2002	8.40	16.33	16.33
1.10.2003	8.60	16.71	16.71
1.3.2007	9.81	19.05	19.05

#: Exclusive of demand draft charges.

*: For dealers on DD an amount of Rs.40/Kl for MS and Rs.16/Kl for HSD shall be paid additionally.

**: For dealers on DD an amount of Rs.58/Kl for MS and Rs.34/Kl for HSD shall be paid additionally. For dealers on pay order/bank cheque an amount of Rs.29/Kl for MS and Rs.17/Kl for HSD shall be paid additionally.

***Licence fee recovery may be recovered for 'A' site @Rs.43/Kl and Rs.36/Kl and for 'B' site @Rs.13/Kl and @Rs.11/Kl for MS and HSD respectively.

The distinctive rates of MS-87 & MS-93 stand discontinued w.e.f. 10.11.2001. The above rates till 9.11.2001 are for MS-87.

IX.6 MONTH & YEAR-WISE AVERAGE INTERNATIONAL-CRUDE OIL PRICE (INDIAN BASKET)

PPRICE IN US$/bbl

Year/Month	2003-04	2004-05	2005-06	2006-07	2007-08	% Growth *
1	2	3	4	5	6	7
April	24.21	32.37	49.47	67.15	65.52	-2.43
May	24.98	36.08	47.02	67.29	65.74	-2.30
June	26.44	34.23	52.75	66.80	68.19	2.08
July	27.46	36.35	55.05	71.36	72.69	1.86
August	28.67	40.53	60.05	70.84	69.03	-2.56
September	26.27	39.15	59.74	61.04	74.83	22.59
October	28.45	43.88	56.28	57.27	79.33	38.52
November	28.23	38.82	53.14	57.8	89.11	54.17
December	28.97	36.82	55.05	60.35	87.92	45.68
January	30.00	40.96	60.54	52.53	89.52	70.42
February	29.64	42.67	58.95	56.53	92.37	63.40
March	32.21	49.27	60.01	60.25	99.76	65.58
Year Average	27.98	39.21	55.72	62.46	79.25	26.88

* = % Growth during 2007-08 as compared to 2006-07

Source: International Trade Deptt., IOC.

X. EXCISE / CUSTOM DUTIES AND SALES TAX

X.1 REALISATION OF EXCISE AND CUSTOM DUTIES FROM CRUDE OIL AND PETROLEUM PRODUCTS

(Rs.Crore)

PRODUCTS	1990-91	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
	(.....ACTUALS.....)							
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
A. EXCISE DUTIES								
1. Motor Spirit	1202	8501	11563	12575	13792	17554	18303	20102
2. Kerosene Oil	255	699	1390	1700	1273	212	236	241
3. Refined Diesel Oil	693	11028	10570	13470	14455	21773	24672	23848
4. Diesel Oil (NES)	35	1179	1038	992	1246	505	389	306
5. Furnace Oil	49	779	971	822	996	1756	1877	1985
6. Pol. Products (NOS)	421	2878	3483	2906	3711	4623	4919	6313
7. Petroleum Gases	66	1542	2445	2552	2424	319	454	570
8. Cess on crude oil	2757	2731	4501	5134	5248	5007	7034	6866
Total (A)	**5478**	**29337**	**35961**	**40151**	**43145**	**51749**	**57884**	**60231**
B. CUSTOM DUTIES								
1. Crude Petroleum	3145	4818	6820	7491	9761	7158	7583	9101
2. Petroleum Products	920	1949	2346	3091	3489	4236	6426	9041
Total (B)	**4065**	**6767**	**9166**	**10582**	**13250**	**11394**	**14009**	**18142**
Grand Total (A+B)	**9543**	**36104**	**45127**	**50733**	**56395**	**63143**	**71893**	**78373**

Figures rounded to nearest crore. *: Provisional

Source: Ministry of Finance.

X.2 PERCENTAGE SHARE OF CENTRAL EXCISE ON POL TO TOTAL CENTRAL EXCISE AND TO NET NATIONAL PRODUCT

Year	Net National Product at factor cost at current Prices	Central Excise	Central Excise on POL	Central Excise as % of NNP	Central Excise on POL as % of NNP	Central Excise on POL as % of Total Central Excise
	(.....Rs. Crores.....)					
1	*2*	*3*	*4*	*5*	*6*	*7*
1960-61	15204	416	101	2.7	0.7	24.3
1965-66	23752	898	261	3.8	1.1	29.1
1970-71	38968	1759	608	4.5	1.6	34.6
1975-76	69005	3845	1040	5.6	1.5	27.0
1980-81	118236	6500	1216	5.5	1.0	18.7
1985-86	221401	13006	2718	5.9	1.2	20.9
1990-91	450145	24514	5478	5.4	1.2	22.3
1991-92	514607	28121	5262	5.5	1.0	18.7
1992-93	587064	30651	5042	5.2	0.9	16.4
1993-94	685912	31872	5310	4.6	0.8	16.7
1994-95	805981	36900	6696	4.6	0.8	18.1
1995-96	941861	40187	7159	4.3	0.8	17.8
1996-97	1093962	45008	9076	4.1	0.8	20.2
1997-98	1224946	47962	10947	3.9	0.9	22.8
1998-99	1415093	53246	13494	3.8	1.0	25.3
1999-00	1585501	61902	20202	3.9	1.3	32.6
2000-01	1696387	68526	24663	4.0	1.5	36.0
2001-02	1847667	72555	29337	3.9	1.6	40.4
2002-03	1993846	82310	35961	4.1	1.8	43.7
2003-04	2246465	90774	40151	4.0	1.8	44.2
2004-05	2501067	99125	43145	4.0	1.7	43.5
2005-06	2846762	111226	51749	3.9	1.8	46.5
2006-07	3325817	117613	57884	3.5	1.7	49.2
2007-08	3789500	127947 RE	60231	3.4	1.6	47.1

RE : Revised Estimates

Source : Economic Survey and Budget Papers of Central Government.

X.3 COMPOSITE UNIT INCIDENCE OF EXCISE AND CUSTOM DUTIES ON PETROLEUM PRODUCTS

Year	Consumption of POL Products (Excl. R.B.F.) ('000' MTs)	Central Excise Duty realisation (Rs.Crores)	Customs Duties realisation (Rs.Crores)	Total Central Excise & Custom duties (Rs.Crores)	Composite incidence of Excise & Customs duties (Rs.)
1	*2*	*3*	*4*	*5*	*6*
1960-61	7985	101	23	124	155.29
1965-66	11917	281	83	344	288.66
1970-71	17912	608	30	638	356.19
1975-76	22447	1040	115	1155	514.55
1980-81	30896	1604	354	1570	508.16
1985-86	40872	3969	1050	3768	921.90
1990-91	55035	5478	3701	9179	1667.85
1991-92	56974	5262	4075	9337	1638.82
1992-93	58902	5042	5280	10322	1752.40
1993-94	60812	5310	6913	12223	2009.97
1994-95	67513	6996	6209	12906	1911.63
1995-96	74637	7159	8453	15612	2091.72
1996-97	79168	9076	12417	21493	2714.86
1997-98	84290	10947	10026	20973	2488.20
1998-99	90562	13494	8019	21513	2375.50
1999-00	97086	20202	12460	32662	3364.23
2000-01	100074	24663	11249	35912	3588.54
2001-02	100432	29337	6767	36104	3594.87
2002-03	104126	35961	9166	45127	4333.88
2003-04	107751	40151	10582	50733	4708.36
2004-05	111634	43145	13250	56395	5051.78
2005-06	113212	51749	11394	63143	5577.41
2006-07	120749	57884	14009	71893	5953.92
2007-08*	128946	60231	18142	78373	6077.97

*: Provisional.

X.4 ROYALTY AND OIL DEVELOPMENT CESS PAID BY OIL COMPANIES ON PRODUCTION OF CRUDE OIL AND NATURAL GAS DURING 1975-76 TO 2007-08

(Rs. Lakhs)

Year	Royalty Paid on Crude Oil						Royalty Paid on Natural Gas					Oil Develop-ment Cess
	Western Region	Eastern Region	Southern Region	Total Onshore	Bombay High/KG Offshore	Total	Western Region	Eastern Region	Southern Region	B.High/KG Off-shore	Total	
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
1975-76	615	645	0	1260	0	1260	43	26	0	0	69	3081
1980-81	1578	531	0	2109	1997	4106	168	36	0	50	253	6040
1985-86	18275	12433	0	30708	12155	42863	242	96	0	1905	2243	86629
1990-91	39424	26074	1291	66789	136037	202826	1283	421	68	12038	18810	278197
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	64692	115390	180082	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
2001-02	54229	41574	14529	110332	138261	248593	7383	2932	4354	51215	65884	287845
2002-03	85123	57941	23635	166699	140018	306717	10099	1999	7195	58481	77774	509057
2003-04	82282	69761	27248	179291	138070	317361	10674	2226	8817	63699	85416	514317
2004-05	121061	88099	13692	222852	204291	427143	16252	2921	4326	59443	82942	553650
2005-06	174487	135973	18788	329248	177492	506740	20156	6605	6540	53065	86366	519562
2006-07	189162	137737	36236	363135	222585	585720	35262	8056	7547	56610	107475	717734
2007-08	214817	165983	23377	404177	250256	654433	62791	22814	7640	55440	148685	715626

X.5 SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS IN DIFFERENT STATES AS ON 1.4.2008

(Percentage)

STATE	Crude Oil	Natural Gas	CNG	MS	HSD	SKO	LPG
1	2	3	4	5	6	7	8
Andhra Pradesh	4	12.5	16	33	22.25	4/12.5 *	4/12.5 *
Arunachal Pradesh	12.5	20		20	12.5	NA/12.5 *	4/12.5 *
Assam	4	20	12	25.75	15.5	2/12.5 *	4/12.5 *
Bihar	4	20		27	20	12.5/12.5 *	4/12.5 *
Chandigarh		8	8	22	12.5	4/12.5 *	4/12.5 *
Chhattisgarh	4	12.5	8	25	25	4/12.5 *	4/12.5
Delhi	4	20	8	20	12.5	4/12.5 *	4/4 *
Goa	20	12.5	8	20	19	4/12.5 *	4/12.5 *
Gujarat	4	12.5+2.5%	4	26	24	0/25 *	4/12.5 *
Haryana	4	12.5	10	20	12	4/12.5 *	4/12.5 *
Himachal Pradesh	4	12.5	8	25	14	0/12.5 *	4/12.5 *
Jammu & Kashmir		20	20	20	12	4/4 *	4/12.5 *
Jharkhand	4	12.5		20	18	4/12.5 *	4/12.5 *
Karnataka	4	12.5	12	28	20	4/12.5 *	4/12.5 *
Kerala	4	12.5	28	29.01	24.69	4/12.5 *	4/12.5
Madhya Pradesh	4	12.5	8	28.75	25	4/12.5 *	4/12.5 *
Maharashtra(i) WML	4	12.5	13	28%+Re1/Ltr	28	4/12.5 *	4/12.5 *
(ii)OML				27%+Re1/Ltr	25		
Manipur	4			20	12.5	0/4 *	4/12.5 *
Meghalaya		20		20	12.5	4/12.5 *	4/12.5 *
Mizoram	4			20	12	0/0 *	4/N.A *
Nagaland	4	12	12	20	12	0/15 *	4/12 *
Orissa	12.5			20	20	4/12.5 *	0/NA *
Punjab		8	8	27.5	8.8	4/12.5 *	4/12.5 *
Pondicherry				12.5	12.5	0/NA *	1/12.5 *
Rajasthan	-	4	12	28	20	4/12.5 *	4/12.5 *
Sikkim				20	12.5	0/12.5 *	4/12.5 *
Silvassa				20	20	4/12.5 *	0/12.5 *
Tamil Nadu	4	8	8	30	23.43	4/25 *	4/12.5 *
Tripura	-	12.5		20	12.5	4/12.5 *	4/12.5 *
Uttar Pradesh	4	20	10	26	21	10+1 *	4/12.5 *
Uttaranchal	4	12.5	10	25	21	12.5/12.5 *	4/12.5 *
West Bengal	4			25	17	4/12.5 *	4/12.5 *

WML-Within municipal limits, OML- Outside Municipal Limits. *: Household / Others.

Note: Above tax excludes other taxes payable / recoverable as on 1.4.2008.

Source: Public Sector Undertakings.

X.5 SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS IN DIFFERENT STATES AS ON 1.4.2008

(Percentage)

STATE	FO	LDO	Lubes/ Greases	Naphtha	ATF Bonded/ Duty Paid	Asphalt/ Bitumen
	9	*10*	*11*	*12*	*13*	*14*
Andhra Pradesh	12.5	22.25	12.5	12.5	0/4	4
Arunachal Pradesh	12.5	12.5	12.5	12.5	20/20	4
Assam	12.5	15.5	12.5	12.5	0/22	22
Bihar	12.5	20	12.5	12.5	0/29	12.5
Chandigarh	12.5	12.5	NA	12.5	NA/20	4
Chhattisgarh	4	25	12.5	12.5	0/25	4
Delhi	20	12.5	20	20	0/20	4
Goa	12.5	20	12.5	20	0/20	4
Gujarat	4	12.5	15	16	38/30	4
Haryana	12.5	12	12.5	12.5	0/20	4
Himachal Pradesh	12.5	12.5	12.5	4	0/25	4
Jammu & Kashmir	4	20	12.5	12.5	0/20	4
Jharkhand	12.5	20	12.5	12.5	0/20	4
Karnataka	12.5	20	12.5	12.5	0/28	12.5
Kerala	12.5	41	4	12.5	0/25	4
Madhya Pradesh	12.5	12.5	12.5	12.5	0/28.75	4
Maharashtra	12.5	12.5	12.5/13	12.5	30/25	12.5
Manipur	12.5	12.5	12.5	12.5	20/20	4
Meghalaya	12.5	12.5	12.5	12.5	20/20	4
Mizoram	NA	NA	12.5	NA	NA	4
Nagaland	12	12	12	12	20/20	12
Orissa	12.5	20	12.5	12.5	0/20	4
Punjab	12.5	8.8	12.5	12.5	0/20	4
Pondicherry	12.5	12.5	12.5	12.5	12.5/12.5	1
Rajasthan	4	20	12.5	4	0/28	4
Sikkim	12.5	12.5	12.5	12.5	12.5/12.5	4
Silvassa	20	20	0	20	0/20	4
Tamil Nadu	4	25	12.5	12.5	0/29	4
Tripura	12.5	12.5	12.5	12.5	20/20	4
Uttar Pradesh	20	21	12.5	20	20/20	4
Uttaranchal	12.5	21	12.5	12.5	0/20	4
West Bengal	4	17	12.5	4	25/25	4

Note: Above tax excludes other taxes payable / recoverable as on 1.4.2008.

Source: Public Sector Undertakings.

X.6 SALES TAX PAYMENTS (INCLUSIVE OF MST AND CST) ON CRUDE OIL CONDENSATES, NATURAL GAS & PETROELUM PRODUCTS MADE BY THE OIL COMPANIES TO STATE/UT GOVERNMENTS DURING 2001-02 TO 2007-08

(Rs. In Lakhs)

State/UTs	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08*
1. CRUDE OIL	**53347**	**99341**	**87544**	**127009**	**118723**	**153548**	**165566**
Andhra Pradesh	4	0	2432	3553	8414	10029	10069
Arunachal Pradesh	60	70	0	157	0	0	0
Assam	10741	15604	15805	20636	8305	27982	31313
Gujrat	13607	21736	17456	23777	25379	21107	20711
Maharashtra	27925	60303	50292	76560	73538	91137	100321
Tamil Nadu	1009	1627	1556	2324	3085	3287	3149
Rajasthan	1	1	3	2	0	6	3
Tripura	0	0	0	0	2	0	0
2. NATURAL GAS	**85153**	**84391**	**91264**	**85363**	**107782**	**148490**	**145080**
Andhra Pradesh	9895	11689	12973	12652	11112	9764	9223
Assam	2595	2624	2856	2978	634	6724	7200
Delhi	0	0	0	0	0	473	305
Gujarat	44547	46746	43547	39672	51939	63427	64418
M.P	5824	3388	10278	6606	5971	10389	13409
Maharashtra	7977	7624	9358	9052	20864	19385	20438
Rajasthan	184	153	184	324	29	167	175
Tamil Nadu	744	1050	1501	1368	2473	4155	2242
Tripura	789	790	816	956	1168	1324	1326
U.P	12598	10327	9751	11755	13406	32678	26344
Pondicherry/Mane	0	0	0	0	186	4	0
3. POI PRODUCTS	**1870455**	**2790341**	**3106061**	**3687669**	**4366893**	**5006607**	**5678366**
Andhra Pradesh	151883	249820	278210	330193	402469	483043	561180
Assam	25714	31717	674	62738	46897	1813	60165
Arunachal Pradesh	426	532	40821	1021	1703	64637	1558
Bihar	45278	69118	69149	90838	103602	116750	138075
Chhattisgarh	16673	28668	35720	51348	66508	83265	95412
Delhi	67760	86496	90497	112201	140071	173517	184540
Goa	14999	20092	23693	25191	33751	37228	37141
Gujarat	237604	321224	316319	299185	363735	470104	468454
Harayana	63685	83300	95594	142989	152880	168371	220963
Himachal Pradesh	8031	9876	12964	17115	20814	32141	25379
Jammu & kashmir	9869	14996	17009	21289	28197	32604	35087
Jharkhand	19460	31959	41532	51156	59686	72903	79056
Karnataka	125237	164918	204290	241822	284734	331996	391975
Kerala	103372	149289	184629	189764	210643	202361	255933
Madhya Pradesh	65876	111293	127421	154948	178561	227388	247447
Maharashtra	278283	506197	524725	621340	764140	836560	921355
Manipur	1090	1625	1794	2032	2789	6826	2662
Meghyalya	1093	1848	1854	3057	6035	7056	6975
Mizoram	499	959	1181	1404	1759	2096	2140
Nagaland	1358	1401	1508	1852	2603	2768	2801
Orissa	27587	43654	52986	66308	83733	89277	118363
Pondicherry/Mane	478	592	533	577	465	9009	837
Punjab	64631	87190	100269	119400	136825	171618	175455
Rajasthan	88392	141074	164383	194296	228669	259122	299593
Sikkim	728	982	1102	1459	1765	16626	2919
Tamil Nadu	188827	267751	302447	371086	436399	457361	528230
Tripura	1981	2445	2841	3330	3851	4348	4634
Uttar Pradesh	167481	229656	252335	299959	367091	376231	476157
Uttaranchal	12284	16470	19816	25267	30609	51966	41018
West Bengal	77600	113225	137770	182277	200766	205028	277173
Union Territories							
Daman & Diu	50	67	63	93	18	4	#
Chandigarh	2221	1867	1918	2126	5016	12506	12776
Dadra & Nagar Haveli	5	40	14	8	109	84	727
Portblair	0	0	0	0	0	0	2186
Grand Total (1+2+3)	**2008955**	**2974073**	**3284869**	**3900041**	**4593398**	**5308645**	**5989012**

* Provisional # included in Dadra & Nagar Haveli

Source : Compiled on the basis of the receipts from the oil companies

XI. TRANSPORTATION

XI.1 TONNAGE OF INDIAN TANKERS FLEET 1975 TO 2008

(DWT in '000' Tonnes)

Year*	Coastal Oil Tanker						Offshore Supply Vessels		Specialised vessels for offshore		Overseas										Total oil tankers	
	Product Carriers		Crude Oil Carriers		Total						Ore oil bulk carriers		Crude oil carriers		Product carriers		LPG carriers		Total			
	No. of tankers	DWT	No. of tankers	DWT	No. of tankers	DWT	No. of tankers	DWT	No. of tankers	DWT	No. of tankers	DWT	No. of tankers	DWT	No. of tankers	DWT	No. of tankers	DWT	No. of tankers	DWT	No. of tankers	DWT
1975	N.A.	N.A.	N.A.	N.A.	9	138	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	31	2420.0	40	2558
1980	N.A.	N.A.	N.A.	N.A.	10	159	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	38	3335.3	48	3494
1985	N.A.	N.A.	N.A.	N.A.	18	306	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	48	3807.0	66	4113
1990	13	185.6	2	82.2	15	267.8	57	69.7	30	70.5	9	990.5	22	2121.2	25	601.9	0	0.0	56	3713.2	158	4121.2
1991	14	186.1	2	82.2	16	268.3	63	75.9	31	70.7	9	990.5	23	2206.4	25	601.5	1	17.0	58	3815.4	168	4230.3
1992	15	217.0	2	82.2	17	299.2	63	75.9	32	70.8	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	3	312.0	25	2441.0	34	1065.6	2	34.7	64	3853.3	177	4227.2
1994	11	144.9	2	82.2	13	227.1	73	91.9	27	61.2	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	91.9	27	62.8	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	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	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	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	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	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	4	355.1	34	3455.7	45	1656.5	6	138.1	89	5605.4	197	5915.4
2002	12	90.1	2	82.2	14	172.3	70	85.6	28	59.2	3	231.6	34	3474.3	45	1642.3	6	138.1	88	5486.3	200	5803.4
2003	12	61.0	2	82.2	14	143.2	73	95.8	31	53.2	2	169.3	36	3592.1	40	1493.0	7	162.6	85	5417.0	203	5709.2
2004	12	61.0	2	82.2	14	143.2	76	99.1	32	54.1	2	169.3	46	4744.4	45	1998.0	8	183.2	101	7094.9	223	7391.3
2005	11	54.9	2	82.2	13	137.1	80	99.7	32	54.1	2	169.3	49	5735.4	47	2471.9	11	250.7	109	8627.3	234	8918.2
2006	9	40.5	2	82.2	11	122.7	83	100.2	35	47.4	2	169.3	47	5379.9	52	2985.5	14	341.9	115	8876.6	244	9146.9
2007	10	42.6	2	82.2	12	124.8	89	105.8	35	47.4	2	169.3	54	5730.9	47	2684.8	15	385.5	118	8970.5	254	9248.5
2008	12	44.7	2	82.2	14	126.9	96	118.4	36	47.4	2	169.3	53	5273.8	48	2940.3	16	442.3	119	8825.7	265	9118.4

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

**: As on 30th June.

DWT: Dead Weight Tonnage.

Source: Directorate General of Shipping, Mumbai.

N.A.: Not Available.

XI.2 INDIAN TONNAGE AS ON 31.3.2008

(Tonnes)

	Owner of the ship	Gross Registered Tonnage	Dead Weight Tonnage
	COASTAL TRADE		
	Tankers (Product Carriers)		
1	Associated Maritime Pvt. Ltd.	1090	2052
2	Atlantic Shipping Pvt. Ltd.	2814	3617
3	Essar Shipping Ltd.	4412	6618
4	Blue Ocean Sea Transport Ltd.	965	1546
5	Castle Ships Pvt. Ltd.	1332	2127
6	Coast Line Services (India) (P) Ltd.	493	872
7	Jaisu Shipping (P) Ltd.	1873	2808
8	Reliance Industries Ltd.	14960	23497
9	Vamsee Shipping Carrier Pvt. Ltd.	496	1179
10	Viking Lighterage & Cargo Handlers P. Ltd.	306	415
	Total	**28741**	**44731**
	Tankers (Crude Oil Carriers)		
1	The Shipping Corporation of India Ltd.	50080	82246
	Total	**50080**	**82246**
	Offshore Supply Vessels		
1	Admn. of UT of Lakshadweep	738	960
2	ARC Marine Pvt. Ltd.	157	66
3	Chandra Ship Management Pvt. Ltd.	285	0
4	Damodar Marine Services Pvt. Ltd.	487	737
5	Dolphin Offshore	1371	763
6	Dredging International India P. Ltd.	92	0
7	ELCOME Surveys Pvt. Ltd.	275	290
8	EPSOM Shipping (I) Pvt. Ltd.	1791	1451
9	GAL Offshore Shipping	640	0
10	Garware Offshore	3468	4240
11	Great Offshore Ltd.	14779	18710
12	Greatship (India) Ltd.	1596	2416
13	HAL Offshore Ltd.	1358	1046
14	Hede Ferominas (P) Ltd.	1332	1686
15	ITT Lines Pvt. Ltd.	1042	1207
16	Jayesh Shipping P.Ltd.	69	0
17	Hind Offshore Pvt. Ltd.	817	677
18	Kei-rsos Maritime Ltd.	1329	1031
19	Maju Marine Services	322	500
20	Oil and Natural Gas Commission	37065	46428
21	Prince Marine Transport Services	639	627
22	Raj Shipping Agencies Ltd.	1820	1746
23	Synergy Offshore Services	189	125
24	Samson Maritime Ltd.	3444	3000
25	Tag Sealogistics Ltd.	3939	4952
26	Shipping Corporation of India Ltd.	13100	17912
27	Tidewater (India) Pvt. Ltd.	1397	3250
28	Varun Shipping Co. Ltd.	4633	4587
	Total	**98174**	**118407**
	Specialised Vessels for Offshore Services		
1	Elcome Surveys	392	469
2	Hind Offshore Pvt. Ltd.	969	0

Cont'd...

XI.2 INDIAN TONNAGE AS ON 31.3.2008

(Tonnes)

	Owner of the ship	Gross Registered Tonnage	Dead Weight Tonnage
3	Jaisu Shipping Co.(P) Ltd.	99	99
4	Jayesh Shipping Pvt. Ltd., Mumbai	491	407
5	National Institute of Ocean Technology	4862	0
6	Oil and Natural Gas Commission	47426	27949
7	Procyon Offshore Services Pvt. Ltd.	405	436
8	Raj Shipping Agencies Ltd.	715	915
9	Reliance Industries Ltd.	1206	820
10	Samson Maritime	1674	1810
11	Sealion Sparkle Maritime Services Ltd.	136	14
12	South East Asia Marine Engg. & Construction Ltd.	11211	6135
13	South India Corpn. (Agencies) Ltd.	490	826
14	The Council of Scientific & Industrial Research	2661	800
15	The Department of Ocean Development	4582	1605
16	The Director General of Lighthouses & Lightships	5823	3083
17	The Geological Survey of India	2942	2005
	Total	**86084**	**47373**
	OVERSEAS		
	Ore Oil Bulk Carriers		
1	The Shipping Corporation of India Ltd.	94955	169257
	Total	**94955**	**169257**
	Oil Tankers (Crude Carriers)		
1	Chambal Fertilisers & Chemicals	113426	200750
2	Essar Shipping Ltd.	228992	436366
3	Great Eastern Shipping Co.Ltd.	519717	934875
4	Mercator Lines Ltd.	211592	389872
5	Pratibha Shipping Co. Ltd.	126088	209658
6	Peninsular Tankers Pvt. Ltd., Mumbai	8228	15037
7	Seven Islands Shipping Ltd.	8918	14465
8	The Shipping Corporation of India Ltd.	1521663	2753057
9	Varun Shipping Co. Ltd.	171506	319682
	Total	**2910130**	**5273762**
	Oil Tankers (Product Carriers)		
1	ASM Shipping	18101	30990
2	Great Eastern Shipping Co.Ltd.	701703	1219689
3	Mercator Lines	474577	845578
4	Pratibha Shipping Ltd.	16949	29810
5	Sanmar Shipping Ltd.	59867	106610
6	Seven Islands Shipping	4509	6756
7	Shipping Corpn. Of India Ltd.	389148	683647
8	Varun Shipping Co. Ltd.	4473	7314
9	West Asia Maritime Ltd.	6742	9928
	Total	**1676069**	**2940322**
	LPG Carriers		
1	Great Eastern Shipping Co. Ltd.	39086	45977
2	Shipping Corpn. Of India Ltd.	35556	35202
3	Varun Shipping Co.Ltd.	280525	361149
	Total	**355167**	**442328**

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	22.2
	1979-80	8.56	4.58	53.5
	1989-90	14.45	6.44	44.6
	1999-00	31.03	16.47	53.1
	2000-01	30.00	14.24	47.5
	2001-02	30.40	14.00	46.0
	2002-03	35.80	16.47	46.0
	2003-04	41.26	20.24	49.0
	2004-05	46.21	22.01	47.6
	2005-06	53.14	22.62	42.6
	2006-07	55.05	23.24	42.2
	2007-08*	57.28	22.36	39.0
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
	1999-00	30.41	16.79	55.2
	2000-01	27.06	15.64	57.8
	2001-02	26.43	15.71	59.4
	2002-03	26.80	16.03	59.8
	2003-04	30.00	18.58	61.9
	2004-05	35.19	19.40	55.1
	2005-06	44.19	27.78	62.9
	2006-07	52.36	32.17	61.4
	2007-08*	57.04	37.07	65.0
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
	1999-00	37.44	10.05	26.8
	2000-01	41.22	8.90	21.6
	2001-02	36.12	8.37	23.2
	2002-03	33.69	8.92	26.5
	2003-04	36.71	9.20	25.1
	2004-05	43.81	11.42	26.1
	2005-06	47.25	13.11	27.7
	2006-07	53.41	12.99	24.3
	2007-08*	57.15	12.79	22.4
Kochi	1969-70	4.79	3.56	74.3
	1979-80	5.47	3.87	70.7
	1989-90	7.13	5.59	78.4
	1999-00	12.80	9.95	77.7
	2000-01	13.12	9.67	73.7
	2001-02	12.06	8.59	71.2
	2002-03	13.00	9.37	72.1
	2003-04	13.57	9.96	73.4
	2004-05	14.10	10.28	72.9
	2005-06	13.89	9.64	69.4
	2006-07	15.26	10.48	68.7
	2007-08*	15.81	11.30	71.5

*: Provisional

Cont'd...

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
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
	1999-00	46.30	34.61	74.8
	2000-01	36.74	25.09	68.3
	2001-02	37.73	22.71	60.2
	2002-03	40.63	23.01	56.6
	2003-04	41.52	23.63	56.9
	2004-05	41.55	22.12	53.2
	2005-06	45.91	24.29	52.9
	2006-07	52.98	29.71	56.1
	2007-08*	64.89	38.18	58.8
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
	1999-00	39.51	15.29	38.7
	2000-01	44.69	18.34	41.0
	2001-02	44.34	18.58	41.9
	2002-03	46.01	16.91	36.8
	2003-04	47.74	17.43	36.5
	2004-05	50.15	14.63	29.2
	2005-06	55.80	16.94	30.4
	2006-07	56.39	18.18	32.2
	2007-08*	64.60	19.81	30.7
Mormugao	1969-70	9.03	0.15	1.7
	1979-80	14.80	0.73	4.9
	1989-90	14.17	1.04	7.3
	1999-00	18.23	1.14	6.3
	2000-01	19.63	1.09	5.6
	2001-02	22.93	1.15	5.0
	2002-03	23.65	1.13	4.8
	2003-04	27.87	1.32	4.7
	2004-05	30.66	1.01	3.3
	2005-06	31.69	0.83	2.6
	2006-07	34.24	0.79	2.3
	2007-08*	35.13	0.87	2.5
J.N.P.T.	1989-90	0.70	0.00	0.0
	1999-00	14.98	1.41	9.4
	2000-01	18.58	1.81	9.7
	2001-02	22.52	1.75	7.8
	2002-03	26.84	1.89	7.0
	2003-04	31.19	1.94	6.2
	2004-05	32.81	2.46	7.5
	2005-06	37.84	2.55	6.7
	2006-07	44.82	2.63	5.9
	2007-08*	55.77	2.24	4.0

*: Provisional

Cont'd...

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
Paradip	1969-70	1.75	0.00	0.0
	1979-80	2.31	0.00	0.0
	1989-90	6.18	0.00	0.0
	1999-00	13.64	2.22	16.3
	2002-03	23.90	1.92	8.0
	2003-04	25.31	1.36	5.4
	2004-05	30.10	0.84	2.8
	2005-06	33.11	0.91	2.7
	2006-07	38.52	1.38	3.6
	2007-08*	42.44	1.75	4.1
Port of Tuticorin	1977-78	0.63	0.35	55.6
	1979-80	2.41	0.44	18.3
	1989-90	5.32	0.48	9.0
	1999-00	9.99	0.46	4.6
	2002-03	13.29	0.49	3.7
	2003-04	13.68	0.56	4.1
	2004-05	15.81	0.74	4.7
	2005-06	17.14	0.77	4.5
	2006-07	18.00	0.74	4.1
	2007-08*	21.48	0.46	2.1
New Mangalore	1977-78	0.38	0.20	52.6
	1979-80	0.90	0.21	23.3
	1989-90	7.66	0.58	7.6
	1999-00	17.60	8.32	47.3
	2002-03	21.43	13.45	62.8
	2003-04	26.67	17.95	67.3
	2004-05	33.89	21.43	63.2
	2005-06	34.45	22.39	65.0
	2006-07	32.04	21.87	68.3
	2007-08*	36.02	21.78	60.5
Ennore	2002-03	8.49	0.00	0.0
	2003-04	9.28	0.00	0.0
	2004-05	9.48	0.10	1.1
	2005-06	9.17	0.24	2.6
	2006-07	10.71	0.19	1.8
	2007-08*	11.56	0.32	2.8
GRAND TOTAL	1969-70	54.35	19.02	35.0
	1979-80	78.49	28.78	36.7
	1989-90	148.14	63.60	42.9
	1999-00	271.92	116.71	42.9
	2002-03	313.53	109.59	35.0
	2003-04	344.80	122.16	35.4
	2004-05	383.75	126.44	32.9
	2005-06	423.57	142.09	33.5
	2006-07	463.78	154.34	33.3
	2007-08*	519.16	168.94	32.5

Source : Ministry of Shipping.

*: Provisional

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

Year	Tonnes Originating ('000' Tonnes)	Earnings ('000' Rs.)	Average Lead (Kms)	Earnings (Paise/ Tonnes/ Kms)	Average Freight Col 3 / 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
1995-96	28909	19993460	667	103.7	691.60
1997-98	30727	25212161	640	128.2	820.52
1998-99	32993	25740998	616	126.7	780.20
1999-00	34260	24733162	544	132.7	721.93
2000-01	36180	26632553	549	134.1	736.11
2001-02	35615	27456426	555	138.9	770.92
2002-03	34051	27546070	564	143.4	808.97
2003-04	32020	24283000	569	133.3	758.37
2004-05	31997	26825426	657	127.6	838.37
2005-06	33454	30693555	726	126.4	917.49
2006-07	35270	30036900	673	126.5	851.63
2007-08	36430	30442900	646	129.5	835.65

XI.5 RAIL FREIGHT RATES IN RESPECT OF PETROLEUM PRODUCTS

(Rs./Tonne)

Effective Dates	Distance in Kilometres							
	100	300	500	800	1000	1500	2000	2500
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
DANGEROUS (POL PRODUCTS)								
01.04.1990	106.1	256.1	411.2	567.2	805.3	1151.4	1414.1	1617.4
01.04.1995	151.8	371.3	620.0	994.4	1244.8	1802.3	2236.5	2558.2
01.08.1996	167.0	408.4	682.0	1093.8	1369.3	1982.5	2460.2	2814.0
01.04.1997	187.0	457.4	763.8	1225.1	1533.6	2220.4	2755.4	3151.7
01.04.1999	194.5	475.7	794.5	1274.1	1594.9	2309.2	2865.6	3277.8
01.04.2000	216.4	531.4	887.7	1425.2	1785.2	2584.7	3207.8	3669.2
01.04.2001	222.9	547.3	914.3	1468.0	1838.8	2662.2	3304.0	3779.3
01.04.2002	250.2	580.2	910.2	1405.2	1735.2	2560.2	3175.2	3625.2
NON-DANGEROUS (POL PRODUCTS)								
01.04.1990	93.3	223.3	357.9	571.3	699.5	999.6	1227.1	1403.4
01.04.1995	142.7	347.5	580.0	929.3	1162.7	1683.3	2088.7	2388.8
01.08.1996	157.0	382.3	638.0	1022.2	1279.0	1851.6	2227.6	2827.7
01.04.1997	175.8	428.2	714.6	1144.9	1432.5	2073.8	2573.3	2943.0
01.04.1999	182.8	445.3	714.3	1190.7	1489.8	2156.8	2676.2	3060.7
01.04.2000	186.5	454.2	758.1	1214.5	1519.6	2199.9	2729.7	3121.9
01.04.2001	192.1	467.8	780.8	1250.9	1565.2	2265.9	2811.6	3215.6
01.04.2002	216.8	502.8	788.8	1217.8	1503.8	2218.8	2751.8	3141.8
DANGEROUS AND NON-DANGEROUS (POL PRODUCTS)								
01.04.2003	200.2	464.2	728.2	1124.2	1388.2	2048.2	2540.2	2900.2
01.04.2004	200.2	464.2	728.2	1124.2	1388.2	2048.2	2540.2	2900.2
01.04.2005	200.2	464.2	728.2	1124.2	1388.2	2048.2	2540.2	2900.2
01.04.2006	183.5	425.5	667.5	1030.5	1272.5	1877.5	2328.5	2658.5
01.07.2006	175.1	413.1	647.2	1007.6	1243.0	1835.0	2302.4	2615.8
01.04.2007	175.1	413.1	647.2	1007.6	1243.0	1835.0	2302.4	2615.8
01.04.2008	166.8	393.4	616.4	959.6	1183.8	1747.6	2192.8	2491.2

NOTE : Dangerous POL - include Benzene and other dangerous mineral oils. Non-Dangerous POL includes HSDO 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							
	2001	2002	2003	2004	2005	2006	2007	2008
CRUDE PIPELINES (ONSHORE)								
ONGC	975	1181	1708	2232	2507	2881	3239	3588
OIL	1538	1538	1538	1538	1418	1418	1418	1418
IOC	2203	2640	2788	2788	2788	2788	3962	3962
HPCL	11	11	11	11	13	13	11	11
Pvt. / JVC	12	16	16	17	19	19	21	47
SUBTOTAL	**4739**	**5386**	**6061**	**6586**	**6745**	**7119**	**8651**	**9026**
CRUDE PIPELINES (OFFSHORE)								
ONGC	731	731	798	821	865	1159	1253	1272
IOC	25	25	25	25	25	25	25	25
Pvt. / JVC	142	142	174	179	179	179	200	200
SUBTOTAL	**898**	**898**	**997**	**1025**	**1069**	**1363**	**1478**	**1497**
GAS PIPELINES (ONSHORE)								
ONGC	687	759	929	1079	1249	1452	1658	1845
GAIL	4032	4436	4564	5167	5471	5599	6196	7001
BPCL	2	2	2	2	2	26	26	26
Pvt. / JVC	5	5	19	30	35	35	35	41
SUBTOTAL	**4726**	**5202**	**5514**	**6278**	**6757**	**7112**	**7915**	**8913**
GAS PIPELINES (OFFSHORE)								
ONGC	660	660	671	671	676	942	1022	1232
Pvt. / JVC	115	115	115	123	123	132	137	259
SUBTOTAL	**775**	**775**	**786**	**794**	**799**	**1074**	**1159**	**1491**
PRODUCT PIPELINES (ONSHORE)								
IOC(AOD)	75	75	75	75	75	75	75	75
IOC	4061	4186	4687	4842	4842	6063	5211	5211
BPCL	553	576	613	971	971	971	1745	1745
HPCL	509	732	732	732	732	732	2130	2130
ONGC	14	14	14	14	104	211	369	579
GAIL	1233	1233	1233	1495	1927	1927	1927	1927
Petronet India Limited	100	392	753	753	753	753	753	753
SUBTOTAL	**6445**	**6816**	**7354**	**8129**	**8651**	**9979**	**11457**	**11667**
PRODUCT PIPELINES (OFFSHORE)								
BPCL	3	3	3	3	3	3	3	3
ONGC	48	48	48	48	58	77	110	131
SUBTOTAL	**51**	**51**	**51**	**51**	**61**	**80**	**113**	**134**
GRAND TOTAL	**17634**	**19128**	**20763**	**22863**	**24082**	**26727**	**30773**	**32728**

XII. MARKETING NETWORK

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

(Number)

Year	Retail Outlets	B/Shell BPCL	ESSO/ HPCL	CALTEX/ HPCL(VMU)	IOC	AOC/ AOD	IBP	TOTAL
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
1970	Nos.	3577	1922	1392	2655	129	233	9908
	%	36.1	19.4	14.0	26.8	1.3	2.4	100.0
1975	Nos.	3173	1867	1206	3546	163	525	10480
	%	30.3	17.8	11.5	33.8	1.6	5	100.0
1980	Nos.	3296	3198	@	4231	173	975	11873
	%	27.8	26.9		35.6	1.5	8.2	100
1985	Nos.	3442	3451		4707	202	1062	12864
	%	26.7	26.8		36.6	1.6	8.3	100
1990	Nos.	3847	3829		5452	268	1228	14264
	%	26.3	26.2		37.3	1.8	8.4	100
1993	Nos.	4016	3968		5605	283	1294	15166
	%	26.5	26.2		37	1.8	8.5	100
1994	Nos.	4045	4009		5637	283	1315	15289
	%	26.5	26.2		36.9	1.8	8.6	100
1995	Nos.	4146	4094		5889	283	1364	15776
	%	26.3	26		37.3	1.8	8.6	100
1996	Nos.	4240	4199		6140	291	1403	16273
	%	26.1	25.8		37.7	1.8	8.6	100
1997	Nos.	4332	4279		6375	303	1426	16715
	%	25.9	25.6		38.1	1.8	8.5	100.0
1998	Nos.	4383	4315		6444	311	1440	16893
	%	25.9	25.5		38.1	1.8	8.5	100.0
1999	Nos.	4410	4345		6532	311	1442	17040
	%	25.9	25.5		38.3	1.8	8.5	100.0
2000	Nos.	4449	4480		6770	312	1461	17472
	%	25.5	25.6		38.7	1.8	8.4	100.0
2001	Nos.	4555	4536		7134	315	1475	18015
	%	25.3	25.2		39.6	1.7	8.2	100.0
2002	Nos.	4610	4642		7433	318	1551	18554
	%	24.8	25.0		40.1	1.7	8.4	100.0
2003	Nos.	4772	4799		7635	323	1808	19337
	%	24.7	24.8		39.5	1.7	9.3	100.0
2004	Nos.	5274	5204		8762	326	2524	22090
	%	23.9	23.6		39.7	1.5	11.4	100.0
2005	Nos.	6016	6295		9882	#	3114	25307
	%	23.8	24.9		39.0		12.3	100.0
2006	Nos.	7321	7026		11149	#	3412	28908
	%	25.3	24.3		38.6		11.8	100.0
2007$	Nos.	7800	7909		12841	#	3590	32140
	%	24.3	24.6		40.0		11.2	100.0
2008$	Nos.	8238	8329		17627	#	*	34194
	%	24.1	24.4		51.5			100.0

% : Percentage $: As on 1st April. The data excludes consumers outlets

#: Included in IOC. Source: PSUs. @ : Merged with HPCL in 1980.

*: IBP Co. Ltd has been merged with IOCL with effect from 02.05.2007.

XII.2 STATE-WISE NUMBER OF RETAIL OUTLETS, LDO/SKO DEALERS AND LPG DISTRIBUTORS AS ON 1.4.2008

(Number)

State / UT	Retail Outlets	LDO/SKO Dealers	LPG Distri-butors
1	2	3	4
STATES			
Andhra Pradesh	2850	605	877
Arunachal Pradesh	47	33	30
Assam	523	361	251
Bihar	1401	373	309
Chhattisgarh	498	109	153
Delhi	402	116	316
Goa	91	21	53
Gujarat	1751	497	542
Haryana	1459	148	277
Himachal Pradesh	273	26	119
Jammu & Kashmir	364	47	152
Jharkhand	649	86	142
Karnataka	2156	325	488
Kerala	1608	244	374
Madhya Pradesh	1595	281	568
Maharashtra	3091	775	996
Manipur	55	36	31
Meghalaya	116	35	32
Mizoram	21	19	25
Nagaland	46	19	27
Orissa	911	179	185
Punjab	2613	244	420
Rajasthan	2286	253	429
Sikkim	28	12	8
Tamil Nadu	2904	465	660
Tripura	38	40	29
Uttar Pradesh	4178	699	1177
Uttarakhand	362	72	168
West Bengal	1700	476	473
UNION TERRITORIES			
Andaman & Nicobar	6	1	4
Chandigarh	43	12	28
Dadra & Nagar Haveli	11	2	1
Daman & Diu	15	5	2
Lakshadweep	0	0	1
Puducherry	103	8	18
Grand Total	**34194**	**6624**	**9365**

Source: Public Sector Undertakings.

XII.3 STATE-WISE AND COMPANY-WISE RETAIL OUTLETS AS ON 1.4.2008

(Number)

State / UT	IOCL/ AOD/IBP*	HPCL	BPCL	TOTAL
1	2	3	4	5
STATES				
Andhra Pradesh	1391	753	706	2850
Arunachal Pradesh	46	0	1	47
Assam	440	61	22	523
Bihar	854	252	295	1401
Chhattisgarh	213	137	148	498
Delhi	201	96	105	402
Goa	21	31	39	91
Gujarat	914	404	433	1751
Haryana	868	337	254	1459
Himachal Pradesh	158	63	52	273
Jammu & Kashmir	175	99	90	364
Jharkhand	338	163	148	649
Karnataka	1113	524	519	2156
Kerala	761	466	381	1608
Madhya Pradesh	753	370	472	1595
Maharashtra	1194	887	1010	3091
Manipur	53	0	2	55
Meghalaya	94	16	6	116
Mizoram	19	2	0	21
Nagaland	41	2	3	46
Orissa	490	183	238	911
Punjab	1436	633	544	2613
Rajasthan	1086	654	546	2286
Sikkim	14	3	11	28
Tamil Nadu	1386	739	779	2904
Tripura	38	0	0	38
Uttar Pradesh	2346	916	916	4178
Uttarakhand	188	96	78	362
West Bengal	903	389	408	1700
UNION TERRITORIES				
Andaman & Nicobar	6	0	0	6
Chandigarh	22	11	10	43
Dadra & Nagar Haveli	7	3	1	11
Daman & Diu	9	3	3	15
Lakshadweep	0	0	0	0
Puducherry	49	36	18	103
Grand Total	**17627**	**8329**	**8238**	**34194**

*: IBP Co. Ltd has been merged with IOCL with effect from 02.05.2007.

Source: Public Sector Undertakings.

XII.4 STATE-WISE AND COMPANY-WISE LPG DOMESTIC CONSUMERS AS ON 1.4.2008

('000' Number)

State / UT	IOCL/ AOD/IBP*	HPCL	BPCL	TOTAL
1	*2*	*3*	*4*	*5*
STATES				
Andhra Pradesh	4090	4631	2290	11010
Arunachal Pradesh	123	0	0	123
Assam	1834	28	61	1923
Bihar	1688	350	370	2409
Chhattisgarh	558	347	169	1074
Delhi	2656	574	908	4138
Goa	9	256	146	411
Gujarat	2980	1126	1217	5322
Haryana	1621	616	1053	3290
Himachal Pradesh	1039	148	71	1258
Jammu & Kashmir	390	867	143	1401
Jharkhand	812	177	129	1118
Karnataka	2375	1894	1361	5630
Kerala	3021	784	1584	5390
Madhya Pradesh	2194	1152	840	4186
Maharashtra	1519	5644	6008	13171
Manipur	218	0	0	218
Meghalaya	109	0	0	109
Mizoram	188	0	0	188
Nagaland	140	0	0	140
Orissa	558	644	276	1478
Punjab	2663	922	1097	4682
Rajasthan	1791	1090	1250	4131
Sikkim	114	0	0	114
Tamil Nadu	6183	1218	2595	9996
Tripura	256	0	0	256
Uttar Pradesh	6202	1437	2687	10326
Uttarakhand	1247	82	183	1512
West Bengal	3447	1045	704	5196
UNION TERRITORIES				
Andaman & Nicobar	53	0	0	53
Chandigarh	206	68	46	320
Dadra & Nagar Haveli	0	34	0	34
Daman & Diu	0	28	16	44
Lakshadweep	3	0	0	3
Puducherry	115	90	47	252
GRAND TOTAL	**50397**	**25252**	**25252**	**100902**

*: IBP Co. Ltd has been merged with IOCL with effect from 02.05.2007.

Source: Public Sector Undertakings.

XII.5 CNG ACTIVITIES IN INDIA AS ON 1.4.2008

Item	Delhi	Maharashtra	Gujarat			Uttar Pradesh			Andhra Pradesh		Tripura		Grand
	Delhi	Maharashtra	Vado-dara	Surat	Ankle-shwar	Lucknow	Agra	Kanpur	Vijaywada	Hyderabad	Agartala	Total	Total
	IGL	MGL	GAIL	GGCL	GGCL	GAIL GGL	GAIL GGL	GAIL CUGL	GAIL BGL	GAIL BGL	GAIL TNGCL		
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13(4-12)*	*14*
Station Type													
Mother	70	4	1	1	0	1	1	1	1	0	1	2	76
Online	46	113	1	21	3	0	0	4	0	0	0	25	184
Daughter Booster	45	13	1	1	0	3	2	0	5	2	0	2	60
Daughter	2	0	0	0	0	0	0	0	0	1	0	0	2
Total	**163**	**130**	**3**	**23**	**3**	**4**	**3**	**5**	**6**	**3**	**1**	**29**	**322**
No. of Vehicles													
Cars	130149 $	53706	850	22065	2724	130	135	95	324	244	0	26567	210422
Autos	80276	128596	3000	36212	4427	6695	5377	2730	1188	1505	314	61448	270320
LCV/RTVs	5507	1695	0	0	0	116	25	72	0	0	21	234	7436
Buses	11665	945	50	462	35	136	201	344	103	8	0	1339	13949
Others/Phatphat	360	976	0	1177	80	0	0	4494	8	16	0	5775	7111
Total	**227957**	**185918**	**3900**	**59916**	**7266**	**7077**	**5738**	**7735**	**1623**	**1773**	**335**	95363	**509238**
Price (Rs./Kg)	18.90	21.70/22.14/21.82/22.23 #	24.24/23.28 &/@	24.95	**24.95**	27.00	28.00	27.00	23.17	33.00	22.15		
Average Consumption													
TPD	1055.25	736.32	22.63	124.5	16.8	30.64	23.9	34.1	10.04	5.76	1.075		
MMSCMD	1.386	1.05	0.029	0.18	0.02	0.044	0.032	0.001	0.013	0.008	0.001		

MMSCMD: Million Standard Cubic Metres Per Day TPD : Tonnes per day $: Includes taxies.

&: Price at Daughter Booster Station /OLS and @: Mother Station respectively. #: Mumbai/Thane/Mira Bhayander/Navi Mumbai.

Note: GAIL is carrying CNG activities in Vadodara. GAIL has formed eight Joint Venture Companies(JVCs) till date to implement City Gas projects in various cities of the country. Out of eight JVCs, six are operational at the moment. Apart from IGL & MGL, GAIL's other Joint Venture Companies such as BGL(A.P.), GGL (Lucknow, Agra & Western U.P., CUGL(Kanpur, Bareilly & Eastern U.P.) & TNGCL(Agartala inTripura) are also carrying out CNG activities in various cities.

Source:

1. IGL : Indraprastha Gas Ltd.
2. MGL : Mahanagar Gas Ltd.
3. GGCL : Gujarat Gas Company Ltd.
4. GAIL : GAIL (India) Ltd.
5. BGL : Bhagyanagar Gas Limited Vijaywada
6. GGL : Green Gas Limited
   Hyderabad
7. CUGL : Central UP Gas Ltd. Kanpur
8. TNGCL : Tripura Natural Gas Co. Ltd.

Conversion factors:

	1 Kg = 1.42 SCM of gas
Vadodara	1 Kg = 1.32 SCM of gas
Lucknow	1 Kg = 1.44 SCM of gas
Agra	1 Kg = 1.35 SCM of gas
Agartala	1 Kg = 1.35 SCM of gas
1 Kg = 1.313 SCM of gas	
1 Kg = 1.45 SCM of gas	
1 Kg = 1.28 SCM of gas	
1 Kg = 1.28 SCM of gas	
1 Kg = 1.44 SCM of gas	

XII.6 SUPPLY PLAN OF GREEN FUELS IN INDIA

Product	Effective Date	Areas Covered
1	2	3
MS (Euro-II	1st April 2005	11 cities (Delhi/NCR, Mumbai, Kolkata, Chennai, Bangalore, Hyderabad, Ahmedabad, Pune, Surat, Kanpur & Agra)
	1st June 2005	Lucknow & Solapur
HSD(Euro-	1st April 2005	11 cities (Delhi/NCR, Mumbai, Kolkata, Chennai, Bangalore, Hyderabad, Ahmedabad, Pune, Surat, Kanpur & Agra)
	1st June 2005	Lucknow & Solapur
MS(BS-II)	1st April 2005	All over India, excluding 11 cities mentioned above.
HSD (BS-II	1st April 2005	In all States of India excluding Rajastan, West U.P., Uttranchal, M.P., Punjab, H.P. J&K and UT of Chandigarh.
HSD (BS-II	1st June 2005	In the State of Rajasthan
HSD (BS-II	1st July 2005	In the States of West U.P. and Uttaranchal
HSD (BS-II	1st Sep. 2005	In the State of M.P.
HSD (BS-II	1st Sept, 2005	In the States of M.P., H.P.and UT of Chandigarh.
HSD (BS-II	1st Oct, 2005	In the States of Pubjab and J&K

Source: PPAC.

Note: The actual introduction of Euro-III and Bharat Stage-II fuel in the country was asper above schedule.

XIII. ENERGY

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

Year	Coal & Lignite			Hydro-Carbon			Power (Million Kwh)			
	Coal	Lignite	Total	Natural Gas (MCM)	Crude Oil	Petroleum Products @	Thermal	Hydel	Nuclear	Total
	(----------Million Tonnes----------)				(..... '000' Tonnes .....)					
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*
1960-61	55.23	N.A.	**55.23**	N.A.	448	6077	9100	7837	N.A.	**16937**
1965-66	67.73	2.57	**70.30**	507	3473	10081	19641	16734	N.A.	**36376**
1970-71	72.95	3.39	**76.34**	1445	6822	28162	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	25346	61301	46542	3001	**110844**
1985-86	154.20	8.05	**162.25**	8134	30168	42735	114119	50933	4985	**170037**
1986-87	165.77	9.43	**175.20**	9853	30480	45867	128820	53760	5020	**187600**
1987-88	179.72	11.16	**190.88**	11467	30357	47808	149464	47396	5034	**201894**
1988-89	194.60	12.40	**207.00**	13217	32040	49215	157510	57793	5822	**221125**
1989-90	200.89	12.80	**213.69**	16988	34087	52143	178522	61996	4623	**245141**
1990-91	211.73	13.77	**225.50**	17998	32160	52201	186452	71535	6244	**264231**
1991-92	229.28	14.55	**243.83**	18644	30345	52213	208551	72599	5561	**286711**
1992-93	238.26	16.62	**254.88**	18061	26950	54435	224485	69833	6748	**301066**
1993-94	246.04	18.10	**264.14**	18336	27026	55305	247618	70311	5394	**323323**
1994-95	253.80	19.34	**273.14**	19468	32239	57400	262900	82500	5600	**351000**
1995-96	270.13	22.14	**292.27**	22642	35170	58320	299600	72500	8000	**380100**
1996-97	285.66	22.54	**308.20**	23256	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	32722	68244	353800	82620	11890	**448310**
1999-00	299.97	22.12	**322.09**	28446	31949	84955	386226	80533	13252	**480011**
2000-01	309.63	22.95	**332.58**	29477	32426	102514	409289	74481	16928	**500698**
2001-02	327.79	24.81	**352.60**	29714	32032	107277	422000	73900	16300	**515200**
2002-03	341.27	26.02	**367.29**	31389	33044	111790	448526	63833	19235	**531594**
2003-04	361.17	27.96	**389.13**	31962	33373	121703	466757	73818	17725	**558300**
2004-05	382.61	30.34	**412.95**	31763	33981	127116	473317	97675	16408	**587400**
2005-06	407.04	30.06	**437.1**	32202	32190	128875	501372	98986	17142	**617500**
2006-07	430.85	31.13	**461.98**	31747	33988	146180	531505	112554	18461	**662520**
2007-08*	309.52	15.28	**324.8** $	32402	34118	156681	NA	NA	NA	**704470** #

*: Provisional $: April-Dec., 2008 @: Includes RBF #: bifurcation not available

Source : (i) Economic Survey (ii) Ministry of Coal, Petroleum & Natural Gas & Power(web site)

XIII.2 TRENDS IN COMMERCIAL ENERGY PRODUCTION

Energy From	Unit	Production							
		1950-51	1960-61	1970-71	1980-81	1990-91	2001-02*	2006-07**	2011-12
Coal	MMT	33.00	55.67	72.95	144.01	211.73	325.65	405.00	680.00
Lignite	"	-	0.05	3.39	4.80	13.77	24.30	55.96	55.59
Crude Oil	"	0.26	0.45	6.82	10.51	33.02	32.03	33.97	39.51
Natural Gas	BCM	-	-	1.44	2.35	18.00	29.69	37.62	46.63
Hydro Power	Bkwh	2.52	7.84	25.25	46.54	71.66	82.80	103.49	165.00
Nuclear Powe	"	-	-	2.42	3.00	6.14	16.92	19.30	44.64
Wind Power	"	-	-	-	-	0.03	1.70	4.00	7.00

*:Anticipated **: Projections for the terminal year of Tenth Plan.

Source: Eleventh Five Year Plan Document(Volume-III)

XIII.3 ENERGY DEMAND BY SOURCE &PERCENTAGE DEMAND MET FROM DOMESTIC SOURCES

a. Source-wise Energy Demand

(All in mtoe)

Sources	1960-61	1970-71	1980-81	1990-91	2000-01	2006-07	2011-12#
Coal	35.64	36.48	56.96	94.15	131.52	200.02	270
Lignite	0.01	0.81	1.23	3.58	6.43	8.72	13.0
Oil	8.29	19.14	32.26	57.75	106.97	132.8	186
Natural Gas	-	0.6	1.41	11.5	25.1	34.6	48.0
Hydro power	0.67	2.17	4	6.16	6.4	9.75	12
Nuclear power	-	0.63	0.78	1.6	4.41	4.86	17
Wind power	-	-	-	-	0.13	0.83	<1
Total	44.61	59.83	96.64	174.73	280.93	391.53	546

Note:# Projected requirement at the end of the Eleventh Plan as per the IEPC report

Source: Planning Commission, Eleventh Five Year Plan Document(Volume-III).

b. PERCENTAGE DEMAND MET FROM DOMESTIC SOURCES

Sources	1960-61	1970-71	1980-81	1990-91	2000-01	2006-07	2011-12#
Coal	100	100	99.7	97.8	96.1	90.33	93.02
Lignite	100	100	100	100	100	100	100
Oil	5.4	35.6	32.6	42.8	30.3	26.6	27.59
Natural Gas	-	100	100	100	100	82.08	69.3
Hydro power	100	100	100	99.93	99.96	99.74	95.94

Note:# Projection from various working Group Report.

Source: Planning Commission, Eleventh Five Year Plan Document(Volume-III).

PART-II

INTERNATIONAL PETROLEUM

STATISTICS

XIV.1 (a) WORLD PROVED RESERVES OF CRUDE OIL AT END 2007

Country/ Region	Thousand million tonnes	Thousand million barrels	% Share of total	R/P ratio
USA	3.6	29.4	2.4%	11.7
Canada	4.2	27.7	2.2%	22.9
Mexico	1.7	12.2	1.0%	9.6
Total North America	**9.5**	**69.3**	**5.6%**	**13.9**
Argentina	0.4	2.6	0.2%	10.2
Brazil	1.7	12.6	1.0%	18.9
Colombia	0.2	1.5	0.1%	7.4
Ecuador	0.6	4.3	0.3%	22.5
Peru	0.1	1.1	0.1%	26.4
Trinidad & Tobago	0.1	0.8	0.1%	14.1
Venezuela	12.5	87.0	7.0%	91.3
Other S. & Cent. America	0.2	1.3	0.1%	25.2
Total S. & Cent. America	**15.9**	**111.2**	**9.0%**	**45.9**
Azerbaijan	1.0	7.0	0.6%	22.1
Denmark	0.1	1.1	0.1%	9.8
Italy	0.1	0.8	0.1%	17.6
Kazakhstan	5.3	39.8	3.2%	73.2
Norway	1.0	8.2	0.7%	8.8
Romania	0.1	0.5	@	12.4
Russian Federation	10.9	79.4	6.4%	21.8
Turkmenistan	0.1	0.6	@	8.3
United Kingdom	0.5	3.6	0.3%	6.0
Uzbekistan	0.1	0.6	@	14.3
Other Europe & Eurasia	0.3	2.1	0.2%	12.8
Total Europe & Eurasia	**19.4**	**143.7**	**11.6%**	**22.1**
Iran	19.0	138.4	11.2%	86.2
Iraq	15.5	115.0	9.3%	*
Kuwait	14.0	101.5	8.2%	*
Oman	0.8	5.6	0.5%	21.3
Qatar	3.6	27.4	2.2%	62.8
Saudi Arabia	36.3	264.2	21%	69.5
Syria	0.3	2.5	0.2%	17.4
United Arab Emirates	13.0	97.8	7.9%	91.9
Yemen	0.4	2.8	0.2%	22.7
Other Middle East	^	0.1	@	10.9
Total Middle East	**102.9**	**752.3**	**61.0%**	**82.2**

Contd....

XIV.1 (a) WORLD PROVED RESERVES OF CRUDE OIL AT END 2007

	Thousand million tonnes	Thousand million barrels	% Share of total	R/P ratio
Algeria	1.5	12.3	1.0%	16.8
Angola	1.2	9.0	0.7%	14.4
Chad	0.1	0.9	0.1%	17.2
Rep. of Congo (Brazzaville)	0.3	1.9	0.2%	23.9
Egypt	0.5	4.1	0.3%	15.7
Equatorial Guinea	0.2	1.8	0.1%	13.2
Gabon	0.3	2.0	0.2%	23.8
Libya	5.4	41.5	3.3%	61.5
Nigeria	4.9	36.2	2.9%	42.1
Sudan	0.9	6.6	0.5%	39.7
Tunisia	0.1	0.6	@	16.7
Other Africa	0.1	0.6	0.1%	10.2
Total Africa	**15.6**	**117.5**	**9.5%**	**31.2**
Australia	0.4	4.2	0.3%	20.3
Brunei	0.2	1.2	0.1%	16.9
China	2.1	15.5	1.3%	11.3
India	0.7	5.5	0.4%	18.7
Indonesia	0.6	4.4	0.4%	12.4
Malaysia	0.7	5.4	0.4%	19.4
Thailand	0.1	0.5	@	4.1
Vietnam	0.5	3.4	0.3%	27.5
Other Asia Pacific	0.1	0.9	0.1%	11.0
Total Asia Pacific	**5.4**	**40.8**	**3.3%**	**14.2**
TOTAL WORLD	**168.6**	**1237.9**	**100.0%**	**41.6**
of which: European Union	0.9	6.8	0.5%	7.8
OECD	11.9	88.3	7.1%	12.6
OPEC	127.6	934.7	75.5%	72.7
Non-OPEC £	23.6	175.0	14.1%	14.3
Former Soviet Unic	17.4	128.1	10.4%	27.4
Canadian oil sands'#	**24.7**	**152.2**		
Proved reserves and oil sands	**193.4**	**1390.1**		

*: More than 100 years. ^: Less than 0.05 @: Less than 0.05%

£ : Excludes Former Soviet Union.

Notes: Proved reserves of oil - Generally taken to be those quantities that geological and engineering information indicates with reasonable certainty can be recovered in the future from known reservoirs under existing economic and operating conditions.

Reserves/Production (R/P) ratio - If the reserves remaining at the end of any year are divided by the production in that year, the result is the length of time that those remaining reserves would last if production were to continue at that rate.

#Remaining established reserves', less reserves 'under active development'.

Source: BP Sttistical Review of World Energy, 2008

XIV.1 (b) WORLD PROVED RESERVES OF NATURAL GAS AT END 2007

Country/ Region	Trillion cubic feet	Trillion cubic metres	% Share of total	R/P ratio
USA	211.08	5.98	3.4%	10.9
Canada	57.55	1.63	0.9%	8.9
Mexico	13.10	0.37	0.2%	8.0
Total North America	**281.65**	**7.98**	**4.5%**	**10.3**
Argentina	15.54	0.44	0.2%	9.8
Bolivia	26.13	0.74	0.4%	54.7
Brazil	12.89	0.36	0.2%	32.3
Colombia	4.41	0.13	0.1%	16.2
Peru	12.54	0.36	0.2%	*
Trinidad & Tobago	16.95	0.48	0.3%	12.3
Venezuela	181.87	5.15	2.9%	*
Other S. & Cent. America	2.51	0.07	*	21.0
Total S. & Cent. America	**272.84**	**7.73**	**4.4%**	**51.2**
Azerbaijan	45.13	1.28	0.7%	*
Denmark	4.10	0.12	0.1%	12.6
Germany	4.84	0.14	0.1%	9.6
Italy	3.14	0.09	0.1%	10.0
Kazakhstan	67.20	1.90	1.1%	69.8
Netherlands	44.07	1.25	0.7%	19.4
Norway	104.57	2.96	1.7%	33.0
Poland	3.99	0.11	0.1%	26.4
Romania	22.18	0.63	0.4%	54.4
Russian Federation	1576.75	44.65	25.2%	73.5
Turkmenistan	94.22	2.67	1.5%	39.6
Ukraine	36.24	1.03	0.6%	54.0
United Kingdom	14.55	0.41	0.2%	5.7
Uzbekistan	61.60	1.74	1.0%	29.8
Other Europe & Eurasia	15.31	0.43	0.2%	39.4
Total Europe & Eurasia	**2097.89**	**59.41**	**33.5%**	**55.2**
Bahrain	3.00	0.09	*	7.4
Iran	981.75	27.80	15.7%	*
Iraq	111.95	3.17	1.8%	*
Kuwait	63.00	1.78	1.0%	*
Oman	24.37	0.69	0.4%	28.6
Qatar	904.06	25.60	14.4%	*
Saudi Arabia	253.03	7.17	4.0%	94.4
Syria	10.17	0.29	0.2%	54.7
United Arab Emirates	215.07	6.09	3.4%	*
Yemen	17.23	0.49	0.3%	*
Other Middle East	1.73	0.05	*	18.5
Total Middle East	**2585.35**	**73.21**	**41.3%**	*

Contd...

XIV.1 (b) WORLD PROVED RESERVES OF NATURAL GAS AT END 2007

Country/ Region	Trillion cubic feet	Trillion cubic metres	% Share of total	R/P ratio
Algeria	159.45	4.52	2.5%	54.4
Egypt	72.85	2.06	1.1%	44.3
Libya	52.80	1.50	0.7%	98.4
Nigeria	186.99	5.30	2.9%	*
Other Africa	42.84	1.21	0.7%	*
Total Africa	**514.92**	**14.58**	**8.2%**	**76.6**
Australia	88.64	2.51	1.4%	62.8
Bangladesh	13.77	0.39	0.2%	24.0
Brunei	12.11	0.34	0.2%	28.0
China	66.54	1.88	1.1%	27.2
India	37.26	1.06	0.6%	35.0
Indonesia	105.94	3.00	1.7%	45.0
Malaysia	87.40	2.48	1.4%	40.9
Myanmar	21.19	0.60	0.3%	40.8
Pakistan	30.02	0.85	0.5%	27.6
Papua New Guinea	15.36	0.44	0.2%	*
Thailand	11.65	0.33	0.2%	12.7
Vietnam	7.77	0.22	0.1%	28.5
Other Asia Pacific	13.02	0.37	0.2%	21.9
Total Asia Pacific	**510.69**	**14.46**	**8.2%**	**36.9**
TOTAL WORLD	**6263.34**	**177.36**	**100.0%**	**60.3**
of which: European Union	100.26	2.84	1.6%	14.8
OECD	556.89	15.77	8.9%	14.4
Former Soviet Union	1890.24	53.53	30.2%	67.7

* : More than 100 years. ^ : Less than 0.1 • Less than 0.05%.

Notes: Proved reserves of oil - Generally taken to be those quantities that geological and engineering information indicates with reasonable certainty can be recovered in the future from known reservoirs under existing economic and operating conditions.

Reserves/Production (R/P) ratio - If the reserves remaining at the end of any year remaining reserves would last if production are divided by the productionin that year, the result is the length of time that those were to continue at that rate.

Source: BP Sttistical Review of World Energy, 2008

XIV.2 WORLD CRUDE OIL PRODUCTION DURING 2002-2007

(Million tonnes)

Country/ Region	2002	2003	2004	2005	2006	2007	Change 2007 over 2006	2007 share of total
USA	346.8	338.4	329.2	313.3	310.2	311.5	0.4%	8.0%
Canada	135.0	142.6	147.6	144.9	153.4	158.9	3.6%	4.1%
Mexico	178.4	188.8	190.7	187.1	183.1	173.0	-5.5%	4.4%
Total North America	**660.2**	**669.8**	**667.4**	**645.3**	**646.7**	**643.4**	**-0.5%**	**16.5%**
Argentina	40.9	40.2	37.8	36.2	35.8	34.9	-2.4%	0.9%
Brazil	74.4	77.0	76.5	84.6	89.2	90.4	1.4%	2.3%
Colombia	29.7	27.9	27.3	27.3	27.5	27.6	0.4%	0.7%
Ecuador	20.4	21.7	27.3	27.6	27.7	26.5	-4.3%	0.7%
Peru	4.8	4.5	4.4	5.0	5.1	5.1	-0.6%	0.1%
Trinidad & Tobago	7.5	7.9	7.3	8.3	8.3	7.3	-12.0%	0.2%
Venezuela	148.8	131.4	150.0	151.0	144.2	133.9	-7.1%	3.4%
Other S. & Cent. America	7.8	7.8	7.3	7.1	7.1	7.1	0.0%	0.2%
Total S. & Cent. America	**334.2**	**318.3**	**337.9**	**347.0**	**345.0**	**332.7**	**-3.6%**	**8.5%**
Azerbaijan	15.4	15.5	15.6	22.4	32.5	42.8	31.7%	1.1%
Denmark	18.1	17.9	19.1	18.4	16.7	15.2	-8.8%	0.4%
Italy	5.5	5.6	5.5	6.1	5.8	5.9	1.6%	0.2%
Kazakhstan	48.2	52.4	60.6	62.6	66.1	68.7	3.9%	1.8%
Norway	157.3	153.0	149.9	138.2	128.7	118.8	-7.7%	3.0%
Romania	6.1	5.9	5.7	5.4	5.0	5.0	1.0%	0.1%
Russian Federation	379.6	421.4	458.8	470.0	480.5	491.3	2.2%	12.6%
Turkmenistan	9.0	10.0	9.6	9.5	9.2	9.8	6.5%	0.3%
United Kingdom	115.9	106.1	95.4	84.7	76.6	76.8	0.2%	2.0%
Uzbekistan	7.2	7.1	6.6	5.4	5.4	4.9	-8.9%	0.1%
Other Europe & Eurasia	23.6	24.0	23.4	22.0	21.7	21.6	-0.2%	0.6%
Total Europe & Eurasia	**786.0**	**818.9**	**850.1**	**844.8**	**848.1**	**860.8**	**1.5%**	**22.0%**
Iran	172.7	203.7	207.9	207.3	211.3	212.1	0.4%	5.4%
Iraq	104.0	66.1	100.0	90.0	98.1	105.3	7.3%	2.7%
Kuwait	98.2	114.8	122.6	130.1	132.4	129.6	-2.1%	3.3%
Oman	44.5	40.7	37.5	38.5	37.2	35.5	-4.6%	0.9%
Qatar	35.1	41.2	44.9	46.9	50.9	53.6	5.3%	1.4%
Saudi Arabia	425.3	485.1	506.0	526.8	514.3	493.1	-4.1%	12.6%
Syria	27.2	26.2	24.7	22.8	20.9	19.6	-6.5%	0.5%
United Arab Emirates	108.5	122.2	124.7	129.0	139.0	135.9	-2.3%	3.5%
Yemen	21.5	21.1	19.9	20.1	17.9	15.8	-11.6%	0.4%
Other Middle East	2.2	2.2	2.2	1.6	1.4	1.4	0.0%	0.0%
Total Middle East	**1039.3**	**1123.4**	**1190.4**	**1212.9**	**1223.5**	**1201.9**	**-1.8%**	**30.8%**

Contd....

XIV.2 WORLD CRUDE OIL PRODUCTION DURING 2002-2007

(Million tonnes)

Country/ Region	2002	2003	2004	2005	2006	2007	Change 2007 over 2006	2007 share of total
Algeria	70.9	79.0	83.6	86.5	86.2	86.1	-0.1%	2.2%
Angola	44.6	42.5	48.2	60.7	69.7	84.1	20.7%	2.2%
Cameroon	3.8	3.5	3.2	3.0	4.4	4.2	-5.7%	0.1%
Chad	-	1.2	8.8	9.1	8.0	7.5	-6.3%	0.2%
Rep. of Congo (Brazzavil	11.9	11.1	11.2	12.7	13.5	11.5	-15.3%	0.3%
Egypt	37.0	36.8	35.4	33.9	33.7	34.1	1.4%	0.9%
Equatorial Guinea	10.6	12.2	17.0	17.6	17.7	18.0	1.6%	0.5%
Gabon	14.7	12.0	11.8	11.7	11.7	11.5	-2.1%	0.3%
Libya	64.6	69.8	76.6	82.1	85.6	86.0	0.5%	2.2%
Nigeria	102.3	110.3	121.9	125.4	120.0	114.2	-4.8%	2.9%
Sudan	11.5	12.6	16.1	17.5	16.3	22.5	38.1%	0.6%
Tunisia	3.5	3.2	3.4	3.5	3.3	4.6	40.2%	0.1%
Other Africa	3.0	3.5	3.6	3.5	3.4	4.2	24.7%	0.1%
Total Africa	**378.5**	**397.6**	**440.7**	**467.2**	**473.4**	**488.5**	**3.2%**	**12.5%**
Australia	31.6	26.6	23.0	23.3	23.4	23.8	1.8%	0.6%
Brunei	10.2	10.5	10.3	10.1	10.8	9.5	-12.1%	0.2%
China	166.9	169.6	174.1	180.8	183.7	186.7	1.6%	4.8%
India	37.0	36.9	37.9	36.2	37.0	37.3	0.9%	1.0%
Indonesia	63.0	57.7	55.9	54.8	49.9	47.4	-4.9%	1.2%
Malaysia	34.5	35.6	36.5	34.9	33.8	34.2	1.0%	0.9%
Thailand	8.2	9.6	9.1	10.8	11.8	12.7	7.4%	0.3%
Vietnam	17.3	17.7	20.8	19.4	17.8	16.5	-7.6%	0.4%
Other Asia Pacific	9.0	9.1	8.7	9.1	9.5	10.7	-13.1%	0.3%
Total Asia Pacific	**377.5**	**373.3**	**376.2**	**379.5**	**377.6**	**378.7**	**0.3%**	**9.7%**
TOTAL WORLD	**3575.6**	**3701.3**	**3862.6**	**3896.8**	**3914.3**	**3905.9**	**-0.2%**	**100.0%**
of which: European Union	152.1	142.2	132.0	120.3	114.6	113.5	-0.9%	2.9%
OECD	1005.4	995.6	975.9	930.6	912.0	899.2	-1.4%	23.0%
OPEC	1393.3	1481.3	1594.1	1629.8	1701.5	1681.3	-1.2%	43.0%
Non-OPEC £	1716.1	1706.4	1710.1	1689.8	1612.0	1600.2	-0.7%	41.0%
Former Soviet Union	466.2	513.6	558.5	577.1	600.8	624.5	3.9%	16.0%

* Includes crude oil, shale oil, oil sands and NGLs (the liquid content of natural gas where this is recovered separately).Excludes liquid fuels from other sources such as biomass & coal derivatives.
^ Less than 0.05. £ Excludes Former Soviet Union.
Excludes Estonia, Latvia and Lithuania prior to 1985 and Slovenia prior to 1991.
Note: Annual changes and shares of total are calculated using million tonnes per annum figures.

Source: BP Sttistical Review of World Energy, 2008

XIV.3 CRUDE OIL PRODUCTION BY OPEC MEMBER COUNTRIES

(Million Tonnes)

OPEC Countries	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Algeria	57	59	60	62	64	67	66	71	79	83	87	86	86
Angola*	-	-	-	-	-	-	-	-	-	-	-	-	84
Indonesia	74	77	76	74	69	72	68	63	58	55	55	52	47
Iran	183	184	185	189	176	188	183	169	198	203	207	210	212
Iraq	27	30	57	104	125	127	117	100	66	100	90	98	105
Kuwait	105	106	105	107	98	104	102	92	110	120	130	133	130
Libya	69	69	70	70	67	70	67	65	70	76	82	86	86
Nigeria	98	105	113	106	99	103	108	102	110	122	125	119	114
Qatar	21	26	32	35	33	37	36	35	41	45	47	51	54
Suadi Arabia	427	446	455	458	426	458	443	427	488	506	527	515	493
U.A.E	111	118	117	120	108	117	114	99	120	126	129	138	136
Venezuela	152	162	171	181	167	172	166	165	135	154	151	145	134
Ecuador**	-	-	-	-	-	-	-	-	-	-	-	-	27
Total	**1324**	**1382**	**1441**	**1506**	**1432**	**1515**	**1470**	**1388**	**1475**	**1590**	**1630**	**1633**	**1708**

* Angola joined OPEC in 2007.

** Ecuador joined OPEC in 1973, suspended its membership from Dec. 1992-Oct. 2007.

Source : B.P. Statistical Review of World Energy, 2008

XIV.4 WORLD NATURAL GAS PRODUCTION* DURING 2002-2007

(Million tonnes oil equivalent)

Country/ Region	2002	2003	2004	2005	2006	2007	%Change 2007 over 2006	2007 share of total
USA	489.9	496.2	481.1	468.1	478.6	499.4	4.3	18.8%
Canada	169.1	166.2	165.3	168.7	169.6	165.3	-2.5	6.2%
Mexico	31.8	32.6	33.9	35.0	38.5	41.6	8.0	1.6%
Total North America	**690.8**	**695.0**	**680.4**	**671.7**	**686.7**	**706.3**	**2.9**	**26.6%**
Argentina	32.5	36.9	40.4	41.1	41.5	40.3	-2.8	1.5%
Bolivia	4.4	5.7	8.8	10.7	11.4	12.2	6.5	0.5%
Brazil	8.3	9.0	9.9	9.9	10.2	10.2	-0.5	0.4%
Colombia	5.5	5.5	5.7	6.1	6.6	6.9	5.6	0.3%
Trinidad & Tobago	15.6	22.3	24.6	27.3	32.8	35.1	7.0	1.3%
Venezuela	25.6	22.7	25.6	25.3	25.1	25.6	1.9	1.0%
Other S. & Cent. America	3.3	3.1	3.5	4.3	4.8	5.5	13.2	0.2%
Total S. & Cent. America	**95.3**	**105.2**	**118.5**	**124.7**	**132.4**	**135.7**	**2.5**	**5.1%**
Azerbaijan	4.3	4.3	4.2	4.8	5.7	9.3	63.2	0.3%
Denmark	7.5	7.2	8.5	9.4	9.4	8.3	-11.4	0.3%
Germany	15.3	15.9	14.7	14.2	14.1	12.9	-8.4	0.5%
Italy	12.1	11.5	10.7	10.0	9.1	8.0	-11.5	0.3%
Kazakhstan	9.5	11.7	18.6	21.0	22.1	24.5	10.8	0.9%
Netherlands	53.9	52.5	61.9	56.6	58.7	58.0	-1.2	2.2%
Norway	59.0	65.8	70.6	76.5	78.9	80.7	2.4	3.0%
Poland	3.6	3.6	3.9	3.9	3.9	3.8	-0.8	0.1%
Romania	11.9	11.7	11.5	11.2	10.7	10.4	3.1	0.4%
Russian Federation	499.9	520.8	531.9	538.2	550.9	546.7	-0.8	20.6%
Turkmenistan	44.9	49.6	48.9	52.9	56.0	60.7	8.4	2.3%
Ukraine	93.2	16.2	17.2	17.4	17.2	17.1	-0.3	0.6%
United Kingdom	93.3	92.6	86.7	79.4	72.0	65.2	-9.5	2.5%
Uzbekistan	48.2	48.3	50.3	49.5	49.9	52.6	5.6	2.0%
Other Europe & Eurasia	10.1	9.6	10.1	9.7	10.3	9.9	4.0	0.4%
Total Europe & Eurasia	**889.1**	**921.3**	**949.7**	**954.5**	**968.7**	**968.2**	**-0.1**	**36.5%**
Bahrain	8.5	8.7	8.8	9.6	10.0	10.4	4.0	0.4%
Iran	67.5	73.4	82.6	90.8	97.7	100.7	3.0	3.8%
Kuwait	7.2	8.2	9.9	11.1	11.6	11.3	-2.3	0.4%
Oman	13.5	14.9	16.7	17.8	21.3	21.7	1.7	0.8%
Qatar	26.6	28.3	35.3	41.2	45.6	53.8	17.9	2.0%
Saudi Arabia	51.0	54.1	59.1	64.1	66.2	68.3	3.3	2.6%
Syria	4.5	4.6	4.7	4.8	5.0	4.7	-5.0	0.2%
United Arab Emirates	39.1	40.3	41.7	42.3	42.7	44.3	3.8	1.7%
Other Middle East	2.4	1.6	3.0	4.0	5.1	4.9	-2.8	0.2%
Total Middle East	**220.2**	**233.9**	**261.7**	**285.8**	**305.1**	**320.2**	**4.9**	**12.1%**

Contd....

XIV.4 WORLD NATURAL GAS PRODUCTION* DURING 2002-2007

(Million tonnes oil equivalent)

Country/ Region	2002	2003	2004	2005	2006	2007	% Change 2007 over 2006	2007 share of total
Algeria	72.3	74.5	73.8	79.4	76.0	74.7	-1.7	2.8%
Egypt	20.4	22.5	24.2	31.2	40.2	41.9	4.2	1.6%
Libya	5.1	5.2	5.6	10.2	13.3	13.7	2.7	0.5%
Nigeria	12.8	17.3	20.5	20.2	25.6	31.5	23.0	1.2%
Other Africa	6.7	6.4	7.1	8.1	8.3	9.6	15.4	0.4%
Total Africa	**117.3**	**125.9**	**131.2**	**149.0**	**163.4**	**171.3**	**4.8**	**6.5%**
Australia	29.3	29.9	31.7	33.4	35.0	36.0	2.8	1.4%
Bangladesh	10.3	11.1	11.9	13.1	13.8	14.6	6.2	0.6%
Brunei	10.3	11.1	11.0	10.8	11.3	11.0	-2.5	0.4%
China	29.4	31.5	37.3	44.4	52.7	62.4	18.4	2.4%
India	24.8	26.6	26.3	26.7	26.4	27.2	2.8	1.0%
Indonesia	63.6	65.5	65.5	61.8	62.4	60.1	-3.7	2.3%
Malaysia	43.5	46.6	48.5	54.0	54.2	54.5	0.5	2.1%
Myanmar	7.6	8.6	9.2	11.7	12.1	13.2	9.7	0.5%
New Zealand	5.1	3.9	3.5	3.2	3.3	3.6	10.1	0.1%
Pakistan	20.6	22.7	24.7	27.2	27.5	27.7	1.0	1.0%
Thailand	18.5	19.6	20.1	21.3	21.9	23.3	6.4	0.9%
Vietnam	2.2	2.1	3.7	6.2	6.3	6.9	10.1	0.3%
Other Asia Pacific	4.9	6.0	5.8	6.5	9.6	11.8	23.4	0.4%
Total Asia Pacific	**270.0**	**285.1**	**299.2**	**320.2**	**336.4**	**352.3**	**4.8**	**13.3%**
TOTAL WORLD	**2282.6**	**2366.4**	**2440.7**	**2506.0**	**2592.8**	**2654.1**	**2.4**	**100.0%**
of which:								
European Union	204.6	201.5	205.0	191.0	184.4	172.7	-6.4	6.5%
OECD	979.4	987.3	982.5	967.8	980.3	992.1	1.2	37.4%
Former Soviet Union	622.7	651.1	671.2	684.0	702.0	711.2	1.3	26.8%
Other EMEs	680.5	727.9	787.0	854.2	910.4	950.8	4.4	35.8%

* Excluding gas flared or recyled.

Source : B.P.Statistical Review of World Energy, 2008

XIV.5 WORLD NATURAL GAS CONSUMPTION DURING 2002-2007

(Million tonnes oil equivalent)

Country/Region	2002	2003	2004	2005	2006	2007	Change 2007 over 2006	2007 share of total
USA	593.7	577.0	577.9	589.1	559.2	595.7	6.5%	22.6%
Canada	81.2	87.9	85.6	88.3	87.3	84.6	-3.1%	3.2%
Mexico	37.3	40.1	42.4	41.6	46.2	48.7	5.3%	1.8%
Total North America	**712.1**	**704.9**	**705.9**	**699.0**	**692.7**	**728.9**	**5.2%**	**27.6%**
Argentina	27.2	31.1	34.1	36.4	37.6	39.7	5.5%	1.5%
Brazil	12.7	14.2	16.8	17.4	18.5	19.8	7.0%	0.8%
Chile	6.6	7.1	7.7	7.5	7.1	4.0	-43.6%	0.2%
Colombia	5.5	5.4	5.7	6.1	6.6	6.9	5.6%	0.3%
Ecuador	0.1	^	0.2	0.2	0.2	0.2	-1.9%	#
Peru	0.4	0.5	0.8	1.4	1.6	2.4	50.7%	0.1%
Venezuela	25.6	22.7	25.6	25.3	25.1	25.6	1.9%	1.0%
Other S. & Cent. America	13.0	14.3	14.6	17.6	21.4	22.4	4.5%	0.8%
Total S. & Cent. America	**91.1**	**95.4**	**105.5**	**111.8**	**118.2**	**121.1**	**2.5%**	**4.6%**
Austria	7.7	8.5	8.5	9.0	8.5	8.0	-5.3%	0.3%
Azerbaijan	7.0	7.2	7.7	8.0	8.4	7.4	-12.0%	0.3%
Belarus	14.9	14.7	16.6	17.0	17.6	17.5	-1.0%	0.7%
Belgium & Luxembourg	13.4	14.4	14.9	14.9	15.3	15.2	-0.6%	0.6%
Bulgaria	2.4	2.5	2.5	2.7	2.7	2.8	2.0%	0.1%
Czech Republic	7.8	7.8	8.2	8.6	8.9	8.0	-9.7%	0.3%
Denmark	4.6	4.7	4.7	4.5	4.6	4.1	-10.5%	0.2%
Finland	3.6	4.0	3.9	3.6	3.8	3.7	-4.0%	0.1%
France	37.5	39.0	40.1	41.3	39.7	37.7	-5.0%	1.4%
Germany	74.3	77.0	77.3	77.6	78.5	74.5	-5.1%	2.8%
Greece	1.9	2.2	2.4	2.5	2.9	3.6	24.3%	0.1%
Hungary	10.6	11.6	11.5	11.9	11.3	10.6	-5.8%	0.4%
Iceland	-	-	-	-	-	-	-	-
Republic of Ireland	3.7	3.7	3.6	3.5	4.0	4.3	6.8%	0.2%
Italy	58.1	64.1	66.5	71.2	69.7	70.0	0.5%	2.7%
Kazakhstan	10.0	12.0	13.9	17.5	18.8	17.8	-5.4%	0.7%
Lithuania	2.6	2.8	2.8	2.9	2.9	3.4	17.3%	0.1%
Netherlands	35.4	36.2	37.0	35.5	34.4	33.4	-2.9%	1.3%
Norway	3.6	3.9	4.1	4.0	4.0	3.8	-2.9%	0.1%
Poland	10.1	10.1	11.8	12.3	12.3	12.3	-0.1%	0.5%
Portugal	2.8	2.7	3.4	3.8	3.7	3.9	6.6%	0.1%
Romania	15.5	16.5	15.7	15.8	16.4	14.7	-9.9%	0.6%
Russian Federation	350.0	353.6	361.7	364.6	388.9	394.9	1.6%	15.0%
Slovakia	5.8	5.7	5.5	5.9	5.7	5.3	-7.8%	0.2%
Spain	18.8	21.3	24.7	29.1	30.3	31.6	4.3%	1.2%
Sweden	0.7	0.7	0.7	0.7	0.9	0.9	3.5%	#
Switzerland	2.5	2.6	2.7	2.8	2.7	2.6	-2.4%	0.1%
Turkey	15.6	18.8	19.9	24.2	27.4	31.6	15.0%	1.2%
Turkmenistan	11.9	13.2	13.9	14.9	17.0	19.7	15.8%	0.7%
Ukraine	62.8	61.0	65.9	65.7	60.4	58.2	-3.6%	2.2%
United Kingdom	85.6	85.8	87.7	85.4	81.0	82.3	1.5%	3.1%

Contd...

XIV.5 WORLD NATURAL GAS CONSUMPTION DURING 2002-2007

(Million tonnes oil equivalent)

Country/Region	2002	2003	2004	2005	2006	2007	Change 2007 over 2006	2007 share of total
Uzbekistan	47.2	42.5	40.3	39.6	38.9	41.1	5.6%	1.6%
Other Europe & Eurasia	12.4	12.8	13.8	14.5	14.8	15.1	2.3%	0.6%
Total Europe & Eurasia	**941.0**	**963.6**	**993.8**	**1015.5**	**1036.3**	**1040.1**	**0.4%**	**39.4%**
Iran	71.3	74.6	84.1	92.1	97.8	100.7	2.9%	3.8%
Kuwait	7.2	8.2	9.9	11.1	11.6	11.3	-2.3%	0.4%
Qatar	10.0	11.0	13.5	16.8	17.6	18.5	4.6%	0.7%
Saudi Arabia	51.0	54.1	59.1	64.1	66.2	68.3	3.3%	2.6%
United Arab Emirates	32.8	34.1	36.2	37.1	37.5	38.9	3.7%	1.5%
Other Middle East	21.2	21.5	24.7	27.9	31.5	31.8	1.0%	1.2%
Total Middle East	**193.6**	**203.4**	**227.5**	**249.1**	**262.2**	**269.4**	**2.7%**	**10.2%**
Algeria	18.2	19.3	19.8	20.9	21.4	22.0	2.7%	0.8%
Egypt	20.4	22.1	23.6	23.2	26.2	28.8	9.9%	1.1%
South Africa	-	-	-	-	-	-	-	-
Other Africa	16.1	18.3	20.3	21.8	22.5	24.4	8.2%	0.9%
Total Africa	**54.7**	**59.7**	**63.7**	**65.9**	**70.1**	**75.2**	**7.2%**	**2.9%**
Australia	20.2	20.2	20.5	19.7	21.6	22.6	4.9%	0.9%
Bangladesh	10.3	11.1	11.9	13.1	13.8	14.6	6.2%	0.6%
China	26.3	30.5	35.7	42.1	50.5	60.6	19.9%	2.3%
China Hong Kong SAR	2.6	1.7	2.4	2.4	2.6	2.7	0.8%	0.1%
India	24.8	26.6	28.7	32.1	33.6	36.2	7.6%	1.4%
Indonesia	30.5	31.2	32.1	29.5	31.5	30.4	-3.3%	1.2%
Japan	65.4	71.8	69.3	70.7	75.4	81.2	7.8%	3.1%
Malaysia	24.0	24.4	22.1	26	26.6	25.4	-4.4%	1.0%
New Zealand	4.9	3.7	3.3	3.1	3.2	3.4	6.2%	0.1%
Pakistan	20.6	22.7	24.7	27.2	27.5	27.7	1.0%	1.1%
Philippines	1.6	2.4	2.1	3	2.6	3.1	19.4%	0.1%
Singapore	4.4	4.8	5.9	5.9	5.9	5.9	-	0.2%
South Korea	23.1	24.2	28.4	30.4	32.0	33.3	4.0%	1.3%
Taiwan	7.4	7.6	9.2	9.3	10.0	10.6	6.1%	0.4%
Thailand	24.2	26.0	26.9	29.3	30.0	31.8	6.2%	1.2%
Other Asia Pacific	4.8	5.1	8.0	11.8	12.1	13.5	11.4%	0.5%
Total Asia Pacific	**295.0**	**313.9**	**331.2**	**355.5**	**378.8**	**403.1**	**6.4%**	**15.3%**
TOTAL WORLD	**2287.5**	**2341.1**	**2427.6**	**2946.8**	**2558.3**	**2637.7**	**3.1%**	**100.0%**
of which:								
European Union	406.0	424.4	436.6	445.9	440.7	433.7	-1.6%	16.4%
OECD	1230.0	1249.7	1266.3	1275	1274.3	1316.9	3.3%	49.9%
Former Soviet Union	513.3	514.0	530.6	538.8	561.7	568.7	1.2%	21.6%
Other EMEs	544.3	577.3	630.7	683.1	722.3	752.1	4.1%	28.5%

^ Less than 0.05. # less than 0.05%

The difference between these world consumption figures and the world production statistics is due to variations in stocks at storage facilities and liquefaction plants, together with unavoidable disparities in the definition, measurement or conversion of gas supply and demand data.

Source : B.P.Statistical Review of World Energy, 2008

XIV.6 PRODUCTIVITY OF PRODUCING WELLS IN OPEC MEMBER COUNTRIES DURING 2007

Country	Average	Wells			Av-daily	t/w/d
	Depth (Feet)	Flowing	Artificial Lift	Total	Production	
						('000' bbl)
1	2	3	4	5	6	7
Algeria	8625	1292	393	1685	1371.6	111.0
Angola	8990	691	543	1234	1694.6	187.3
Ecuador	11477	19	833	852	511.4	81.9
Indonesia	3100	1355	7683	9038	837.6	12.6
I.R.Iran	5920	1450	-	1450	4030.7	379.2
Iraq	8200	1260	240	1500	2183.7	198.6
Kuwait	8235	1050	15	1065	2574.5	329.7
Sp.Libya A.J.	7384	1060	705	1765	1673.9	129.4
Nigeria	9057	2169	706	2875	2059.3	97.7
Qatar	10524	230	110	340	845.3	339.1
Suadi Arabia	8110	1780	133	1913	8816.0	628.6
U.A.E	8926	1260	415	1675	2529.0	205.9
Venezuela	6536	740	13800	14540	2949.5	27.7
Total OPEC	7970	14601	26011	40612	32077.1	107.7
Total World	5850	45754	631634	677388	71482.3	11.9

t/w/d = tonne/well/day

- = negligible

Note: Summation of wells by category may not equal the total for OPEC due to lack of data for some countries.

Source : OPEC Annual Statistical Bulletin, 2007.

XIV.7 WORLD OIL REFINING CAPACITY AT END 2002 - 2007

(Thousand barrels daily*)

Country/Region	2002	2003	2004	2005	2006	2007	Change 2007 over 2006	2007 share of total
USA	16757	16894	17125	17339	17443	17588	0.8%	20.0%
Canada	1923	1959	1915	1896	1914	1919	0.3%	2.2%
Mexico	1463	1463	1463	1463	1463	1463	-	1.7%
Total North America	**20143**	**20316**	**20503**	**20698**	**20821**	**20970**	**0.7%**	**23.9%**
Argentina	609	609	610	612	614	624	1.6%	0.7%
Brazil	1854	1915	1915	1916	1916	1928	0.6%	2.2%
Neth. Antilles & Aruba	545	545	545	545	580	595	2.6%	0.7%
Venezuela	1291	1291	1306	1311	1311	1311	-	1.5%
Other S. & Cent. America	2027	2016	2022	2040	2047	2055	0.4%	2.3%
Total S. & Cent. America	**6326**	**6376**	**6398**	**6424**	**6468**	**6513**	**0.7%**	**7.4%**
Belgium	803	805	782	778	774	749	-3.2%	0.9%
France	1987	1967	1982	1978	1959	1959	-	2.2%
Germany	2286	2304	2320	2322	2390	2390	-	2.7%
Greece	412	412	412	418	425	425	-	0.5%
Italy	2294	2294	2318	2348	2359	2329	-1.3%	2.6%
Netherlands	1287	1287	1289	1279	1279	1274	-0.4%	1.4%
Norway	310	310	310	310	310	310	-	0.4%
Russian Federation	5451	5470	5475	5515	5557	5583	0.5%	6.4%
Spain	1333	1333	1358	1377	1377	1377	-	1.6%
Sweden	422	422	422	422	422	422	-	0.5%
Turkey	713	713	693	613	613	613	-	0.7%
United Kingdom	1785	1813	1848	1819	1836	1836	-	2.1%
Other Europe and Eurasia	5892	5889	5925	5863	5720	5756	0.6%	6.5%
Total Europe and Eurasia	**24975**	**25019**	**25134**	**25043**	**25021**	**25024**	*	**28.5%**
Iran	1602	1612	1647	1647	1732	1857	7.2%	2.1%
Iraq	644	644	644	649	666	674	1.2%	0.8%
Kuwait	770	905	905	905	905	905	-	1.0%
Saudi Arabia	1810	1890	2075	2100	2100	2100	-	2.4%
United Arab Emirates	711	645	620	620	620	620	-	0.7%
Other Middle East	1238	1238	1238	1238	1248	1369	9.7%	1.6%
Total Middle East	**6775**	**6934**	**7129**	**7159**	**7271**	**7525**	**3.5%**	**8.6%**
Total Africa	**3215**	**3164**	**3103**	**3221**	**3274**	**3280**	**0.2%**	**3.7%**
Australasia	829	756	763	711	694	694	-	0.8%
China	5479	5487	6289	6587	7029	7511	6.9%	8.5%
India	2303	2293	2558	2558	2872	2983	3.9%	3.4%
Indonesia	1092	1057	1057	1057	1130	1163	2.9%	1.3%
Japan	4721	4683	4567	4529	4542	4598	1.2%	5.2%
Singapore	1255	1255	1255	1255	1255	1255	-	1.4%
South Korea	2598	2598	2598	2598	2633	2668	1.3%	3.0%
Taiwan	1159	1159	1159	1159	1140	1197	5.0%	1.4%
Thailand	1062	1062	1062	1062	1082	1082	-	1.2%
Other Asia Pacific	1487	1416	1410	1438	1447	1451	0.3%	1.7%
Total Asia Pacific	**21984**	**21766**	**22718**	**22954**	**23824**	**24601**	**3.3%**	**28.0%**
TOTAL WORLD	**83417**	**83574**	**84985**	**85499**	**86678**	**87913**	**1.4%**	**100.0%**
of which: European Union	15421	15442	15528	15587	15633	15590	-0.3%	17.7%
OECD	44222	44309	44466	44525	44749	44946	0.4%	51.1%
Former Soviet Union	8163	8182	8247	8197	8129	8175	0.6%	9.3%
Other EMEs	31032	31083	32272	32777	33800	34793	2.9%	39.6%

* Atmospheric distillation capacity on a calendar-day basis.

• Less than 0.05%

Note: Annual changes and shares of total are calculated using thousand barrels daily figures.

Source; B.P.Statistical Review of World Energy, 2008

XIV.8 WORLD REFINERY CRUDE THROUGHPUT AT END 2002 - 2007

(Thousand barrels daily)*

Country/Region	2002	2003	2004	2005	2006	2007	Change 2007 over 2006	2007 share of total
US	14947	15304	15475	15220	15242	**15148**	-0.6%	20.1%
Canada	1862	1880	1957	1882	1843	**1869**	1.4%	2.5%
Mexico	1390	1436	1436	1415	1407	**1395**	-0.8%	1.8%
S. & Cent. America	4941	5040	5430	5402	5354	**5448**	1.8%	7.2%
Europe & Eurasia	19485	19988	20441	20815	20877	**20829**	-0.2%	27.6%
Middle East	5482	5566	5805	5934	6321	**6301**	-0.3%	8.3%
Africa	2377	2301	2304	2468	2374	**2470**	4.0%	3.3%
Australasia	855	823	820	757	749	**767**	2.4%	1.0%
China	4395	4823	5382	5916	6155	**6563**	6.6%	8.7%
Japan	3986	4118	4038	4136	4026	**3994**	-0.8%	5.3%
Other Asia Pacific	8827	9298	9944	10060	10396	**10761**	3.5%	14.2%
TOTAL WORLD	**68547**	**70576**	**73032**	**74005**	**74743**	**75545**	**1.1%**	**100.0%**
of which: European Union	13474	13730	14088	14161	13996	**13748**	-1.8%	18.2%
OECD	39080	39887	40455	40262	40083	**39783**	-0.7%	52.7%
Former Soviet Union	5060	5276	5400	5696	5865	**6039**	3.0%	8.0%
Other EMEs	24408	25414	27178	28047	28795	**29723**	3.2%	39.3%

* Input to primary distillation units only.

Note: Annual changes and shares of total are calculated using thousand barrels daily figures.

Source; B.P.Statistical Review of World Energy, 2008

XIV. 9 COUNTRY-WISE WORLD OIL CONSUMPTION* 2002 - 2007

(Million tonnes)

Country/Region	2002	2003	2004	2005	2006	2007	Change 2007 over 2006	2007 share of total
US	897.4	912.3	948.7	951.4	943.8	943.1	-0.1%	23.9%
Canada	92.2	95.9	100.6	100.3	99.6	102.3	2.7%	2.6%
Mexico	81.5	83.7	85.2	87.7	86.8	89.2	2.8%	2.3%
Total North America	1071.1	1091.8	1134.6	1139.4	1130.2	1134.7	0.4%	28.7%
Argentina	17.1	17.6	18.7	20.1	21.0	23.5	12.0%	0.6%
Brazil	91.6	87.8	88.4	90.1	91.2	96.5	5.8%	2.4%
Chile	10.6	10.6	10.9	11.9	12.3	16.0	29.9%	0.4%
Colombia	10.0	10.0	10.1	10.1	10.6	10.3	-2.4%	0.3%
Ecuador	5.9	6.2	6.3	7.5	7.8	8.1	4.0%	0.2%
Peru	6.9	6.5	7.1	7.8	6.4	6.6	2.9%	0.2%
Venezuela	27.0	22.0	24.2	25.8	26.3	26.8	1.9%	0.7%
Other S. & Cent. America	59.5	61.2	62.1	62.6	64.2	64.1	-0.2%	1.6%
Total S. & Cent. America	228.6	221.9	227.9	236.0	239.9	252.0	5.0%	6.4%
Austria	13.0	14.1	13.8	14.2	14.2	13.5	-4.8%	0.3%
Azerbaijan	3.7	4.3	4.6	5.3	4.9	4.5	-7.1%	0.1%
Belarus	7.1	7.4	7.5	6.9	6.8	7.0	1.9%	0.2%
Belgium & Luxembourg	33.5	36.4	38.4	39.9	41.1	41.2	0.4%	1.0%
Bulgaria	4.5	5.2	4.7	4.9	5.4	5.4	*	0.1%
Czech Republic	8.1	8.7	9.5	9.9	9.8	9.9	0.8%	0.3%
Denmark	9.6	9.2	9.1	9.2	9.3	9.3	0.4%	0.2%
Finland	10.9	11.4	10.6	11.0	10.6	10.6	0.6%	0.3%
France	92.9	93.1	94.0	93.1	92.9	91.3	-1.7%	2.3%
Germany	127.4	125.1	124.0	122.4	123.6	112.5	-9.0%	2.8%
Greece	20.2	19.6	21.4	21.2	22.1	21.6	-2.2%	0.5%
Hungary	6.4	6.3	6.5	7.5	7.8	7.6	-1.4%	0.2%
Iceland	0.9	0.9	1.0	1.0	1.0	1.0	5.5%	*
Republic of Ireland	8.8	8.5	8.9	9.4	9.3	9.4	1.0%	0.2%
Italy	92.9	92.1	89.6	86.7	86.7	83.3	-3.9%	2.1%
Kazakhstan	9.3	8.8	9.0	10.0	11.0	10.6	-3.2%	0.3%
Lithuania	2.5	2.4	2.6	2.8	2.8	2.9	3.5%	0.1%
Netherlands	43.8	44.1	46.2	49.6	49.0	48.5	-0.9%	1.2%
Norway	9.4	9.9	9.6	9.7	10.0	10.1	1.2%	0.3%
Poland	19.4	19.9	21.1	21.9	23.3	24.3	4.0%	0.6%
Portugal	16.2	15.2	15.4	16.0	14.4	14.4	0.2%	0.4%
Romania	10.6	9.4	10.9	10.5	10.3	10.8	4.7%	0.3%
Russian Federation	123.5	123.4	123.3	121.9	127.1	125.9	-0.9%	3.2%
Slovakia	3.5	3.3	3.2	3.8	3.4	3.8	10.3%	0.1%
Spain	73.8	75.5	77.6	78.8	78.1	78.7	0.8%	2.0%
Sweden	15.2	15.9	15.3	15.1	16.6	16.8	1.1%	0.4%
Switzerland	12.4	12.1	12.0	12.2	12.6	11.3	-9.9%	0.3%
Turkey	30.6	31.2	32.0	30.0	30.7	31.1	1.5%	0.8%
Turkmenistan	3.8	4.2	4.2	4.4	4.5	4.7	3.6%	0.1%
Ukraine	13.1	13.5	13.9	13.9	15.0	15.3	2.2%	0.4%
United Kingdom	78.0	79.0	81.7	83.0	82.3	78.2	-5.0%	2.0%
Uzbekistan	6.3	7.2	6.5	5.5	5.6	5.8	2.1%	0.1%
Other Europe & Eurasia	21.9	23.8	24.5	26.2	26.9	27.7	3.3%	0.7%
Total Europe & Eurasia	933.4	941.2	952.5	957.8	969.0	949.4	-2.0%	24.0%

contd.....

XIV. 9 COUNTRY-WISE WORLD OIL CONSUMPTION* 2002 - 2007

(Million tonnes)

Country/Region	2002	2003	2004	2005	2006	2007	Change 2007 over 2006	2007 share of total
Iran	67.1	71.0	73.7	74.8	76.7	77.0	0.4%	1.9%
Kuwait	11.4	12.2	13.7	15.6	14.0	14.0	0.3%	0.4%
Qatar	2.5	2.2	2.3	2.8	3.4	4.1	21.7%	0.1%
Saudi Arabia	72.7	77.7	83.7	87.2	92.6	99.3	7.2%	2.5%
United Arab Emirates	15.9	16.3	17.4	18.3	20.5	22.0	7.7%	0.6%
Other Middle East	68.9	68.9	70.6	72.8	74.0	77.0	4.0%	1.9%
Total Middle East	**238.4**	**248.2**	**261.4**	**271.5**	**281.2**	**293.5**	**4.4%**	**7.4%**
Algeria	9.7	10.1	10.6	11.0	11.5	12.0	3.9%	0.3%
Egypt	25.2	25.9	26.8	29.8	28.7	30.6	6.8%	0.8%
South Africa	23.6	24.2	24.8	24.8	25.3	25.8	2.1%	0.7%
Other Africa	58.9	59.8	61.8	64.3	66.7	69.8	4.7%	1.8%
Total Africa	**117.5**	**120.1**	**124.1**	**129.9**	**132.1**	**138.2**	**4.6%**	**3.5%**
Australia	38.0	38.3	38.8	39.8	41.4	42.2	1.9%	1.1%
Bangladesh	3.9	4.0	4.0	4.6	4.8	5.0	3.5%	0.1%
China	247.4	271.7	818.9	327.8	353.3	368.0	4.1%	9.3%
China Hong Kong SAR	12.9	13.0	15.3	13.8	14.8	16.9	14.1%	0.4%
India	111.3	113.1	120.2	119.6	120.4	126.5	6.7%	3.3%
Indonesia	54.1	54.0	58.1	58.2	53.4	54.4	1.9%	1.4%
Japan	243.6	248.9	241.1	244.1	237.1	228.9	-3.5%	5.8%
Malaysia	22.5	22.2	22.8	22.0	22.8	23.6	3.4%	0.6%
New Zealand	6.5	6.9	7.0	7.2	7.2	7.0	-2.5%	0.2%
Pakistan	17.9	15.8	16.0	15.3	17.4	17.9	2.8%	0.5%
Philippines	15.6	15.5	15.8	14.7	13.2	13.9	5.3%	0.4%
Singapore	35.5	33.9	38.1	40.9	44.0	47.4	7.7%	1.2%
South Korea	104.7	105.6	104.9	105.4	105.6	107.6	1.9%	2.7%
Taiwan	47.6	50.9	51.3	51.3	51.7	52.5	1.5%	1.3%
Thailand	36.4	40.0	44.6	44.5	43.8	43.0	-1.8%	1.1%
Other Asia Pacific	24.5	24.8	26.3	27.2	27.5	28.4	3.2%	0.7%
Total Asia Pacific	**1022.2**	**1058.5**	**1123.3**	**1136.4**	**1158.5**	**1185.1**	**2.3%**	**30.0%**
TOTAL WORLD	**3611.3**	**3681.8**	**3823.7**	**3871.0**	**3910.9**	**3952.8**	**1.1%**	**100.0%**
of which: European Union	699.7	703.1	713.1	719.9	722.4	703.9	-2.6%	17.8%
OECD	2190.9	2223.2	2267.3	2281.4	2270.2	2249.0	-0.9%	56.9%
Former Soviet Union	174.1	176.9	177.7	177.4	184.5	183.8	-0.4%	4.7%
Other EMEs	1246.3	1281.7	1378.7	1412.2	1456.2	1520.0	4.4%	38.5%

* Inland demand plus international aviation and marine bunkers and refinery fuel and loss. Consumption of fuel ethanol and biodiesel is also included.

• Less than 0.05%

Differences between these world consumption figures and world production statistics are accounted for by stock changes, consumption of non-petroleum additives and substitute fuels, and unavoidable disparities in the definition, measurement or conversion of oil supply and demand data.

Source; B.P.Statistical Review of World Energy, 2008

XIV.10 PRODUCT GROUP-WISE REGIONAL CONSUMPTION OF PETROLEUM PRODUCTS DURING 2002 - 2007

Thousand barrels daily

Region/Country/Distillate	2002	2003	2004	2005	2006	2007	Change 2007 over 2006	2007 share of total
North America								
Light distillates	10523	10675	10979	11020	11131	**11207**	0.7%	44.8%
Middle distillates	6655	6861	7133	7249	7297	**7339**	0.6%	29.3%
Fuel oil	1209	1271	1339	1396	1055	**1095**	3.7%	4.4%
Others	5278	5243	5446	5359	5420	**5383**	-0.7%	21.5%
Total North America	23665	24050	24897	25023	24904	**25024**	0.5%	100.0%
of which: US								
Light distillates	9167	9275	9518	9548	9599	**9601**	*	46.4%
Middle distillates	5735	5886	6116	6198	6226	**6222**	-0.1%	30.1%
Fuel oil	686	763	858	914	683	**727**	6.4%	3.5%
Others	4172	4109	4239	4143	4178	**4147**	-0.7%	20.0%
Total US	19761	20033	20731	20802	20687	**20698**	*	100.0%
S. & Cent. America								
Light distillates	1506	1496	1452	1549	1591	**1657**	4.1%	30.2%
Middle distillates	1650	1650	1775	1822	1861	**2001**	7.5%	36.4%
Fuel oil	789	755	745	779	767	**800**	4.3%	14.6%
Others	1028	925	973	997	1006	**1036**	3.0%	18.9%
Total S. & Cent. America	4974	4826	4944	5147	5225	**5493**	5.1%	100.0%
Europe								
Light distillates	4025	3928	3888	3770	3627	**3506**	-3.3%	21.7%
Middle distillates	6935	7138	7356	7591	7850	**7758**	-1.2%	48.0%
Fuel oil	1996	1954	1888	1854	1785	**1668**	-6.6%	10.3%
Others	3113	3154	3217	3289	3293	**3246**	-1.4%	20.1%
Total Europe	16069	16174	16349	16503	16555	**16177**	-2.3%	100.0%
Former Soviet Union								
Light distillates	882	937	918	935	990	**1043**	5.3%	26.6%
Middle distillates	1048	1085	1108	1151	1205	**1239**	2.8%	31.6%
Fuel oil	670	646	578	555	607	**517**	-14.8%	13.2%
Others	1066	1080	1157	1130	1120	**1125**	0.4%	28.7%
Total Former Soviet Union	3667	3748	3782	3771	3923	**3923**	*	100.0%
Middle East								
Light distillates	1011	1059	1177	1241	1322	**1319**	-0.2%	21.3%
Middle distillates	1666	1723	1766	1850	1956	**2042**	4.4%	32.9%
Fuel oil	1320	1335	1394	1487	1488	**1597**	7.3%	25.7%
Others	1013	1112	1170	1153	1182	**1245**	5.3%	20.1%
Total Middle East	5011	5229	5507	5731	5949	**6203**	4.3%	100.0%
Africa								
Light distillates	591	600	612	630	651	**683**	4.8%	23.1%
Middle distillates	1075	1107	1133	1185	1230	**1297**	5.4%	43.9%
Fuel oil	416	422	444	482	462	**478**	3.4%	16.2%
Others	428	438	455	477	480	**497**	3.5%	16.8%
Total Africa	2510	2567	2644	2773	2824	**2955**	4.6%	100.0%
Asia Pacific								
Light distillates	6022	6283	6642	6781	6917	**7193**	4.0%	28.3%
Middle distillates	8102	8238	8769	9017	9090	**9173**	0.9%	36.1%
Fuel oil	3421	3568	3578	3574	3655	**3595**	-1.7%	14.1%
Others	4389	4614	5019	4995	5188	**5483**	5.7%	21.5%
Total Asia Pacific	21934	22702	24008	24368	24851	**25444**	2.4%	100.0%

contd.....

XIV.10 PRODUCT GROUP-WISE REGIONAL CONSUMPTION OF PETROLEUM PRODUCTS DURING 2002 - 2007

Thousand barrels daily

Region/Country/Distillate	2002	2003	2004	2005	2006	2007	Change 2007 over 2006	2007 share of total
of which:								
China								
Light distillates	1352	1489	1673	1776	1926	**2051**	6.5%	26.1%
Middle distillates	1791	1945	2285	2528	2723	**2908**	6.8%	37.0%
Fuel oil	792	880	958	904	938	**854**	-9.0%	10.9%
Others	1352	1489	1858	1777	1942	**2041**	5.1%	26.0%
Total China	5288	5803	6772	6984	7530	**7855**	**4.3%**	**100.0%**
of which:								
Japan								
Light distillates	1759	1788	1793	1822	1813	**1790**	-1.3%	35.4%
Middle distillates	1930	1904	1856	1876	1758	**1620**	-7.8%	32.1%
Fuel oil	649	770	672	698	675	**667**	-1.2%	13.2%
Others	1021	993	960	963	979	**974**	-0.4%	19.3%
Total Japan	5359	5455	5281	5358	5224	**5051**	**-3.3%**	**100.0%**
World								
Light distillates	24560	24977	25869	25926	26230	**26608**	1.4%	31.2%
Middle distillates	27133	27802	29039	29866	30490	**30848**	1.2%	36.2%
Fuel oil	9821	9952	9967	10127	9821	**9749**	-0.7%	11.4%
Others	16316	16566	17437	17399	17689	**18014**	1.8%	21.1%
TOTAL WORLD	77829	79296	82111	83317	84230	**85220**	**1.2%**	**100.0%**
European Union								
Light distillates	3763	3671	3619	3520	3376	**3271**	**-3.1%**	**22.0%**
Middle distillates	6405	6592	6795	6996	7225	**7108**	**-1.6%**	**47.8%**
Fuel oil	1793	1745	1704	1704	1647	**1554**	-5.7%	10.5%
Others	2834	2857	2912	2982	2985	**2929**	-1.9%	19.7%
Total European Union	14795	14865	15030	15201	15233	**14861**	**-2.4%**	**100.0%**
OECD								
Light distillates	17390	17502	17759	17759	17753	**17754**	•	36.3%
Middle distillates	16296	16682	17104	17478	17664	**17482**	-1.0%	35.7%
Fuel oil	4175	4309	4218	4253	3810	**3702**	-2.8%	7.6%
Others	9826	9801	10024	10008	10093	**9995**	-1.0%	20.4%
Total OECD	47687	48294	49104	49497	49319	**48934**	**-0.8%**	**100.0%**
Other EMEs								
Light distillates	6287	6538	6992	7232	7487	**7811**	4.3%	24.1%
Middle distillates	9789	10034	10827	11236	11621	**12127**	4.4%	37.5%
Fuel oil	4976	4997	5171	5319	5404	**5530**	2.3%	17.1%
Others	5424	5685	6256	6262	6476	**6895**	6.5%	21.3%
Total Other EMEs £	26476	27254	29246	30049	30989	**32363**	**4.4%**	**100.0%**

£ : Excludes Former Soviet Union. • : Less than 0.05%

Notes: Annual changes and shares of total are calculated using thousand barrels daily figures.

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

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

'Fuel oil' includes marine bunkers and crude oil used directly as fuel

'Others' consists of refinery gas, LPG, solvents, petroleum coke, lubricants, bitumen, wax, other products refined and refinery fuel and loss

Source; B.P.Statistical Review of World Energy, 2008

XIV.11 WORLD OIL PRODUCTION, CONSUMPTION AND RELATIVE DEFICIT/SURPLUS IN EACH COUNTRY/REGION DURING 2006 AND 2007

(Million Tonnes)

Country/Region	2006				2007*			
	Production	Consumption	Deficit/ Surplus	% extent of dependence	Production	Consumption	Deficit/ Surplus	% extent of dependence
North America	646.7	1130.2	-483.5	-42.8	643.4	1134.7	-491.3	-43.3
South & Central America	345.0	239.9	105.1	43.8	332.7	252	80.7	32.0
Middle East	1223.5	281.2	942.3	335.1	1201.9	293.5	908.4	309.5
Africa	473.4	132.1	341.3	258.4	488.5	138.2	350.3	253.5
Asia Pacific	377.6	1158.5	-780.9	-67.4	378.7	1185.1	-806.4	-68.0
of which India	37.0	120.4	-83.4	-69.3	37.3	128.5	-91.2	-71.0
Japan	-	237.1	-237.1	-100.0	-	228.9	-228.9	-100.0
China	183.7	353.3	-169.6	-48.0	186.7	368	-181.3	-49.3
Australia	23.4	41.4	-18	-43.5	23.8	42.2	-18.4	-43.6
OECD	912.0	2270.2	-1358.2	-59.8	899.2	2249.0	-1349.8	-60.0
Europe & Eurasia	848.1	969.0	-120.9	-12.5	860.8	949.4	-88.6	-9.3
Former Soviet Union	600.8	184.5	416.3	225.6	624.5	183.8	440.7	239.8
Total World	**3914.3**	**3910.9**	3.4	0.1	**3905.9**	**3952.8**	-46.9	-1.2

* Provisional

Source : BP Statistical Review of World Energy, June 2008

XIV.12 WORLD CRUDE OIL AND PETROLEM PRODUCTS IMPORTS AND EXPORTS 2007

Region/Country	Imports		Exports		Imports		Exports	
	Crude	Product	Crude	Product	Crude	Product	Crude	Product
	(Million Tonnes)				(Thousand barrels daily)			
US	501.6	170.3	6.1	63.0	10073	3560	123	1316
Canada	48.8	17.9	93.6	27.7	979	375	1879	579
Mexico	0.5	21.1	91.0	7.1	10	441	1828	148
S. & Cent. America	42.2	37.0	115.2	60.2	847	773	2313	1258
Europe	542.2	146.5	29.1	80.8	10890	3063	585	1688
Former Soviet Union	0.1	6.3	316.7	94.4	2	132	6360	1974
Middle East	5.8	9.9	859.5	115.7	117	206	17262	2419
North Africa	8.9	8.5	135.5	29.4	179	178	2721	615
West Africa	3.4	11.2	234.3	5.9	68	234	4706	123
East & Southern Africa	25.6	8.4	19.2	1.1	514	176	385	22
Australasia	27.3	13.5	15.4	11.2	548	282	310	233
China	163.2	39.9	3.6	15.6	3277	834	73	326
Japan	205.1	43.7	#	11.5	4118	914	#	240
Singapore	51.2	62.2	0.8	68.1	1028	1301	16	1424
Other Asia Pacific	357.9	120.5	44.1	96.0	7187	2518	885	2007
Unidentified *	-	-	19.5	29.5	-	-	392	616
TOTAL WORLD	**1983.6**	**717.0**	**1983.6**	**717.0**	**39836**	**14988**	**39836**	**14988**

* :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 Europe) are excluded

#: Less than 0.05

Source: B.P.Statistical Review of World Energy, 2008

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

(1,000 bbl/day)

Country	2000	2001	2002	2003	2004	2005	2006	2007*
Crude Oil								
Algeria	461.1	441.5	566.2	741.0	893.2	970.3	947.2	1,253.5
Angola	748.6	693.9	849.3	823.0	940.9	946.9	1,010.3	1,157.6
Ecquador	251.9	257.2	243.3	267.0	373.7	380.0	376.3	341.7
Indonesia	622.5	599.2	639.9	433.0	412.7	374.4	301.3	319.3
I.R. Iran	2,492.2	2,184.6	2,093.6	2,396.3	2,684.1	2,394.5	2,377.2	2,466.8
Iraq	2,039.8	1,710.2	1,494.6	388.6	1,450.0	1472.2	1,467.8	1,643.0
Kuwait	1,230.7	1,214.1	1,138.0	1,242.9	1,414.9	1,650.8	1,723.4	1,612.9
S.P.Libyan AJ	1,005.0	987.6	983.6	1,126.5	1,284.5	1,306.3	1,425.6	1,377.8
Nigeria	1,986.4	2,009.4	1,798.2	2,163.5	2,356.0	2,326.0	2,248.4	2,144.1
Qatar	617.6	605.5	567.8	540.7	542.7	677.3	620.3	615.1
Saudi Arabia	6,253.1	6,035.9	5,284.6	6,522.9	6,813.1	7,208.9	7,029.4	6,962.1
UAE	1,814.9	1,786.7	1,614.0	2,048.0	2,172.0	2,195.0	2,420.3	2,342.7
Venezuela	2,003.5	1,964.7	1,572.0	1,535.0	1,566.2	1,787.8	1,919.4	2,115.6
O P E C	**21,527.1**	**20,490.5**	**18,845.1**	**20,228.4**	**22,903.9**	**23,690.3**	**23,866.8**	**24,352.2**
Refined Petroleum Products								
Algeria	544.3	555.8	527.2	528.3	446.0	451.9	435.1	451.3
Angola	16.7	17.0	16.8	13.4	13.6	13.9	14.2	26.6
Equator	43.6	38.7	59.9	27.4	27.6	19.7	34.5	40.0
Indonesia	188.8	196.3	152.4	155.3	143.5	142.3	225.7	106.9
I.R. Iran	347.3	307.7	328.0	333.2	339.6	402.1	461.6	388.3
Iraq	23.0	25.0	22.5	10.5	11.5	13.5	56.3	65.6
Kuwait	674.5	642.3	572.2	623.1	604.2	614.2	749.5	739.1
S.P.Libyan AJ	237.0	225.0	221.1	145.4	161.5	162.5	183.1	183.1
Nigeria	47.3	65.7	78.2	67.7	66.9	49.3	50.3	53.4
Qatar	75.3	78.1	67.3	61.5	64.9	76.8	81.1	73.9
Saudi Arabia	1,228.1	1,082.6	993.5	1,128.6	1,334.4	1,385.4	1,277.8	1,138.8
UAE	391.7	398.2	485.5	513.6	503.6	509.0	452.8	407.7
Venezuela	779.6	761.1	569.7	485.0	573.8	609.3	598.5	638.8
O P E C	**4,597.1**	**4,393.5**	**4,094.3**	**4,092.9**	**4,291.0**	**4,449.7**	**4,620.2**	**4,313.6**

Note: Data includes re-exports and exports of petroleum products from gas plants.
Totals may not add up due to independent rounding. Data includes re-exports. Negerian exports include condensates.
Source: OPEC Annual Statistical Bulletin 2007.

XIV.14 CRUDE OIL IMPORTS FROM OPEC MEMBER COUNTRIES BY REGIONS 1995 TO 2007

(Million Tonnes)

IMPORT REGION	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007*
North america	183.1	185.4	212.0	236.5	221.8	239.5	245.6	212.8	204.6	287.1	278.0	304.9	333.2
Of which : USA	171.3	174.0	199.2	222.2	209.0	226.6	229.4	195.5	186.6	262.2	249.6	284.4	312.8
Latin America	33.6	40.0	35.2	37.3	41.1	45.6	45.7	37.7	37.9	48.1	51.4	45.3	45.4
Eatern Europe	9.8	9.2	11.7	13.8	9.0	10.2	7.6	6.3	7.6	8.1	1.5	0.3	4.5
Western Europe	253.6	252.1	264.3	292.4	248.0	255.1	215.9	195.3	201.4	233.5	252.7	240.2	222.6
France	44.0	42.2	42.7	49.9	41.1	39.9	35.7	31.5	34.4	41.1	34.4	40.3	30.8
Germany	29.8	28.8	27.3	28.0	23.8	24.8	20.8	18.7	18.3	21.4	21.1	22.8	18.6
Italy	49.4	53.8	60.2	64.0	59.2	61.8	51.0	51.3	51.3	56.9	61.1	57.8	49.0
U.K	10.1	9.2	6.6	7.3	4.3	3.9	4.1	6.3	5.6	6.4	5.4	4.9	5.5
Middle East	15.1	15.6	15.3	15.7	14.6	13.6	13.5	11.9	11.7	16.9	27.7	14.9	16.7
Africa	25.2	23.6	26.1	27.9	27.8	31.0	27.8	24.4	32.2	35.1	33.5	24.2	22.6
Asia and Pacific	369.9	371.3	380.5	377.8	393.3	413.0	401.1	389.5	436.6	477.0	509.3	530.7	543.6
Japan	179.2	177.2	186.5	177.5	175.0	177.9	198.2	190.2	184.1	214.4	294.6	287.5	256.6
Unspecified	0.5	2.8	0.3	0.8	10.5	15.4	17.0	4.2	18.2	34.4	22.3	24.5	20.6
TOTAL WORLD	900.5	910.7	955.8	1015.2	966.2	1023.4	974.1	882.1	950.2	1140.1	1176.2	1185.0	1209.1

Note : Converted into million tonnes using conversion factor : 1bbl = 0.136 Metric Tonnes

* : Provisional

Source : OPEC Annual Statistical Bulletin, 2007

XIV.15 CRUDE OIL EXPORTS FROM OPEC MEMBER COUNTRIES BY DESTINATION DURING 2007

(1,000 b/d)

Destination/Country	Algeria	Angola	Ecuador	Indonesia	IR Iran	Iraq	Kuwait	Libya	Nigeria	Qatar	Saudi Arabia	UAE	Venezuela
1	2	3	4	5	6	7	8	9	10	11	12	13	14
North America	738.9	543.1	208.2	20.5	-	593.4	111.9	80	1670.7	-	1566.5	12.3	1166
Latin America	48.5	-	120.3	-	2.3	-	-	31.1	-	-	61.2	-	650.0
Eastern Europe	-	-	-	-	-	91.3	-	-	-	-	-	-	-
Western Europe	374.3	233.9	-	-	847.4	326.3	109	1109.3	447.7	-	838.5	20.3	176.5
Middle East	-	-	-	-	-	26.8	-	-	-	-	309.8	-	-
Africa	-	-	-	-	148.1	-	43.7	23.4	-	-	196.6	33.2	9.2
Asia and Pasific	37.8	23.1	13.2	298.7	1469.1	605.3	1347.4	134.1	25.6	615.1	3989.5	2276.9	112
Unspecified	54.1	357.6	-	-	-	-	0.8	-	-	-	-	-	1.9
TOTAL WORLD	**1253.5**	**1157.6**	**341.7**	**319.3**	**2466.8**	**1643.0**	**1612.9**	**1377.8**	**2144.1**	**615.1**	**6962.1**	**2342.7**	**2115.6**

- = Nil or Negligible

Source : OPEC Annual Statistical Bulletin, 2007

XIV.16 VALUE OF PETROLEUM EXPORTS FROM OPEC COUNTRIES DURING 1998 TO 2007

(Billion US $)

Countries	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007*
1	5	6	7	8	9	10	11	12	13	13
Algeria	5.69	8.31	14.20	11.74	12.37	16.48	23.05	32.88	38.34	44.25
Angola	3.03	4.54	7.06	5.77	7.54	8.71	12.58	22.70	28.80	42.00
Ecuador	0.92	1.48	2.44	19.00	2.05	2.61	4.23	5.87	7.54	8.28
Indonesia	4.06	5.44	7.74	6.90	6.54	7.18	7.62	15.19	15.33	15.7
I.R.Iran	10.05	16.10	25.44	21.42	19.22	26.12	34.29	53.22	59.13	64.9
Iraq	5.11	12.10	19.77	15.68	12.59	7.52	17.75	19.05	27.5	37.3
Kuwait	8.47	11.03	18.19	14.97	14.06	19.01	26.68	42.41	53.18	60.02
Sp.Libya A.J.	5.61	7.73	12.23	10.87	9.47	13.57	16.85	28.30	36.95	39.8
Nigeria	6.75	12.45	20.04	17.19	17.08	22.18	33.31	47.64	52.52	57.9
Qatar	3.36	4.78	7.83	6.96	6.89	8.81	11.69	17.58	24.29	27.8
Suadi Arabia	32.57	44.88	70.87	59.79	63.81	82.27	110.90	161.78	188.47	206.48
U.A.E	11.13	15.02	26.15	22.41	21.77	25.15	38.10	49.90	69.81	74.55
Venezuela	11.84	16.07	26.15	19.84	18.56	18.55	27.74	39.07	48.39	52.12
Total OPEC	**110.58**	**159.93**	**258.12**	**215.46**	**211.95**	**258.16**	**364.79**	**535.63**	**650.26**	**731.10**

*: Provisional

Source : OPEC Annual Statistical Bulletin, 2007.

XIV.17 SPOT PRICES OF KEY OPEC CRUDES SINCE 1990

(US $/bbl)

	Country/Crude Name												
	Kuwait	Libya	Nigeria	Qatar	Saudi Arabia		UAE	Indonesia	I.R.Iran		Iraq		Oman
Period	kuwait Exp.	Brega	Forcados	Dukhan	Arab Medium	Arab Heavy	Murban	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	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	23.73	20.64	19.91	-	-	20.89
1991	-	20.41	20.17	17.86	15.77	14.02	18.17	20.68	17.34	16.33	-	-	17.14
1992	-	19.84	19.61	18.49	16.41	15.22	18.86	20.51	17.77	16.72	-	-	17.72
1993	14.07	17.08	17.44	16.21	14.19	13.03	16.90	18.10	15.06	14.08	-	-	15.77
1994	14.14	15.88	16.20	15.82	14.41	13.65	16.21	16.48	14.84	14.56	-	-	15.12
1995	15.90	17.21	17.26	16.73	16.09	15.58	17.18	17.82	16.17	16.26	-	-	16.34
1996	18.41	21.06	21.21	19.46	19.01	18.44	20.30	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	13.42	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	18.34	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	29.45	26.75	26.02	24.92	25.17	26.50
2001	21.37	24.70	24.24	23.74	22.60	21.90	24.02	26.45	22.90	21.67	20.00	20.07	22.75
2002	23.61	24.96	25.05	24.37	14.88	23.38	24.87	25.38	23.52	23.09	23.32	22.63	23.94
2003	26.89	28.89	28.65	27.44	na	26.43	28.25	29.58	26.89	26.34	26.60	27.22	27.13
2004	34.08	38.35	38.10	36.05	na	31.14	36.65	40.87	34.60	33.06	34.60	na	34.35
2005	48.66	54.22	55.60	53.46	na	45.28	54.09	57.26	50.66	47.99	48.33	na	50.48
2006	58.88	65.04	67.07	65.39	na	56.82	66.07	67.91	61.07	59.27	57.97	na	62.59
2007	66.35	72.93	74.49	72.33	na	64.18	72.87	75.44	69.3	67.06			
2007													
Jan	48.42	53.78	56.20	55.41	na	46.15	56.42	54.71	49.12	47.91	55.54	na	59.35
Feb	52.33	57.53	60.12	59.13	na	50.21	59.58	60.53	53.64	51.87	52.32	na	58.61
Mar	56.22	62.30	64.07	62.55	na	54.40	63.19	63.56	57.92	56.39	54.01	na	59.19
Apr	61.07	67.71	69.88	68.02	na	59.16	68.39	70.21	63.87	61.41	61.18	na	65.54
May	62.06	67.73	70.00	68.60	na	60.07	69.21	72.55	64.05	62.72	62.32	na	66.39
Jun	63.61	71.90	72.51	69.43	na	61.44	70.74	74.28	67.99	64.77	62.38	na	66.17
Jul	67.73	77.36	78.47	73.50	na	64.99	74.40	78.81	73.70	69.65	66.49	na	70.22
Aug	65.91	71.29	73.73	72.72	na	63.55	71.80	75.55	69.34	66.60	66.42	na	70.12
Sep	71.94	77.42	79.10	76.90	na	69.86	77.16	79.33	74.88	72.63	56.40	na	61.01
Oct	76.33	83.10	84.03	81.92	na	73.99	81.98	85.56	79.74	77.30	51.53	na	57.32
Nov	86.23	93.22	94.20	90.75	na	83.96	90.95	96.22	89.92	87.17	52.31	na	57.37
Dec	84.37	91.85	93.11	89.97	na	82.51	90.72	94.93	89.12	86.31	55.23	na	59.35

Notes : Upto 2005, prices are averages of weakly fob quotations. As of 2006 based on daily quotations.

Source : OPEC Annual Statistical Bulletin, 2007.

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

(Average Unit Value, FOB)

Crude	Country	2000	2001	2002	2003	2004	2005	2006	2007
Brent	U.K	28.50	24.44	25.02	28.83	38.27	54.52	65.14	72.39
WTI	U.S.A	30.37	25.93	26.16	31.06	41.49	56.59	66.02	72.20
WTS	U.S.A	28.20	23.12	24.80	28.33	37.51	51.97	60.89	67.17
Louisiana Light	Louisiana	30.38	25.89	26.29	31.16	41.54	57.04	67.48	75.26
Dubai	UAE	26.24	22.80	23.85	26.76	33.69	49.54	61.52	68.27
Iranian Light	Iran	26.10	22.59	23.52	26.90	34.62	50.74	61.07	69.30
Iranian Heavy	Iran	25.71	22.06	23.10	26.35	33.03	48.40	59.13	67.68
Urals	Russia	27.07	23.11	23.80	27.07	34.13	50.32	61.22	69.16
Minas	Indonesia	28.88	24.06	25.62	29.50	36.96	54.18	65.18	73.42
Tapis	Malaysia	29.85	25.32	25.72	30.06	41.19	58.13	69.98	77.76

XIV.19 PETROLEUM PRODUCTS SPOT PRICES IN US $/bbl

(Average Unit Value, FOB)

Product	2000	2001	2002	2003	2004	2005	2006	2007
NW EUROPE								
Gasoline	34.41	28.83	28.57	34.87	47.27	62.82	72.87	81.78
Gas Oil	34.38	29.16	27.81	33.99	46.83	67.70	77.47	85.00
Jet/Kero	36.98	30.82	29.25	35.83	50.25	71.18	81.25	89.43
Naphtha	29.09	23.69	24.23	29.99	41.47	52.45	62.23	74.40
LSFO	23.74	19.52	21.81	25.79	25.02	39.18	45.51	53.42
HSFO	21.42	17.79	20.65	23.37	23.91	36.21	45.18	53.39
U.S.A								
Gasoline	36.10	31.00	30.33	37.04	49.61	65.65	76.68	86.35
Gas Oil	36.37	29.82	28.56	35.51	46.89	68.22	75.70	85.13
Jet/Kero	38.05	31.18	29.83	36.29	50.23	71.98	82.03	90.72
Naphtha	..	..	..	..	..	..	..	..
LSFO	25.05	20.70	22.55	27.46	27.96	41.64	46.05	54.07
HSFO	20.68	17.36	20.99	24.41	25.07	36.26	45.09	54.06
SINGAPORE								
Gasoline	32.64	27.43	28.05	34.69	47.23	62.38	73.20	82.82
Gas Oil	32.58	27.32	27.55	32.31	45.69	64.35	76.79	84.96
Jet/Kero	34.39	28.32	28.08	32.90	47.49	67.97	80.6	86.77
Naphtha	28.38	23.75	24.93	29.93	40.74	51.12	61.85	75.03
LSFO	25.83	21.83	23.80	28.11	32.86	45.08	50.61	58.27
HSFO	24.21	20.39	22.95	26.25	27.87	40.40	48.60	58.11

.. = Not Avaialble

Source : Energy Prices and Taxes, 1st Quarter of 2008. International Energy Agency Publication.

XIV. 20 NATURAL GAS PRICES FOR INDUSTRY AND HOUSEHOLD USE

US $ /10^7 kcal (GCV Basis)

Country	2000	2001	2002	2003	2004	2005	2006	2007*
A. FOR INDUSTRIAL USE								
Australia	NA	NA	NA	NA	NA	NA	NA	NA
Austria	NA	NA	NA	NA	NA	NA	NA	NA
Belgium	c	c	c	c	c	c	c	c
Canada	108.1	138.3	160.1	239.5	236.6	293.8	256.2	NA
Czech Repubic	400.8	417.0	396.7	408.1	391.5	486.7	635.2	561.5
Denmark	c	c	c	c	c	c	c	c
Finland	142.4	139.2	134.2	139.1	140.8	155.7	204.0	205.4
France	205.5	239.8	213.9	228.3	224.8	288.1	359.7	340.7
Germany	210.6	NA	NA	NA	NA	NA	NA	NA
Greece	310.8	307.2	290.9	284.8	269.2	358.2	NA	NA
Hungary	286.5	319.0	322.6	438.9	462.2	536.6	730.5	808.5
Ireland	128.6	161.5	194.2	203.2	233.8	294.4	368.1	c
Italy	c	c	c	c	277.5	323.7	416.9	NA
Japan	315.0	330.4	311.2	319.4	315.9	341.2	407.1	NA
Korea	NA	NA	NA	NA	492.9	509.4	618.7	697.6
Mexico	232.2	242.0	180.9	324.7	476.4	545.7	518.5	504.0
Netherlands	202.2	216.5	193.5	212.4	NA	NA	NA	NA
New Zealand	91.2	97.0	96.4	121.9	123.2	153.7	189.3	NA
Poland	313.6	381.6	386.3	371.8	352.4	382.7	481.9	535.5
Portugal	NA	NA	356.8	360.8	321.7	387.3	452.0	446.4
Slovak Republic	295.8	328.0	378.4	485.3	454.7	518.8	650.9	600.5
Spain	258.9	265.8	239.4	240.0	229.0	266.6	373.4	360.2
Switzerland	203.0	272.0	245.4	242.7	250.0	288.1	358.6	419.5
Turkey	386.3	575.3	531.9	445.2	405.0	470.3	559.8	590.7
U.K	108.6	155.5	155.6	157.4	175.1	253.3	319.7	NA
U.S.A	171.0	198.6	154.4	223.8	252.0	325.2	302.0	294.5
OECD Europe	211.9	NA	NA	NA	NA	NA	NA	NA
OECD	182.2	209.7	180.1	238.7	268.1	333.5	348.2	NA
A. FOR HOUSEHOLD USE								
Australia	NA	NA	NA	NA	NA	NA	NA	NA
Austria	419.3	449.0	449.3	591.3	632.6	672.3	717.1	801.9
Belgium	495.8	NA	NA	NA	NA	NA	NA	NA
Canada	240.1	373.8	301.6	387.4	382.5	428.9	453.6	NA
Czech Republic	581.4	623.0	628.1	646.6	634.9	714.1	858.4	827.9
Denmark	706.3	697.1	683.8	690.1	751.2	881.8	NA	NA
Finland	173.7	244.2	213.2	220.0	223.0	244.0	289.7	294.2
France	401.0	489.9	498.9	492.5	466.8	515.3	616.9	646.5
Germany	418.5	NA	NA	NA	NA	NA	NA	NA
Greece	407.3	430.0	487.6	504.1	490.9	688.8	NA	NA
Hungary	408.6	388.5	394.6	453.6	360.7	380.6	483.2	851.7
Ireland	389.6	397.3	397.6	439.7	456.7	517.7	724.5	735.0
Italy	c	c	c	c	718.8	757.5	859.7	NA
Japan	900.3	949.8	946.8	991.7	1023.3	1058.5	1158.2	NA
Korea	NA	NA	NA	NA	655.1	685.2	801.3	902.5
Lexembourg	317.8	353.7	309.6	322.0	321.2	416.7	485.9	NA
Mexico	NA	NA	NA	NA	864.9	965.5	940.0	917.0
Netherlands	436.3	495.0	537.8	575.6	605.3	717.3	801.4	874.8
New Zealand	547.3	537.3	498.5	655.7	750.4	768.8	788.3	NA
Poland	583.5	669.6	751.8	718.4	725.8	755.1	908.6	983.4
Portugal	NA	NA	975.6	996.0	1023.4	1096.4	1153.6	1119.3
Slovak Republic	314.8	354.8	358.3	503.6	657.9	756.4	950.9	938.7
Spain	725.4	767.2	718.9	699.0	683.0	718.0	796.2	822.0
Switzerland	374.5	450.0	434.9	426.3	434.9	479.9	562.8	630.7
Turkey	572.4	696.3	628.6	516.0	457.5	559.2	659.4	696.1
U.K	303.9	317.4	336.9	336.2	365.8	408.5	536.3	607.5
U.S.A	321.5	369.1	303.8	365.5	412.8	492.1	528.2	509.5
OECD Europe	404.2	NA	NA	NA	NA	NA	NA	NA
OECD	372.4	419.3	383.5	426.6	484.4	550.9	619.8	NA

NA: Not Available; GCV: Gross Caloific Value; 0.95 tonne of oil is approximatly 10^7 kcal. of Gas
c: price is confidential *: Provisional

Source: Energy Prices and Taxes, 1st Quarter of 2008. International Energy Agency Publication.

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

(Average Unit Value, CIF)

Country	1999	2000	2001	2002	2003	2004	2005	2006	2007*
IEA**	17.26	28.00	23.65	24.19	28.38	36.38	50.67	61.80	69.33
IEA Europe	17.32	27.89	23.92	24.30	28.39	36.53	51.74	62.77	70.81
Australia	18.38	30.79	26.61	25.80	31.24	40.93	56.71	66.71	77.13
Austria	17.54	29.39	25.32	24.64	29.59	38.21	53.15	64.44	71.86
Belgium	17.33	27.87	24.20	24.35	27.72	35.35	50.06	61.06	70.35
Canada	17.85	29.10	24.87	24.97	29.53	38.13	52.37	64.33	70.04
France	17.45	28.18	24.13	24.63	28.87	37.61	52.74	63.69	72.22
Germany	17.51	28.09	24.15	24.40	28.44	36.65	52.30	63.29	71.60
Greece	16.64	26.95	23.22	24.08	27.17	34.53	50.33	60.97	69.93
Italy	17.10	27.77	23.87	24.34	28.58	36.60	51.33	62.50	70.20
Japan	17.38	28.72	25.01	24.96	29.26	36.59	51.57	64.03	70.09
Korea	16.91	28.22	24.87	24.12	28.80	36.15	50.19	62.82	70.01
Netherlands	16.97	27.59	23.48	23.99	27.67	35.02	50.00	61.47	68.74
New Zealand	18.16	29.95	26.14	25.89	31.00	41.71	56.07	67.36	73.84
Spain	16.99	27.16	23.32	23.95	28.13	36.03	50.54	60.99	68.66
Sweden	17.68	28.13	24.03	23.86	28.60	36.47	51.78	62.50	70.13
Turkey	16.07	26.61	NA	NA	NA	NA	NA	NA	NA
U.K	18.01	28.45	24.45	24.58	29.13	37.75	53.79	65.00	73.80
U.S.A	17.06	27.54	22.07	23.52	27.66	35.86	48.82	59.15	66.74

**: Computed across the countries of the region using import volumes as current weights.
Korea and Czech Republic are included since January 2001;Hungry is not included.
For reasons as confidentially,data for some countries are not listed separately.
*: Provisional

Source: International Energy Agency's "Energy Prices and Taxes" 1st Quarter of 2008.

XIV. 22 DEVELOPMENT OF SPOT PRICES OF KEY OPEC CRUDE OILS

(US $/bbl)

Year/Month	Iran	Kuwait	Nigeria Bonny	Saudi Arabia		UAE
	Light 33.9	Export 31.4	Light 36.7	Light 34.2	Heavy 28.0	Dubai 32.4
2005						
January	39.87	38.55	44.01	38.26	33.41	37.78
February	40.56	40.09	45.43	40.10	35.62	39.35
March	48.50	46.42	53.15	46.85	41.81	45.60
April	48.42	47.89	53.18	48.68	43.33	47.24
May	45.53	46.36	50.23	47.09	42.21	45.68
June	52.37	51.15	55.93	52.47	48.34	51.37
July	53.86	51.31	58.40	53.46	48.83	52.78
August	60.41	55.18	65.49	58.24	52.02	56.55
September	58.74	54.60	65.60	57.63	51.57	56.41
October	54.38	51.76	60.74	54.65	49.03	54.20
November	51.31	49.19	57.18	51.55	47.40	51.63
December	53.20	50.83	57.91	52.84	49.16	53.22
2006						
January	58.99	56.52	64.04	58.43	54.91	58.56
February	57.00	55.01	62.12	56.56	53.52	57.61
March	58.77	55.80	63.80	57.54	54.08	57.82
April	65.14	62.20	71.80	63.85	60.74	64.14
May	64.67	62.80	71.75	64.83	60.88	65.07
June	64.30	62.37	70.22	65.03	59.84	65.22
July	68.81	66.35	75.49	69.06	63.74	69.17
August	68.49	66.02	75.29	68.76	63.57	68.92
September	58.56	56.75	63.87	59.72	54.56	59.82
October	55.42	53.02	58.75	55.64	50.49	56.36
November	55.39	53.56	60.32	55.53	51.54	56.72
December	56.98	55.69	64.28	57.70	53.72	58.69
2007						
January	49.12	48.42	56.18	50.86	46.15	51.92
February	53.64	52.33	59.58	54.29	50.21	55.61
March	57.92	56.22	64.60	58.08	54.40	58.80
April	63.87	61.07	70.01	62.83	59.16	63.97
May	64.05	62.06	70.03	64.15	60.07	64.59
June	67.99	63.61	74.45	65.92	61.44	65.79
July	73.70	67.73	79.21	71.05	64.99	69.49
August	69.34	65.91	73.34	68.76	63.55	67.36
September	74.88	71.94	79.87	74.28	69.86	73.36
October	79.74	76.33	85.60	79.31	73.99	77.12
November	89.92	86.23	93.32	89.02	83.96	86.96
December	89.12	84.37	93.55	86.29	82.51	85.79

Source : OPEC Monthly Bulletins 2007

XIV.23 DEVELOPMENT OF SPOT PRICES OF MAJOR PETROLEUM PRODUCTS IN KEY TRADING CENTRES OF THE WORLD DURING 2005, 2006 AND 2007

(US$bbl

Market/Product	2006					2007					2008		
	Jan	Mar	June	Sept	Dec	Jan	Mar	June	Sept	Dec	Jan	Mar	June
NAPHTHA:													
North Europeon Market, FOB Rotterdam	73.50	69.12	80.63	68.51	71.69	66.59	79.22	87.58	91.24	110.06	108.66	113.53	143.54
South Europeon Market, FOB Italy	59.23	57.70	67.45	56.94	59.44	54.77	65.29	72.68	77.52	92.01	91.81	95.98	119.81
Carribean Cargoes	67.61	71.08	78.88	61.91	63.97	57.18	75.60	78.14	84.08	106.60	94.38	104.32	134.09
Singapore Cargoes	58.26	59.82	68.06	57.32	60.54	56.79	70.56	73.12	75.28	92.24	93.12	97.54	125.18
Middle East FOB	64.19	60.39	70.37	59.86	62.45	58.19	69.14	76.39	79.57	95.88	94.67	98.90	124.91
GASOLINE (Premium Unl. 95)													
North Europeon Market, FOB Rotterdam	67.85	68.03	84.91	64.54	64.58	65.11	82.57	na	na	105.68	95.82	108.91	150.09
South Europeon Market, FOB Italy	na	na	na	na	na	na	na	na	na	106.35	107.01	117.31	151.71
US East Coast, NewYork (Unl.regular 87)	72.61	73.97	86.79	66.56	69.62	59.52	80.96	na	na	97.92	98.88	106.38	139.12
Singapore Cargoes	66.78	69.64	82.76	65.86	68.16	61.59	76.62	84.79	82.51	98.38	100.49	109.66	140.23
JET KERO													
North Europeon Market, FOB Rotterdam	76.16	76.51	87.06	79.71	78.27	70.78	76.82	87.00	93.42	111.11	109.32	134.00	166.50
US East Coast, New York	77.00	79.97	86.56	77.24	77.21	70.07	78.39	88.32	97.29	111.68	111.81	136.96	164.26
Carribean Cargoes	77.25	79.53	86.56	77.24	77.21	70.10	78.27	88.28	96.31	110.05	110.12	131.98	162.69
Singapore Cargoes	77.02	75.66	88.22	76.92	76.90	70.10	75.02	83.75	90.44	108.31	106.17	125.31	164.76
Middle East FOB	72.85	73.73	83.38	77.31	74.72	66.76	72.24	81.19	87.89	104.89	102.90	122.63	160.38
GAS OIL/Diesel													
North Europeon Market, FOB Rotterdam	73.79	77.42	86.13	77.31	75.60	67.79	76.23	85.50	94.83	109.94	108.70	133.01	166.80
South Europeon Market, FOB Italy	74.58	77.59	85.85	77.33	75.64	66.93	74.98	85.44	95.31	111.52	109.47	134.27	167.17
US East Coast, New York	74.01	78.53	88.62	73.96	74.46	66.13	78.14	87.29	95.23	109.23	107.35	132.13	161.37
Carribean Cargoes	73.77	74.98	81.20	72.46	70.72	63.61	72.12	83.37	91.46	106.60	110.58	128.77	164.35
Singapore Cargoes	77.61	82.11	89.13	77.75	74.14	69.71	75.94	85.67	93.78	111.33	108.94	130.49	170.00
Middle East FOB	64.95	70.17	82.91	72.42	66.90	63.00	70.52	79.09	88.02	102.07	102.23	123.32	161.38
FUEL OIL													
North Europeon Market (1%s)	45.19	45.37	44.65	42.04	37.32	36.04	39.24	46.72	54.49	75.17	74.81	77.69	101.66
South Europeon Market,(1%s) FOB italy	47.98	47.73	46.95	40.94	38.42	34.63	41.45	52.59	58.59	73.12	73.04	77.08	101.76
US East Coast, New York (1%s)	na	54.13	55.98	52.32	51.73	45.71	55.10	na	67.22	88.12	89.99	91.08	123.89
Carribean Cargoes (2%s)	40.99	42.78	43.60	35.88	35.92	32.07	38.63	48.18	54.06	65.77	65.23	68.09	83.45
Singapore Cargoes (380 Cst)	45.33	48.89	48.46	42.24	40.34	40.24	45.48	53.03	58.15	70.89	70.56	73.86	94.58
Singapore Cargoes (180 Cst)	46.72	49.43	49.68	43.25	41.47	41.23	46.26	53.37	58.90	70.37	70.04	74.57	96.23
Middle East (180 Cst)	40.82	46.93	45.71	38.65	38.38	36.91	42.77	49.86	55.48	65.52	66.01	70.53	89.79

Source : OPEC Monthly Statistical Bulletin

XIV.24 WORLD SURVEY OF SELECTED PETROLEUM PRODUCTS PRICES IN 2007

Country	US $ Exchange Rate in National Currencies	Premium Leaded Gasoline (US$/Ltr)	Automotive Diesel Oil Non-commercial use (US$/Ltr)	Heavy Fuel Oil For Industry (US$/tonne)	Light Fuel Oil For Household Use (US$/1000Ltr)	Light Fuel Oil For Industry Use
1	2	3	4	5	6	7
Australia	1.20	..	1.093	..	..	..
Austria	0.73	NA	1.418	..	910.4	649.7
Belgium	0.73	NA	1.499	NA	796.9	658.6
Canada	1.07	NA	..	399.7	789.9	580.8
Czech Repubic	20.29	NA	1.415	285.5	844.8	636.8
Denmark	5.44	NA	1.517	..	1395.5	819.7
Finland	0.73	NA	1.395	..	870.7	713.7
France	0.73 ..		1.490	407.9	885.7	691.7
Germany	0.73	NA	1.601	..	806.1	677.4
Greece	0.73	..	..	..	..	..
Hungary	183.60	NA	1.436	..	NA	..
Ireland	0.73	NA	1.479	442.7	971.9	756.6
Italy	0.73	NA	1.593	..	1528.5	1273.8
Japan	117.80	NA	1.009	477.1	674.0	509.0
Korea	929.00	..	1.367	551.9	1002.6	1009.9
Luxembourg	0.73	NA	1.281	NA	739.4	675.3
Mexico	10.93	NA	0.533	259.3	..	331.7
Netherlands	0.73	NA	1.503	NA	1217.3	..
New Zealand	1.36	NA	0.769	461.5	..	463.4
Norway	5.86	2.091	1.827	NA	1151.4	921.1
Poland	2.76	NA	1.411	354.1	897.3	697.8
Portugal	0.73	1.900	1.498	NA	991.8	..
Slovak Republic	24.68	NA	1.531	NA	..	644.0
Spain	0.73	..	1.311	..	847.9	731.0
Sweden	6.76	NA	1.629	NA	1485.6	669.0
Switzerland	1.20	NA	1.473	NA	660.2	586.4
Turkey	1.30	2.191	1.771	786.0	1700.0	..
U.K	0.50	..	1.936	NA	800.5	..
U.S.A	1.00	NA	0.762	388.3	708.9	542.7
OECD Europe		..	1.553	..	898.6	..
Total OECD		..	1.189	..	820.1	597.5

.. : not available NA : Not Applicable

Source : International Energy Agency's "Energy Prices and Taxes" 1st Quarter of 2008.

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

(U.S.Cents/U.S.Gallon)

Countries/Ports	1990	1995	2000	2004	2005*	2006*	2007*	2008*
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
Australia								
Perth	NA	NA	NA	NA	NA	NA	NA	NA
France								
Paris	66.24	60.94	91.99	108.26	179.30	199.01	200.10	333.80
Germany								
Frankfurt	67.96	62.29	NA	NA	177.52	192.88	192.99	330.03
Netherlands								
Amsterdam	65.22	NA	NA	NA	NA	NA	NA	NA
Italy								
Rome	68.48	82.03	NA	NA	NA	NA	NA	NA
Kenya								
Nairobi	NA	NA	NA	NA	182.81	204.61	202.11	333.06
Malaysia								
Kualalampur	NA	NA	NA	NA	164.71	186.94	185.56	303.74
Singapore								
Paya Lebar/Changi	63.10	57.87	78.23	97.2	169.25	187.59	186.71	305.59
Switzerland								
Geneva	67.93	64.71	NA	NA	NA	NA	NA	NA
U.A.E								
Abu Dhabi	NA	NA	NA	NA	176.59	196.63	193.47	316.21
Dubai	78.11	80.00	108.25	110.98	184.10	206.02	202.66	319.89
U.K								
London (Heathrow)	66.37	57.00	87.65	104.43	176.25	196.68	200.64	333.43
Kuwait	NA	NA	NA	NA	179.97	200.16	197.00	285.94
New York (1)	64.98	52.74	NA	104.32	169.48	203.46	206.49	320.68
Japan								
Tokyo	85.75	72.03	100.70	111.82	177.79	197.52	195.39	314.16
India								
Mumbai	89.59	93.00	120.00	156.73	259.65	230.08	241.57	384.85
Delhi	91.28	62.93	120.00	160.79	203.07	233.10	243.63	387.40
Madras	NA	NA	124.00	166.41	197.58	228.73	238.47	381.12

(1) : Air India contract Price NA : Not available *: Average price.

Source : Air India

XIV. 26 INTERNATIONAL PETROLEUM PRICE INDEX DURING 1995 TO 2007

(US$/bbl))

Petroleum Spot	1990 (1990 =100)	1995	1996	1997	1998	1999	2000	Price 2001	2002	2003	2004	2005	2006	2007
U.K. BRENT 38.0/0.26	20.89	66.92	87.67	80.73	53.83	75.86	120.46	117.09	119.82	137.91	183.01	260.60	311.90	347.30
USA WEST TAXAS INTERMEDIATE, 40.0/0.4	24.46	75.31	90.76	84.06	58.71	78.90	124.16	106.30	106.83	127.11	169.42	231.00	269.99	295.54
USA ANS 27.0/1.06	21.92	78.38	93.66	86.36	57.03	81.07	129.56	106.48	112.91	135.17	177.05	243.70	na	na
UAE DUBAI FATEH 32.5/1.43	20.38	79.00	91.17	88.81	59.62	84.59	127.88	110.69	116.93	131.35	164.87	242.20	301.96	335.53
IRAN LIGHT 33.9/1.4	20.64	78.34	92.2	88.37	57.99	83.58	129.60	110.95	113.95	130.28	167.64	245.40	295.88	335.76
IRAN HEAVY 31.0/1.6	19.91	81.67	92.87	90.41	57.51	85.03	130.69	108.84	115.97	132.24	166.05	241.00	299.69	na
INDONESIA MINAS 33.0/0.1	23.26	75.84	88.99	82.80	52.92	76.70	123.56	106.36	110.06	126.91	158.34	232.20	280.44	324.33
NIGERIA BONNY LIGHT, 36.7/0.1	24.16	71.77	87.91	80.30	52.86	74.79	117.92	101.41	104.10	119.04	158.24	230.40	276.66	308.32
MEXICO ISTHUMAS, 31.8/1.51	22.05	75.87	93.65	82.81	54.78	78.41	126.08	100.77	109.39	128.12	167.66	228.30	271.52	306.49
RUSSIA URALS 36.1/2.52	22.54	73.74	89.22	81.10	52.26	76.49	117.92	101.91	105.68	119.92	152.93	225.30	272.37	308.56
MALAYSIA TAPIS 44.3/0.2	26.91	75.96	91.40	86.88	57.35	78.49	123.50	85.36	88.52	100.45	152.88	215.30	260.27	289.37
AUSTRALIA GIPPSLAND, 46.0/0.13	23.62	73.37	89.03	84.04	56.44	78.32	124.47	106.77	107.83	126.38	171.80	237.80	287.55	319.86
SAUDI ARABIA ARAB HEAVY, 28.0/3.0	18.77	83.00	98.24	91.48	58.07	87.59	134.47	116.68	124.56	140.81	165.90	241.20	302.77	341.93

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, 2007.

XIV.27 TANKER FLEET DEVELOPMENT IN OPEC MEMBERS, 2004 - 2007 (1,000 DWT)

Country	2004		2005		2006		2007	
	NO.	DWT	NO.	DWT	NO.	DWT	NO.	DWT
Algeria	1	23.0	1	23.0	1	23.0	1	23.0
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-
Indonesia	29	994.0	29	994.0	29	994.0	40	1,368.0
I.R.Iran	32	6,050.0	32	6,050.0	32	6,050.0	29	6,202.0
Iraq	1	37.0	1	37.0	1	37.0	1	37.0
Kuwait	22	3,176.0	19	2,941.0	18	2,802.0	22	3,241.0
S.P. Libyan,A.J.	6	275.0	6	275.0	6	275.0	8	627.0
Nigeria	2	409.0	2	409.0	2	409.0	2	409.0
Qatar	6	438.0	6	438.0	6	438.0	6	528.0
Saudi Arabia	19	1,721.0	19	1,721.0	41	10,055.0	41	10,055.0
UAE	7	275.0	9	400.0	6	218.0	6	218.0
Venezuela	21	1,348.0	21	1,348.0	21	1,348.0	21	1,348.0
Total OPEC	146	14,747.0	145	14,636.0	163	22,649.0	177	24,056.0
Total World (a	3,670	316,117.0	3,892	340,214.0	4,177	359,818.0	4,418	375,591.0
OPEC Percentage		4.6		4.3		6.3		6.4

XIV.28 WORLD TANKER FLEET BY AGE, (1,000 DWT)

	1993-1997		1998-2002		2003-2007		TOTAL	
	No.	DWT.	No.	DWT.	No.	DWT.	No.	DWT
10,000-19,999	99	1,368.3	147	2,226.5	333	4,984.7	837	12,495.4
20,000-29,999	18	511.3	27	638.4	42	1,061.4	267	7,125.5
30,000-39,999	62	2,219.3	123	4,323.7	222	8,029.3	551	19,825.7
40,000-49,999	87	3,868.1	132	6,050.9	354	16,082.5	733	32,999.5
50,000-59,999	2	110.2	1	59.7	75	3,856.2	109	5,707.6
60,000-69,999	20	1,353.5	21	1,415.1	34	2,245.2	158	10,403.3
70,000-74,999	na	na	15	1078.7	136	9,907.9	154	11,199.5
75,000-89,999	8	680.4	9	738.5	21	1,579.5	109	9,023.2
90,000-99,999	66	6,369.8	21	2,070.2	10	954.5	181	17,457.4
100,000-109,999	20	2,105.4	106	11,206.5	168	17,704.3	319	33,622.3
110,000-119,999	1	110.5	22	2,461.6	119	13,515.9	151	17,094.6
120,000-129,999	7	868.5	9	1,134.3	na	na	31	3,886.6
130,000-139,999	9	1,210.8	1	130.0	3	411.6	22	2,986.0
140,000-149,999	25	3,702.2	26	3,850.5	20	2,931.3	102	15,011.2
150,000-159,999	9	1,380.9	51	7,968.1	69	10,837.2	153	23,888.5
160,000-199,999	na	na	11	1796.2	36	5,979.9	49	8,128.3
200,000-229,999	na	na	na	na	na	na	2	429.7
230,000-259,999	19	4,922.2	5	1,300.0	1	259.8	64	16,321.9
260,000-299,999	52	15,029.3	59	17,254.5	38	11,258.0	191	55,317.9
300,000-349,999	41	12421.5	82	25149.6	104	32,112.1	231	70,897.1
350,000 And Over	na		3	1326.9	1	442.5	4	1,769.4
Total World	**545**	**58,232.1**	**871**	**92,179.9**	**1786**	**144,153.8**	**4,418**	**375,590.5**

Source : Based on data from OPEC Annual Statistical Bulletin, 2007.

XIV.29 INTER-AREA TOTAL OIL MOVEMENTS DURING 2001 - 2007

Thousand barrels daily

To/From	2001	2002	2003	2004	2005	2006	2007	Change 2007 over 2006	%share of total for 2007
Imports									
US	11618	11357	12254	12898	13525	13612	13632	0.1%	24.9%
Europe #	11531	11895	11993	12538	13261	13461	13953	3.6%	25.4%
Japan	5202	5070	5314	5203	5225	5201	5032	-3.2%	9.2%
Rest of World *	16436	16291	17191	18651	19172	20287	22207	9.5%	40.5%
TOTAL WORLD	**44787**	**44613**	**46752**	**49290**	**51182**	**52561**	**54824**	**4.3%**	100.0%
Exports									
US	910	904	921	991	1129	1317	1439	9.3%	2.6%
Canada	1804	1959	2096	2148	2201	2330	2457	5.5%	4.5%
Mexico	1882	1966	2115	2070	2065	2102	1975	-6.0%	3.6%
South & Central America	3143	2965	2942	3233	3528	3681	3570	-3.0%	6.5%
Europe	1947	2234	2066	1993	2149	2173	2273	4.6%	4.1%
Former Soviet Union @	4679	5370	6003	6440	7076	7155	8334	16.5%	15.2%
Middle East	19098	18062	18943	19630	19821	20204	19680	-2.6%	35.9%
North Africa	2724	2620	2715	2917	3070	3225	3336	3.4%	6.1%
West Africa	3182	3134	3612	4048	4358	4704	4830	2.7%	8.8%
Asia Pacific £	3914	3848	3978	4189	4243	4312	5274	22.3%	9.6%
Rest of World *	1506	1551	1361	1631	1542	1359	1656	21.8%	3.0%
TOTAL WORLD	**44789**	**44613**	**46752**	**49290**	**51182**	**52561**	**54824**	**4.3%**	100.0%

*: Includes unidentified trade.

:Prior to 1993, excludes Central Europe (Albania, Bulgaria, Czech Republic, Former Republic of Yugoslavia, Hungary, Poland, Romania, Slovakia).

@: Prior to 1993, includes Central Europe and excludes movements between Former Soviet Union and Central Europe.

£: Excludes Japan. Prior to 1993, excludes trade between Singapore and other Asia Pacific countries.

n/a: not available.

Note: Annual changes and shares of total are calculated using thousand barrels daily figures.

Source: BP Statistical Review of World Energy, June 2008

XIV.30 PRIMARY ENERGY CONSUMPTION BY FUEL* DURING 2007
SOME INTERNATIONAL COMPARISIONS

Million tonnes oil equivalent

	Oil	Natural Gas	Coal	Nuclear Energy	Hydro electric	2007 Total
US	943.1	595.7	573.7	192.1	56.8	2361.4
Canada	102.3	84.6	30.4	21.1	83.3	321.7
Mexico	89.2	48.7	9.2	2.4	6.1	155.5
Total North America	**1134.7**	**728.9**	**613.3**	**215.6**	**146.2**	**2838.6**
Argentina	23.5	39.7	0.4	1.6	8.5	73.7
Brazil	96.5	19.8	13.6	2.8	84.1	216.8
Chile	16.0	4.0	3.3	-	5.4	28.6
Colombia	10.3	6.9	2.6	-	10.1	30.0
Ecuador	8.1	0.2	-	-	2.2	10.6
Peru	6.6	2.4	0.4	-	4.4	13.8
Venezuela	26.8	25.6	0.1	-	19.0	71.4
Other S. & Cent. America	64.1	22.4	2.0	-	19.4	107.9
Total S. & Cent. America	**252.0**	**121.1**	**22.4**	**4.4**	**153.1**	**552.9**
Austria	13.5	8.0	3.2	-	7.9	32.6
Azerbaijan	4.5	7.4	^	-	0.5	12.5
Belarus	7.0	17.5	0.1	-	^	24.5
Belgium & Luxembourg	41.2	15.2	5.6	10.9	0.6	73.6
Bulgaria	5.4	2.8	8.1	3.3	0.8	20.4
Czech Republic	9.9	8.0	18.9	5.9	0.6	43.3
Denmark	9.3	4.1	4.7	-	^	18.2
Finland	10.6	3.7	4.6	5.4	3.2	27.4
France	91.3	37.7	12.0	99.7	14.4	255.1
Germany	112.5	74.5	86.0	31.8	6.2	311.0
Greece	21.6	3.6	8.1	-	0.7	34.1
Hungary	7.6	10.6	2.9	3.3	^	24.5
Iceland	1.0	-	0.1	-	1.9	3.0
Republic of Ireland	9.4	4.3	1.1	-	0.3	15.0
Italy	83.3	70.0	17.5	-	8.8	179.6
Kazakhstan	10.6	17.8	29.9	-	1.8	60.2
Lithuania	2.9	3.4	0.2	2.2	0.2	9.0
Netherlands	48.5	33.4	8.8	1.0	^	91.8
Norway	10.1	3.8	0.4	-	30.6	45.0
Poland	24.3	12.3	57.1	-	0.7	94.4
Portugal	14.4	3.9	3.3	-	2.3	24.0
Romania	10.8	14.7	9.0	1.6	3.6	39.7
Russian Federation	125.9	394.9	94.5	36.2	40.5	692.0
Slovakia	3.8	5.3	4.0	3.5	1.0	17.5
Spain	78.7	31.6	20.1	12.5	7.4	150.3
Sweden	16.8	0.9	2.2	15.3	15.0	50.2
Switzerland	11.3	2.6	0.4	6.3	8.3	28.9
Turkey	31.1	31.6	31.0	-	8.0	101.7
Turkmenistan	4.7	19.7	-	-	-	24.4
Ukraine	15.3	58.2	39.3	20.9	2.3	136.0
United Kingdom	78.2	82.3	39.2	14.1	2.1	215.9

Contd...

XIV.30 PRIMARY ENERGY CONSUMPTION BY FUEL* DURING 2007
SOME INTERNATIONAL COMPARISIONS

Million tonnes oil equivalent

	Oil	Natural Gas	Coal	Nuclear Energy	Hydro electric	2007 Total
Uzbekistan	5.8	41.1	1.4	-	1.4	49.6
Other Europe & Eurasia	27.7	15.1	19.9	1.9	17.3	81.9
Total Europe & Eurasia	**949.4**	**1040.1**	**533.7**	**275.6**	**188.6**	**2987.5**
Iran	77.0	100.7	1.1	-	4.1	182.9
Kuwait	14.0	11.3	-	-	-	25.4
Qatar	4.1	18.5	-	-	-	22.6
Saudi Arabia	99.3	68.3	-	-	-	167.6
United Arab Emirates	22.0	38.9	-	-	-	60.9
Other Middle East	77.0	31.8	4.9	-	1.0	114.8
Total Middle East	**293.5**	**269.4**	**6.1**	**-**	**5.1**	**574.1**
Algeria	12.0	22.0	0.7	-	0.1	34.7
Egypt	30.6	28.8	0.9	-	2.9	63.2
South Africa	25.8	-	97.7	3.0	1.2	127.8
Other Africa	69.8	24.4	6.5	-	18.0	118.8
Total Africa	138.2	75.2	105.9	3.0	22.2	344.4
Australia	42.2	22.6	53.1	-	3.8	121.8
Bangladesh	5.0	14.6	0.4	-	0.3	20.3
China	368.0	60.6	1311.4	14.2	109.3	1863.4
China Hong Kong SAR	16.9	2.7	7.0	-	-	26.5
India	128.5	36.2	208.0	4.0	27.7	404.4
Indonesia	54.4	30.4	27.8	-	2.0	114.6
Japan	228.9	81.2	125.3	63.1	18.9	517.5
Malaysia	23.6	25.4	6.9	-	1.4	57.4
New Zealand	7.0	3.4	1.7	-	5.3	17.4
Pakistan	17.9	27.7	4.6	0.5	7.5	58.3
Philippines	13.9	3.1	5.9	-	1.9	24.9
Singapore	47.4	5.9	-	-	-	53.4
South Korea	107.6	33.3	59.7	32.3	1.1	234.0
Taiwan	52.5	10.6	41.1	9.2	1.8	115.1
Thailand	43.0	31.8	8.9	-	1.8	85.6
Other Asia Pacific	28.4	13.5	34.4	-	11.1	87.3
Total Asia Pacific	**1185.1**	**403.1**	**1896.2**	**123.4**	**194.0**	**3801.8**
TOTAL WORLD	**3952.8**	**2637.7**	**3177.5**	**622.0**	**709.2**	**11099.3**
of which: European Union	703.9	433.7	317.9	211.7	77.3	1744.5
OECD	2249.0	1316.9	1184.3	520.6	295.6	5566.4
Former Soviet Unic	183.8	568.7	166.2	59.9	56.5	1035.2
Other EMEs	1520.0	752.1	1827.0	41.5	357.1	4497.8

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

^ Less than 0.05.

Note: Oil consumption is measured in million tonnes; other fuels in million tonnes of oil equivalent.

Source: BP Statistical review of World Energy, June 2008

XIV.31 PER CAPITA PRIMARY ENERGY CONSUMPTION DURING 2007 SOME INTERNATIONAL COMPARISIONS

(Kg oil equivalent)

Country/Region	Oil	Natural	Coal	Nuclear	Hydro	2007 Total
US	3,153	1,992	1,918	642	190	7,895
Canada	3,138	2,594	933	648	2,555	9,869
Mexico	824	449	85	22	57	1,436
Total North America	2,579	1,657	1,394	490	332	6,451
Argentina	603	1,018	10	41	219	1,891
Brazil	516	106	73	15	450	1,160
Chile	975	243	202	-	327	1,746
Colombia	220	148	57	-	215	640
Ecuador	612	18	-	-	169	799
Peru	234	85	14	-	155	488
Venezuela	992	948	2	-	703	2,646
Other S. & Cent. America	379	132	12	-	115	637
Total S. & Cent. America	478	230	42	8	290	1,049
Austria	1,629	965	387	-	948	3,928
Azerbaijan	532	874	-	-	63	1,469
Belarus	719	1,800	11	-	-	2,530
Belgium & Luxembourg	3,750	1,383	510	992	52	6,687
Bulgaria	704	362	1,049	430	106	2,651
Czech Republic	962	777	1,833	574	55	4,200
Denmark	1,731	759	875	-	-	3,367
Finland	2,003	689	861	1,022	599	5,175
France	1,492	616	196	1,628	235	4,168
Germany	1,365	904	1,044	386	76	3,774
Greece	1,950	327	728	-	67	3,072
Hungary	757	1,051	286	329	-	2,428
Iceland	3,369	-	288	-	6,365	10,022
Republic of Ireland	2,242	1,021	254	-	62	3,579
Italy	1,412	1,187	296	-	150	3,045
Kazakhstan	693	1,163	1,957	-	118	3,931
Lithuania	854	1,005	73	654	64	2,650
Netherlands	2,959	2,039	539	58	-	5,597
Norway	2,152	818	95	-	6,513	9,579
Poland	637	323	1,500	-	18	2,477
Portugal	1,359	368	312	-	221	2,260
Romania	500	682	417	73	167	1,839
Russian Federation	885	2,775	664	254	285	4,863
Slovakia	701	979	736	643	191	3,249
Spain	1,730	695	442	274	163	3,303
Sweden	1,847	103	243	1,677	1,647	5,516
Switzerland	10,282	2,401	360	5,713	7,558	26,313
Turkey	423	428	421	-	109	1,381
Turkmenistan	888	3,723	-	-	-	4,610
Ukraine	328	1,243	839	447	49	2,907
United Kingdom	1,293	1,360	647	233	35	3,569
Uzbekistan	220	1,567	53	-	53	1,892
Other Europe & Eurasia	166	90	119	11	103	490
Total Europe & Eurasia	948	1,039	533	275	188	2,984

Contd.....

XIV.31 PER CAPITA PRIMARY ENERGY* CONSUMPTION DURING 2007
SOME INTERNATIONAL COMPARISIONS

(Kg oil equivalent)

Country/Region	Oil	Natural Gas	Coal	Nuclear Energy	Hydro electric	2007 Total
Iran	1,095	1,432	16	-	58	2,601
Kuwait	5,195	4,200	-	-	-	9,395
Qatar	5,156	23,063	-	-	-	28,219
Saudi Arabia	4,119	2,834	-	-	-	6,953
United Arab Emirates	4,498	7,935	-	-	-	12,432
Other Middle East	1,051	434	67	-	14	1,566
Total Middle East	1,667	1,530	34	-	29	3,260
Algeria	357	655	20	-	-	1,035
Egypt	406	382	12	-	38	839
South Africa	545	-	2,067	63	26	2,701
Other Africa	91	32	9	-	23	155
Total Africa	150	81	115	3	24	373
Australia	2,048	1,099	2,579	-	184	5,910
Bangladesh	34	100	3	-	2	139
China	281	46	1,000	11	83	1,421
China Hong Kong SAR	2,410	381	995	-	-	3,786
India	115	32	185	4	25	361
Indonesia	241	135	123	-	9	508
Japan	1,791	635	981	494	148	4,049
Malaysia	877	945	258	-	53	2,133
New Zealand	1,705	823	415	-	1,303	4,246
Pakistan	108	167	28	3	45	352
Philippines	161	36	69	-	22	288
Singapore	10,543	1,322	-	-	-	11,865
South Korea	2,218	686	1,230	667	24	4,824
Taiwan	2,303	465	1,802	402	78	5,049
Thailand	660	488	136	-	28	1,312
Other Asia Pacific	36	17	44	-	14	111
Total Asia Pacific	414	141	663	43	68	1,328
TOTAL WORLD	603	402	485	95	108	1,693
of which: European Union	1,805	1,112	8,148	543	198	4,473
OECD	1,638	959	232	379	215	4,054
Former Soviet Union	683	2,112	4,398	222	210	3,844
Other EMEs	353	175	39	10	83	1,044

*: In this Review, primary energy comprises commercially traded fuels only. Excluded, therefore,are fuels such as wood,peat and animal wase which through important in many countries, are unreliably documented in terms of consumption statistics. Also excluded are wind, geothermal and lolar power generation.

^ :Less than 0.05.

Note: Oil consumption is measured in million tonnes; other fuels in million tonnes of oil equivalent.

XIV.32 PER CAPITA CONSUMPTION OF MAIN PETROLEUM PRODUCTS SOME INTERNATIONAL COMPARISONS DURING 2007

Kg.Oil/Per Capita

Country/Area	Light Distillates	Middle Distillates	Fuel Oil	Others	Total
USA	1570	1018	119	678	3385
Europe	196	435	93	182	906
Middle East	375	581	454	354	1765
China	77	109	32	77	295
Japan	698	632	260	380	1969
OECD	1053	1036	219	593	1068

Note: Population (Mid 2008 in Millions) data has been taken from "Population Reference Bureau".
Source : B.P Amoco Statistical Review of World Energy, June 2008.

XIV.33 TRENDS IN WORLD PRIMARY ENERGY CONSUMPTION (1980 - 2007)

(Million Tonnes Oil Equivalent)

Year	Oil	Natural Gas	Coal	Nuclear Energy	Hydro Electricity	Total
1980	3024.1	1296.4	1966.0	172.9	433.6	6459.4
1981	2918.3	1312.1	1959.1	203.2	443.2	6392.7
1982	2820.3	1308.9	2002.2	222.7	460.0	6354.1
1983	2797.3	1325.0	2039.2	248.0	482.0	6409.5
1984	2843.0	1426.5	2114.5	297.7	498.7	6681.7
1985	2826.5	1474.7	2209.6	350.9	510.2	6861.7
1986	2905.2	1487.4	2262.6	377.4	519.9	7032.6
1987	2948.4	1557.8	2341.9	406.3	534.3	7254.4
1988	3037.5	1662.1	2241.5	488.4	183.7	7429.5
1989	3087.5	1737.4	2272.2	502.3	183.3	7599.4
1990	3134.5	1770.5	2244.5	516.7	189.4	7666.2
1991	3133.6	1802.8	2189.7	541.4	194.6	7667.5
1992	3163.2	1805.3	2171.8	545.6	193.9	7685.9
1993	3134.6	1844.6	2162.4	564.4	204.4	7706.0
1994	3193.8	1853.4	2174.1	574.6	206.1	7795.9
1995	3234.7	1911.7	2206.7	599.9	216.2	7953.0
1996	3313.6	2004.7	2284.5	520.9	219.1	8123.7
1997	3386.3	1990.3	2265.8	616.5	223.4	8258.9
1998	3406.6	2015.4	2243.2	626.9	224.8	8292.1
1999	3469.1	2065.1	2159.9	651.5	226.6	8345.6
2000	3503.6	2164.0	2186.0	668.6	230.4	8522.2
2001	3517.1	2219.5	2243.1	601.0	584.7	8580.7
2002	3562.6	2285.8	2412.3	610.8	593.0	9464.5
2003	3641.8	2343.2	2613.5	598.2	604.1	9800.8
2004	3798.6	2425.2	2798.9	625.1	643.2	10291.0
2005	3836.8	2474.7	2929.8	668.7	627.2	10537.1
2006	3910.9	2558.3	3041.7	634.9	697.2	10843.0
2007(p)	3952.8	2637.7	3177.5	622.0	709.2	11099.3

(P) : Provisional
Source : B.P Amoco statistical review of world Energy, June 2008

XIV.34 PRIMARY ENERGY CONSUMPTION* IN SELECTED COUNTRIES OF THE WORLD DURING 2002 - 2007

(Million tonnes oil equivalent)

Region/Country	2002	2003	2004	2005	2006	2007	%Change 2007 over 2006	2007 share of total
US	2289.2	2296.7	2341.9	2342.7	2322.3	2361.4	1.7%	21.3%
Canada	301.4	310.5	313.7	323.4	320.2	321.7	0.5%	2.9%
Mexico	134.2	139.2	142.4	147.0	151.5	155.5	2.7%	1.4%
Total North America	**2724.8**	**2746.4**	**2798.0**	**2813.1**	**2794.0**	**2838.6**	**1.6%**	**25.6%**
Argentina	54.3	58.7	62.2	66.8	70.5	73.7	4.5%	0.7%
Brazil	183.6	186.0	193.2	198.8	204.3	216.8	6.1%	2.0%
Chile	24.7	25.2	26.1	27.9	29.2	28.6	-1.7%	0.3%
Colombia	25.7	26.0	26.8	27.4	29.2	30.0	2.6%	0.3%
Ecuador	7.7	7.8	8.2	9.3	9.8	10.6	8.0%	0.1%
Peru	11.8	11.6	12.3	13.7	12.9	13.8	7.6%	0.1%
Venezuela	66.1	58.5	65.6	68.8	70.1	71.4	1.9%	0.6%
Other S. & Cent. America	91.4	95.9	96.6	100.5	107.1	107.9	0.8%	1.0%
Total S. & Cent. America	**465.4**	**469.6**	**491.1**	**513.3**	**533.0**	**552.9**	**3.7%**	**5.0%**
Austria	33.3	34.2	33.5	34.2	33.1	32.6	-1.6%	0.3%
Azerbaijan	11.1	12.0	12.9	14.0	13.9	12.5	-10.0%	0.1%
Belarus	22.1	22.2	24.2	24.0	24.6	24.5	-0.2%	0.2%
Belgium & Luxembourg	64.9	68.5	71.0	72.2	73.6	73.6	-0.1%	0.7%
Bulgaria	18.6	20.0	19.3	19.7	20.7	20.4	-1.3%	0.2%
Czech Republic	41.5	43.6	44.7	44.6	44.7	43.3	-3.2%	0.4%
Denmark	18.4	19.6	18.3	17.4	19.5	18.2	-6.9%	0.2%
Finland	26.7	28.9	28.6	26.2	27.5	27.4	-0.3%	0.2%
France	256.7	259.8	263.4	262.8	260.6	255.1	-2.1%	2.3%
Germany	330.1	332.1	330.7	325.2	329.5	311.0	-5.6%	2.8%
Greece	32.8	32.4	34.0	33.8	34.6	34.1	-1.4%	0.3%
Hungary	23.4	23.8	23.8	25.2	25.0	24.5	-1.8%	0.2%
Iceland	2.6	2.6	2.7	2.7	2.7	3.0	11.9%	.
Republic of Ireland	14.5	14.2	14.6	14.9	15.6	15.0	-3.5%	0.1%
Italy	175.9	181.5	184.5	184.6	183.4	179.6	-2.0%	1.6%
Kazakhstan	44.1	47.9	51.2	56.5	59.6	60.2	0.8%	0.5%
Lithuania	8.6	9.1	9.2	8.4	8.1	9.0	11.3%	0.1%
Netherlands	89.0	90.4	93.1	94.7	92.7	91.8	-1.0%	0.8%
Norway	42.9	38.3	39.0	45.1	41.5	45.0	8.6%	0.4%
Poland	87.1	88.5	90.9	90.7	94.4	94.4	.	0.9%
Portugal	25.0	25.3	24.8	24.8	24.5	24.0	-2.2%	0.2%
Romania	38.6	37.8	39.0	39.8	40.6	39.7	-2.2%	0.4%
Russian Federation	645.8	650.2	658.0	653.7	687.7	692.0	0.6%	6.2%
Slovakia	18.7	18.1	17.6	18.7	18.1	17.5	-3.1%	0.2%
Spain	134.7	141.2	145.5	147.3	147.2	150.3	2.1%	1.4%
Sweden	48.5	46.2	48.3	50.8	48.9	50.2	2.6%	0.5%
Switzerland	29.5	29.3	28.9	27.9	29.1	28.9	-0.4%	0.3%
Turkey	75.1	79.9	85.3	89.3	96.9	101.7	5.0%	0.9%
Turkmenistan	15.8	17.4	18.2	19.3	21.6	24.4	13.2%	0.2%
Ukraine	134.1	134.0	141.3	140.0	138.5	136.0	-1.8%	1.2%
United Kingdom	221.8	225.6	227.0	227.3	224.4	215.9	-3.8%	1.9%
Uzbekistan	56.2	52.4	49.5	47.6	47.0	49.6	5.5%	0.4%
Other Europe & Eurasia	70.1	74.2	77.5	79.6	80.1	81.9	2.3%	0.7%
Total Europe & Eurasia	**2858.0**	**2901.2**	**2950.7**	**2963.2**	**3009.7**	**2987.5**	**-0.7%**	**26.9%**

contd...

XIV.34 PRIMARY ENERGY CONSUMPTION* IN SELECTED COUNTRIES OF THE WORLD DURING 2002 - 2007

(Million tonnes oil equivalent)

Region/Country	2002	2003	2004	2005	2006	2007	%Change 2007 over 2006	2007 share of total
Iran	141.4	148.9	161.4	171.0	179.6	182.9	1.8%	1.6%
Kuwait	18.6	20.3	23.6	26.7	25.6	25.4	-0.9%	0.2%
Qatar	12.5	13.2	15.9	19.6	21.0	22.6	7.4%	0.2%
Saudi Arabia	123.7	131.7	142.8	151.4	158.8	167.6	5.6%	1.5%
United Arab Emirates	48.6	50.4	53.5	55.4	58.0	60.9	5.1%	0.5%
Other Middle East	98.8	99.3	104.3	109.7	114.4	114.8	0.3%	1.0%
Total Middle East	**443.6**	**463.9**	**501.6**	**533.7**	**557.3**	**574.1**	**3.0%**	**5.2%**
Algeria	28.9	30.2	31.3	32.7	33.6	34.7	3.2%	0.3%
Egypt	49.5	51.9	54.2	56.8	58.7	63.2	7.8%	0.6%
South Africa	110.9	117.3	123.6	120.4	122.4	127.8	4.4%	1.2%
Other Africa	97.4	100.0	106.0	110.7	113.6	118.8	4.5%	1.1%
Total Africa	286.8	299.5	315.1	320.5	328.3	344.4	4.9%	3.1%
Australia	113.1	112.6	116.1	118.0	123.7	121.8	-1.6%	1.1%
Bangladesh	14.8	15.7	16.6	18.3	19.2	20.3	5.5%	0.2%
China	1058.3	1229.3	1429.0	1560.5	1729.8	1863.4	7.7%	16.8%
China Hong Kong SAR	20.8	21.2	24.3	22.8	24.4	26.5	8.4%	0.2%
India	307.8	316.2	343.9	362.2	378.5	404.4	6.8%	3.6%
Indonesia	104.9	105.2	112.6	116.3	111.4	114.6	2.9%	1.0%
Japan	507.9	508.3	519.0	521.9	522.3	517.5	-0.9%	4.7%
Malaysia	51.2	52.0	51.9	55.5	58.1	57.4	-1.2%	0.5%
New Zealand	18.5	17.9	18.5	17.8	17.9	17.4	-2.6%	0.2%
Pakistan	45.9	47.6	50.4	54.1	56.6	58.3	3.0%	0.5%
Philippines	23.5	24.4	24.9	25.3	23.6	24.9	5.4%	0.2%
Singapore	39.9	38.7	44.1	46.8	50.0	53.4	6.8%	0.5%
South Korea	205.0	211.8	217.3	224.9	227.2	234.0	3.0%	2.1%
Taiwan	98.0	103.9	107.4	109.5	112.0	115.1	2.8%	1.0%
Thailand	71.5	77.0	83.3	80.5	82.7	85.6	3.5%	0.8%
Other Asia Pacific	64.6	66.5	73.8	79.1	83.3	87.3	4.8%	0.8%
Total Asia Pacific	**2745.6**	**2948.3**	**3232.9**	**3413.7**	**3620.7**	**3801.8**	**5.0%**	**34.3%**
TOTAL WORLD	**9524.2**	**9828.9**	**10289.4**	**10557.6**	**10843.0**	**11099.3**	**2.4%**	**100.0%**
of which: European Union #	1724.0	1756.2	1778.1	1780.0	1783.4	1744.5	-2.2%	15.7%
OECD	5362.2	5420.9	5519.2	5556.3	5552.4	5566.4	0.3%	50.2%
Former Soviet U	958.8	968.4	989.1	989.5	1027.1	1035.2	0.8%	9.3%
Other EMEs	3203.2	3439.6	3781.0	4011.7	4263.4	4497.8	5.5%	40.5%

* :In this Review, primary energy comprises commercially traded fuels only. Excluded, therefore, are fuels such as wood, peat and animal waste which, though important in many countries, are unreliably documented in terms of consumption statistics. Also excluded are wind, geothermal and solar power generation.

^ :Less than 0.05.

• Less than 0.05%.

:Excludes Estonia, Latvia and Lithuania prior to 1985 and Slovenia prior to 1991.

Note: Oil consumption is measured in million tonnes; other fuels in million tonnes of oil equivalent.

Source: BP Statistical Review of World Energy, June, 2008

XIV. 35 ECONOMIC INDICATORS OF OPEC NATIONS DURING 2007

Country	Mid Year Population 2007 (Million)	GDP at market prices 2007 (Mn. $)	Per capita GDP 2007 (US $)	Petroleum Exports 2007 (Mn. $)	Total Exports 2007 (Mn. $)	Petroleum Exports as % of total Exports	Proven crude oil reserves 2007 (Bn.bbls)	Gas Reserves 2007 (Bn. CM)	Producing Oil wells 2007	Crude refining Capacity (000/b/d)	Exports of Refined Products (000/b/d)
1	2	3	4	5	6	7	8	9	10	11	12
Algeria	34	135,268	4,037	44,250	59,480	74.4	12.20	4504	1685	475	451.3
Angola	17	61,356	3,602	42,000	42,850	98.0	9.04	270	1234	39	26.6
Ecuador	14	44,489	3,282	8,279	13,852	59.8	4.66	9	852	188	40.0
Indonesia	226	432,944	1,919	15,700	118,728	13.2	3.99	3002	9038	1051	106.9
Iran	70	294,089	4,179	64,901	82,900	78.3	136.15	28080	1450	1474	388.3
Iraq	29	56,178	1,935	37,300	38,109	97.9	115.00	3170	1500	639	65.6
Kuwait	3	111,339	38,925	60,019	61,427	97.7	101.50	1780	1065	936	739.1
Libya	6	57,064	9,260	39,800	40,471	98.3	43.66	1540	1765	380	183.1
Nigeria	148	166,778	1,126	57,900	61,500	94.1	36.22	5215	2875	445	53.4
Qatar	1	63,870	75,426	27,801	37,952	73.3	15.21	25257	340	80	73.9
Saudi Arabia	24	376,029	15,478	206,480	229,990	89.8	264.21	7305	1913	2130	1138.8
U.A.E	4	192,603	43,803	74,552	156,634	47.6	97.80	6072	1675	466	407.7
Venezuela	27	231,064	8,416	52,119	69,534	75.0	99.38	4838	14540	1042	638.8
Total	**603**	**2,223,071**	**3,685**	**731,101**	**1,013,427**	**72.1**	**939.02**	**91043**	**40612**	**9345**	**4313.6**

Notes: Totals may not add up due to independent rounding.

Source : OPEC Annual Statistical Bulletin, 2007.

XIV.36 WORLD IMPORTS OF NATURAL GAS BY COUNTRY, 2001 - 2007

(Min. Standard Cubic Metres)

	2001	2002	2003	2004	2005	2006	2007	% change 2007/06
North America	**118,324**	**118,870**	**121,230**	**131,750**	**132,234**	**126,020**	**143,450**	**13.8**
Canada	4,730	5,350	7,930	11,150	10,140	9,370	12,900	37.7
United States	113,594	113,520	113,300	120,600	122,094	116,650	130,550	11.9
Latin America	**14,220**	**18,700**	**21,480**	**27,730**	**26,680**	**28,700**	**26,290**	**-8.4**
Argentina	-	-	-	800	1,740	1,800	1,900	5.6
Brazil	4,420	5,260	5,320	7,600	8,800	9,460	10,000	5.7
Chile	5,140	5,340	6,060	7,200	6,500	5,560	2,400	-56.8
Dominican Republic	-	-	300	130	250	250	250	0.0
Mexico	3,990	7,450	9,000	11,200	8,600	10,790	10,900	1.0
Puerto Rico	630	630	740	680	670	720	720	0.0
Uruguay	40	20	60	120	120	120	120	0.0
Eastern Europe	**40,800**	**42,250**	**44,730**	**51,390**	**51,690**	**53,400**	**47,040**	**-11.9**
Bulgaria	2,900	2,800	2,800	2,800	2,850	2,850	2,850	0.0
Estonia	-	-	-	970	970	970	970	0.0
Former Czechoslovakia	17,600	17,630	17,220	15,930	15,880	16,160	14,220	-12.0
Hungary	9,300	10,290	10,300	11,000	10,800	11,670	10,300	-11.7
Latvia	-	-	-	1,750	1,750	1,700	1,700	0.0
Lithuania	-	-	-	2,930	2,930	2,900	2,900	0.0
Poland	8,000	7,830	8,710	9,810	10,210	10,900	9,300	-14.7
Romania	3,000	3,700	5,700	6,200	6,300	6,250	4,800	-23.2
Western Europe	**265,324**	**285,125**	**309,674**	**336,060**	**361,360**	**379,550**	**381,145**	**0.4**
Austria	6,550	6,730	7,800	7,880	8,680	8,730	8,300	-4.9
Belgium	16,039	16,200	17,800	21,700	21,900	22,650	22,500	-0.7
Denmark	-	100	200	280	280	280	280	0.0
Finland	4,500	4,400	4,840	4,610	4,200	4,400	4,300	-2.3
France	41,590	43,110	41,900	47,300	49,000	49,500	46,700	-5.7
Germany	78,200	83,790	85,980	88,700	90,700	90,800	83,700	-7.8
Greece	1,980	2,020	2,450	2,750	2,860	3,290	3,600	9.4
Ireland	3,500	3,430	3,700	3,350	3,050	4,000	4,100	2.5
Italy	54,750	57,725	62,100	67,700	73,600	77,300	73,900	-4.4
Luxembourg	800	900	1,200	1,400	1,400	1,390	1,300	-6.5
Netherlands	8,530	12,270	16,700	15,300	17,300	18,500	18,750	1.4
Portugal	2,460	2,680	3,350	3,560	4,200	4,200	4,320	2.9
Spain	18,985	20,900	23,994	27,400	33,400	34,700	35,100	1.2
Sweden	950	1,280	1,250	1,050	1,030	950	1,015	6.8
Switzerland	3,030	2,770	2,920	2,770	2,840	2,800	2,780	-0.7
Turkey	16,380	17,720	21,520	22,200	27,000	30,200	36,500	20.9
United Kingdom	3,000	5,100	7,510	13,400	15,100	21,060	29,200	38.7
Former Yugoslavia	4,080	4,000	4,460	4,710	4,820	4,800	4,800	0.0
Middle East	**4,500**	**4,900**	**6,281**	**7,500**	**7,876**	**9,563**	**11,414**	**19.4**
Iran, I.R.	4,500	4,900	5,731	5,200	5,176	6,263	7,264	16.0
Jordan	-	-	350	1,100	1,300	1,900	2,400	26.3
United Arab Emirates	-	-	200	1,200	1,400	1,400	1,750	25.0
Africa	**1,580**	**2,290**	**2,090**	**1,300**	**1,300**	**1,300**	**1,300**	**0.0**
Morocco			600	-	-	-	-	-
Tunisia	1,580	1,690	1,490	1,300	1,300	1,300	1,300	0.0
Asia Pacific	**108,716**	**113,150**	**125,870**	**131,800**	**139,600**	**150,722**	**164,270**	**9.0**
China			-	-	-	1,000	3,870	287.0
India	-	-	-	2,600	6,000	7,990	10,000	25.2
Japan	74,306	72,770	79,770	76,000	78,000	81,852	88,800	8.5
Korea, South	21,830	24,320	26,230	29,800	30,500	34,100	34,400	0.9
Singapore	1,270	2,660	5,320	6,600	6,600	6,600	6,500	-1.5
Taiwan	6,400	7,200	7,480	9,300	9,600	10,200	10,900	6.9
Thailand	4,910	6,200	7,070	7,500	8,900	8,980	9,800	9.1
Total World	**553,464**	**585,285**	**631,355**	**687,530**	**720,740**	**749,255**	**774,909**	**3.4**
OPEC	4,500	4,900	5,931	6,400	6,576	7,663	9,014	17.6
OPEC percentage	1	1	1	1	1	1	1	

Source : OPEC Annual Statistical Bulletin, 2007.

XIV.37 WORLD IMPORTS OF REFINED PRODUCTS BY COUNTRY, 2001 - 2007

(1,000 Barrels/ Day)

	2001	2002	2003	2004	2005	2006	2007	% Change 2007/06
NORTH AMERICA	**1,765.0**	**1,643.6**	**2,765.5**	**2,502.0**	**2914.1**	**2754.8**	**2733.6**	**-0.8**
Canada	210.4	188.5	238.0	261.2	298.5	291.8	302.8	3.8
United States	1,550.3	1,450.7	2,523.0	2,236.3	2610.9	2458.2	2425.9	-1.3
Others	4.3	4.4	4.5	4.5	4.6	4.8	5.0	4.2
LATIN AMERICA	**1,486.4**	**1,422.0**	**1,366.0**	**1,450.3**	**1554.0**	**1723.0**	**1883.3**	**9.3**
Brazil	297.2	292.8	228.8	215.7	222.1	261.3	296.3	13.4
Cuba	130.0	130.5	43.1	70.8	72.4	74.7	77.2	3.3
Mexico	309.0	242.0	282.3	307.1	382.1	394.7	408.0	3.4
Netherland Antilles	33.8	33.5	49.3	62.7	61.3	63.5	65.9	3.8
Panama	18.1	17.6	17.7	18.2	18.7	19.3	20.0	3.6
Puerto Rico	100.0	99.5	99.9	102.5	105.2	108.1	111.2	2.9
Others	598.3	606.2	644.8	673.4	692.1	801.3	904.8	12.9
EASTERN EUROPE	**221.0**	**226.7**	**331.1**	**372.4**	**398.9**	**418.2**	**434.8**	**4.0**
Bulgaria	9.7	10.9	26.2	30.0	36.3	37.6	38.9	3.5
Ex USSR	10.0	10.0	9.8	10.0	10.4	10.7	11.1	3.7
Hungary	24.3	39.4	35.2	35.1	42.4	44.1	47.3	7.3
Poland	63.0	66.6	111.8	139.0	160.7	165.8	171.0	3.1
Others	114.0	99.8	148.0	158.3	149.1	160.1	166.4	3.9
WESTERN EUROPE	**5,247.6**	**4,960.6**	**5,265.1**	**5,572.2**	**6118.5**	**6444.3**	**5961.3**	**-7.5**
Belgium	322.1	299.6	320.7	354.5	415.3	394.5	356.8	-9.6
France	543.3	568.9	552.1	647.5	743.1	718.3	693.4	-3.5
Germany	945.9	729.8	333.8	691.2	711.8	755.3	582.8	-22.8
Italy	324.2	315.1	287.7	283.2	269.6	270.4	234.9	-13.1
Netherlands	1,000.1	1,028.3	1,071.1	1,174.6	1340.9	1555.7	1368.1	-12.1
United Kingdom	340.7	270.1	341.8	382.8	467.4	550.9	478.8	-13.1
Others	1,771.2	1,748.7	1,958.0	2,038.5	2170.3	2199.3	2246.3	2.1
MIDDLE EAST	**362.8**	**345.2**	**483.8**	**544.3**	**464.5**	**514.7**	**520.4**	**1.1**
Syrian Arab Rep.	21.0	20.6	20.9	21.7	20.5	21.2	22.0	3.8
Others	341.8	324.6	462.9	522.7	443.9	493.4	498.4	1.0
AFRICA	**527.8**	**532.7**	**737.0**	**725.3**	**773.7**	**805.0**	**843.3**	**4.8**
Egypt	53.2	52.0	38.8	68.6	75.9	82.0	67.8	-17.3
Morocco	29.6	29.1	86.6	66.6	77.2	80.0	83.0	3.8
Nigeria	93.3	102.0	229.3	173.6	154.3	154.8	171.3	10.7
Senegal	9.9	9.8	14.3	15.4	23.9	24.6	25.3	2.8
Tunisia	50.0	50.7	60.8	66.2	63.8	65.7	67.8	3.2
Others	291.8	289.2	307.1	335.0	378.7	397.8	428.1	7.6
ASIA & FAR EAST	**5,196.1**	**5,303.7**	**5,690.3**	**6,101.4**	**6170.7**	**6803.1**	**7193.0**	**5.7**
Australia	85.1	99.4	148.9	202.3	224.6	255.0	251.0	-1.6
China	601.7	660.1	567.8	762.1	634.1	733.4	846.6	15.4
Hong Kong	387.6	390.4	295.0	348.0	332.8	347.7	363.2	4.5
India	462.0	455.5	173.7	192.8	244.4	343.4	389.1	13.3
Japan	945.8	970.6	1,322.4	1,343.8	1323.7	1385.9	1451.7	4.7
New Zealand	23.5	29.6	40.2	43.3	38.5	40.3	47.9	18.9
Singapore	626.3	629.5	1,269.3	1,150.3	1293.9	1496.1	1648.5	10.2
Others	2,064.2	2,068.6	1,872.9	2,058.6	2078.7	2201.5	2194.9	-0.3
TOTAL WORLD	**14,806.6**	**14,434.6**	**16,638.7**	**17,268.0**	**18394.3**	**19463.2**	**19569.7**	**0.5**

Source : OPEC Annual Statistical Bulletin, 2007.

XIV.38 WORLD CRUDE OIL EXPORTS BY COUNTRY, 2001 - 2007

(1,000 Barrels/Day)

	2001	2002	2003	2004	2005	2006	2007	% Change 07/06
NORTH AMERICA	**1,168.0**	**1,174.5**	**1,251.7**	**1375.9**	**1378.2**	**1393.4**	**1422.1**	**2.1**
Canada	1,147.8	1,154.0	1,231.6	1355.5	1357.9	1372.8	1401.2	2.1
United States	20.2	20.6	20.1	20.4	20.3	20.6	20.9	1.3
LATIN AMERICA	**4,813.8**	**4,477.7**	**4,523.1**	**4605.7**	**4739.1**	**4900.3**	**5163.5**	**5.4**
Columbia	308.1	300.2	239.2	227.6	231.2	233.8	243.6	4.2
Ecuador	259.4	243.3	267.0	373.7	380.0	376.3	341.7	-9.2
Mexico	1,872.6	1,955.8	2,114.1	2123.8	2021.4	2047.7	2114.5	3.3
Trinidad and Tobago	52.3	71.2	74.5	70.6	69.7	71.0	72.5	2.1
Venezuela	1,964.7	1,572.0	1,535.0	1566.2	1787.8	1919.4	2115.6	10.2
Others	356.7	335.2	293.2	243.9	249.1	252.2	275.6	9.3
EASTERN EUROPE	**4,593.9**	**5,583.7**	**6,481.9**	**7309.4**	**7726.9**	**8198.6**	**8553.4**	**4.3**
Ex USSR	4,592.2	5,581.7	6,479.5	7307.0	7723.4	8195.0	8549.7	4.3
Others	1.7	2.0	2.4	2.4	3.5	3.6	3.6	0.7
WESTERN EUROPE	**4,883.0**	**4,792.6**	**4,419.0**	**4261.7**	**3649.3**	**3764.9**	**3919.0**	**4.1**
Norway	2,978.7	2,821.7	2,681.0	2657.0	2314.1	2314.1	2332.7	0.8
United Kingdom	1,633.7	1,639.5	1,389.7	1226.1	987.0	1090.5	1210.4	11.0
Others	270.7	331.4	348.3	378.6	348.2	360.3	375.9	4.3
MIDDLE EAST	**15,231.9**	**13,799.6**	**14,591.4**	**16386.2**	**16894.7**	**16944.4**	**16968.3**	**0.1**
Iran	2,184.6	2,093.6	2,396.3	2684.1	2394.5	2377.2	2466.8	3.8
Iraq	1,710.2	1,494.6	388.6/	1450.0	1472.2	1467.8	1643.0	11.9
Kuwait	1,214.1	1,138.0	1,242.9	1414.9	1650.8	1723.4	1612.9	-6.4
Oman	962.3	888.8	808.4	765.2	760.8	769.2	783.0	1.8
Qatar	605.5	567.8	540.7	542.7	677.3	620.3	615.1	-0.8
Saudi Arabia	6,035.9	5,284.6	6,522.9	6813.1	7208.9	7029.4	6962.1	-1.0
Syrian Arab Rep.	396.0	377.6	317.0	246.8	247.8	247.8	250.2	1.0
United Arab E.	1,786.7	1,614.0	2,048.0	2172.0	2195.0	2420.3	2342.7	-3.2
Others	336.6	340.4	326.6	297.5	287.4	289.1	292.3	1.1
AFRICA	**5,098.0**	**5,135.3**	**5,763.3**	**6380.3**	**6481.5**	**6582.9**	**6883.2**	**4.6**
Algeria	441.5	566.2	741.0	893.2	970.3	947.2	1253.5	32.3
Angola	693.9	849.3	823.0	940.9	946.9	1010.3	1157.6	14.6
Cameroon	110.1	103.9	100.1	94.0	95.3	97.4	98.9	1.6
Congo	234.0	227.2	204.6	215.2	236.6	237.5	239.3	0.8
Egypt	53.6	56.6	52.1	42.8	45.0	57.2	44.0	-23.0
Gabon	242.8	215.6	209.3	202.2	202.0	203.8	207.1	1.6
S.P.Libyan A.J.	987.6	983.6	1,126.5	1284.5	1306.3	1425.6	1377.8	-3.4
Nigeria	2,009.4	1,798.2	2,163.5	2356.0	2326.0	2248.4	2144.1	-4.6
Others	325.1	334.7	343.2	351.5	353.3	355.6	360.8	1.5
ASIA AND PACIFIC	**2,275.4**	**2,342.4**	**2,095.1**	**2005.8**	**1961.1**	**1876.6**	**1923.0**	**2.5**
Australia	392.1	386.2	314.1	283.6	230.0	234.6	239.3	2.0
Brunei	184.6	193.5	198.4	188.9	198.9	200.7	204.3	1.8
China (P.R.)	152.4	154.8	168.2	109.4	161.2	125.8	76.1	-39.5
Indonesia	599.2	639.9	433.0	412.7	374.4	301.3	319.3	6.0
Malaysia	376.5	378.2	391.7	375.5	382.6	390.7	400.6	2.5
Vietnam	337.8	335.2	335.1	395.7	362.8	365.0	385.7	5.7
Others	232.7	254.6	254.5	240.1	251.2	258.7	297.8	15.1
TOTAL WORLD	**38,063.9**	**37,305.8**	**39,125.4**	**42325.0**	**42830.7**	**43661.2**	**44832.4**	**2.7**
OPEC	20,233.3	18,601.8	19,961.4	22530.2	23310.3	23490.5	24010.5	2.2
OPEC percentage	53.2	49.9	51.0	53.2	54.4	53.8	53.6	-0.4

Note: Revision have been made throughout the time series. Data includes re-exports. Nigerian exports include condensates.

Source : OPEC Annual Statistical Bulletin, 2007.

XIV.39 WORLD EXPORTS OF REFINED PRODUCTS BY COUNTRY, 2001 - 2007

(1,000 Barrels/ Day)

	2001	2002	2003	2004	2005	2006	2007	% Change 07/06
NORTH AMERICA	**1823.9**	**1986.4**	**1870.4**	**1860.6**	**1974.9**	**2133.3**	**2216.5**	**3.9**
Canada	832.4	954.3	944.0	914.9	942.0	963.3	986.6	2.4
United States	991.5	1032.1	926.3	945.6	1032.8	1169.8	1229.8	5.1
Others	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0
LATIN AMERICA	**2245.2**	**2043.7**	**1942.4**	**2113.8**	**2060.0**	**2129.8**	**2208.2**	**3.7**
Brazil	148.8	160.9	160.4	185.3	186.7	179.8	192.8	7.2
Ecuador	38.7	44.8	27.4	27.6	19.7	34.5	40.0	16.0
Mexico	95.5	109.0	98.1	82.6	77.7	128.0	121.4	-5.1
Netherland Antilles	247.7	216.3	205.2	214.5	219.6	224.2	229.6	2.4
Trinidad and Tobago	151.5	138.0	144.1	126.6	130.2	133.0	136.5	2.6
Venezuela	761.1	569.7	485.0	573.8	609.3	598.5	638.8	6.7
Virgin Islands	397.2	388.4	390.5	395.2	402.7	410.3	419.0	2.1
Others	404.7	416.6	431.7	408.3	414.2	421.5	430.2	2.0
EASTERN EUROPE	**1456.2**	**1800.7**	**1879.1**	**2098.2**	**2410.1**	**2613.5**	**2448.5**	**-6.3**
Romania	54.3	57.9	66.0	66.9	67.7	68.6	69.7	1.6
Ex USSR	1246.5	1582.0	1657.7	1868.0	2170.0	2364.0	2188.2	-7.4
Others	155.3	160.8	155.4	163.4	172.4	180.9	190.6	5.4
WESTERN EUROPE	**4761.5**	**4876.0**	**4738.3**	**5236.5**	**5586.9**	**5781.5**	**5558.7**	**-3.9**
Belgium	448.7	471.4	414.8	452.1	456.6	432.4	429.5	-0.7
France	421.1	408.0	431.1	481.1	562.9	535.0	530.8	-0.8
Germany	384.0	386.2	384.3	483.5	535.8	556.7	571.8	2.7
Italy	467.7	452.3	441.1	469.6	550.2	501.6	478.2	-4.7
Netherlands	1412.4	1404.3	1389.8	1493.7	1604.8	1789.0	1565.3	-12.5
United Kingdom	542.5	644.2	505.0	625.3	615.5	579.5	596.8	3.0
Others	1085.0	1109.5	1172.3	1231.3	1261.2	1387.3	1386.4	-0.1
MIDDLE EAST	**2899.1**	**2835.8**	**3051.7**	**3220.6**	**3375.8**	**3450.8**	**3319.3**	**-3.8**
Bahrain	239.3	246.0	249.4	243.2	253.0	246.3	253.2	2.8
Iran	307.7	328.0	333.2	339.6	402.1	461.6	388.3	-15.9
Iraq	25.0	22.5	10.5	11.5	13.5	56.3	65.6	16.6
Kuwait	642.3	572.2	623.1	604.2	614.2	749.5	739.1	-1.4
Qatar	78.1	67.3	61.5	64.9	76.8	81.1	73.9	-8.8
Saudi Arabia	1082.6	993.5	1128.6	1334.4	1385.4	1277.6	1138.8	-10.9
United Arab E.	398.2	485.5	513.6	503.6	509.0	452.8	407.7	-10.0
Others	125.9	120.8	131.8	119.3	121.9	125.6	252.7	101.2
AFRICA	**1205.2**	**1168.4**	**1083.4**	**1042.8**	**1040.3**	**1053.5**	**1095.1**	**3.9**
Algeria	555.8	527.2	528.3	446.0	451.9	435.1	451.3	3.7
Angola			13.4	13.6	13.9	14.2	26.6	87.6
Egypt	96.3	92.4	90.8	92.6	94.3	96.1	98.0	2.0
Gabon	7.7	7.2	7.3	7.3	7.3	7.3	7.4	1.0
Nigeria	65.7	78.2	67.7	66.9	49.3	50.3	53.4	6.3
S.P.Libyan A.J.	225.0	221.1	145.4	161.5	162.5	183.1	183.1	0.0
Others	254.8	242.4	230.6	255.0	261.1	267.5	275.2	2.9
ASIA AND PACIFIC	**3030.6**	**2912.2**	**3149.7**	**3497.5**	**3693.4**	**3960.1**	**4046.1**	**2.2**
Australia	149.3	134.5	126.6	139.1	96.9	104.2	112.0	7.6
China (P.R.)	248.8	265.0	329.7	346.3	349.7	353.2	358.0	1.4
Indonesia	196.3	152.4	155.3	143.5	142.3	225.7	106.9	-52.6
Japan	91.5	72.3	77.8	89.9	173.4	203.6	239.5	17.6
Malaysia	153.0	147.6	214.6	221.2	229.6	238.4	247.9	4.0
Singapore	839.8	906.6	977.7	1083.4	1124.6	1167.3	1212.4	3.9
Others	1351.8	1233.8	1268.0	1474.1	1576.8	1667.7	1769.3	6.1
TOTAL WORLD	**17421.7**	**17623.3**	**17714.9**	**18970.2**	**20141.3**	**21122.6**	**20892.5**	**-1.1**
OPEC	4337.8	4017.6	4092.9	4291.0	4449.7	4620.2	4313.6	-6.6
OPEC percentage	24.9	22.8	23.1	22.6	22.1	21.9	20.6	-5.6

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

Source : OPEC Annual Statistical Bulletin, 2007.

PART-III

PLAN STATISTICS

XV.1 TENTH PLAN EXPENDITURE, RE FOR 2007-08 AND BE FOR 2008-09 OF 'PUBLIC SECTOR UNDERTAKINGS' UNDER MINISTRY OF PETROLEUM & NATURAL GAS

(Rs.Crore)

Undertaking	2002-03 (Actual)	2003-04 (Actual)	2004-05 (Actual)	2005-06 (Actual)	2006-07 (Actual)	2002-07 Total	2007-08 RE	2008-09 BE
1	2	3	4	5	6	7	8	9
A. EXPLORATION & PRODUCTI(	**12149.37**	**12213.33**	**16293.11**	**19774.82**	**22286.12**	**82716.75**	**27966.19**	**32387.82**
1. ONGC	6063.39	6851.98	10681.29	11421.03	13305.08	48322.77	18346.12	19338
2. OIL	606.90	577.85	872.71	993.97	1557.90	4609.33	1519.68	2230.67
3. GAIL (India) Ltd.	510.80	2441.30	438.96	1029.19	1647.61	6067.86	2235.45	3226.01
4. ONGC Videsh Ltd.	4968.28	2342.20	4300.15	6330.63	5775.53	23716.79	4758.94	6825.14
5.IOC	0.00	0.00	0.00	0.00	0.00	0.00	282.00	256.00
6.HPCL	0.00	0.00	0.00	0.00	0.00	0.00	84.00	200.00
7.BPCL	0.00	0.00	0.00	0.00	0.00	0.00	740.00	312.00
B. REFINING & MARKETING	**3656.30**	**4412.66**	**5025.92**	**5639.75**	**6889.21**	**25623.84**	**5207.58**	**10036.83**
1. IOC	1760.60	2157.03	3557.44	2625.9	2141.07	12242.04	2145.00	4483
2. HPCL	139.64	162.41	383.6	1465.12	2557.34	4708.11	1522.00	1926.5
3. BPCL	618.80	931.73	628.07	947.51	1694.09	4820.20	685.45	1660
4. CPCL	1010.17	858.66	235.12	110.55	98.40	2312.90	210.24	519.94
5. KRL	7.20	35.28 *	*	*		42.48 *	*	
6. BRPL	6.12	2.27	18.04	25.12	108.05	159.60	457.89	557.39
7. IBP Co. Ltd.	113.21	220.63 **	**	**		333.84 **	**	
8. Numaligarh Refinery Ltd.	0.56	23.90	106.18	138.46	80.69	349.79	100.00	80
9. MRPL	0.00	20.75	97.47	327.09	209.57	654.88	87.00	810
C. PETROCHEMICALS	**463.36**	**957.33**	**1645.52**	**1674.17**	**1925.16**	**6665.54**	**2525.78**	**4007.35**
1. BRPL	2.87	0.45	3.95	1.94	9.85	19.06	13.30	0.00
2. MRPL	0.00	0.00	0.00	31.48	0.00	31.48	26.00	15.00
3. IOC	436.51	907.41	1590	1558.9	1726.35	6219.17	2200.90	3761.00
4. CPCL	0.00	0.00	0.00	0.00	1.63	1.63	0.76	8.00
5. GAIL	23.98	49.47	51.57	81.85	187.33	394.20	146.82	187.35
6. HPCL	-	-	0.00	0.00	0.00	0.00	9.00	15.00
7.NRL	0.00	0.00	0.00	0.00	0.00	0.00	127.00	21.00
D. ENGINEERING UNIT	**10.48**	**7.64**	**4.61**	**6.79**	**4.65**	**34.17**	**25.00**	**108.00**
1. Balmer Lawrie & Co. Ltd.	10.48	7.64	4.61	6.79	4.65	34.17	25.00	100.00
2. Biecco Lawrie Limited	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00
Total (A+B+C+D)	**16279.51**	**17590.96**	**22969.16**	**27095.53**	**31105.14**	**115040.30**	**35724.55**	**46540.00**

RE : Revised Estimates BE : Budget Estimates

*: KRL is included in BPCL **: IBP Co. Ltd. is included in IOC

Source: Performance Budget, Ministry of Petroleum & Natural Gas.

XV. 2 DEMAND FOR PETROLEUM PRODUCTS

Items	2006-07	2007-08	2009-10	2009-10	2010-11	2011-12
1	*2*	*3*	*4*	*5*	*6*	*7*
	Demand for Petroleum Products(MMT)					
Base Case	114.03	116.09	119.10	121.99	126.97	131.77
Annual Growth Rate %		1.80	2.59	2.43	4.09	3.78
Upper Case	114.034	117.555	121.951	127.789	136.593	141.793
Annual Growth Rate %		3.09	3.74	4.79	6.89	3.81

MMT: Million Metric Tonnes.

Source: Report of Working Group on Petroleum and Natural Gas Sector for XI Plan

XV.3 IMPORT AVAILABILITY RATIOS OF CRUDE OIL AND PETROLEUM PRODUCTS

Items	1990-91	1995-96	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08'
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*
A. CRUDE OIL										
(i) Production	33.02	35.17	32.43	32.03	33.04	33.37	33.98	32.19	33.99	34.12
(ii) Imports	20.70	27.34	74.10	78.71	81.99	90.43	95.86	99.41	111.50	121.67
(iii)Availability (Net)	53.72	62.51	106.53	110.74	115.03	123.80	129.84	131.60	145.49	155.79
(iv)Item (ii) as % of Item	38.53	43.74	69.56	71.08	71.28	73.05	73.83	75.54	76.64	78.1
B. PETROLEUM PRODUCTS										
(i) Production*	49.49	56.8	97.696	102.21	106.51	115.78	120.82	121.94	137.35	144.99
(ii) Imports(Net)	8.66	20.34	0.902	-3.056	-3.061	-6.619	-9.383	-10.02	-15.964	-16.61
(iii)Availability (Gross)	58.15	77.14	96.79	99.15	103.45	109.16	111.44	111.92	121.39	128.38
(iv)Item (ii) as % of Item	14.89	26.37	0.9	3.1	3.0	-6.1	-8.4	-9.0	-13.2	-12.9

*: Includes LPG Production from Natural Gas.

XV. 4 VALUE* OF CRUDE OIL AND POL PRODUCTS IMPORTED DURING V,VI,VII,VIII, IX AND X 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**
IXth Plan (1997-2002)	**239032**
2002-03	**74174**
2003-04	**76470**
2004-05	**101962**
2005-06	**149700**
2006-07	**179095**
2007-08	**222909**

*Net of POL Imports.

XV.5 ELEVENTH PLAN PROJECTION PROFILE FOR CRUDE OIL AND NATURAL GAS PRODUCTION

Company	2007-08	2008-09	2009-10	2010-11	2011-12	TOTAL
1	*2*	*3*	*4*	*5*	*6*	*7*
			Crude Oil (MMT)			
ONGC	27.16	28.00	29.00	28.53	27.37	140.06
OIL	3.50	3.55	3.73	3.91	4.30	18.99
Joint Venture / Private Companies	10.57	10.78	9.76	8.75	7.85	47.71
Total	**41.23**	**42.33**	**42.49**	**41.19**	**39.52**	**206.76**
			Natural Gas			
	(.....MMSCMD.....					(BCM)
ONGC	60.38	61.73	62.38	62.99	60.11	112.39
OIL	8.55	8.79	8.90	8.99	9.73	16.43
Joint Venture / Private Companies	23.36	61.78	80.58	78.82	102.76	126.45
Total	**92.29**	**132.30**	**151.86**	**150.80**	**172.60**	**255.27**

MMSCMD: Million Metric Standard Cubic Metres

MMT: Million Metric Tonnes.
BCM: Billion Cubic Metres.

Source: Report of Working Group on Petroleum and Natural Gas Sector for XI Plan

XV.6 PETROLEUM PRODUCT AVAILABILITY DURING THE ELEVENTH PLAN

(MMT)

Product	2007-08	2008-09	2009-10	2010-11	2011-12	TOTAL
1	*2*	*3*	*4*	*5*	*6*	*7*
LPG	9.1	9.7	9.3	11	12.8	51.9
MS	13.7	17.5	27.7	28.9	30.5	118.3
Naphtha	15	14.8	15	17.5	18.8	81.1
ATF	6.8	7.4	9.3	10.6	11	45.1
SKO	10.6	11.3	10.7	10.3	11.3	54.2
HSD	58	62.6	74.5	84.1	92.3	371.5
LDO	1	1	0.8	0.8	0.6	4.2
Lubes	0.8	0.8	0.8	1.1	1.1	4.6
FO/LSHS	14.8	15.6	15.6	10.9	9.5	66.4
Bitumen	3.7	3.9	4	4	4.4	20
Coke	4.1	5.4	8.3	11	12.8	41.6
Others	5.6	6.5	9.6	11	13.2	45.9
Grand Total	**143.2**	**156.5**	**185.6**	**201.2**	**218.3**	**904.8**

Source: Report of Working Group on Petroleum and Natural Gas Sector for XI Plan

XV.7 REFINERY-WISE CAPACITY ADDITION DURING THE ELEVENTH PLAN

Year	Refinery	PSU/PVT.	MMT
2007-08	IOCL, Panipat	PSU	3.00
	HPCL,Mumbai	PSU	2.40
	HPCL, VISAKH	PSU	0.83
	Essar Oil Ltd., Jamnagar	PVT	3.50
		Sub total	**9.73**
2008-09	CPCL, Chenni	PSU	1.00
	RPL, Jamnagar(New)	PVT	29.00
	Nagarjuna Oil Corporation L	PVT	6.00
		Sub total	**36.00**
2009-10	IOCL,Haldia	PSU	1.50
	BPCL, Bina	PSU	6.00
	CPCL, Chennai	PSU	0.70
	KRL, Kochi	PSU	2.00
	MRPL, Mangalore	PSU	5.31
		Sub total	**15.51**
2010-11	HPCL,Visakh	PSU	6.67
	HPCL,Bhatinda	PSU	9.00
		Sub total	**15.67**
2011-12	IOCL, Paradip	PSU	15.00
	ONGC, Tatipaka		0.08
		Sub total	**15.08**
		Total	**91.99**

XV.8 REFINING CAPACITY ADDITION DURING THE ELEVENTH PLAN

(MMT)

	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Capacity add Base year		9.73	36	15.51	15.67	15.08	91.99
Total capacity	148.97	158.7	194.7	210.21	225.88	240.96	

XV.9 CRUDE OIL PROCESSING AND IMPORT DURING THE ELEVENTH PLAN

MMT

PARTICULARS	2007-08	2008-09	2009-10	2010-11	2011-12	TOTAL
1	2	3	4	5	6	7
Processing	148.5	162.7	193.0	211.6	235.0	802.3
Imports	107.27	120.37	150.51	170.41	195.49	744.05

Source: Working Group Report on Petroleum & Natural Gas Sector for XI Plan

XV.10 Proposed Crude oil and Natural Gas production during XI Plan

Products	2007-08	2008-09	2009-10	2010-11	2011-12	TOTAL
1	2	3	4	5	6	7
CRUDE OIL PRODUCTION(MMT)						
ONGC	27.16	28	29	28.53	27.37	140.06
OIL	3.5	3.55	3.73	3.91	4.3	18.99
Pvt/JV	10.57	10.78	9.76	8.75	7.85	47.71
Total	**41.23**	**42.33**	**42.49**	**41.19**	**39.52**	**206.76**
NATURAL GAS PRODUCTION(BCM)						
ONGC	22.10	22.53	22.77	22.99	22.00	112.39
OIL	3.13	3.21	3.25	3.28	3.56	16.43
Pvt/JV	8.55	22.55	22.11	21.47	21.07	95.75
Total	**33.78**	**48.29**	**48.13**	**47.74**	**46.63**	**224.57**

Source: Working Group Report on Petroleum & Natural Gas Sector for XI Plan

XV.11 ESTIMATES OF DEMAND OF PETROLEUM PRODUCTS DURING THE EIEVENTH PLAN

('000' Tonne)

PRODUCTS	2006-07	2007-08	200-09	2009-10	2010-11	2011-12	CARG
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*
			BASE CASE				
LPG	10494	10853	11246	11683	12183	12770	4.0
Naphtha	11333	10425	9517	10441	11138	11588	0.4
MS	8983	9377	9828	10242	10667	11097	4.3
ATF	3630	4335	4774	5187	5569	5907	10.2
SKO	9414	8830	8510	8222	7962	7729	-3.9
HSD	40583	42210	43797	45328	46871	48419	3.6
LDO	905	951	951	849	786	569	-8.9
FO/LSHS	13454	13601	13959	12806	13327	13874	0.6
Bitumen	3592	3772	3961	4159	4367	4585	5.0
Lubes	2421	2453	2487	2521	2556	2592	1.4
PET. COKE	4736	4736	4736	4736	5210	5731	3.9
Others	4489	4893	5333	5813	6337	6907	9.0
TOTAL	**114034**	**116436**	**119099**	**121987**	**126973**	**131768**	**2.9**
			UPPER CASE				
LPG	10494	10853	11246	11683	12183	12770	4.0
Naphtha	11333	10077	9517	10441	11138	11588	0.4
MS	8983	9330	9775	10442	11197	11605	5.3
ATF	3630	4356	5227	6011	6612	7274	14.9
SKO	9414	9414	9414	9414	9414	9414	0.0
HSD	40583	42374	43818	45751	47952	49776	4.2
LDO	905	951	951	849	786	569	-8.9
FO/LSHS	13454	13754	14250	13611	14277	14982	2.2
Bitumen	3592	3808	4036	4279	4535	4808	6.0
Lubes	2421	2453	2487	2521	2556	2592	1.4
PET. COKE	4736	4736	4736	4736	7210	7411	9.4
Others	4489	5449	6494	8052	8734	9006	14.9
TOTAL	**114034**	**117555**	**121951**	**127790**	**136594**	**141795**	**4.5**

Source: Report of Working Group on Petroleum & Natural Gas Sector for XI Plan

PART-IV

FINANCIAL PERFORMANCE

XVI.1 DIVIDEND PAID BY PUBLIC SECTOR UNDERTAKINGS UNDER THE MINISTRY OF PETROLEUM AND NATURAL GAS FOR FISCAL YEAR 2007-08

(Rs. Crore)

Name of Company	Total amount of dividend paid to Govt. by Oil PSUs
1. Oil & Natural Gas Corp. Ltd. (ONGC)	6844.00
2. Oil India Ltd. (OIL)	535.22
3. GAIL (INDIA) Ltd.	846.00
4. Indian Oil Corp. Ltd. (IOCL)	655.81
5. Hindustan Petroleum Corp. Ltd. (HPCL)	141.90
6. Bharat Petroleum Corp. Ltd. (BPCL)	398.00
7. Engineers India Ltd. (EIL)	53.35
Total	**9474.28**

XVI.2 EQUITY CAPITAL OF PUBLIC SECTOR UNDERTAKINGS UNDER THE MINISTRY OF PETROLEUM AND NATURAL GAS AS ON 31st MARCH 2008

(Rs. Crore)

Name of the PSU	Authorised Capital	Paid up Capital	% Govt. holding as on 31.3.2008
1. Indian Oil Corp. Ltd. (IOCL)	2500	1192.37	80.35
2. Bharat Petroleum Corp. Ltd. (BPCL)	450	361.54	54.93
3. Hindustan Petroleum Corp. Ltd. (HPCL)	350	338.95	51.22
4. Oil & Natural Gas Corp. Ltd. (ONGC)	15000	2139.00	74.14
5. Oil India Ltd. (OIL)	500	214.00	98.13
6. GAIL (INDIA) Ltd.	1000	845.65	57.34
7. Bongaigaon Refinery & Petrochemicals Ltd. (BRPL)	200	199.82	0.00
8. Engineers India Ltd. (EIL)	100	56.16	90.40
9. Chennai Petroleum Corp. Ltd. (CPCL)	400	149.00	0.00
10. Biecco Lawrie Ltd.	50	42.00	57.37
11. Balmer Lawrie Ltd.	30	16.29	0.00
12. Numaligarh Refinery Ltd. (NRL)	1000	735.63	0.00
13. Mangalore Refinery & Petrochemicals Ltd.	2000	1761.82	0.00
14. ONGC (Videsh) Ltd. (OVL)	1000	1000.00	0.00

NRL: Subsidiary of BPCL.
BRPL and CPCL: Subsidiaries of IOCL.

Source: Ministry of Petroleum and Natural Gas (Internal Finance Division)

XVI.3 STATEMENT SHOWING PROFIT AFTER TAX EARNED BY PUBLIC SECTOR UNDERTAKINGS UNDER THE MINISTRY OF PETROLEUM AND NATURAL GAS DURING 1997-98 TO 2007-08

(Rs. Crores)

	Name of PSUs	Profit after tax during								
		1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08(p)
	1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*
1	Indian Oil Corporation Ltd.	2443.4	2720.33	2884.66	6114.89	7004.82	4891.38	4915.12	7499.47	6962.58
2	Bharat Petroleum Corporation Ltd.	703.86	832.66	849.83	1250.03	1694.57	965.80	291.65	1805.48	1327
3	Hindustan Petroleum Corporation Ltd.	1057.41	1088.01	787.98	1537.36	1903.94	1277.00	405.63	1571.17	473
4	Oil & Natural Gas Corporation Ltd.	3629.48	5228.78	6197.9	10529.3	8664.43	12983.00	14430.78	15643	16702
5	Oil India Ltd.	409.79	467.36	525.22	916.73	949.70	1061.68	1689.93	1639.99	1784.04
6	GAIL (India) Ltd.	861.27	1126.16	1185.84	1639.11	1869.00	1954.00	2310	2387	2601
7	Kochi Refineries Ltd.	235.2	109.46	68.77	456.02	555.09	842.12	**	**	**
8	Bongaigaon Refinery & Petrochemicals	32.24	-57.44	-198.61	178.45	303.74	478.29	174.76	184.98	306.82
9	Engineers India Ltd.	126.2	123.85	24.71	64.16	80.18	112.64	138.64	142.99	171.99
10	Chennai Petroleum Corporation Ltd.	143.14	122.43	63.71	302.89	400.05	596.97	480.96	565.27	1122.95
11	IBP Co. Ltd.	41.71	54.22	195.79	87.75	214.66	58.87	12.44	#	#
12	Balmer Lawrie & Co. Ltd.	14.32	6.01	8.01	16.49	18.58	29.83	46.8	70.22	85
13	Numaligarh Refineries Ltd.	*	21.6	122.98	174.63	214.95	409.15	448.93	568.8	368.6
14	Biecco Lawrie Co. Ltd.	0.17	-8.67	-10.9	-9.2	-2.96	1.28	2.22	2.31	2.59
15	Mangalore Refinery & Petrochemicals Ltd.			-492.27	-411.8	459.42	880.00	371.61	525.52	1272.23
16	ONGC (Videsh) Ltd. (OVL)						761.38	901.19	1663.29	2397.14

* NRL refinery was commissioned in the year 2000-01.

#: Merged with IOCL.

** :Amalgamated with BPCL

(p) : Provisional

Source: Ministry of Petroleum and Natural Gas(Internal Finance Division)

XVI.4 PERFORMANCE OF PUBLIC SECTOR UNDERTAKINGS UNDER THE MINISTRY OF PETROLEUM AND NATURAL GAS DURING 2007-08

S. No.	Performance Parameters	Unit	ONGC	OIL	GAIL	IOC	HPCL	BPCL	EIL	BRPL	NRL	CPCL	Balmer Lawrie	MRPL	OVL	Biocco Lawrie
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*	*17*
1	Authorised Capital	Rs./Crore	15000	500	1000	2500	350	450	100	200	1000	400	30	2000	1000	50
2	Paid up Capital	Rs./Crore	2139	214	845.65	1192.37	338.95	361.54	56.16	199.82	735.63	149.00	16.29	1761.82	1000	42
3	Govt. equity in the PSU	%	74.14	98.13	57.34	80.35	51.22	54.93	90.40	Nil	Nil	Nil	Nil	Nil	Nil	57.37
4	Gross Turnover	Rs./Crore	61543	6100.26	18580	247479.39	94293	118153.49	820.00	6651.02	8752.09	32889.32	1570	37550.68	16934.24	59.45
5	PAT	Rs./Crore	16702	1784.04	2601	6962.58	473	1327	171.99	306.82	368.60	1122.95	85	1272.23	2397.14	2.59
6	Debt equity ratio	Ratio	0.001:1	1:0.02	0.10	0.86:1	0.26:1	1.32	0.00	0.24:1	0.03	0.71	0.02	0.48	1.8:1	108.60
7	Reserves & Surpluses	Rs./Crore	68479	7792.94	12159	39893.88	9567	10773.46	1084.93	1081.18	1677.94	3315.52	339.02	2021.12	5305.90	0.31
8	Networth	Rs./Crore	69944	8006.94	12842	41086.25	9906	11135	1141.09	1281.62	2413.57	3464.52	355.31	3782.94	6305.90	14.69
9	Dividend paid / payable	Rs./Crore	6844	535.22	846	655.81	141.90	398	53.35	Nil	Nil	253.15	Nil	246.10	Nil	Nil
10	Dividend as a %age of PA	%age	41	30	33	10.52	30	30	31.02	0.00	0.00	22.54	0.00	19.34	0.00	0.00
11	EPS	Rs.	78.09	83.36	31	58.39	13.94	36.70	30.61	15.35	5.01	75.14	52.19	7.26	239.71	0.62
12	Total outstanding loan	Rs./Crore	37	174.89	1266	35523.17	15650	14660	0	308.15	79.85	2450.46	6.41	2058.06	11373.8	45.95

Source: Ministry of Petroleum and Natural Gas (Internal Finance Division)

PART-V

TIME SERIES DATA ON ENERGY

XVII.1 PRODUCTION OF PRIMARY SOURCES OF CONVENTIONAL ENERGY IN INDIA

Year	Coal & Lignite (TMT)	Crude Petroleum (TMT)	Natural Gas (MCM)	Electricity* Hydro & Nuclear (GWH)
1	2	3	4	5
1970-71	76340	6822	1445	27666
1971-72	76140	7299	1535	29214
1972-73	80110	7321	1565	28329
1973-74	81490	7189	1713	31368
1974-75	91350	7684	2041	30081
1975-76	102660	8448	2368	35928
1976-77	105010	8898	2428	38088
1977-78	104560	10763	2839	40279
1978-79	105250	11633	2812	49929
1979-80	106840	11766	2767	48354
1980-81	119020	10507	2358	49543
1981-82	131240	16194	3851	52586
1982-83	137530	21063	4936	50396
1983-84	147539	26020	5961	53500
1984-85	155277	28990	7241	58023
1985-86	162336	30168	8134	56003
1986-87	175290	30480	9853	58862
1987-88	192551	30357	11467	52479
1988-89	208820	32040	13217	63690
1989-90	215724	34087	16988	66741
1990-91	228131	32160	17998	77782
1991-92	248805	30345	18644	78282
1992-93	258616	26950	18061	76595
1993-94	266785	27026	18336	75861
1994-95	277080	32494	19468	88360
1995-96	295561	35168	22642	80561
1996-97	308720	32900	23256	77972
1997-98	320221	33858	26401	84665
1998-99	315689	32722	27428	94846
1999-00	322168	31949	28446	94005
2000-01	336643	32426	29477	91264
2001-02	352601	32032	29714	93054
2002-03	367290	33044	31389	83404
2003-04	389204	33373	31962	93022
2004-05	413026	33981	31763	101621
2005-06	437267	32190	32202	117195
2006-07	462117	33988	31747	132000
2007-08(p)	490377	34118	32402	N.A.

(p) - Provisional
N.A.: Not Available.

TMT: Thousand Metric Tonnes
GWH: Giga Watt Hour=1 Million Kilo Watt Hour.

MCM: Million Cubic Metres
*: Thermal electricity is not a primary source of energy.

XVII.2 AVAILABILITY OF PRIMARY SOURCES OF CONVENTIONAL ENERGY IN INDIA

Year	Coal & Lignite (TMT)	Crude Petroleum (TMT)	Natural Gas (MCM)	Electricity* Hydro & Nuclear (GWH)
1	2	3	4	5
1970-71	71240	18505	647	27665
1971-72	74070	20250	718	29231
1972-73	78210	19450	771	28329
1973-74	77680	21044	762	31368
1974-75	85600	21700	951	30081
1975-76	92170	22072	1124	35928
1976-77	100100	22522	1381	38088
1977-78	103840	25270	1464	40279
1978-79	100160	26290	1711	49929
1979-80	105540	27887	1676	48354
1980-81	109320	26755	1522	49543
1981-82	121020	30654	2222	52586
1982-83	130138	33460	2957	50394
1983-84	139302	36465	3399	53500
1984-85	141458	36154	4141	58023
1985-86	155536	44784	4950	56003
1986-87	166846	45956	7072	58862
1987-88	180645	48089	7968	52479
1988-89	193970	49855	9250	63685
1989-90	209481	53577	11172	66761
1990-91	214987	52859	12766	77782
1991-92	232338	54339	14442	78281
1992-93	245255	56197	16116	76596
1993-94	256327	57848	16340	75860
1994-95	269180	59843	17337	88360
1995-96	284043	62510	20932	80561
1996-97	298621	66806	21324	77972
1997-98	306824	68352	24545	84665
1998-99	310738	72530	25706	94846
1999-00	315047	89754	26885	94005
2000-01	325448	106523	27860	91264
2001-02	343124	110738	28037	93054
2002-03	361745	115033	29964	83404
2003-04	379405	123807	30906	93022
2004-05	404691	129842	30775	101621
2005-06	407013	131599	31325	117195
2006-07	493153	145490	30791	N.A.
2007-08(p)	536173	155790	31478	N.A.

(p) - Provisional — MCM: Million Cubic Metres

TMT: Thousand Metric Tonnes — GWH: Giga Watt Hour=1 Million Kilo Watt Hour

*: Thermal electricity is not considered as primary source of energy. — N.A.: Not Available.

XVII.3 CONSUMPTION OF PRIMARY SOURCES OF CONVENTIONAL ENERGY IN INDIA

Year	Coal & Lignite (TMT)	Crude * Petroleum (TMT)	Natural Gas (MCM)	Electricity ** (GWH)
1	2	3	4	5
1970-71	71230	18379	647	43724
1971-72	74060	20042	718	47063
1972-73	78180	19328	771	49088
1973-74	77660	20958	762	50246
1974-75	85580	21094	951	52632
1975-76	92160	22283	1124	60246
1976-77	104130	22995	1381	66609
1977-78	103780	24898	1464	69255
1978-79	100150	25974	1711	77293
1979-80	105530	27474	1674	78084
1980-81	109310	25836	1522	82367
1981-82	121010	30146	2222	90245
1982-83	130130	33156	2957	95589
1983-84	137290	35263	3399	102344
1984-85	141450	35556	4141	114068
1985-86	155530	42910	4950	122999
1986-87	166840	45699	7072	135952
1987-88	179209	47754	7968	145613
1988-89	192119	48803	9250	160196
1989-90	203424	51942	11172	175419
1990-91	213360	51772	12766	190357
1991-92	232330	51423	14442	207645
1992-93	241750	53482	16116	220674
1993-94	256320	54296	16340	238567
1994-95	269174	56534	17337	259630
1995-96	284037	58741	20932	277029
1996-97	298620	62870	21324	280206
1997-98	306824	65166	24545	296749
1998-99	313476	68538	25706	309734
1999-00	315047	85964	26885	312841
2000-01	341220	103444	27860	316600
2001-02	349740	107274	28037	322459
2002-03	361745	112559	29964	339598
2003-04	379405	121840	30906	360937
2004-05	404691	127416	30775	386134
2005-06	407013	130109	31025	415299
2006-07	493153	146551	31368	N.A.
2007-08(p)	536173	156103	34328	N.A.

GWH: Giga Watt Hour=1 Million Kilo Watt Hour
MCM: Million Cubic Metres
*: Crude oil in terms of refinery crude throughput.
N.A.: Not Available.
**: Includes thermal, hydro & nuclear electricity in utilities.
(p): Provisional.

XVII.4 DOMESTIC PRODUCTION OF PETROLEUM PRODUCTS IN INDIA

('000' Tonne)

Year	Light Distillates			Middle Distillates			
	LPG @	Petrol	Naphtha	Kerosene	ATF	HSDO	LDO
1	2	3	4	5	6	7	8
1970-71	169	1526	1205	2896	710	3840	986
1971-72	195	1615	1217 *	2995	808	4356	1065
1972-73	227	1581	1330 *	2813	801	4598	1010
1973-74	259	1647	1438 *	2613	875	5039	1079
1974-75	278	1298	1720	2052	837	6034	1084
1975-76	331	1275	1910	2439	925	6285	946
1976-77	363	1340	1986	2581	1001	6399	1047
1977-78	383	1423	2120	2450	1077	7129	1224
1978-79	403	1515	2262	2514	1177	7350	1227
1979-80	406	1512	2415	2539	1104	7975	1230
1980-81	366	1519	2115	2396	1001	7371	1108
1981-82	410	1614	3004	2907	1009	9042	949
1982-83	406	1797	2986	3393	1137	9761	1121
1983-84	514	1937	3578	3528	1195	10862	1081
1984-85	596	2144	3470	3364	1297	11086	1253
1985-86	867	2309	4955	4030	1519	14624	1177
1986-87	995	2515	5437	4912	1553	15450	1172
1987-88	1026	2662	5462	5104	1695	16296	1259
1988-89	1034	2822	5378	5201	1753	16656	1468
1989-90	1179	3328	5227	5700	1575	17737	1540
1990-91	1221	3552	4859	5471	1801	17185	1509
1991-92	1250	3420	4546	5339	1539	17404	1482
1992-93	1249	3709	4586	5199	1636	18289	1453
1993-94	1314	3843	4666	5270	1788	18809	1474
1994-95	1432	4129	5662	5261	1968	19593	1364
1995-96	1539	4462	5975	5267	2127	20661	1351
1996-97	1598	4704	6123	6236	2119	22202	1286
1997-98	1666	4849	6103	6701	2147	23354	1246
1998-99	1724	5573	6081	5341	2289	26716	1336
1999-00	2487	6232	8170	5735	2292	34793	1624
2000-01	4088	8070	9908	8714	2513	39052	1481
2001-02	4778	9699	9180	9681	2595	39899	1703
2002-03	4903	10361	9650	10028	3053	40207	2079
2003-04	5348	10999	11317	10187	4289	43316	1659
2004-05	5570	11057	14100	9298	5201	45903	1546
2005-06	5525	10502	14509	9078	6196	47572	923
2006-07	6315	12539	16660	8491	7805	53465	803
2007-08(p)	6732	14167	16440	7794	9107	58361	671

(p) : Provisional

@: Excludes LPG production from natural gas.

*: Estimated from calendar year figures.

Cont...

XVII.4(Contd) DOMESTIC PRODUCTION OF PETROLEUM PRODUCTS IN INDIA

(000' Tonne)

Year	Heavy Ends				Others*	Total
	Fuel Oil	Lubricants	Bitumen	Petroleum Coke		
1	2	3	4	5	6	7
1970-71	4090	231	805	151	501	17110
1971-72	4098	140	1009	142	999	18639
1972-73	3688	304	1109	132	267	17860
1973-74	3931	318	1093	131	1072	19495
1974-75	4243	387	873	137	668	19611
1975-76	5083	342	697	160	436	20829
1976-77	4728	368	945	163	511	21432
1977-78	5332	413	992	155	521	23219
1978-79	5644	490	962	122	527	24193
1979-80	6351	487	1103	99	573	25794
1980-81	6120	426	1082	86	533	24123
1981-82	6908	407	1298	141	493	28182
1982-83	7964	434	1397	149	528	31073
1983-84	8000	470	1069	136	556	32926
1984-85	7886	414	944	181	601	33236
1985-86	7955	501	1107	192	645	39881
1986-87	8011	491	1224	264	737	42761
1987-88	8466	478	1370	257	653	44728
1988-89	8171	497	1548	275	896	45699
1989-90	8952	547	1671	275	959	48690
1990-91	9429	561	1603	229	1142	48562
1991-92	9637	390	1710	216	1416	48349
1992-93	10403	533	1862	221	1219	50359
1993-94	10304	489	1874	233	1020	51084
1994-95	9822	504	1845	259	1088	52927
1995-96	9579	633	2032	256	1199	55081
1996-97	10298	619	2283	246	1291	59005
1997-98	11080	593	2158	282	1129	61308
1998-99	11030	586	2419	286	1163	64544
1999-00	11352	728	2485	465	3048	79411
2000-01	11392	684	2721	2473	4518	95614
2001-02	12227	651	2561	2784	4246	100004
2002-03	12167	684	2941	2659	5408	104140
2003-04	13372	666	3397	2743	6170	113463
2004-05	14970	646	3349	3162	3777	118579
2005-06	14305	677	3576	3182	3705	119750
2006-07	15697	825	3891	3779	4990	135260
2007-08(p)	15805	881	4507	4129	6336	144930

(p) : Provisional

* : Includes those of light & middle distillates and heavy ends.

XVII.5 FOREIGN TRADE OF CRUDE OIL AND PETROLEUM PRODUCTS IN INDIA

('000' Tonnes)

Year	Crude oil			Petroleum Products		
	Gross Imports	Exports	Net Imports	Gross Imports	Exports	Net Imports
1	*2*	*3*	*4*	*5*	*6*	*7*
1970-71	11683	-	11683	1084	332	752
1971-72	12951	-	12951	2147	136	2011
1972-73	12084	-	12084	3525	126	3399
1973-74	13873	18	13855	3548	161	3387
1974-75	14016	-	14016	2648	175	2473
1975-76	13624	-	13624	2218	170	2048
1976-77	14048	-	14048	2624	74	2550
1977-78	14507	-	14507	2879	47	2832
1978-79	14657	-	14657	3878	44	3834
1979-80	16121	-	16121	4724	88	4636
1980-81	16248	-	16248	7289	36	7253
1981-82	15298	838	14460	4884	55	4829
1982-83	16949	4552	12397	5028	795	4233
1983-84	15967	5522	10445	4328	1472	2856
1984-85	13642	6478	7164	6092	933	5159
1985-86	15144	528	14616	3865	1963	1902
1986-87	15476	-	15476	3047	2491	556
1987-88	17734	-	17734	4151	3412	739
1988-89	17815	-	17815	6495	2295	4200
1989-90	19490	-	19490	6564	2593	3971
1990-91	20699	-	20699	8660	2648	6012
1991-92	23994	-	23994	9445	2936	6509
1992-93	29247	-	29247	11283	3719	7564
1993-94	30822	-	30822	12076	4034	8042
1994-95	27349	-	27349	13951	3254	10697
1995-96	27342	-	27342	20335	3435	16900
1996-97	33906	-	33906	20265	3162	17103
1997-98	34493	-	34493	22970	2381	20589
1998-99	39808	-	39808	23772	720	23052
1999-00	57805	-	57805	16608	746	15862
2000-01	74097	-	74097	9267	8365	902
2001-02	78706	-	78706	7009	10065	-3056
2002-03	81989	-	81989	7228	10289	-3061
2003-04	90434	-	90434	8001	14620	-6619
2004-05	95861	-	95861	8828	18211	-9383
2005-06	99409	-	99409	13440	23461	-10021
2006-07	111502	-	111502	17660	33624	-15964
2007-08(p)	121672	-	121672	22462	40779	-18317

(p): Provisional.

XVII.6 AVAILABILITY OF CRUDE OIL AND PETROLEUM PRODUCTS IN INDIA

('000' Tonnes)

Year	Crude oil			Petroleum Products		
	Production	Net Imports	Gross availability	Production @	Net Imports	Gross availability
1	2	3	4	5	6	7
1970-71	6822	11683	18505	17110	752	17862
1971-72	7299	12951	20250	18639	2011	20650
1972-73	7321	12084	19405	17830	3399	21229
1973-74	7189	13855	21044	19495	3387	22882
1974-75	7684	14016	21700	19603	2473	22076
1975-76	8448	13624	22072	20829	2048	22877
1976-77	8898	14048	22946	21432	2550	23982
1977-78	10763	14507	25270	23219	2832	26051
1978-79	11633	14657	26290	24193	3834	28027
1979-80	11766	16121	27887	25794	4636	30430
1980-81	10507	16248	26755	24123	7253	31376
1981-82	16194	14460	30654	28182	4829	33011
1982-83	21063	12397	33460	31073	4233	35306
1983-84	26020	10445	36465	32926	2856	35782
1984-85	28990	7164	36154	33236	5159	38395
1985-86	30168	14616	44784	39881	1902	41783
1986-87	30480	15476	45956	42761	556	43317
1987-88	30357	17734	48091	44728	739	45467
1988-89	32040	17815	49855	45699	4200	49899
1989-90	34087	19490	53577	48690	3971	52661
1990-91	32160	20699	52859	48562	6012	54574
1991-92	30345	23994	54339	48349	6509	54858
1992-93	26950	29247	56197	50359	7564	57923
1993-94	27026	30822	57848	51084	8042	59126
1994-95	32494	27349	59843	52927	10697	63624
1995-96	35168	27342	62510	55081	16900	71981
1996-97	32900	33906	66806	59005	17103	76108
1997-98	33858	34493	68351	61308	20589	81897
1998-99	32722	39808	72530	64544	23052	87596
1999-00	31949	57805	89754	79411	15862	95273
2000-01	32426	74097	106523	95614	902	96516
2001-02	32032	78706	110738	100004	-3056	96948
2002-03	33044	81989	115033	104140	-3061	101079
2003-04	33373	90434	123807	113463	-6619	106844
2004-05	33981	95861	129842	118579	-9383	109196
2005-06	32190	99409	131599	119750	-10021	109729
2006-07	33988	111502	145490	135260	-15964	119296
2007-08(p)	34118	121672	155790	144930	-18317	126613

(p): Provisional. @: Excludes LPG production from natural gas.

XVII.7 CONSUMPTION OF PETROLEUM PRODUCTS IN INDIA

('000' Tonne)

Year	Light Distillates			Middle Distillates			
	LPG	Petrol	Naphtha	Kerosene	ATF	HSDO	LDO
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*
1970-71	176	1453	904	3283	689	3837	1092
1971-72	212	1527	1164	3517	758	4340	1200
1972-73	244	1592	1297	3516	816	4770	1436
1973-74	269	1507	1534	3294	778	5404	1278
1974-75	289	1264	1713	2828	836	6950	1070
1975-76	336	1275	1836	3104	897	6595	878
1976-77	368	1316	2196	3322	956	7106	1082
1977-78	391	1391	2290	3634	1041	7736	1164
1978-79	408	1499	2515	3952	1154	8638	1216
1979-80	410	1490	2413	3872	1144	9801	1266
1980-81	405	1522	2325	4228	1125	10345	1122
1981-82	492	1599	2963	4693	1128	10832	1036
1982-83	601	1722	2958	5214	1145	12013	1067
1983-84	764	1891	2804	5524	1208	12600	1097
1984-85	953	2084	3125	5959	1336	13696	1198
1985-86	1241	2275	3106	6229	1453	14886	1123
1986-87	1497	2505	3249	6645	1603	16009	1156
1987-88	1686	2810	2852	7231	1654	17657	1245
1988-89	1962	3052	3364	7731	1713	18795	1437
1989-90	2268	3491	3350	8239	1775	20706	1486
1990-91	2415	3545	3446	8423	1677	21139	1506
1991-92	2650	3573	3461	8377	1559	22680	1462
1992-93	2866	3595	3382	8478	1565	24293	1407
1993-94	3113	3834	3191	8704	1741	25872	1370
1994-95	3434	4141	3400	8964	1903	28261	1369
1995-96	3922	4679	4154	9932	2082	32261	1311
1996-97	4267	4955	4030	10153	2154	35019	1223
1997-98	4803	5182	6590	11065	2108	36071	1235
1998-99	5352	5507	8891	12243	2112	37217	1278
1999-00	6421	5909	10801	11898	2197	39295	1512
2000-01	7016	6613	11673	11307	2249	37958	1399
2001-02	7728	7011	11728	10432	2256	36546	1592
2002-03	8351	7570	11929	10405	2269	36644	2063
2003-04	9305	7897	11868	10230	2484	37074	1619
2004-05	10245	8251	13993	9395	2811	39651	1476
2005-06	10456	8647	12194	9541	3296	40191	883
2006-07	10849	9285	13886	9505	3983	42896	720
2007-08(p)	12165	10332	13294	9365	4543	47669	667

(p) : Provisional

Contd...

XVII.7(Contd) CONSUMPTION OF PETROLEUM PRODUCTS IN INDIA

('000' Tonne)

Year	Heavy Ends				Refinery Fuel	Others*	Total
	Fuel Oils	Lubricants	Bitumen	Petroleum Coke			
1	2	3	4	5	6	7	8
1970-71	4664	545	777	107	1223	385	19135
1971-72	5142	362	1011	188	1228	650	21299
1972-73	5661	609	1109	141	1262	525	22978
1973-74	5912	612	1066	139	1229	552	23574
1974-75	5729	475	399	89	1197	463	23302
1975-76	5781	441	690	151	1226	463	23673
1976-77	5733	454	882	175	1299	511	25400
1977-78	5839	478	908	146	1451	521	26990
1978-79	6668	544	943	155	1478	549	29719
1979-80	7081	566	1069	185	1440	586	31323
1980-81	7473	593	1064	137	1365	557	32261
1981-82	7184	592	1292	174	1584	538	34107
1982-83	7301	605	1379	103	1738	549	36395
1983-84	7558	617	1050	114	1935	632	37776
1984-85	7944	664	935	234	2033	667	40828
1985-86	7900	700	1126	163	2491	670	43363
1986-87	8047	755	1309	208	2612	679	46274
1987-88	8144	791	1379	246	2522	721	48938
1988-89	8456	847	1498	316	2790	921	52882
1989-90	8820	926	1695	383	2684	956	56779
1990-91	8986	892	1581	290	2710	1135	57745
1991-92	9202	932	1706	266	2629	1106	59603
1992-93	9267	846	1823	152	2753	1228	61655
1993-94	9192	688	1824	132	2836	12945	63648
1994-95	9889	688	1939	197	3137	3328	70650
1995-96	11160	956	2005	319	3238	2050	78069
1996-97	11507	1013	2273	276	3490	2298	82658
1997-98	11491	1081	2178	227	3514	2259	87804
1998-99	12510	1097	2412	393	3700	1550	94262
1999-00	12453	1243	2879	328	5544	2150	102630
2000-01	12653	1115	2774	448	6900	4869	106974
2001-02	12982	1137	2584	1798	7273	4638	107705
2002-03	12738	1250	2986	2563	7650	5358	111776
2003-04		1427	3373	2877	8240	19597	115991
2004-05	13540	1347	3337	3129	8537	4459	120171
2005-06	12825	2081	3508	4928	9141	4663	122354
2006-07	12618	1900	3833	5441	10920	5833	131669
2007-08(p)	12717	2290	4506	5950	11751	5448	140697

(p) : Provisional

* : Includes those of light & middle distillates and heavy ends and sales through private parties.

Source: PPAC's report

XVII.8 SECTOR-WISE (END USE) CONSUMPTION OF SELECTED PETROLEUM PRODUCTS IN INDIA

('000' Tonnes)

Petroleum Product	Year	Transport	Plantation	Power Generation	Industry	Misc. Services	Private Sales	Total
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
High	1984-85	11839	128	140	1122	467	-	13696
Speed	1985-86	12880	149	160	1263	434	-	14886
Diesel Oil	1986-87	14008	155	161	1293	392	-	16009
	1987-88	15360	177	209	1500	411	-	17657
	1988-89	16822	146	132	1300	395	-	18795
	1989-90	18341	201	126	1512	457	-	20637
	1990-91	18813	318	104	1431	473	-	21139
	1991-92	20282	346	110	1416	526	-	22680
	1992-93	21726	388	108	1489	582	-	24293
	1993-94	23059	494	115	1512	698	-	25878
	1994-95	24742	621	229	1783	886	-	28261
	1995-96	28034	789	167	2386	878	7	32261
	1996-97	20276	6783	2284	3608	2068	0	35019
	1997-98	20662	6891	2390	3843	2285	0	36071
	1998-99	21367	6750	2576	4254	2270	0	37217
	1999-00	22386	7593	2622	3890	2796	8	39295
	2000-01	22197	7497	2596	3132	2516	20	37958
	2001-02	21662	7227	2509	2687	2430	31	36546
	2002-03	21832	7278	2497	2548	2379	110	36644
	2003-04	21772	7210	2526	2442	2925	199	37074
	2004-05	22505	7479	2769	2526'	2798	1564	39651
	2005-06	21578	7015	2683	2446	2586	3883	40191
	2006-07	23817	7914	2894	2902	3091	2248	42866
	2007-08(p)	23041	9011	3020	1968	9495	134	47669
Diesel Oil	1985-86	86	30	255	397	355	-	1123
	1986-87	86	30	273	433	334	-	1156
	1987-88	101	32	251	520	341	-	1245
	1988-89	96	33	346	604	358	-	1437
	1989-90	98	35	325	577	443	-	1478
	1990-91	86	41	282	638	454	-	1501
	1991-92	80	37	236	644	465	-	1462
	1992-93	85	35	211	647	429	-	1407
	1993-94	82	36	190	625	437	-	1370
	1994-95	83	35	169	641	441	-	1369
	1995-96	68	41	166	700	336	-	1311
	1996-97	66	34	184	633	306	-	1223
	1997-98	64	34	189	626	322	-	1235
	1998-99	63	41	170	646	358	-	1278
	1999-00	59	47	176	769	461	-	1512
	2000-01	58	46	215	681	399	-	1399
	2001-02	90	51	165	621	312	390	1629
	2002-03	40	56	173	754	390	650	2063
	2003-04	57	46	147	727	250	438	1619
	2004-05	49	37	88	621	290	391	1476
	2005-06	49	28	65	422	270	49	883
	2006-07	53	13	67	250	337	0	720
	2007-08(p)	35	3	77	203	350	0	667

(p) : Provisional

Contd..

XVII.8(Contd) SECTOR-WISE (END USE) CONSUMPTION OF SELECTED PETROLEUM PRODUCTS IN INDIA

(000' Tonne)

Petroleum Product	Year	Trans-port	Planta-tion	Power Generation	Industry	Misc. Services	Private Sales	Total
1	2	3	4	5	6	7	8	9
Furnace-Oil	1985-86	290	132	804	2337	243	0	3806
	1990-91	447	136	531	3150	198	0	4462
	1991-92	343	164	527	3692	211	0	4937
	1992-93	339	190	555	3962	227	0	5273
	1993-94	405	186	490	3603	342	0	5026
	1994-95	440	188	580	3944	685	0	5837
	1995-96	321	214	720	4836	405	475	6971
	1996-97	351	250	764	4691	478	660	7194
	1997-98	315	274	549	4865	648	517	7168
	1998-99	349	319	571	4824	704	1206	7973
	1999-00	351	286	515	4901	763	874	7690
	2000-01	318	276	481	4543	753	1293	7664
	2001-02	308	322	551	5057	847	1366	8451
	2002-03	263	376	488	4714	1100	1086	8027
	2003-04	339	252	371	4364	1881	1105	8312
	2004-05	352	**	314	1562	5827	1099	9154
	2005-06	478	**	302	1828	5613	700	8921
	2006-07	502	**	254	1830	5600	1083	9269
	2007-08(p)	315	**	281	1635	6400	839	9470
Low Sulphur Heavy Stock	1985-86	4	34	1526	2365	165	0	4094
	1990-91	13	49	1835	2605	22	0	4524
	1991-92	22	29	1798	2335	81	0	4265
	1992-93	10	35	1779	2122	48	0	3994
	1993-94	12	40	1676	2366	72	0	4166
	1994-95	2	27	1624	2258	141	0	4052
	1995-96	3	32	1747	2246	161	@	4189
	1996-97	3	25	1634	2480	171	@	4313
	1997-98	3	21	1614	2482	203	@	4323
	1998-99	5	43	1297	2980	212	@	4537
	1999-00	7	27	1363	3036	330	@	4763
	2000-01	1	22	1657	2948	361	@	4989
	2001-02	0	21	1403	2735	372	@	4531
	2002-03	0	44	1639	2694	334	@	4711
	2003-04	0	5	1569	2263	796	@	4633
	2004-05	0	0	1238	1453	1713	@	4404
	2005-06	0	0	560	1390	1957	@	3904
	2006-07	0	0	298	1358	1705	@	3361
	2007-08(p)	0	0	344	1304	1600	@	3248

(p) : Provisional, @ : LSHS sales through pvt. parties included in FO sales. Break-up not available.

** : Included in Miscellaneous services. Break-up is not available.

Source: PPAC's report

XVII.9 GROSS AND NET PRODUCTION (UTILISATION) OF NATURAL GAS IN INDIA

(Million cubic metres)

Year	Gross Prodn.	Reinjected	Flarred	Net Prodn. (Utilisation)
1	2	3	4	5
1970-71	1445	36	742	667
1971-72	1535	49	768	718
1972-73	1565	141	653	771
1973-74	1713	115	836	762
1974-75	2041	139	951	951
1975-76	2368	160	1084	1124
1976-77	2428	190	857	1381
1977-78	2839	184	1191	1464
1978-79	2812	148	953	1711
1979-80	2767	127	964	1676
1980-81	2358	43	793	1522
1981-82	3851	110	1519	2222
1982-83	4936	91	1888	2957
1983-84	5961	45	2515	3401
1984-85	7241	48	3052	4141
1985-86	8134	66	3118	4950
1986-87	9853	63	2715	7075
1987-88	11467	54	3445	7968
1988-89	13217	84	3883	9250
1989-90	16988	96	5720	11172
1990-91	17998	102	5131	12765
1991-92	18644	132	4072	14440
1992-93	18061	90	1854	16117
1993-94	18336	71	1924	16341
1994-95	19468	23	2108	17337
1995-96	22642	0	1710	20932
1996-97	23256	0	1932	21324
1997-98	26401	0	1856	24545
1998-99	27428	0	1722	25706
1999-00	28446	0	1561	26885
2000-01	29477	0	1617	27860
2001-02	29714	0	1677	28037
2002-03	31389	0	1426	29963
2003-04	31962	0	1056	30906
2004-05	31763	0	988	30775
2005-06	32202	0	877	31325
2006-07	31747	0	956	30791
2007-08(p)	32402	0	924	31478

(p) : Provisional

XVII.10 INDUSTRY-WISE OFFTAKES OF NATURAL GAS IN INDIA

(Million Cubic Metres)

Year	Energy Purpose							Non-Energy Purposes				Grand Total
	Power Generation	Industrial fuel	Tea Plantation	Domestic fuel	Captive Use/LPG shrinkage	Others	Total	Fertilizer	Petro-Chemicals	Others	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13
1970-71	261	116	15	-	68	-	460	187	-	-	187	647
1971-72	313	129	19	-	61	-	522	196	-	-	196	718
1972-73	339	148	20	Neg.	63	-	570	201	-	-	201	771
1973-74	323	157	22	Neg.	81	-	583	179	-	-	179	762
1974-75	354	164	29	6	80	-	633	318	-	-	318	951
1975-76	368	143	33	13	104	-	661	463	-	2	465	1126
1976-77	344	155	38	15	142	-	694	663	-	24	687	1381
1977-78	372	165	39	13	171	-	760	673	9	22	704	1464
1978-79	560	175	43	13	176	-	967	721	5	18	744	1711
1979-80	514	158	39	16	174	-	901	755	7	18	780	1681
1980-81	492	163	45	14	176	-	890	611	5	16	632	1522
1981-82	612	166	47	15	364	-	1204	991	8	19	1018	2222
1982-83	1025	185	51	14	499	-	1774	1155	7	21	1183	2957
1983-84	1209	230	58	16	572	-	2085	1283	10	23	1316	3401
1984-85	1454	250	62	18	721	-	2505	1603	10	23	1636	4141
1985-86	1299	223	78	21	795	-	2416	2500	10	24	2534	4950
1986-87	2041	257	96	25	1295	-	3714	3335	-	26	3361	7075
1987-88	2721	281	99	34	1313	-	4448	3490	-	30	3520	7968
1988-89	1823	526	87	42	1329	-	3807	5334	21	88	5443	9250
1989-90	2140	695	78	41	1526	-	4480	6578	29	85	6692	11172
1990-91	3634	827	89	50	1775	-	6375	5612	408	371	6391	12766
1991-92	4774	766	108	72	2165	-	7885	5509	532	516	6557	14442
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	4840	36	16424	8592	666	1203	10461	26885
2000-01	8801	2870	151	335	5004	38	17199	8480	779	1402	10661	27860
2001-02	9214	2979	147	485	5339	70	18234	7957	909	937	9803	28037
2002-03	10510	2939	119	654	5409	136	19767	7955	1027	1215	10197	29964
2003-04	11478	3099	142	93	4865	1263	20940	7889	1128	949	9966	30906
2004-05	12099	3569	142	343	4944	231	21328	8173	1236	38	9447	30775
2005-06	11878	3780	151	75	5048	1120	22052	7762	1175	36	8973	31025
2006-07	11963	3205	170	443	5034	40	20855	8497	1377	639	10513	31368
2007-08*	12037	3324	160	39	5618	1258	22436	9822	1432	638	11892	34328

@ : Excludes offtakes of natural gas by ONGC.

*: Provisional.

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	:	GAIL (India) Ltd.
HPCL	:	Hindustan Petroleum Corporation 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 Economies.

(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, LPG, 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 Viscosity
HVI	:	High Viscosity Index
KL	:	Kilolitre
LR I	:	Large Range I (45,000-79,999 dwt).
LR II	:	Large Range I I (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
MMSCMI	:	Million Standard Cubic Metres Per Day
CNG	:	Compressed Natural Gas
MoU	:	Memorandum of Understanding

METRIC UNITS

LINEAR

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

AREA

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

WEIGHT

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

CAPACITY

10 Millilitres	-	1 Centilitre
10 Centilitres	-	1 Decilitre
10 Decilitres	-	1 Litre
10 Litres	-	1 Decalitre
10 Decalitres	-	1 Hectolitre
10 Hectolitres	-	1 Kilolitre

VOLUME

1000 Cubic Millimetre	-	1 Cubic Centimetre
1000 Cubic Centimet	-	1 Cubic Decimetre.
1000 Cubic Decimetr	-	1 Cubic Metre

CONVERSION FACTORS USED IN THE OIL TRADE LINEAR AND SQUARE MEASURES

LENGTH

1 Inch	-	25.4 Millimetres (mm)
	-	0.0254 Metres.
1 Foot	-	12 Inches.
	-	0.333333 Yard
	-	0.3048 Metre (m).
1 Yard	-	36 Inches.
	-	3 Feet
	-	0.9144 Metre (m)
1 Metre	-	39.3701 Inches.
	-	3.28084 Feet
	-	1.09361 Yards
	-	0.001 Kilometre (km.)
1 Kilometre	-	1000 Metre (m)
	-	0.621371 Mile
1 Mile	-	1760 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 Millimetres (mm^2).
1 Square Foot	-	0.0929030 Square Metre (m^2).
1 Square Yard	-	9 Square Feet.
		0.836127 Square Metre (m^2).
1 Square Metre	-	10.7639 Square Feet.
	-	1.19599 Square Yards.
1 Acre	-	4840 Square Yards
	-	4046.86 Sq. Metres (m^2)
	-	0.404686 Hectares.
1 Hectare	-	10,000 Square Metres (m^2).
	-	2.47105 Acres.
	-	0.01 Square Kilometre (km^2)
1 Square Kilomel	-	100 Hectares.
	-	0.386102 Square Mile.
1 Square Mile	-	640 Acres.
	-	258.999 Hectares
	-	2.58999 Square Kilometres (km^2).

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) Cal	-	4.1868 Joules (J).
115 C calorie	-	4.1855 Joules (J)
1 Thermochemical Calorie	-	4.184 Joules (J)
1 Kilo Calories (IT)	-	1000 Calories
	-	3.96832 British Thermal Units
	-	1.163 Watt Hours
	-	1 Thermie
1 Kilowatt Hour	-	3412.14 British Thermal Units
	-	859.845 Kilo Calories
	-	3.6 Megajoules (MJ)
	-	1.34102 Horse Power Hours.
1 Therm	-	100,000 British Thermal Units (BTU).
	-	105.506 Megajoules (MJ)
	-	29.3071 Kilowatt Hours
	-	25.1996 Thermies
	-	25200 Kilocalories
1Metric Horsepower	-	735.499 watts (W).
(Pferdestaerke or Cheval Va	-	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 Horsespower
	-	1.34102 Imperial Horsepower.
	-	1000 Watts.
1 BTU	-	0.252 Kilocalories
	-	1.055 Kilojoules

CUBIC MEASURES
VOLUME

1 Cubic Inch	-	16.3871 Cubic Centimetres (cm^3)
1 Pint	-	0.568261 Cubic Decimetres (dm^3) 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 (M^3)
1 Imperial Gallon	-	277.420 Cubic Inches.
	-	4.54609 Cubic Decimetres (dm^3) or Litres
	-	1.20095 American Gallon.
	-	0.160544 Cubic Foot,
	-	0.02894 American Barrel.
	-	0.00454609 Cubic Metre (m^3)
1 Cubic Foot	-	28.3168 Cubic Decimetres (dm^3) or Litres
	-	7.48052 American Gallons.
	-	6.22883 Imperial Gallons.
	-	0.17811 American Barrel.
	-	0.0283168 Cubic Metre (m^3).
1 Americal Barrel	-	9702 Cubic Inches.
	-	158.987 Cubic Decimetres (dm^3) or Litres.
	-	42 American Gallons.
	-	34.9726 Imperial Gallons.
	-	5.6146 Cubic Feet.
	-	0.158987 Cubic Metre (M^3).
1 Cubic Metres	-	1000 Litres.
	-	264.172 American Gallons
	-	219.969 Imperial Gallons.
	-	35.3147 Cubic Feet.
1 Kilolitre	-	1000 Cubic Decimetres (dm^3) or Litres
	-	6.28981 Americal Barrels.
1 Gross Ton (Shipping)	-	2.83168 Cubic Metres or 100 Cubic Feet
	-	or Permanently Enclosed Space.
1 Ton of Liquified Methane	-	Approx. 16 Barrels.
	-	Approx 1400 Cubic Metres of Natural Gas depending upon Methane Content

PRODUCT CONVERSION FACTOR
(Conversion Factor From Volume to Tonnes at Natural Temp.)

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 144/145	1449	0.6901	9.11
Aviation Spirit 73 ON	1432	0.6983	9.01
Motor Spirit 79 ON	1427	0.7008	8.98
Motor Spirit 80 ON	1427	0.7008	8.98
Motor Spirit 93 ON	1386	0.7215	8.72
Motor 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 Alcohol	1286	0.7776	8.09
Benzol	1154	0.8666	7.26
SBP Spirit/Hexane	1457	0.6863	9.16
Mineral Turpentine (Laws 140/	1302	0.7680	8.19
Liquified Petroleum Gas	1785	0.5602	11.23
Superior Kerosene	1285	0.7782	8.08
Inferior Kerosene	1265	0.7905	7.96
Power Kerosene (Vap. Oil)	1251	0.7994	7.87
High Speed Diesel	1210	0.8263	7.61
Light Diesel Oil	1172	0.8532	7.37
Malarial Oil	1172	0.8532	7.37
Special Larvicides	1175	0.8511	7.39
Furnace Oil	1071	0.9337	6.74
Tea Drier Oil	1071	0.9337	6.74
Hot Heavy Stock/LSHS	1017	0.9833	6.40
Refinery Gas/Ref. Boiler Fuel	1071	0.9337	6.74
Lubricants/Greases	1114	0.8977	7.01
Jute Batching Oil/Wash Oils	1167	0.8569	7.34
Bitumen	1002	0.9980	6.30
SBP/Alcohol Mixture	1414	0.7072	8.89
Methanol Mixture	1106	0.9042	6.96
Carbon Black Feed Stock	1134	0.8818	7.13
Carburetter Testing Fluid	1388	0.7205	8.73
Benzene	1131	0.8812	7.05
Toluene	1148	0.8711	7.19
Demineralised Water	1002	0.9930	6.30
S. Glass Kleanzit	1003	0.9970	6.31
Miscellaneous	1114	0.8977	7.01
Wax/P. Coke/Chemicals	1114	0.8977	7.01
Aromex	1221	0.8190	7.68
Linear Alkyl Benzene Feed St	1205	0.8239	7.88

VOLUME PER METRIC TON OF PETROLEUM PRODUCTS

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

CONVERSION FACTORS FOR DUTY REDUCTION FROM 15^0 C T0 :

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	0.9864
9. Light Diesel Oil	0.9877
10. Furnace Oil	0.9899
11. Special Boiling Point Spirit 55	0.9820
12. Special Boiling Point Spirit 64	0.9806
13. Solvent 1425	0.9820
14. Hexane	0.9806

PETROLEUM SPECIFIC GRAVITIES

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

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

PRODUCT SPECIFIC GRAVITY RANGES

Products	Specific Gravity	Barrels Per tonne
Crude Oils	0.80-0.97	8.0-6.6
Aviation gasolines	0.70-0.78	9.1-8.2
Motor Gasolines	0.71-0.79	9.0-8.1
Kerosene	0.78- 0.84	8.2-7.6
Gas 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
Asphaltic Bitumens	1.00-1.10	6.4-5.8

CRUDE OIL CONVERSIONS@

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

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

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

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
Residual Fuel Oils	0.985
Others	0.960

AVERAGE INTERNATIONAL CALORIFIC VALUE OF DIFFERENT FUELS

Products	K Cals./Kg. (M. Cals/Tonne)	BTUs/Kg.
1	2	3
A. Oil Equivalence		
Average Crude Oil/NGLS(a)	10,300	40,870
United Nations	10,175	40,375
B. Oil 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	916
Firewood@	4,750	18,848
Charcoal@	6,900	27,379
E. Natural Gas-Production: (Average) India		**K cals/Cu. Metre**
		8,000-9,480
F. Electricity:		
Output Basis(c)		860
Fuel Input basis(d)		2,500-2,700

(a) Represent average global factor for crude Oil/NGL production. For a specific crude oil, relevant conversion factor may have to be used.

(b) Factor used by United Nations to represent average calorific value of hard coals for purposes of standardising coal production to hard coal equivalent base.

(c) Calorific value of 1kwh of electricity.

(d) Represents K cals of hydro-carbon energies required to produce 1 kwh of electricity.

@ : As per Report of Fuel Policy Committee 1974

Conversion Factor: 1 K Cal=4.19 KJoules.

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	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	1.450		
6	Residual Fuel Oil	1.416		
7	Liquified Petroleum Gases	1.554		
8	Natural Gasoline	1.532		
9	Condensate	1.512		
10	Other Natural Gas Liquids	1.512		
11	Natural Gas (in Terajoules)*	34.12		
12	Other Gases(in Terajoules)*	34.12		
13	Hydro, Nuclear and Geothermal Electricity (In 1,000 kwh)	0.123		

*= The average calorific value of gas is measured in Kcal/m^3 (st.) i.e. in Kcal per cubic metreof gas under standard conditions of 15° C, 013.25 mbar, dry.

COAL REPLACEMENT AND EQUIVALENTS OF DIFFERENT FUELS

Fuels	Original Unit	Unit million tonnes of coal equivalent (mtce)	Unit million tonnes of coal replacement (mtcr)
1	*2*	*3*	*4*
Coal coking 6640 K cal/Kg. Non-coking coal Used in steam Generation (5000 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: 10,000 Kcal/Kg.			
Black Products:(Fuel Oil, FO, Refinery,Fuel,LSHS&HHS)	1mt	2.0	2.0
Kerosene & LPG	1mt	2.0	8.0
HSDO & LDO	1mt	2.0	9.0
Motor Spirit & Jet Fuel	1mt	2.0	7.5
Natural Gas(9000k CAL/kg)	$109m^3$	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 metre = 9000 K cal).
(1 cub.ft.=1000 BTU)	=	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
(1 Kwh=860 KCal)		

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

Items	Million Tonnes of Oil equals
1 Heat Units	
10 million million BTU	0.25
100 million therms	0.25
10,000 teracalories	1
2 Solid Fuels	
1 million tonnes of coal	0.67
1 million tonnes of lignite	0.33
approximates to	
3 Natural Gas	
1 thousand million cub, metres(BCM)	0.9
4 Town Gas	
1 thousand million cub. Metres (BCM)	0.42
5 Electricity	
12 thousand million KWH	0.86

One million tonne of oil produces about 4000 million units (KWH) of electricity in a modern power station.

Source:BP Statistical Review of World Energy.

EXCHANGE RATES
1971-2006 and 1971-72 to 2007-08

(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	7.4495
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	12.84	12.498	12.048	12.091	12.369	1985-86	12.23725
1990	17.03	17.344	17.554	18.087	17.504	1990-91	17.9485
1991	18.31	20.526	25.757	25.878	22.742	1991-92	24.51125
1992	25.91	25.890	25.89	25.979	25.918	1992-93	27.5525
1993	27.89	31.345	31.371	31.370	30.493	1993-94	31.36425
1994	31.37	31.310	31.371	31.388	31.375	1994-95	31.40
1995	31.4	31.411	32.045	34.745	32.401	1995-96	33.45
1996	34.65	34.743	35.643	35.740	35.193	1996-97	35.50
1997	35.81	35.813	36.029	37.560	36.321	1997-98	37.16
1998	39.26	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
2001	48.56	47.57	47.30	47.98	47.35	2001-02	47.69
2002	48.58	48.96	48.60	48.26	48.60	2002-03	47.50
2003	47.77	47.06	46.00	45.50	46.58	2003-04	45.95
2204	44.65	45.30	46.32	44.68	45.24	2004-05	44.93
2005	43.69	43.62	43.84	45.37	44.13	2005-06	44.27
2006	44.4	45.47	46.37	44.99	45.31	2006-07	42.25
2007*	44.17	41.23	40.52	39.46	41.35	2007-08	40.26

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 8, 1946 to September 21, 1949.

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

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

(4) Exchange rate for the calender years 2004 & 2005 are averages based on reference rate Archieve of RBI web site.

Source: http://www.rbi@nic.in & Economic Survey.

GMGIPMRND