

INDIAN PETROLEUM & NATURAL GAS STATISTICS

2005-2006

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 its annual bulletin "***Indian Petroleum & Natural Gas Statistics***" containing comprehensive information on the Oil & Gas Sector, beginning with 1967. The current bulletin provides information both in terms of calendar year (2005) and financial year (2005-06), to address the demands of the different users. It also includes in a nutshell the chronology of important events and notifications issued during the financial year of the Indian Oil Sector.

The bulletin represents the sustained and immense efforts of the Economic Division of the Ministry.

We would appreciate suggestions to improve the bulletin.

(M.S.Srinivasan)
Secretary to the Government of India

Shastri Bhawan
New Delhi-110001
April, 2007

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 draft X 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, Dr.P.G.S.Rao, Economic Officer, Ms. Kanwaljit Kaur, Jr. Investigator and Mrs. Parvesh Goswami, U.D.C.

Suggestions for its improvement would be duly appreciated.

(Aditi S Ray)
Economic Adviser

Shastri Bhawan
New Delhi-110001
April, 2007

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 2005-06	7
I.2	(a) Chronology of important events of Indian Petroleum Industry during 2005-06	8-23
	(b) Notifications issued during 2005-06	24-35
I.3	Progress of Indian Petroleum Industry 1947-48 to 2005-06	36
I.4	Commodity balance of Crude Oil and Petroleum Products	37
I.5	(a) Growth of Petroleum Industry in India (Calendar Years)	38
	(b) Growth of Petroleum Industry in India (Financial Years)	39
I.6	(a) Petroleum Energy in India: 1990 to 2005 (Calendar Years)	40
	(b) Petroleum Energy in India: 1990-91 to 2005-06 (Financial Years)	41
II	**EXPLORATION**	
II.1	Area-wise deployment of deep drilling rigs, wells & metreage drilled by ONGC & OIL from 1970-71 to 2005-06	42
II.2	Exploratory and development drilling by ONGC & OIL	43
II.3	Status of wells as on 1st April of each year	44
II.4	State-wise geological surveys achievements upto 31.3.2006	45
II.5	State-wise achievements of geophysical field parties in India since inception upto 31.3.2006	46
II.6	Basin-wise/State-wise achievements of drilling since inception upto 31.03.2006	47
II.7	State-wise/Basin-wise oil and gas fields in India as on 1.4.2006	48
III	**CRUDE OIL:**	
III.1	Reserves of crude oil in India	49
III.2	Company-wise production of crude oil in India (Calendar Years)	50
III.3	Company-wise production of crude oil in India (Financial Years)	51
III.4	State-wise production of crude oil in India (Calendar & Financial Years)	52
IV.	**NATURAL GAS:**	
IV.1	Reserves of natural gas in India	53
IV.2	(a) State-wise gross production of natural gas in India (Calendar Years)	54
	(b) State-wise gross production of natural gas in India (Financial Years)	55
IV.3	State-wise gross and net production of natural gas in India.	56-58
IV.4	State-wise utilisation of natural gas in India (Financial Years)	59
IV.5	Industry-wise offtakes of natural gas in India	59

S.No.	SUBJECT	PAGE NO.
V.	**REFINING:**	
V.1	Petroleum refining capacity in India	60
V.2	(a) Refinery crude throughput and production of petroleum products during 1961 to 2005	61
	(b) Refinery crude throughput and production of petroleum products during 1961-62 to 2005-06	61
V.3	Refinery-wise crude run and total production of petroleum products during 1990-91 to 2005-06	62-63
V.4	(a) Production of Petroleum Products/Pattern of Production: 1991 to 2005	64
	(b) Production of Petroleum Products/Pattern of Production: 1991-92 to 2005-06	65
VI.	**SALES/CONSUMPTION:**	
VI.1	(a) Product-wise sales/consumption of petroleum products during 1999-2005	66
	(b) Product-wise sales/consumption of petroleum products during 1999-00 to 2005-06	67
	(c) Product-wise consumption of petroleum products	68
	(d) Time series consumption of petroleum products	69
VI.2	Sales/consumption of petroleum products and market share of oil companies in India from 1980-81 to 2005-06	70
VI.3	Deliveries made to international/coastal bunkers during 1990-91 to 2005-06	71
VI.4	State-wise consumption of major petroleum products during 2005-06	72-73
VI.5	State-wise per capita sales/consumption of petroleum products and per capita consumption of selected petroleum products	74
VI.6	Sector-wise consumption (end use) of selected petroleum products	75-79
VI.7	Consumption of diesel oil in Indian Railways during 1960-61 to 2005-06	80
VI.8	Industry/Plant-wise offtakes of Naphtha during the years 2000-01 to 2005-06	81-82
VI.9	Plant/customer-wise offtakes of FO/LSHS during 1999-00 to 2005-06	83-86
VI.10	State-wise fuel consumption and power generation in gas turbine and diesel power stations in India during 2004-05	87
VI.11	State-wise consumption of fossil fuels for electricity generation from thermal power stations in India during 2004-05	88
VII.	**FOREIGN TRADE:**	
VII.1	Import/Export of crude oil and petroleum products from 1970 to 2005	89
VII.2	Import/Export of crude oil and petroleum products from 1970-71 to 2005-06	90
VII.3	Import/Export of crude oil and petroleum products (product-wise) from 2002 to 2005	91
VII.4	Import/Export of crude oil and petroleum products (product-wise) from 2002-03 to 2005-06	92
VII.5	Trends in India's overall trade balance and trade balance with OPEC countries	93
VII.6	India's foreign exchange reserves: 1970-71 to 2005-06	94
VII.7	India's Pol. Imports as proportion to overall Exports from the Country: 1970-71 to 2005-06	94
VIII.	**MANPOWER:**	
VIII.1	Manpower employed in the petroleum industry in India 1995-2006 (As on 31st March)	95

S.No.	SUBJECT	PAGE NO.
VIII.2	Category-wise manpower employed in the petroleum industry in India 1995-2006 (As on 31st March)	95
VIII.3	Category-wise manpower employed in various sectors of petroleum industry in India 1995-2006(As on 31st March)	96
IX.	**PRICES:**	
IX.1	Wholesale price indices of selected petroleum products	97
IX.2	(a) Prices of indigenous crude oil in India with rate of royalty & oil development cess	98
	(b) Consumer and producer prices of natural gas	99
IX.3	Price build-up of selected petroleum-products in major cities as on 01.04.2006	100-102
IX.4	Trends in retail selling prices of selected petroleum products in metropolitan towns in India	103-104
IX.5	Rates of dealer's commission for MS, HSDO and LPG in India	105
X.	**EXCISE/CUSTOM DUTIES AND SALES TAX:**	
X.1	Realisation of excise and custom duties from crude oil and petroleum products	106
X.2	Percentage share of central excise on POL to total central excise and to net national product	107
X.3	Composite unit incidence of excise/custom duties on petroleum products	108
X.4	Royalty and oil development cess paid by oil companies on production of crude oil and natural gas during 1975-76 to 2005-06	109
X.5	Sales tax rates applicable on crude oil, natural gas and petroleum products in different states as on 01.04.2006	110-113
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 1999-00 to 2005-06	114
XI.	**TRANSPORTATION:**	
XI.1	Tonnage of Indian tankers fleet – 1975 to 2006	115
XI.2	Indian Tonnage as on 31.3.2006	116-117
XI.3	Share of traffic of petroleum products in the total traffic handled at major ports	118-120
XI.4	Movement of POL traffic on Railways since 1970-71	121
XI.5	Rail freight rates in respect of petroleum products	121
XI.6	Crude oil, natural gas and product pipelines in India	122
XII.	**MARKETING NETWORK:**	
XII.1	Retail outlets in India as on 1st January of each year, company-wise	123
XII.2	State-wise number of retail outlets, LDO/SKO dealers and LPG distributors as on 1.4.2006	124
XII.3	State-wise and company-wise retail outlets as on 1.4.2006	125
XII.4	State-wise and company-wise LPG domestic consumers as on 01.04.2006	126
XII.5	CNG activities in India as on 01.04.2006	127
XII.6	Supply Plan of Green Fuels in India	128

S.No.	SUBJECT	PAGE NO.
XIII.	**ENERGY:**	
XIII.1	Gross Production of energy by various sources in India	129
XIII.2	Trends in commercial energy production	130
XIII.3	Energy consumption by fuel and by Sector	
	(a) Percentage share of different fuels in commercial energy consumption	130
	(b) Percentage share in final energy consumption by different sectors	130
	PART-II	
XIV.	**INTERNATIONAL PETROLEUM STATISTICS:**	
XIV.1	(a) World proved reserves of crude oil at end 2005	133-134
	(b) World proved reserves of natural gas at end 2005	135-136
XIV.2	World crude oil production during 2000-2005	137-138
XIV.3	Crude oil production by OPEC member countries	139
XIV.4	World production of natural gas 2000-2005	140-141
XIV.5	World consumption of natural gas 2000-2005	142-143
XIV.6	Productivity of producing wells in OPEC member countries – 2005	144
XIV.7	World oil refining capacities at end 2000-2005	145
XIV.8	World refinery crude throughput 2000-2005	146
XIV.9	Country-wise world oil consumption 2000-2005	147-148
XIV.10	Product-wise regional consumption of main petroleum products during 2000-2005	149-150
XIV.11	World oil production, consumption and relative deficit/surplus in each country/region during 2004 and 2005	151
XIV.12	World crude oil & petroleum products imports and exports 2005	152
XIV.13	Exports of crude oil & refined petroleum products from OPEC	153
XIV.14	Crude oil imports from OPEC member countries by regions 1994-2005	154
XIV.15	Crude oil exports from OPEC member countries by destination 2005	155
XIV.16	Value of petroleum exports from OPEC member countries 1994-2005	156
XIV.17	Spot prices of key OPEC crude since 1990	157
XIV.18	Crude oil spot prices in US$ per barrel	158
XIV.19	Petroleum products spot prices in US$ per barrel	158
XIV.20	Natural gas prices for Industry and Household use	159
XIV.21	Crude oil import costs in US$ per barrel	160
XIV.22	Development of spot prices of key OPEC crude oils	161
XIV.23	Development of spot prices of major petroleum products in key trading centres of the world during 2003, 2004 and 2005	162
XIV.24	World survey of selected petroleum products prices 2005	163
XIV.25	Posted airfield prices of Jet A-1 fuel at major international airports as on 1st April of each year	164

S.No.	SUBJECT	PAGE NO.
XIV.26	International petroleum price index during 1990-2005	165
XIV.27	Tanker fleet development in OPEC members 2002-2005	166
XIV.28	World tanker fleet by age	166
XIV.29	Inter-area total oil movements- 1999-2005	167
XIV.30	World primary energy consumption by fuel-2005	168-169
XIV.31	Per capita primary energy consumption during 2005 - Some international comparisons	170-171
XIV.32	Per capita consumption of main petroleum products-Some international comparisons – 2005	172
XIV.33	Trends in world primary energy consumption-1980-2005	172
XIV.34	Primary energy consumption in selected countries of the world-2000-2005	173-174
XIV.35	Economic indicators of OPEC nations during 2005	175
XIV.36	World imports of natural gas by country-1999-2005	176
XIV.37	World imports of refined products by country-2000-2005	177
XIV.38	World crude oil exports by country-2000-2005	178
XIV.39	World exports of refined products by country-1999-2005	179
	PART-III	
	PLAN STATISTICS	
XV.1	Tenth Plan outlay of Public Sector Undertakings under the purview of Ministry of Petroleum & Natural Gas	183
XV.2	Demand for petroleum products	184
XV.3	Import availability ratios of crude oil & petroleum products	184
XV.4	Value of crude oil & POL Products imported during V, VI, VII, VIII & IX five year plan periods	184
XV.5	X Plan projection profile for crude oil and natural gas production	185
XV.6	Product availability during X Plan	185
XV.7	Refinery-wise capacity addition during the Tenth Plan	186
XV.8	Refining capacity addition during the Tenth Plan	186
XV.9	Crude oil processing and import during the Tenth Plan	187
XV.10	Value of import of crude oil and petroleum products during the Tenth Plan Period	187
XV.11	Estimates of demand of petroleum products during the Tenth Plan	188
	PART-IV	
	FINANCIAL PERFORMANCE	
XVI.1	Dividend paid by Public Sector Undertakings under the Ministry of Petroleum & Natural Gas for fiscal year 2005-06	191
XVI.2	Equity capital of Public Sector Undertakings under the Ministry of Petroleum & Natural Gas as on 31st March 2006	191
XVI.3	Statement showing profit after tax earned by Public Sector Undertakings under the Ministry of Petroleum & Natural Gas during 1998-99 to 2005-06	192

INDIAN ECONOMY - SELECTED INDICATORS

Indicator	Unit/base	1990-91	1995-96	2000-01	2002-03	2003-04	2004-05	2005-06*	
1	2	3	4	5	6	7	8	9	
1. Geographical Area	M.Sq.Km.	3.29	3.29	3.29	3.29	3.29	3.29	3.29	
2. Population	Million	839	927	1019	1055	1073	1087	1112	
3. Gross National Product at factor cost :									
(i) At current prices	Rs.Billion	5034	10598	19027	22486	25312	28336	32260	Q
(ii) At constant prices+	"	6837	8870	18422	20289	22047	23677	25808	Q
4. Net National Product at factor cost :									
(i) At current prices	Rs.Billion	4501	9419	16964	19938	22465	25011	28468	Q
(ii) At constant prices+	"	6142	7878	16440	18014	19596	21034	22952	Q
5. Per Capita Net National Product :									
(i) At current prices	Rupees	5365	10149	16648	18899	20936	22946	25716	Q
(ii) At constant prices+	"	7321	8489	19133	17075	18263	19297	20734	Q
6. Foreign Exchange Reserves									
(i) Gold++	Rs.Billion	68.28	156.58	127.11	167.85	182.16	196.86	256.74	
(ii) SDR	Mn. of SDRs.	76	56	2.0	3.0	2.0	3.0	2.0	
(iii) Foreign Exchange	Rs.Billion	43.88	584.46	1844.8	3414.76	4662.15	5931.21	6473.27	
Foreign Exchange Rate	Rs./US$	17.94	33.45	45.68	48.40	45.95	44.93	44.27	
7. Foreign Trade :									
(i) Import	Rs.Billion	431.98	1226.78	2308.73	2972.06	3591.08	5010.65	6604.09	
(ii) Export	"	325.53	1063.53	2035.71	2551.37	2933.67	3753.4	4564.18	
(iii) Balance of Trade	"	-106.45	-163.25	-273.02	-420.69	-657.41	-1257.25	-2039.91	
8. Index of Production :									
(i) Agricultural	@	148.4	160.7	165.7	150.4	170.2	163.9	175.5	
(ii) Industrial	1993-94=100	212.6***	123.3	162.6	176.6	189.0	204.8	221.4	
9. Wholesale Price Index :	1993-94=100	73.7	121.6	155.7	166.8	175.9	187.2	195.5	
10. Consumer Price Index:									
(i) Industrial Workers	1982=100	193	313	444	482	500	520	542	^
(ii) Agricultural Labourers	1986-87=100	803**	234 #	305	319	331	339	353	
(iii) Urban non-manual workers	1984-85=100	169	264	377	410	424	441	463	
11. Employment : !									
(i) Public Sector	Million	19.06	19.43	19.14	18.58	18.20	N.A.	N.A.	
(ii) Private Sector	"	7.68	8.51	8.65	8.42	8.24	N.A.	N.A.	
Total	"	**26.73**	**27.94**	**27.79**	**27.00**	26.44	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.	
12. Energy Generation (Gross) :									
Coal	Mn.Tonne	211.73	270.13	309.63	341.27	361.25	382.61	407.40	
Lignite	"	13.77	22.14	22.95	26.02	27.96	30.34	30.06	
Natural Gas	Bn.Cub.Mtr.	17.998	22.639	29.477	31.389	31.962	31.763	32.202	
Crude Oil	Mn.Tonne	33.02	35.17	32.43	33.04	33.37	33.98	32.19	
Petroleum Products(Incl RBF)	"	51.27	58.32	102.51	111.79	121.70	127.12	128.88	
13. Electricity Generated (Gross)									
(i) Utilities									
Hydel	B.KWH	71.7	72.6	74.5	64.0	75.2	84.6	99.9	
Thermal	"	186.5	299.3	408.1	449.3	472.1	492.8	506	
Nuclear	"	6.1	8.0	16.9	19.4	17.8	17	17.3	
Total	"	264.3	379.9	499.5	532.7	565.1	594.4	623.2	
(ii) Non-utilities	"	25.1	38.2	55.0	63.8	68.2	71.4	74.1	
Grand Total	"	**289.4**	**418.1**	**554.5**	**596.5**	**633.3**	665.8	697.3	

^: The current series of CPI for industrial workers with 2001 base was introduced i.e Jan. 2006 index

*: Provisional. N.A. : Not Available. **: Old base 1960-61=100 Q : Quick Estimates.

@ : 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.

! : As on 31 March ++ : Gold is valued at Rs. 84.39 per 10 gms from May 1966 upto Sept. 1990 and closer to international market prices w.e.f. Oct. 17, 1990.

: November-March.

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*
1	2	3	4	5	6	7	8	9
1. Reserves !								
(Balance Recoverable)								
(i) Crude Oil	Mn.Tonne	660	703	732	741	733	739	786
(ii) Natural Gas	Bn.Cub.Mtr.	648	760	763	751	854	923	1101
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
(ii) Petroleum Products (excl. RBF)	"	97.09	100.07	100.43	104.13	107.75	111.63	111.94
3. Production :								
(i) Crude Oil	"	31.95	32.43	32.03	33.04	33.37	33.98	32.19
(ii) Petroleum Products	"	79.41	95.61	100.00	104.14	113.46	118.58	119.75
(iii) LPG from natural gas	"	0.93	2.04	2.21	2.37	2.32	2.24	2.19
4. Imports & Exports								
(i) Gross Imports :								
(a) Qty : Crude Oil	Mn.Tonne	57.80	74.10	78.71	81.99	90.43	95.86	99.41
Pol. Products	"	16.61	9.27	7.01	7.23	7.90	8.83	11.68
Total (a)	"	74.41	83.37	85.72	89.22	98.33	104.69	111.09
(b) Value:Crude Oil	Rs.Billion	400.28	659.32	603.97	761.95	835.28	1170.03	1717.02
Pol.Products	"	141.86	120.93	72.49	88.47	96.77	148.87	255.75
Total (b)	"	542.14	780.25	676.46	850.42	932.05	1318.90	1972.77
Pol. Imports as per DGCI&S	"	454.21	714.97	667.70	853.67	945.20	1340.94	1946.4
(ii) Exports :								
(a) Qty :								
Pol. Products	Mn.Tonne	0.75	8.37	10.07	10.29	14.62	18.21	21.51
(b) Value:								
Pol.Products	Rs.Billion	6.98	76.72	82.19	108.68	167.81	299.28	467.85
(iii) Net Imports :								
(a) Qty : Crude Oil	Mn.Tonne	57.80	74.10	78.71	81.99	90.43	95.86	99.41
Pol. Products	"	15.86	0.90	-3.06	-3.06	-6.72	-9.38	-9.83
Total (a)	"	73.66	75.00	75.65	78.93	83.71	86.48	89.58
(b) Value:Crude Oil	Rs.Billion	400.28	659.32	603.97	761.95	835.28	1170.03	1717.02
Pol.Products	"	134.88	44.21	-9.70	-20.21	-71.04	-150.41	-212.10
Total (b)	"	535.16	703.53	594.27	741.74	764.24	1019.62	1504.92
(iv) Unit Value of Crude oil imports(gross)	Rs./MT	6925	8898	7673	9293	9237	12206	17272
5. India's Total Exports	Rs.Billion	1595.61	2035.71	2090.18	2551.27	2836.05	3753.4	4564.18
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	43.2
(ii) Net Imports	%	33.5	34.6	28.4	29.1	26.9	27.2	33.0
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
(ii) Royalty from gas	"	5.47	6.08	6.59	7.78	8.54	8.29	86.37
(iii)Oil Development Cess	"	27.16	27.28	28.78	50.91	51.43	55.37	51.96
(iv) Excise & Custom duties	"	326.62	359.12	361.04	451.27	507.33	563.95	631.43
(v) Sales Tax	"	181.06	233.75	200.90	297.41	328.49	390.00	459.39
(vi) Dividend	"	25.87	34.82	32.87	67.94	63.10	94.36	95.45
8. Natural Gas :								
(i) Gross Production	Bn.Cub.Mtr.	28.446	29.477	29.714	31.389	31.962	31.763	32.202
(ii) Utilisation	"	26.885	27.860	28.037	29.963	30.906	30.775	31.025

* : 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 2005-06

I.	**Reserves**			
	(a) Crude Oil (MMT)			
	As on 1.4.2006			1281
	As on 1.4.2005			786
	(b) Natural Gas (BCM)			
	As on 1.4.2006			1075
	As on 1.4.2005			1101
II.	**Self-sufficiency in Oil**			
	(a) In 2005-06			26%
	(b) In 2004-05			28%
III.	**Crude Oil Production (MMT)**			
	(a) In 2005-06			32.19
	(b) In 2004-05			33.98
IV.	**Consumption of Petroleum Products (MMT)**			
	(a) In 2005-06			111.94
	(b) In 2004-05			111.63
V.	**%age variation 2005-06 over 2004-05**			
	(a) Crude Oil Production			-5.3
	(b) Consumption of Petroleum Products			0.3
VI.	**Gross Imports of Crude Oil (MMT)**			
	i) In 2005-06			99.409
	ii) In 2004-05			95.861
VII.	**Refineries Data**			
	(a) Number of refineries as on 1.4.2006			18
	(b) Total refining capacity as on 1.4.2006			132.468 MMT
	(c) Total refining capacity in PSUs as on 1.4.2006			99.468 MMT
	(d) Total refining capacity in Private as on 1.4.2006			33 MMT
	(e) Crude Oil processed (2005-06)			130.109 MMT
	(f) Capacity Utilisation (2005-06)			100.2%

VIII.	**Natural Gas Production (BCM)**	**2005-06**	**2004-05**	**2003-04**
	(a) Total Production	32.202	31.763	31.962
	(i) Offshore	22.670	22.989	22.663
	(ii) Onshore	9.577	9.093	8.973
	(b) Gas flared	0.877	0.988	1.056
	(c) % Gas flared	(2.7%)	(3.1%)	(3.3%)

IX.	**(a) Production of Petroleum Products (MMT)**			
	i) In 2005-06			119.750
	ii) In 2004-05			118.579
	(b) Refinery Crude Throughput (MMT)			
	i) In 2005-06			130.109
	ii) In 2004-05			127.416
	(c) Gross Import of Crude Oil & Petroleum Products (Including Private/PMS)			
	i) In 2005-06	111.089 MMT		Rs. 197277 crores
	ii) In 2004-05	104.689 MMT		Rs. 131890 crores

I. 2(a) CHRONOLOGY OF IMPORTANT EVENTS OF INDIAN PETROLEUM INDUSTRY DURING 2005-06

(A) EXPLORATION & PRODUCTION

1. Oil India Limited (OIL)

OIL's E 2000 S-7 drilling rig was chartered to M/s Premier Oil North-East India (PONEI) and Well Lakhi # 1 in Jaipur block in Assam was spudded-in on 01.04.2005 and after completion of the well, the rig was demobilized on 06.09.2005.

E-2000 S-7 drilling ring was awarded ISRS Level – 7 certification by M/s DNV, the first ever such certification in OIL's history.

First ever-horizontal well in OIL's history, Well No. Makum – 17 was spudded on 19.07.05 in Makum, Tinsukia district, Assam, and completed as producer on 19.01.2006.

PSC signed for NELP-V Block no. AA-ONN-2003/3 with OIL as operator with 85% and HPCL with 15% PI on 23.09.2005.

Second horizontal well, Well no. Hapjan-44 in Tinsukia district, Assam was spudded on 29.10.2005 and completed as producer on 14.03.2006.

17,288 drilling metreage was achieved during the month March'06, which is highest ever metreage drilled in OIL' history in a single month.

Mukum OCS in Tinsukia district, Assam with a handling capacity of 1800 kls was commissioned on 25.05.2005.

MOU was signed between OIL and M/s New Generation Hydrocarbon Services Limited (NGHSL) of Bangladesh who will act as facilitator in assisting OIL in all aspects for business ventures in Bangladesh on 03.10.2005.

EPSA (Exploration & Production Sharing Contract) signed for Block no. 102/4 in Libya between NOC, Libya and OIL-IOCL consortium on 03.12.2005

MOU was signed between OIL and M/s. Canadian Commercial Corporation, a Crown Company of Government of Canada for joint participation in E&P business in India & abroad on 12.12.2005.

Chemical Laboratory at Duliajan, Assam was accredited with ISO – 9001-2000 Quality Management System certificate from M/S Bureau Varitus Quality International.

Go-live of the ERP system at Duliajan, Moran, Digboi, Noonmati, Delhi and Kolkata.

2. Oil & Natural Gas Corporation Ltd. (ONGCL)

The exploratory efforts made during the year have resulted in ten hydrocarbon finds: 2 Onland, 3 in Offshore Shallow Water and 5 in Deep Water Offshore.

ONGC launched the country's first project aimed at Providing Urban amenities in Rural Areas (PURA) in Maichara villagae of Tripura on 18.04.2005.

Ahmedabad Asset crossed the 5000 tpd mark of crude oil production on 9.06.2005.

Mumbai Uran Trunk Pipeline, comprising of 30" Oil and 28" Gas Trunk pipelines of 204 kms each along with feeder line totaling 505 kms was successfully commissioned on 15.07.2005.

Mehsana Asset achieved highest daily oil production of 6622 tpd on 23.03.2006 after more than a decade.

100% Accreditations of the operational installations achieved on 31.03.2006.

Tatipaka Refinery achieved a unique success of becoming ONGC's first base to produce High Flash – High Speed Diesel (HF-HSD).

Air/Pneumatic drilling was used for first time in ONGC to drill CBM well NKAB (150 mts) in North Karanpura block and saved 4.5 rig days compared to conventional method.

3. ONGC Videsh Limited (OVL)

The major achievements of the Company during 2005-06 were:

Completion of Sudan Pipeline Project Completed on 31.08.2005.

Award of Block 127, Offshore Vietnam to OVL on 26.09.2005.

Start of Gas Sales Oil Sales on a limited scale to domestic buyers from Sakhalin-1, Project in October 2005.

Award of Block 128, Offshore Vietnam to OVL on 3.11.2005.

Acquisition of assets of Petro Canada in Syria on 31.01.2005.

Signing of PSA and JOA for Block 2 in Nigeria-Sao Tome & Principe Joint Development Zone (JDZ) on 15.03.2006.

Approval of Govt. of Myanmar for Acquisition of 20% stake in Block A-3, in Myanmar.

Two MOUs, one with Mittal investment Sarl and the second with PETROPARS of Iran to cooperate in the Hydrocarbon sector, were signed during the year.

4. Gas Authority of India Limited (GAIL)

GAIL, Oilex Australia, Videocon, HPCL and BPCL Consortium awarded Block No.56 in Oman.
Government of Myanmar approved the assignment agreement signed between Daewoo and GAIL for assignment of 10 percent stake in A-3 block, Myanmar to GAIL.

Gail signed a term sheet with Panna-Mukta Tapti JV (PMT JV) for gas supplies for 2 years.

GAIL Board has approved the implementation of Dabhol-Panvel Pipeline. The estimated cost of the project is Rs. 1143.54 Crores.

GAIL laid spur pipelines and started gas supply to 19 new consumers in NCR.

GAIL constructs National Gas Management Center at Noida.

GAIL signed the Production Sharing Contract for block AA-ONN-2003/1 awarded to GAIL consortia under NELP-V bidding round.

GAIL entered into a Memorandum of Cooperation (MoC) with Natural Gas Hydrate (NGH) AS of Norway for developing and commercializing the Synthetic Natural gas Hydrate Storage and Transportation Technology.

GAIL received the prestigious Platts global Industry Leadership Award 2005 in New York.

Green Gas Limited (GGL), a Joint Venture of GAIL and Indian Oil Corporation Limited, incorporated for implementation of City Gas Projects for supply of Piped Natural Gas (PNG).

GAIL commissioned pipelines to Konaseama Power and Gauthami Power.

KCJP – GVK pipeline section and GVK – Vemagiri Pipeline section commissioned.

GAIL completes laying of 12" X 48 Kms. pipeline from Narimanam to Kuthalam Zone in Cauvery Basin.

GAIL successfully implemented the innovative "Gas Management System" (GMS), for the first time in India.

GAIL and Indian Oil Corporation Limited (IOC) signed a joint venture agreement for implementation of city gas projects in Agra and Lucknow.

(B) REFINING AND MARKETING

5. Bharat Petroleum Corporation Ltd. (BPCL)

Hydrogen Unit was successfully commissioned on 12.6.2005. With a capacity of 45,000 MTPA of 99.9% Pure Gaseous Hydrogen, the Unit primarily meets the Hydrogen requirements of the Hydrocracker, and is integrated with the existing Hydrogen Unit of DHDS.

Sulphur Recovery Unit (SRU) was inaugurated on 20.7.2005. Liquid Sulphur production was started from the unit, which is designed to process Hydrogen Sulphide (H2S) rich acid gas from the Amine Regeneration Unit and H2S) / Ammonia rich sour gas streams from Sour Water Strippers and convert them into elemental/Liquid Sulphur. Comprising of two sulphur recovery trains, the unit guarantees minimum 99% weight recovery of Sulphur.

Hydrocracker Unit was commissioned on 7.8.2005. With this last milestone, the entire facilities coming under RMP are now online. M/s. Engineers India Ltd. were the project consultants, and the overall project cost was Rs.1831 crores. BPCL on the way to achieving Euro III HSD production and enhanced crude processing capability of 12 MMT at our Mumbai Refinery.

M/s. DNV recertified BPC's Mumbai Refinery for ISO 9001:2000 & ISO 14001:2004 in November 2005. The certificates are valid up to September 2008.

BPC Refinery is the first Indian Refinery to process its 67th crude 'Azeri light' recently. Found in Azerbaijan, near the Caspian Sea, it is a light low sulphur crude oil with sulphur of 0.15% wt comparable to Mumbai High crude.

BPC Refinery has made a big leap towards establishing an Export Hub with the first ever export of High Flash Low Sulphur Diesel Bridging the main difference of flash point of the product (350C for local vs. 660C for export grade) was a major challenge.

BPC, in consortium with Oilex of Australia, Videocon, GAIL and HPC has been awarded block no 56 on-land block in Oman. BPC has 12.5% participating interest in the block, which is its maiden overseas block.

After a series of joint ventures with other companies for gas sales, BPC has struck out on its own in marketing City Gas to the customers of Gandhinagar, Banaskantha and Mehsana districts of Gujarat. On 10.5.2005 natural gas supplies commenced to four pioneer industrial customers at Santej area of Gandhinagr district, heralding BPCL's solo entry into the domain of natural gas marketing.

On 10.11.2005, BPC and ITC signed a long term MOU for 10 years to facilitate marketing of petroleum products through ITC's e-choupal network. This channel will enable BPC to reach petroleum products to remote villages across various states.

On 13.12.2005, BPC's new LPG Plant at Rajkot was dedicated to the nation. Built with a capacity of 44 TMT, at a total cost of Rs.18.4 crore, the Plant is one of BPCL's most modern plants equipped with a unique Fire Protection System.

Bharat Petroleum, with a turnover of 12.77 billion US$ and profits of 0.47 billion US$, is the 4th Indian Company in the 'Oil & Gas Operations' category in the Forbes Global 2000 list. On the basis of a composite ranking from four metrics: sales, profits, assets and market value, it ranked 8th among 30 Indian Companies on the list, ahead of heavyweights like HPCL, TCS, Infosys and ITC.

On 22.12.2005, an MOU was signed between BPC and GAIL for Joint Venture Gas Distribution Projects in the States of Karnataka and Kerala.

6. Hindustan Petroleum Corporation Limited (HPCL)

The combined crude throughput of Mumbai & Visakh Refineries was 13.82 MMT in 2005-06.

Received National Safety Award-2004 for lowest accident frequency rate.

Awarded "Environment Excellence Management-Green-Tech Gold award-2003-04" for outstanding achievement in "Environment Management" in Petroleum Sector by Green-tech Foundation, New Delhi.

Installed DHDS 2nd Reactor and commenced Euro-III HSD production.

Successfully commissioned new cooling towers, which has improved the efficiency of refinery units.

Mumbai Refinery achieved 2.13 million safe man-hour as on March 31, 2006.

Installed 2nd Reactor to meet EURO-III HSD demand and also enhanced DHDS throughput capacity by 40%.

Achieved lowest ever-specific Energy consumption of 93.30 MBTU/BBL/NRGF during the year against previous best of 100.8 MBTU/BBL/NRGF during 2004-05. Specific Energy Consumption has improved consistently during last 5 years.

Exported highest ever 1053 TMT petroleum products during the year (Naphtha/MS/HSD/FO) against 769 TMT during 2004-05.

Vishakh Refinery achieved 2.20 million safe man-hours as on March 31, 2006.

Sales volume (incl. exports) for 2005-06 is 19.48 MMT. The marketing net work was further strengthened during the year by commissioning 646 new Retail Outlets and 49 new LPG Distributorships. Further, 11.0 lacs new LPG customers were enrolled, during the year.

HPCL carried forwarded Rasoi Ghar initiative and has commissioned 522 Rasoi Ghars during April-March 2006. With this, the total no. of Rasoi Ghars was 1546 as of Marach, 2006.

Corporation is taking several strategic initiatives in the existing and new business lines sustaining value and achieving growth. The major projects include:

Green field refinery at Bhatinda of 9 MMTPA capacity integrated with value added petrochemical products. Brown field expansion of Visakh Refinery to 15 MMTPA Capacity.

LOBS upgradation to Group II at Mumbai Refinery.

Aromatic Projects being developed for implementation at Visakhapataman.

Production of mixed Xylenes at Mumbai and Visakh Refineries.

Production of Propylene at Mumbai and Visakh Refinryes.

HPCL's joint venture Company M/s Prize Petroleum, having acquired the status of an independent upstream Operator for onshore fields, has been successful in enhancing production in the marginal oil well of ONGC awarded to it in the State of Gujarat.

HPCL in consortium with M/s. Prize Petroleum and M/s Trenergy of Malaysia has been awarded cluster 7 off shore marginal field by ONGC.

A total of 44,254 KL (16 Nos. Tanks) additional tankage has been completed/commissioned at various locations during 2005-06.

The Assam block AA-ONN 2003/03 was awarded on 4th August 2005 to the consortium of M/s. Oil India Ltd. (OIL) and HPCL with participating interest of 85% and 15% respectively.

HPCL in consortium with Oilex, Gail (India) Ltd., Videocon Industries Ltd. and BPCL, and participated in the bidding for block Nos. 56 & 58 at Oman.

HPCL has participated in Australian bidding round two for blocks in Carnarvon basin in consortium with M/s. OILEX Australia, GSPC, Videocon Industries Ltd., and BPCL.

7. Indian Oil Corporation Limited (IOCL)

REFINERIES:

Indian Oil refineries achieved record 38.5 million tonnes crude throughput in 2005-06 surpassing the previous best of 37.7 million tonnes during 2003-04.

Record production was achieved for LPG (1353 TMT), ATF (1556 TMT) and HSD (16137 TMT).

Exports were the highest at 786 TMT from IOC refineries during the year 2005-06, the previous best being 300 TMT in the year 2004-05.

Additional 540 TMT of Assam crude was processed at BRPL by transferring diesel feedstock generated from Assam crude to Guwahati and Barauni refineries, thereby utilizing their spare DHDT capacities. This also helped in sustaining production of Assam crude during low t'put operation of NRL during 2005-06.

Indian Oil has become the first Public sector organisation of the country to have its own Chartering cell, which started functioning w.e.f. 15.06.05 and concluded its ship fixture on 17.06.05 for import of HSD from South Korea.

During 2005-06, highest ever imported cargo lifting of 28.9 MMT was done against previous highest of 27.5 in 2003-04.

Business Development:

Gas:

Indian Oil executed LNG SPA with National Iranian Gas Export Company (NIGEC) of Iran for 1.75 MMTPA.

Indian Oil also executed a Gas sales agreement with M/s. Torrent Power for 1.63 MMSCMD of gas and with PLL for off taking LNG up to 15000 MT per year.

Green Gas Ltd. a JV of IOC & GAIL commissioned one mother station in Lucknow.

Fresh Equity infusion of Rs.150 crore at par made by Indian Oil in Haldia Petrochemicals Limited (HPL) was realized and shares allocated accordingly by HPL to Indian Oil. With this, Indian Oil is a shareholder in HPL, Holding 9.6% equity stake.

Indian Oil Corporation in consortium with OIL was awarded block 102/4 in Sirte Basin under the Exploration & Production Sharing Agreement (EPSA) IV Bid Round 2, Libya.

(i) Gujarat Refinery

Gujarat Refinery started dispatch of new product 'LAB pre-fractionators column bottoms' (PERCB) to Lube Blending Plants i.e. 06.06.05 as an alternative of LARO (Light aluminum rolling oil).

FCC reconstruction jobs completed in a record time of 210 days without time and cost over-runs. The unit was commissioned on 07.07.05 and achieved its throughput higher than design capacity.

Highest ever MS parcel of 45.3 TKL along-with Xtra PG MS of 2.5 TKL in KVSPL supplied for the first time.

Heavy Alkylate Benzene (HAB) dispatch ex LAB unit started from 28.10.05.

After replacement of catalyst in Hydro-cracker, the performance guarantee test run for new catalyst was conducted and the plant is operating at 1.5 MMTPA (205 m3/hr) capacity level as against design capacity of 1.2 MMTPA.

An additional Bio-sludge Centrifuge with 20 M3/hr capacities has been commissioned at Effluent Treatment Plant. This will facilitate cake formation and quick drying of bio-sludge for easy disposal.

Record throughputs were achieved in the following units: LAB (663 TMT), DHDS (1480 TMT) and VDU (1025 TMT).

(ii) Barauni Refinery

Euro-III HSD production started in DHDT unit. Dispatch of Euro-III HSD commenced via Barauni-Kanpur Pipeline on 02.04.05.

Rake dispatch of CBFS (high BMCI) took place for the first time.

Highest DHDTU monthly throughput of 211.3 TMT achieved in the month (Previous best: 207.1 TMT in May'05).

Highest RFCCU monthly throughput of 126.9 TMT was achieved (Previous best: 123.4 TMT in May'05).

New LPG bottling plant inaugurated by Chairman on 22.12.05. The filling capacity of the plant was 11500 cylinders per day. Record 12002 nos LPG cylinders filed on 14.01.2006.

Achieved highest ever crude processing of 5.55 MMT in a financial year (Previous best: 5.08 MMT in 2004-05)

In addition to highest ever FCC throughput of 1374 TMT record production was achieved for LPG (281 TMT), MS (592 TMT). SKO (894 TMT) and HSD (2758 TMT).

Recorded highest ever distillate yield of 86.2% during the year 2005-06.

Barauni refinery was awarded first prize for 2003-04 and 2004-05 for best safety performance amongst refineries on 23rd Nov'05.

(iii) Mathura Refinery

New H2 Plant of 60 TMTPA and Naphtha hydrotreater unit commissioned on 28.04.06

Mathura Refinery acquired capability to produce entire HSD of BS-III quality with the commissioning of Diesel Hydrotreater of 1.8 MMTPA capacity on 02.05.05

Reformate Splitter Unit, a part of MSQU project was commissioned on 23.06.05 and Light Reformate routed to MSQU.

Highest ever production of 235 TMT of Euro-III HSD and EURO-III MS production of 75.4 TMT achieved.

Highest ever HS crude processing of 56.3% achieved during the year surpassing previous best of 46.2 % in last ten years.

(iv) Panipat Refinery

For the first time, a batch of 3.5 TKL Army grade Diesel was produced on 12.09.05 and it was dispatched by pipeline.

Largest Hydrogen unit of the country with capacity of 140 TMTPA was commissioned on 18.11.05. This Hydrogen unit is also the largest plant in the world licensed by M/s. Haldor Topsoe of Denmark.

India's largest DHDT unit of 3.5 MMTPA capacity was commissioned on 21.12.05.

India's largest Hydrocracker Unit was commissioned on 30.12.05. This is the fourth Hydrocracker unit of Indian Oil with 1.7 MMTPA capacity and designed for 97% conversion of heavy oil into high value distillates, enabling maximized production of middle distillates.

Use of Trichloroethylene (TCE) for chlorination started instead of Carbon Tetrachloride. (CC14) as it is an Ozone-depleting chemical.

Panipat refinery registered a record crude t'put of 6.5 MMT during the year 2005-06. Capacity utillization of 108.5% was achieved surpassing the previous best of 106.5% in 2004-05.

Highest ever OHCU t'put of 1813 TMT (107% of design), RFCCU t'put of 816 TMT (116 % of design) & DHDS t'put of 761 TMT (102% of design) was achieved.

Investment proposal for expansion of Panipat Refinery from 12 to 15 MMTPA was approved by the Board on 30th June 05. The estimated cost of the project is Rs. 806 crore (Refinery portion) and scheduled to be commissioned in March 2008

(iv) Digboi Refinery

Coker t'put raised to 130% of its design capacity of 170 TMTPA.

Auto Sampler Unit in the Digboi commissioned on 10.02.06. The unit will ensure determining crude qualilty more accurately.

Highest ever distillate yields of 73.7% (previous best 70.2%) was achieved.

Highest ever coker throughput of 224.8 TMT achieved in a year in 2005-06 surpassing previous highest of 213.6 TMT in 2004-05.

Highest ever HDT throughput of 298 TMT achieved in a year in 2005-06 surpassing previous highest of 244 TMT in 2004-05

(v) Haldia Refinery

Haldia Refinery produced Gr-III LOBS, first of its kind in our country @ 800 MT per month in June 05 from Catalytic Dewaxing unit Gr-III LOBS are characterized by Higher Viscosity Index (125) and Lower Pour Point (-18°C) for use in imported/next generation automobiles.

Naphtha Splitter Unit under MSQI Project commissioned on 31.07.05.

Hydro finishing Unit was utilized for production of HSD for the first time during its idle period to increase crude t'put. HSD having "S" content of around 300 PPM produced.

RFCC Gasoline Desulfurisation Unit under MS Quality Improvement Project was commissioned on 05.08.05.

Full BTPN take was loaded with ATF for the first time after 2nd T/W Gantry modification.

CRU commissioned after revamp (under MSQI project) on 18.10.05. Reformat RON of 97 has been achieved as per design.

Achieved highest ever crude processing of 5.5 MMT in a financial year (Previous best: 5:4 MMT in 2004-05).

Record throughput were achieved in CDU-II (2679 TMT), FCC (736 TMT), DHDS (1312 TMT), HGY (44.3 TMT) and CDW(185 TMT) Units.

Record production was achieved for LPG (168 TMT), SKO (422 TMT), ATF (230 TMT) and HSD (1622 TMT).

Highest ever Bitumen production of 425 TMT achieved in 2005-06 against previous best of 415 TMT in 2004-05.

MARKETING ACTIVITIES:

Branding:
XTRAPREMIUM 91 Octane Petrol with new USP of Friction Buster launched across the country.

Retail activities:
Record commissioning of 1264 Retail outlets, taking the total to 11141; 420 Kisan Seva Kendras and 22 Swagat ROs commissioned taking the total to 442 and 87 respectively.

XTRAPREMIUM & XTRAMILE covered enhanced to 2354 ROs and 5330 ROs. respectively.

The XTRAPOWER Fleet Card crossed the 1 Million Mark. XTRAPOWER Fleet card programme extended to 2900 Outlets including 300 IBP ROs.

Consumer Sales Activities
264 Consumer Pumps commissioned.

Maiden export of Paraffin Wax Type II to M/s. Sara-Lee, South Africa.

Signed long term supply agreements with major cement manufacturers for 0.7 MMTA of Petcoke from Panipat.

Aviation Activities
Indian Oil Aviation Service dominates with 64.4% market share and 3,40,000 KL additional volume gained over last year.

Commissioned Hydrant Refueling System at Trivandrum AFS.

43 New Refuellers fabricated and positioned at various locations.

LPG activities
175 LPG distributorships commissioned taking the total strength to 4860.

Total Indane Customer base grew to 431 lac with the enrolment of 20.5 Lacs new customers. For enhanced customer convenience over 5.5 lac DBCs were released taking total DBC customers to 240 lac.

Commissioned 22 TMTPA new LPG plant at Illayangudi in record time of 6 months.

Capacity augmentation of 108 TMTPA and present bottling capacity at 3642 TMTPA.

Auto LPG market share up to 41% from 35.9% last year and 21 ALDS commissioned taking the total to 70 covering 21 cities.

90% growth in LPG sales in Non- domestic sector. 266 Indane Star Distributorship launched taking total to 544.

Servo lubricants
Servo Grades marketed through IBP ROs all over the country.

7200 KL of Servo marketed in 10 countries with forex earnings of USD 5.4 Million.

Blending and Marketing of Transformer Oil 'Servo Electra' commenced.

Supplies Group
Commissioned Kappalur Terminal and grass root depot at Peddapalli.

Passighat & Asaoti depots, new oil jetty at Paradip Commissioned. HSD & HFHSD tankages at Kakinada Terminal, MS / HSD/ SKO/ tankages at Ramagundam depot commissioned.

HSD/SKO dockline at Kochi, MS docklines at IOC Paradeep terminal and from jetty to Irumpanan Terminal commissioned.

Sidhpur – Sanganer section of KVSSPL, Branch pipeline to Ajmer Depot on KVSSPL CTMPL (Chennai-Trichy-Madhurai Pipeline) and MS loading facility at jetty HOJ-II at Haldia commissioned.

LDO supplies commenced to Nepal Oil Company.

The First LPG Plant in Mizoram constructed.

Growth of nearly 100% in Non-Comestic LPG sales.

PIPELINES:
Mainline Pumping Unit (MLPU) facilities of Panipat-Rewari Product Pipeline (PRPL) commissioned successfully on 25.04.05 with Variable Frequency Drive (VFD) by pumping HSD Ex-Line balancing tank (LBT)/Panipat Refinery (PR) to Sangrur Terminal.

For the first time Euro-III HSD was delivered to Kanpur successfully through Barauni – Kanpur Product Pipeline (BKPL) on 18.04.05.

For the first time Euro-III HSD was delivered to Lucknow successfully through BKPL on 11.05.05.

Sidpur – Sanganer section of Kandla – Bhatinda Product Pipeline (KBPL) converted from Product to Crude oil service on 29.06.05.

Sidhpur – Sanganer Product Pipeline commissioned on 30.06.05.

For the first time Super Naphtha (Isomerate) was pumped from Mathura on 16.07.05 and delivered successfully at Panipat on 20.07.05.

1st phase commissioning of Chennai – Trichy – Madurai Product Pipeline (CTMPL) done on 24.08.05.

Bagsuri – Ajmer Branch pipeline from Sidhpur – Sanganer section of Koyali Viramgam Sidhpur Sanaganer Product Pipeline (KVSSPL) commissioned on 29.0805.

A batch of ATF (17.5TKL) was pumped in Panipat – Bijwasan Section from 26-29th Sept'05 in reverse pumping mode to meet ATF requirement at Delhi due to M&I of Mathura Refinery.

A batch of Special grade Diesel (High Pour Point Diesel) was pumped in Panipat-Ambala-Jalandhar Section on 17.09.05 for delivery at Ambala for meeting army requirement at Leh.

M&I of Tank NO. SS-09 of Vadinar was commencing in Nov.2005.

Asanur – Sankari Branch Pipeline of CTMPL commissioned on 14.12.05 with the receipt of HSD at Sankari terminal on 14.12.05.

Mundra Crude Oil Terminal was commissioned with the receipt of 51779Kls. (net a 15C) of Girassol Crude ex. MT OMALA during the period of 13th to 16th Dec.2005.

Foam flooding system at Patna, Mughalsarai & Allahabad commissioned.

Mundra-Chudwa section of Mundra – Panipat Crude Oil Pipeline (MPCPL) commissioned on 02.01.06.

Foam flooding system at Haldia – Maurigram – Rajbandh – Barauni Product Pipeline (HMRBPL), Asansol commissioned on Jan 2, 2006.

KBPL received British Safety Council Award for 2004.

Haldia – Barauni – Crude Oil pipeline (HBCPL) has won Safety Award for 2005 from National Safety Council.

Research & Development Highlights during 2005-06:

Total expenditure on R&D Rs. 89 crore without depreciation

Granted 7 Indian and 7 International patents.

Filed 12 Indian and 4 US patents.

Bagged 6 National/International awards.

Indian Oil became the first company in India and 6th in the world to possess Marine Oil technology for shipboard applications through in house R&D efforts.

Technology for DHDT unit of 1.2 MMTPA capacity licensed along with EIL to BRPL.

Further, joint offers have been made for licensing of technology for DHDT and VGO-HT for Paradip along with EIL and Shell Global Solutions, Netherlands.

Servo Pride oil 5W30 (EDL-3, Transfluid A, 2T Supreme and 2T Snowmobile have been approved by CQAPP, Kanpur for supplies to Indian Army.

Rolling oil developed by R&D Centre has been approved by SAIL RDCIS for application in TM-2 Rolling Mill of Bokaro Steel Plant.

Compressor oils based on PAG in VG 68 and 150 grades developed and formulation issued.

OM 16 for INDIAN Air Force developed and issued.

8. BONGAIGAON REFINERY & PETROCHEMICALS LTD. (BRPL)

The Company achieved highest every crude throughput of 2.356 million tonnes with a capacity utilization of 100.2% has been achieved for the first time in the history of BRPL. Also, the Company achieved highest every secondary throughput (DCU) of 916.6 TMT while Fuel & Loss of 5.42% on crude throughput was lowest ever.

In collaboration with R&D Center of Indian Oil, BRPL started commercial production of Needle Coke in DCU/CCU plant using suitable feedstock. Needle coke is a high value import substitute product and BRPL is producing the same in the country. During the year 2005-06, the company produced 5467 tonnes of Needle coke.

The Reformer unit of the Xylenes Plant is being operated on Motor Spirit mode to product Motor Spirit considering price differential between Naphtha and Motor Spirit.

BRPL achieved turnover of Rs.6288.64 crores for the year 2005-06 and recorded a profit after tax of Rs.174.76 crores. The company has declared a dividend of Rs.53.95 crores (27 % of paid-up capital) for the year 2005-06.

The following energy conservation schemes were commissioned during the year:

- Destaging of CBD pumps (11-P-17) from 6 to 3 stage in CDU-I was done in May, 05 resulted in drop of current by 9 ampere.
- Installation of 6 nos. of auto decantation valve in HSD,SRN,MS & SKO tank.
- Reinsulation of 1300 m process steam line with better insulation material – The job was completed in February, 2006.
- Replacement of metallic fin fan cooler blades with FRP blades in the balance 15 nos. of Air Fin Fan Cooler in DCU-I resulted in drop of current by 8.0 ampere. The job was completed in December, 05.
- Replacement of 850 nos. of passing traps by improved version of BPT trap.

BRPL received the Greentech Environement Excellence Award (Gold Award) for the year 2004-05 from M/s. Green-tech Foundation in Petroleum Refinery Sector for outstanding achievement in Environmental Management on 22.10.2005.

BRPL achieved the unique distinction of reusing about 95% of the effluent water generated in the complex and only an insignificant quantity of effluent is discharged. This reuse of treated effluent has contributed significantly in reducing fresh ground water consumption for industrial operation activities.

9. CHENNAI PETROLEUM CORPORATION LIMITED (CPCL)

Ground Breaking Ceremony of CPCL's 5.8 MGD Seawater Desalination Plant at a cost of Rs. 193 crore to augment the water requirements of Manali Refinery was perfomed.

New Zero Discharge Plant has been commissioned.

Plantation of bio-diesel plants such as Jatropha and Pongamia commenced at Cauvery Basin Refinery.

10. KOCHI REFINERIES LIMITED (KRL)

The cumulative crude oil throughput for the period April 2005 to March 2006 was 69,39,064

Achieved the production records in case of ATF, MTO & Sulphur during the year.

Shareholders at Extra-ordinary General Meeting of the Company held on 21st January 2006 approved the Scheme of Amalgamation of KRL with BPCL.

11. MANGALORE REFINERY AND PETROCHEMICALS LIMITED (MRPL)

Ever the highest crude 12.117 MMT's processed on net crude against 11.848 MMT's in 2004-05 (up 2.27%).

Lowest Fuel and loss for the year 6.44% on net crude run against 6.53% in 2004-05.

Ever-highest accident free days 842 (unbroken).

Ever-highest exports 5.86 MMT's against 4.35 MMT's in year 2004-05 (up 34.7%).

Ever-highest vessels handled in Jetty (443 vessels).

Truck loading of HSD BS II from IMC was started in Aug.-05

LSFO was given to Tata power for first time by truck loading in the month of Feb.-06.

12. MAHANAGAR GAS LIMITED (MGL)

During the year 32965 new consumers connected with piped natural gas.

15 new outlets/stations, 90 new dispensing points of CNG started during the year.

Compression capacity of CNG increased by 291500 kgs. /day during the year. Further 22470 additional nos. of vehicles converted to CNG during the year 2005-06.

17 Kms pipeline for steel industry and 130 Kms. Pipeline for Polyethylene industry was laid during the year 2005-06.

13. INDRAPRASTHA GAS LIMITED (IGL)

Compressed Natural Gas (CNG):
The total number of CNG stations increased from 134 (As on March 31, 2005) to 146 (as on March 31, 2006).

The population of vehicles running on CNG in Delhi as on 31st March 2006 was more than 1,06,000, which included about 11,000 buses and 20,000 private vehicles.

The Compression capacity went up from 16.88 lakh Kg./day in March, 2005 to 19.08 Kg./day in March, 2006.

During the year 2005-06, the Company for the first time started the supply of R-LNG to industrial customers in NCT of Delhi.

Piped Natural Gas (PNG)
The Company has provided PNG connections to 46,727 domestic, 215 small commercial and 41 large commercial customers till 31st March 2006.

14. ENGINEERS INDIA LIMITED (EIL)

The following domestic as well as overseas jobs secured during the year 2005-06.

Domestic

- Restart of Essar Refinery Project of Essar Oil.
- Expansion of Panipat Refinery from 12 to 15MMTPA of IOCL
- Central India Refinery of BORL.
- Diesel Hydrotreater Project at Bongaigaon of BRPL
- Dahej Expansion Project of Petronet PNG (PLL)
- Balance work at RGPPL's LNG Terminal of GAIL, Dabhol.
- Revival of MNW Platform Project of ONGC (LSTK)
- 26 Well Platforms Revamp Project of ONGC

Overseas

- Rehabilitation of ALGER Refinery of NAFTEC, Algeria.

- Development of Engineering Capabilities of Sonatrach, Algeria.
- 5 MMTPA Condensate Tapping Project of Sonatrach, Algeria.
- 4.7 MMTPA LNG Project at Skikda of Sonatrach, Algeria.
- Basic Engineering Design Package in association with ODCC for Bandar Abbas Condensate Refinery of NIOEC, Iran.
- Heaters & Boilers Safety Upgradation and Emission Control Project at Shuaiba Refinery of Heavy Engineering Industries & Ship Building Co., Kuwait (K.S.C.)
- General Engineering Services Contract with Qatar Petroleum, Qatar.
- Two Additional Tanks and Tank Farm Facilities Upgrade at Jobel Dhanna of ADCO, U.A.E.
- Construction of Six Petroleum Product Storage Tanks at Buipe and Bolgatanga of BOST Ghana.

The following projects were completed by EIL during the year:

- Panipat Refinery Expansion Project of IOCL
- MUT Pipeline Project of ONGC.
- Capacity Expansion-cum-Modernization Project, Ph-1 of Kochi Refinery.
- Alumina Refinery Project of Sterlite Industries.

R&D Activities:

CFC technology developed jointly with IOC offered to six refineries during the year viz. Kochi Refineries Ltd., HPCL's Mumbai & Vizag Refineries, BRPL, IOCL's AOD and Barauni Refineries.

DHDT technology developed in association with IOC-R&D offered to BRPL. This is the first application of this technology.

xxxxxxxxxxxx

I.2 (b) NOTIFICATIONS ISSUED DURING 2005-06

MINISTRY OF PETROLEUM AND NATURAL GAS
ORDER
New Delhi, the 19th December, 2005

G.S.R. 729(E).- In exercise of the powers conferred by section 3 of the Essential Commodities Act, 1955 (10 of 1955) and in supersession of Motor Spirit and High Speed Diesel (Regulation of Supply, Distribution and Prevention of Malpractices) Order, 1998 except as respects things done or omitted to be done before such supersession, the Central Government hereby makes the following Order, namely:-

1. **Short title, extent and commencement –**
   (1) This Order may be called the Motor Spirit and High Speed Diesel (Regulation of Supply, Distribution and Prevention of Malpractices), Order, 2005;
   (2) It extends to the whole of India;
   (3) It shall come into force on the date of its publication in the Official Gazette.

2. **Definitions** – In this Order, unless the context otherwise requires,
   (a) "adulteration" means the introduction of any foreign substance into motor spirit or high speed diesel illegally or unauthorisedly with the result that the product does not conform to the requirements of the Bureau of Indian Standards specifications number IS 2796 and IS 1460 for motor spirit and high speed diesel respectively or any other requirement notified by the Central Government from time to time;
   (b) "authorized officer" means an officer authorized under the provisions of clause 7;
   (c) "consumer" means a person who purchases product from an oil company or a dealer appointed by an oil company and stores or utilises the product for his own consumption and include his representatives, employees and agents;
   (d) "dealer" means a person duly appointed by an oil company to purchase, receive, store and sell motor spirit and high speed diesel oil whether or not in conjunction with any other business and shall include his representatives, employees and agents;

(e) "high speed diesel" means any hydrocarbon oil, excluding mineral colza oil and turpentine substitute, which meets the requirements of Bureau of Indian Standards specification number IS 1460;

(f) "malpractices" shall include the following acts of omission and commission in respect of Motor Spirit and High Speed Diesel:-

(i) Adulteration,

(ii) Pilferage,

(iii) stock variation,

(iv) unauthorised exchange,

(v) unauthorised purchase,

(vi) unauthorised sale,

(vii) unauthorised possession,

(viii) over-charging,

(ix) sale of off-specification product, and

(x) short delivery;

(g) "motor spirit" means any hydrocarbon oil, excluding crude mineral oil, which meets the requirements of Bureau of Indian Standards specification number IS 2796;

(h) "oil company" means the Indian Oil Corporation Limited, the Hindustan Petroleum Corporation Limited, the Bharat Petroleum Corporation Limited, the IBP Co. Limited or any person, firm or company duly authorized by the Central Government who is engaged in marketing and sale of motor spirit or high speed diesel directly to consumers or dealers in accordance with the stipulations laid down by the Central Government from time to time;

(i) "petroleum" shall have the meaning assigned to it in the Petroleum Act, 1934;

(j) "pilferage" means stealing or attempt to steal product from a container used for transportation of the product or from a receptacle used for storage of the product and shall include any unauthorised attempt or act of tampering with such container or receptacle;

(k) "product" means motor spirit and high speed diesel;

(l) "Schedule" means The Schedule appended to this Order;

(m)"stock variation" means variation beyond the norms for permissible variation in stocks as specified in Schedule-I;

(n) "transporter" means a person duly authorised by an oil company, a dealer or a consumer, to transport motor spirit or high speed diesel and shall include his representatives, employees and agents;

(o) "unauthorised exchange" means transfer or receipt of the product from a dealer or consumer to another dealer or consumer or to any other person in contravention of the directives issued by the State Government or the oil companies;

(p) "unauthorised purchase" means purchase of the product from sources other than those authorized by the oil companies;

(q) "unauthorised sale" means sale of product by a dealer or consumer to another dealer or consumer or to any other person in contravention of the directive issued for the purpose by the State Government or the oil companies or in contravention of any provision of this order;

(r) "unauthorised possession" means keeping of motor spirit or high speed diesel or any petroleum product or its mixture, in contravention of the provisions of this order, under the control of dealer or any other person without valid sales documents issued by the concerned oil company;

(s) "over charging" means sale of motor spirit or high speed diesel by a dealer at a price/rate higher than authorized by an oil company from which the dealer has purchased the product;

(t) "sale of off specification product" means sale of motor spirit or high speed diesel by dealer of quality not conforming to Bureau of Indian Standards specifications number IS 2796 and IS 1460 for motor spirit and high speed diesel respectively.

3. Product supply and transportation:-

(1) The product from the supply point shall be transported by the transporter in a container or tank-truck certified to be fit by the explosives authorities, transport authorities and oil company to carry the product with accurate calibration as certified by the weights and measures authorities and supported by delivery documents and deliver the same to the storage or dispensing point in the same condition as delivered to him by the originating supply point both in respect of quality and quantity.

(2) The transporter shall ensure that the product is transported only in containers or tank truck which is properly sealed and locked.

(3) The dealer or consumer shall inspect such container or tank-truck in which he receives the product to ensure-

(a) that the container or tank truck, including the seal and lock is not in any manner tampered with;

(b) that the quantity and quality of the product is as per delivery documents issued by the oil company and the quality of the product conforms to the requirements of the Bureau of Indian Standard specifications number IS 2796 and IS 1460 for motor spirit and high speed diesel respectively. For this purpose, the oil company shall indicate density of the product at 15 degrees centigrade in the delivery documents and the dealer or consumer shall maintain a record of densities and keep samples of product duly signed jointly by him and the driver of tank truck and also take other measures as prescribed by the oil company. The variation in density at 15 degrees centigrade of the product in tank truck compared to the density mentioned in delivery documents should not be more than +/-0.0030;

(4) No person other than the dealer or oil company shall be engaged in the business of selling product;

(5) No person shall sell or agree to sell any petroleum product or its mixture other than motor spirit or high speed diesel or any other fuel authorised by the Central Government in any form, under any name, brand or nomenclature, which can be and is meant to be used as fuel in any type of automobile vehicles fitted with spark ignition engines or compression ignition engines;

(6) No dealer, transporter, consumer or any other person shall indulge in any manner in any one or more of the malpractices.

(7) The delivery or sale of motor spirit and high speed diesel shall be made by a dealer of oil company only from authorised retail pump outlet;

4. Restriction on marketing of motor spirit and high speed diesel.

No person, other than those authorized by the Central Government, shall market and sell motor spirit or high speed diesel to consumers or dealers.

5. Grant of authorisation to market motor spirit and high speed diesel

(1) Whosoever desires to secure authorization to market and sell motor spirit and high speed diesel shall submit an application to the Central Government as per the form given in Schedule II alongwith a fee of rupees ten lacs either by way of banker's cheque or demand draft in favour of Pay and Accounts Officer, Ministry of Petroleum and Natural Gas payable at New Delhi.

(2) After scrutiny of the application, the Central Government shall, if it is satisfied with the details furnished by the applicant, after requiring the applicant to furnish bank guarantee for an amount specified by the Government, issue authorization to market motor spirit and high speed diesel indicating the terms and conditions of such authorisation.

(3) The Central Government, if is satisfied that any of the conditions relating to the authorization as specified in clause have been violated, may cancel the authorization issued under this clause:

Provided that before cancellation of the authorization shall be afforded an opportunity of being heard.

6. Supply of motor spirit and high speed diesel blended with ethanol and bio-diesel

The Central Government may by an order, make it mandatory to supply motor spirit and high speed diesel blended with a specified quantity of anhydrous ethanol and/or bio-diesel in the whole or any part of the territory of a State or whole of the territory of the Indian Union.

7. Power of search and seizure

(1) Any Gazetted officer of the Central Government or a State Government or any police officer not below the rank of Deputy Superintendent of Police duly authorised, by general or special order of the Central Government or a State Government, as the case may be, or any officer of the oil company, not below the rank of sales officer, may, with a view to securing compliance with the provisions of this Order, or for the purpose of satisfying himself that this Order or any order made there under has been complied with or there is reason to

believe that all or any of the provisions of this Order have been and are being or are about to be contravened:-

(a) enter and search any place or premises of a dealer, transporter, consumer or any other person who is an employee or agent of such dealer or transporter or consumer,

(b) stop and search any person or vehicle or receptacle used or intended to be used for movement of the product;

(c) take samples of the product and seize any of the stocks of the product and the vehicle or receptacle or any other conveyance used or suspected to be used for carrying such stocks and thereafter take or authorise the taking of all measures necessary for securing the production of stocks or items so seized before the Collector or District Magistrate having jurisdiction under the provisions of the Essential Commodities Act, 1955 and for their safe custody pending such production;

(d) inspect, seize and remove with, such aid or assistance as may be necessary, books, registers, any other records or documents of the dealer, transporter, consumer or any other person suspected to be an employee or agent of the dealer, transporter or consumer;

(2) While exercising the power of seizure provided under sub-clauses (c) and (d) above, the authorised officer shall record in writing the reasons for doing so and a copy of such recording shall be provided to the dealer, transporter, consumer or any other concerned person, as the case may be.

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

8. Sampling of Product

(1) The authorised under clause 7 shall draw the sample from the tank, nozzle, vehicle or receptacle, as the case may be, in clean aluminum containers, to check whether density and other parameters of the product conform to the requirements of Bureau of Indian Standard specifications number IS 2796 and IS 1460 for motor spirit and high speed diesel respectively. Where samples

are drawn from retail outlet, the relevant tank-truck sample retained by the dealer as per clause 3 (b) would also be collected for laboratory analysis.

(2) The authorized officer shall take and seal six samples of 1 litre each of the motor spirit or three samples of 1 litre each of the high speed diesel. Two samples of motor spirit or one of high speed diesel would be given to the dealer or transporter or concerned person under acknowledgement with instruction to preserve the sample in his safe custody till the testing or investigations are completed. Two samples of Motor Spirit or one of High Speed Diesel shall be kept by the concerned oil company or department and the remaining two samples of Motor Spirit or one of High Speed Diesel would be used for laboratory analysis;

(3) The sample label shall be jointly signed by the authorised officer who has drawn the sample, and the dealer or transporter or concerned person or his representative and the sample label shall contain information as regards the product, name of retail outlet, quantity of sample, date, name of the authorized officer, name of the dealer or transporter or concerned person or his representative;

(4) The authorised officer shall forward the sample of the product taken within ten days to any of the laboratories mentioned in Schedule III or to any other such laboratory when it may notified by the Government in the Official Gazette for this purpose, for analysing with a view to checking whether the density and other parameters of the product conform to the requirements of Bureau of Indian Standard specifications number IS 2796 and IS 1460 for motor spirit and high speed diesel respectively.

(5) The laboratory mentioned in sub-clause(4) shall furnish the test report to the authorised officer within twenty days of receipt of sample at the laboratory.

(6) The authorised officer shall communicate the test result to the dealer or transporter or concerned person and the oil company, as the case may be, within five days of receipt of test results from the laboratory for appropriate action.

9. Power of Central Governments to issue directions-

The Central Government may, from time to time, by a general or special order issue to any dealer, transporter or consumer or any other person, such directions as it considers necessary regarding storage, sale, transportation and disposal of motor spirit or high speed diesel and upon the issue of such directions, such dealer, transporter or consumer shall be bound to comply therewith.

10. Overiding effect

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

SCHEDULE I

(See clause 2(m)

Details of norms for permissible stock variation

Variation in stocks in underground tanks is considered to be beyond normal operation level when the inspection establishes that the variation in stocks in the underground tanks is beyond +/- 4% of tank stock over and above:-

(i) Evaporation/handling losses in Motor Spirit as follows-
0.75% on annual average sales of 0 – 600 kilolitres
0.60% on annual average sales of above 600 kilolitres

(ii) Handling losses in High Speed Diesel as follows-
0.25% on annual average sales of 0-600 kilolitres
0.20% on annual average sales of above 600 kilolitres

(Shrinkage losses and temperature variation allowance quantities on Motor Spirit/High Speed Diesel to be taken into account wherever the same are applicable).

SCHEDULE II
[see clause 5(1)]
Application form
(for issue of authorization to market Motor Spirit and High Speed Diesel)

To,

The Joint Secretary,
Ministry of Petroleum and Natural Gas,
Government of India, Shastri Bhawan,
New Delhi-110001

1.0 Name of applicant

2.0 Type of firm(strike out whichever is not applicable)

2.1 Public Limited Company/Private Limited Company/Partnership firm/Proprietorship firm/Others

3.0 Address

3.1 Registered office

4.0 Names, addresses, telephone numbers of Directors/ Partners/ Proprietor.

5.0 Details of investment made and/or proposed to be made in eligible activities along with completion schedule of the project for new and incomplete projects-

(i) setting up new grass root refineries and/or expansion of the existing refineries along with facilities like crude oil receipt and transportation facilities;

(ii) Exploration and production of hydrocarbons including coal bed methane, and associated facilities like crude oil/natural gas pipelines, crude oil and natural gas processing plants;

(iii) terminals for crude oil/LNG;

(iv) Common carrier natural gas/petroleum products/LPG pipelines;

(v) Investment in the above activities for setting up additional assets for improvement in quality of product to meet environmentally related norms.

Note:- The activities other than those specified above would not be eligible.

6.0 Time for the completion of new and incomplete projects to be indicated with completion date.

7.0 Details of scheme of marketing-

(i) the source of supply of products to be marketed;

(ii) tankage and other infrastructure established/proposed to be established along with their capacity;

(iii) means of transportation of products to depots and to retail outlets;

(iv) the number and locations of retail outlets proposed to be established and details of their storage and dispensing capacity;

(v) the total quantum and type of products to be covered under the marketing scheme.

Note:- Details on the above may be separately attached.

8.0 The mode of compliance relating to retail service obligations and marketing service obligations.

(i) number of retail outlets proposed to be set up in remote areas/low service areas;

(ii) other marketing infrastructure proposed to be set up in remote areas/low service areas;

(iii) commercial agreements proposed, if any, with the existing marketing companies ;

(iv) Others(please specify)

9. Details of application fee paid

10. DECLARATION

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

Date:_____ (Signature)

Name:_____

Designation:_____

SCHEDULE III

See Clause 8(4)

Laboratories for testing of Petroleum Product Samples

1. Marketing and Refinery Laboratories of Oil Companies

(i) All the Marketing (including Mobile Laboratories) and Refinery Laboratories of Bharat Petroleum Corporation Limited, Hindustan Petroleum Corporation Limited, Indian Oil Corporation Limited and IBP Co. Limited;
(ii) Bongaigaon Oil Refinery Ltd., Refinery Laboratory, P.O. New Bongaigaon, dist. Kokrajhar Assam;
(iii) Chennai Petroleum Corpn. Ltd., Refinery Laboratory, Manali, Chennai – 600 019 Tamil Nadu;
(iv) Kochi Refinery Ltd., Refinery Laboratory, Post Ambalamugal, Kochi – 682302, Kerala;
(v) Mangalore Refinery and Petrochemicals Ltd, Refinery Laboratory, Kuthethoor, P.O. Katipalla, Moodapadav, P.B. No.2, Mangalore 574 149 Karnataka;
(vi) Numaligarh Refinery Limited, Refinery Laboratory, Numaligarh, Assam; and
(vii) Reliance Petroleum Ltd., Refinery Laboratory, Moti Khavdi (vill), Digvijayagram(PO) Jamnagar (Dist.) – 361 140, Gujarat.

2. Government Laboratories

(i) Director of Airworthiness, Civil Aviation Deptt. Laboratory, Block II/III East, R.K. Puram, New Delhi 110 066;
(ii) National Test House, 11/1, Judges Court Road, Alipore, Calcutta – 700 027;
(iii) National Physical Laboratory, Pusa, New Delhi-110 012; and
(iv) Chemical Testing and Analytical Laboratory, Industries and Commerce Department, Government of Tamil Nadu, Guindy; and

3. Defence Laboratories

(i) Chief Controlrate of Materials, Controlrate General of Stores Laboratory, IGS Kanpur, P.B. No.229, Kanpur;
(ii) Inspectorate General of Stores Laboratory, (I.G.S.L.), DGI Complex, Chennai – 600 114;
(iii) Inspectorate General of Stores Laboratory, DGI Complex, Hastings, Calcutta – 700 022; and
(iv) Inspectorate General of Stores Laboratory,DGI Complex, Vikhroli, Mumbai – 400 083.

4. Other Laboratories

(i) Central Power Research Institute, Bangalore

(ii) Fuel Testing Laboratory, Society for Petroleum Laboratory, B-14, Sector 62, Noida, U.P.;
(iii) Indian Institute of Petroleum, Dehradun 248 005;
(iv) Indian Institute of Technology, Guindy, Chennai;
(v) Indian Institute of Technology, Hauz Khas, New Delhi;
(vi) Indian Institute of Technology, Powai, Mumbai;
(vii) Indian Institute of Technology, Kharagpur;
(viii) Regional Research Laboratory, Uppal Road, Hyderabad – 500007;
(ix) Ramdev Baba Engineering College, Kalol Road, Nagpur- 440013, Maharashtra; and
(x) Lakshmi Narayan Institute of Technology, Amravati Road, Nagpur-440010 Maharashtra.

5. All Forensic Laboratories in the States / Union Territories

[F.No. P-11013/09/2003-Dist.]
AJAY TYAGI, Jt. Secy.

I.3 PROGRESS OF INDIAN PETROLEUM INDUSTRY 1947-48 TO 2005-06

Year	Balance of recoverable Reserves@		Crude Oil production	Natural gas production	Refinery crude throughput	Refinery production	Consumption of POL Prods*	Gross Imports		Net Imports Crude Oil & Pol. Products		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 (Rs. Crore)	Index of Self Reliance
	Crude Oil	Natural Gas						Crude Oil	POL Products	Qty.	Value		Imports	Exports			
	(MMT)	(BCM)	(MMT)	(BCM)	(MMT)	(MMT)	(MMT)	(MMT)	(MMT)	(MMT)	(Rs.Crore)	(Rs./MT)	(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
1992-93	301	735	26.95	18.1	53.48	50.36	58.90	29.25 (10686)	11.28 (63.60)	26.81	15439	3653	63375	53688	31.8	10322	43
1993-94	779	718	27.03	18.3	54.30	51.08	60.81	30.82 (10689)	12.08 (7041)	38.86	16221	3466	73101	69751	25.4	12223	41
1994-95	765	707	32.24	19.5	56.93	52.93	67.51	27.35 (10316)	13.95 (7522)	38.05	16250	3772	89971	82674	21.6	12905	44
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	7673	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)	7.90 (9677)	83.71	76424	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	36.4	56395	28
2005-06(P)	786	1101	32.19	32.2	130.11	119.75	111.94	99.41 (171702)	11.68 (25575)	89.58	150492	17272	660409	456418	43.4	63143	27

Note: Figures in parenthesis relate to value in Rs. Crore.
NA: Not Available
* Excluding RBF
(P): Provisional
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	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06*
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	68.5	86.0	103.4	107.3	112.6	121.8	127.4	130.1
2. Domestic Production	0.3	0.5	6.8	10.5	32.2	35.2	32.7	31.9	32.4	32.0	33.0	33.4	34.0	32.2
a) On-shore	0.3	0.5	6.8	5.5	11.8	11.9	11.5	11.3	11.8	11.9	11.5	11.5	11.6	11.4
b) Off-shore	-	-	-	5.0	20.4	23.3	21.2	20.6	20.6	20.1	21.5	21.9	22.4	20.8
3. Imports	N.A.	6.0	11.7	16.2	20.7	27.3	39.8	57.8	74.1	78.7	82.0	90.4	95.9	99.4
4. Exports	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5. Net Imports (3-4)	N.A.	6.0	11.7	16.2	20.7	27.3	39.8	57.8	74.1	78.7	82.0	90.4	95.9	99.4
II. Petroleum Products														
1. Domestic Consumption@	**3.3**	**7.7**	**17.9**	**30.9**	**55.0**	**74.8**	**90.6**	97.1	100.1	100.4	104.1	107.8	111.6	111.9
of which														
a) Naphtha $	-	-	0.9	2.3	3.4	4.2	8.9	10.8	11.7	11.7	11.9	11.9	14.0	12.3
b) Kerosene	0.9	2.0	3.3	4.2	8.4	9.9	12.2	11.9	11.3	10.4	10.4	10.2	9.4	9.4
c) High Speed Diesel Oil	0.2	1.2	3.8	10.3	21.1	32.3	37.2	39.3	37.9	36.5	36.6	37.1	39.7	40.1
d) Fuel Oils	0.9	1.7	4.7	7.5	9.0	11.2	12.5	12.5	12.7	13.0	12.7	12.9	13.6	12.8
2. Domestic Production $$	**0.2**	**5.7**	**17.1**	**24.1**	**48.6**	**55.1**	**64.5**	**79.4**	**95.6**	**100.0**	104.1	113.5	118.6	119.8
of which														
a) Naphtha	N.A.	-	1.2	2.1	4.9	6.0	6.1	8.2	9.9	9.2	9.7	11.3	14.1	14.5
b) Kerosene	N.A.	0.9	2.9	2.4	5.5	5.3	5.3	5.7	8.7	9.7	10.0	10.2	9.3	9.1
c) High Speed Diesel Oil	N.A.	1.1	3.8	7.4	17.2	20.7	26.7	34.8	39.1	39.9	40.2	43.3	45.9	47.6
d) Fuel Oils	N.A.	1.6	4.1	6.1	9.4	9.6	11.0	11.4	11.4	12.2	12.2	13.4	15	14.3
3. Imports	3.1	2.5	1.1	7.3	8.7	20.3	23.8	16.6	9.3	7.0	7.2	8.0	8.8	11.7
4. Exports @@	N.A.	N.A.	0.3	Neg	2.7	3.4	0.7	0.8	8.4	10.1	10.2	14.6	18.2	21.5
5. Net Imports (3-4)	N.A.	N.A.	0.8	7.3	6.0	16.9	23.1	15.8	0.9	-3.1	-3.0	-6.6	-9.4	-9.8

*: Provisional
+: On a calender 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	Consump-* tion	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(P)	32458	127550	117245	119377	153217.00	23304.00	176521.00	-	39610.00	39610.00	136911.00

(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	115994$	83528.00	9723.00	93251.00	0	16781.00	16781.00	76470.00
2004-05	33981	127416	118579	120174$	117003.00	14887.00	131890.00	0	29928.00	29928.00	101962.00
2005-06(P)	32190	130109	119750	121062$	171702.00	25575.00	197277.00	0	46785.00	46785.00	150492.00

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

Source: PSUs & PPAC

I.6(a) PETROLEUM ENERGY IN INDIA 1990 TO 2005 (CALENDAR YEARS)

PRODUCTS	1990	1995	1999	2000	2001	2002	2003	2004	2005(P)
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*
				AVAILABILITY					
				In Original Units (Million Tonnes)					
Kerosene	8.64	10.24	10.50	10.24	10.29	10.67	10.83	9.85	9.74
ATF	1.74	2.15	2.17	2.52	2.43	2.28	2.50	1.99	3.26
HSD	20.90	31.18	38.46	37.25	37.14	36.96	36.25	35.22	40.36
LDO	1.53	1.36	1.50	1.65	1.58	2.09	1.71	1.71	1.11
Fuel Oils	9.31	6.34	7.37	12.43	8.45	12.54	12.52	11.80	13.27
Others*	8.66	10.96	14.38	14.68	21.48	23.21	25.29	27.01	25.79
TOTAL	**50.78**	**62.23**	**74.38**	**78.77**	**81.37**	**87.75**	**89.10**	**87.58**	**93.52**
				In Million Tonnes of Coal Equivalent Unit @					
Kerosene	17.28	20.48	21.00	20.48	20.58	21.34	21.66	19.70	19.48
ATF	3.48	4.30	4.34	5.04	4.86	4.56	5.00	3.98	6.52
HSD	41.80	62.36	76.92	74.50	74.28	73.92	72.50	70.44	80.72
LDO	3.06	2.72	3.00	3.30	3.16	4.18	3.42	3.42	2.22
Fuel Oils	18.62	12.68	14.74	24.86	16.90	25.08	25.04	23.60	26.54
Others*	17.32	21.92	28.76	29.36	42.96	46.42	50.58	54.02	51.58
TOTAL	**101.56**	**124.46**	**148.76**	**157.54**	**162.74**	**175.50**	**178.20**	**175.16**	**187.06**
				In Million Tonnes of Coal Replacement Unit @					
Kerosene	69.12	81.92	84.00	81.92	82.92	85.36	86.64	78.80	77.92
ATF	13.05	16.12	16.28	18.90	18.23	17.10	18.75	14.93	24.45
HSD	188.10	280.62	346.14	335.25	334.26	332.64	326.25	316.98	363.24
LDO	13.17	12.24	13.50	14.85	11.06	18.81	15.39	15.39	9.99
Fuel Oils	18.62	12.66	14.74	24.86	16.90	25.08	25.04	23.60	26.54
Others*	51.31	54.78	77.65	85.87	81.62	88.89	94.58	99.15	100.22
TOTAL	**353.98**	**458.34**	**552.31**	**561.65**	**544.39**	**567.88**	**566.65**	**548.85**	**602.36**
				CONSUMPTION#					
				In Original Units (Million Tonnes)					
Kerosene	8.42	9.28	10.72	10.70	10.29	9.80	9.49	9.30	9.47
ATF	1.73	2.01	2.15	2.24	2.27	2.26	2.39	2.72	3.13
HSD	21.18	30.90	39.29	38.31	36.89	36.61	36.18	38.31	36.47
LDO	1.51	1.32	1.46	1.46	1.23	1.35	1.24	1.13	0.89
Fuel Oils	9.10	10.44	11.65	11.25	11.66	11.80	11.59	12.16	12.51
Others*	8.68	11.46	16.29	19.89	21.12	22.96	24.98	26.88	27.17
TOTAL	**50.62**	**65.41**	**81.56**	**83.85**	**78.80**	**84.78**	**85.87**	**90.50**	**89.63**
				In Million Tonnes of Coal Equivalent Unit @					
Kerosene	16.84	18.56	21.44	21.40	20.58	19.60	18.98	18.60	18.94
ATF	3.46	4.02	4.30	4.47	4.54	4.52	4.78	5.44	6.25
HSD	42.36	61.84	78.58	76.62	73.78	73.22	72.36	76.62	72.93
LDO	3.02	2.64	2.92	2.92	2.46	2.70	2.48	2.26	1.78
Fuel Oils	18.20	20.88	23.30	22.51	14.00	23.60	23.18	24.32	25.02
Others*	17.36	22.96	32.58	39.78	14.24	45.92	49.96	53.76	54.34
TOTAL	**101.24**	**130.90**	**163.12**	**167.70**	**157.60**	**169.56**	**171.74**	**181.00**	**179.27**
				In Million Tonnes of Coal Replacement Unit @					
Kerosene	67.36	74.24	85.76	85.59	82.32	78.40	75.92	74.40	75.78
ATF	12.98	15.08	16.13	16.77	17.03	16.95	17.93	20.40	23.45
HSD	190.62	278.10	353.61	344.79	332.01	329.49	325.62	344.79	328.20
LDO	13.59	11.88	13.14	13.14	8.61	12.15	11.16	10.17	8.01
Fuel Oils	18.20	20.88	23.30	22.51	14.00	23.60	23.18	24.32	25.02
Others*	51.45	61.31	87.97	114.77	180.26	87.09	91.97	97.48	99.83
TOTAL	**354.20**	**461.49**	**579.91**	**597.57**	**634.23**	**547.68**	**545.78**	**571.56**	**560.28**

(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 2005-06 (FINANCIAL YEARS)

PRODUCTS	1990-91	1995-96	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06(P)
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*
				AVAILABILITY					
				In Original Units (Million Tonnes)					
Kerosene	8.81	10.27	10.96	10.63	10.07	10.73	10.99	9.50	9.84
ATF	1.83	2.22	2.25	2.51	2.40	2.36	2.63	2.78	3.42
HSD	21.87	33.51	39.92	37.46	37.04	37.14	37.24	39.75	39.84
LDO	1.51	1.35	1.62	1.48	1.70	2.08	1.66	1.55	0.92
Fuel Oils	9.43	10.79	7.48	12.61	13.17	12.30	13.02	13.76	13.29
Others*	8.75	10.60	15.57	15.89	22.21	24.02	25.64	27.10	26.03
TOTAL	52.20	68.74	77.80	80.58	86.59	88.63	91.18	94.44	93.34
				In Million Tonnes of Coal Equivalent Unit @					
Kerosene	17.62	20.54	21.92	21.26	20.14	21.46	21.98	19.00	19.68
ATF	3.66	4.44	4.50	5.02	4.82	4.72	5.26	5.56	6.84
HSD	43.74	67.02	79.84	74.92	73.82	74.28	74.48	79.50	79.68
LDO	3.02	2.70	3.24	2.96	3.40	4.16	3.32	3.10	1.84
Fuel Oils	18.86	21.58	14.96	25.22	16.86	24.60	26.04	27.52	26.58
Others*	17.50	21.20	31.14	31.78	44.42	48.04	51.28	54.20	52.06
TOTAL	104.40	137.48	155.60	161.16	163.46	177.26	182.36	188.88	186.68
				In Million Tonnes of Coal Replacement Unit @					
Kerosene	70.48	84.16	87.68	85.04	80.56	85.84	87.92	76.00	78.72
ATF	13.72	16.65	16.88	18.83	18.08	17.70	19.73	20.85	25.65
HSD	196.83	301.59	359.28	336.70	332.19	334.26	335.16	357.75	358.56
LDO	13.59	12.15	14.58	10.36	11.90	18.72	14.94	13.95	8.28
Fuel Oils	18.86	10.79	14.96	25.22	16.86	24.60	26.04	27.52	26.58
Others*	51.93	56.71	84.08	76.73	84.40	92.18	95.38	100.47	99.99
TOTAL	365.41	482.05	577.46	552.88	543.99	573.30	579.17	596.54	597.78
				CONSUMPTION#					
				In Original Units (Million Tonnes)					
Kerosene	8.42	9.93	11.90	11.31	10.43	10.41	10.23	9.40	9.38
ATF	1.68	2.08	2.20	2.25	2.26	2.27	2.48	2.81	3.30
HSD	21.14	32.26	39.30	37.96	36.55	36.64	37.07	39.65	40.12
LDO	1.51	1.31	1.51	1.40	1.59	2.06	1.62	1.48	0.88
Fuel Oils	8.99	11.16	12.45	12.65	12.98	12.74	12.95	13.56	12.76
Others*	8.68	11.84	17.87	20.53	22.01	23.57	25.44	27.40	28.06
TOTAL	50.42	68.58	85.23	86.10	85.82	87.69	89.79	94.30	94.51
				In Million Tonnes of Coal Equivalent Unit @					
Kerosene	16.84	19.86	23.80	22.62	20.86	20.82	20.46	18.80	18.75
ATF	3.36	4.16	4.40	4.50	4.52	4.54	4.96	5.62	6.59
HSD	42.28	64.52	78.60	75.92	73.10	73.28	74.14	79.30	80.25
LDO	3.02	2.62	3.02	2.80	3.18	4.12	3.24	2.96	1.77
Fuel Oils	17.98	22.32	24.90	25.30	25.96	25.48	25.90	27.12	25.53
Others*	17.36	23.68	35.74	41.06	44.02	47.14	50.88	54.80	56.13
TOTAL	100.84	137.16	170.46	172.20	171.64	175.38	179.58	188.60	189.01
				In Million Tonnes of Coal Replacement Unit @					
Kerosene	67.36	79.44	95.20	90.48	83.44	83.28	81.84	75.20	75.02
ATF	12.60	15.60	16.50	16.88	16.95	17.03	18.60	21.08	24.71
HSD	190.26	290.34	353.70	341.64	328.95	329.76	333.63	356.85	361.12
LDO	13.59	11.79	13.59	12.60	14.31	18.54	14.58	13.32	7.95
Fuel Oils	17.98	22.32	24.90	25.30	25.96	25.48	25.90	27.12	25.53
Others*	51.41	70.62	94.39	76.63	82.04	88.77	94.30	99.45	103.68
TOTAL	353.20	490.11	598.28	563.53	551.65	562.86	568.85	593.02	598.00

(P)=Provisional

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

@ : Based on conversion factors adopted by FPC, 1974

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

II. EXPLORATION

II.1 AREA WISE DEPLOYMENT OF DEEP DRILLING RIGS, WELLS & METREAGE DRILLED BY ONGC & OIL FROM 1970-71 TO 2005-06

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.									
1970-71	31	89	168	1		1	32	89	168
1975-76	35	106	229	4	15	28	39	121	257
1980-81	34	72	134	7	32	78	41	104	212
1984-85	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
1996-97	79	301	657	23	45	128	102	346	785
1997-98	76	230	512	17	58	133	93	288	645
1998-99	71	215	443	22	59	145	93	274	588
1999-00	74	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
(B) OIL INDIA LIMITED									
1970-71	4	12	48	-	-	-	4	12	48
1975-76	3	11	36	-	-	-	3	11	36
1980-81	4	9	33	1	1	4	5	10	37
1984-85	7	25	86	1	2	10	8	27	96
1989-90	15	28	130	-	-	-	15	28	130
1990-91	13	27	112	-	-	-	13	27	112
1995-96	15	20	78	1	1	5	16	21	83
1996-97	15	24	102	-	1	3	16	25	105
1997-98	16	19	110	-	-	-	16	19	110
1998-99	16	19	97	-	-	-	16	19	97
1999-00	16	16	90	-	-	-	16	16	90
2000-01	16	25	89	-	-	-	16	25	89
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
TOTAL (A+B)									
1970-71	35	101	216	1		1	36	101	216
1975-76	38	117	265	4	15	28	42	132	293
1980-81	38	81	167	8	33	82	46	114	249
1984-85	60	152	366	14	75	171	74	227	537
1989-90	130	519	1101	33	134	353	163	653	1454
1990-91	121	396	889	32	139	276	153	535	1165
1995-96	106	348	806	22	80	168	128	428	974
1996-97	94	325	759	24	46	131	118	371	890
1997-98	92	249	622	17	58	133	109	307	755
1998-99	87	234	540	22	59	145	109	293	685
1999-00	90	244	612	21	63	146	111	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

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			
1970-71	51+1P	106	50+3P	112	101+3P	218
1975-76	49+1P	120	68+1P	145	117+2P	265
1980-81	44+1P	96	38+2P	71	82+3P	167
1984-85	70+5P	186	82+1P	180	152+6P	366
1989-90	204	508	315	593	519	1101
1990-91	176	434	220	455	396	889
1995-96	177	427	171	334	348	761
1996-97	171	407	156	355	327	762
1997-98	114	297	135	326	249	623
1998-99	110	273	124	267	234	540
1999-00	123	337	121	275	244	612
2000-01	124	331	132	316	256	647
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	76	179	180	283	256	462
2005-06*	82	236	145	323	227	559
			(B) OFFSHORE			
1970-71	-	1	-	-	-	1
1975-76	10	19	5	9	15	28
1980-81	15+1P	40	18	42	33+1P	82
1984-85	20+1P	62	51	109	71+1P	171
1989-90	61	160	73	193	134	353
1990-91	73	184	66	92	139	276
1995-96	27	77	52	86	79	163
1996-97	28	80	18	48	46	128
1997-98	20	50	38	82	58	132
1998-99	25	60	34	85	58	145
1999-00	28	87	35	59	63	146
2000-01	30	68	22	48	52	116
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	113	36	111	69	224
2005-06*	32	106	42	137	74	243
			TOTAL (A+B)			
1970-71	52+1P	107	50+3P	112	101+3P	218
1975-76	59+1P	139	73+1P	154	132+2P	293
1980-81	59+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
1996-97	199	487	174	403	373	890
1997-98	334	347	173	408	307	755
1998-99	135	333	158	352	293	685
1999-00	151	424	156	334	307	758
2000-01	154	399	154	364	308	763
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	109	292	179	394	325	686
2005-06*	114	342	187	460	301	802

P : Partly Drilled. *: Provisional Source: PSUs

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

(Numbers)

Company Year	Oil	Gas	Dry	Under Test	Injec-tion	Others	Total
1	2	3	4	5	6	7	8
			(A) ASSAM OIL COMPANY / ASSAM OIL DIVISION				
1975	377	7	-	-	5	612	1001
1980	417	10	-	-	6	568	1001
1985	438	4	305	7	7	247	1001
1990	253	1	305	-	7	435	1001
1995	209	1	305	-	2	480	1001
1999	693	-	305	-	-	3	1001
2000	693	-	305	-	-	3	1001
2001	693	-	305	-	-	3	1001
2002	693	-	305	-	-	3	1001
2003	693	-	305	-	-	3	1001
2004**							
2005**							
			(B) OIL INDIA LIMITED				
1975	250	18	34	27	20	-	349
1980	273	26	40	48	34	-	421
1985	321	42	49	35	50	31	528
1990	422	53	66	36	62	70	709
1995	418	69	92	79	46	160	864
1999	654	100	100	-	50	60	965
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
			(C) OIL & NATURAL GAS CORPORATION LTD.				
1975	605	79	320	141	28	-	1173
1980	951	123	487	125	32	-	1718
1985	1434	170	659	216	67	-	2546
1990	2579	302	1128	69	198	303	4579
1995	3488	410	1797	135	534	535	6899
1999	3799	522	2145	59	634	857	8016
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*	4749	649	2571	133	899	744	9745
			TOTAL (A+B+C)				
1975	1282	104	354	168	53	612	2523
1980	1641	159	527	173	72	568	3140
1985	2186	216	1011	258	124	278	4073
1990	3254	356	1499	105	267	808	6289
1995	4115	480	2194	214	737	1175	8764
1999	5146	622	2551	59	684	920	9982
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*	5225	774	2989	190	1002	1704	11884

* Provisional ** Included in OIL figures

Note: The exploration 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 31.3.2006

STATES	GEOLOGICAL SURVEYS (Sq. Km)
1	*2*
Andhra Pradesh	53427
A.N. Islands	6860
Arunachal Pradesh	3692
Assam	48073
Bihar(incl. Jharkhand)	4035
Gujarat	60625
Himachal Pradesh*	9946
Jammu & Kashmir**	22970
Kerala-Karnataka (incl. Goa)	4000
Madhya Pradesh*	39221
Chhattisgarh**	5920
Manipur	2781
Meghalaya	1911
Mizoram	6194
Nagaland	6971
Rajasthan	44691
Sikkim	720
Tamil Nadu (Incl. Pondicherry)	20003
Tripura	21263
Uttar Pradesh including Uttaranchal	29797
West Bengal	8806
Total	**401906**

Source: ONGC and OIL.

*: In addition, geological traversing has been carried out in Himachal Pradesh (303.68 LKM) and Madhya Pradesh(465 LKM).

** Comprises of Semi detailed mapping.

II. 5 STATEWISE ACHIEVEMENTS OF GEOPHYSICAL FIELD PARTIES IN INDIA SINCE INCEPTION UPTO 31.3.2006

AREA / STATE	2D		3D	
	LK	GLK	Sq K	LK
1	2	3	4	5
OIL INDIA LTD.				
(A) ONSHORE				
Assam		21026	3489	
Arunachal Pradesh		2587	0.00	
Rajasthan		12973.00	613.00	
Mahandi,Orissa		4278.00	0.00	
UP & Uttaranchal		6222.00	0.00	
Total(A)		**47086.00**	**4102.00**	
(B) OFFSHORE				
Mahandi,Orissa	10448.00			3394.00
Andaman	201.00			
Saurashtra, Gujarat	8767.00		332.00	
Total(B)	**19416.00**		**332.00**	**3394.00**
TOTAL (A+B)	**19416.00**	**47086.00**	**4434.00**	**3394.00**

OIL & NATURAL GAS CORPORATION LTD.

	Seismic	
	2D-GLK	3D-SqK
(A) ONSHORE		
Andhra Pradesh	38677.50	2789.10
Assam	30272.70	2486.30
Bihar including Jharkhand	6566.00	0.00
Gujarat	104446.50	4973.50
Himachal Pradesh	4198.50	0.00
Haryana	1038.00	0.00
Jammu& Kashmir	2563.00	0.00
Madhya Pradesh	9787.70	0.00
Chhattisgarh	202.00	0.00
Meghalaya	204.55	0.00
Mizoram	100.40	0.00
Nagaland	558.00	0.00
Orissa	313.00	0.00
Punjab	4078.00	0.00
Rajasthan	20489.00	251.90
Tamil Nadu	40823.30	3282.20
Tripura	5398.20	97.90
Uttar Pradesh	27791.19	0.00
Uttaranchal	1522.00	0.00
West Bengal	29243.00	394.40
TOTAL ONSHORE	**328272.54**	**14275.30**
(B) OFFSHORE		
West Coast	456056.60	57960.90
East Coast	142800.30	28809.40
TOTAL OFFSHORE	**598856.90**	**86770.30**
TOTAL ONGC	**927129.44**	**101045.60**

GLK: Ground Line Kilometre. LK: Line Kilometre.
Sq K: Square Kilometre.

II.6 BASINWISE/STATEWISE ACHEIVEMENT OF DRILLING SINCE INCEPTION UPTO 31.3.2006

BASIN	STATE/REGION	Wells Numbers	Metreage ('000')
1	*2*	*3*	*4*
A. ONSHORE			
Cambay	Gujarat	5485	9518.45
Rajasthan	Rajasthan	122	278.77
	Total WRBC	**5607**	**9797.22**
	Nagaland	36	126.84
Upper Assam	Assam	2421	8249.91
	Meghalaya	5	5.90
Assam-Arakan	Arunachal Pradesh	57	137.06
Fold Belt	Mizoram under ERBC	2	5.91
	Total ERBC	**2521**	**8525.62**
Assam-Arakan	Tripura	120	336.39
Foot hills &	West Bengal	31	124.72
Ganga Valley	Bihar	6	29.82
	Orissa	4	8.70
	Total CRBC	**161**	**499.63**
Himalayan Foot-hills,	Himachal Pradesh	12	48.73
Ganga Valley &	Punjab	4	15.54
Vindhyan/Gondwana	Uttar Pradesh	8	29.76
	Madhya Pradesh under NRBC	5	19.01
	Jammu & Kashmir	4	12.02
	Total NRBC	**33**	**125.06**
Krishna-Godavari	Andhra Pradesh	421	1248.00
Cauvery	Tamil Nadu	504	1266.88
	Total SBRC	**925**	**2514.88**
TOTAL ONSHORE (A)		**9247**	**21462.41**
B. OFFSHORE			
East Coast	East Coast including KG, Cauvery	219	673.39
West Coast	West Coast including drilling in Orissa, Andaman & Saurashtra	2056	4832.26
TOTAL OFFSHORE (B)		**2275**	**5505.65**
TOTAL (A+B)		**11522**	**26968.06**

II.7 STATE-WISE/BASIN-WISE OIL AND GAS FIELDS IN INDIA AS ON 1.4.2006

(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.		**13**	**98**	**141**	**247**
a) ONSHORE					
Gujarat	Cambay	10	4	57	71
Assam	Upper Assam	0	28	0	28
	A&AA	0	3	2	
Rajasthan	Rajasthan	0	3	2	5
Andhra Pradesh	K.G. Basin	0	31	11	42
Tamil Nadu	Cauvery	2	7	16	25
Tripura	A&AA	0	7	0	7
Nagaland	A&AA	1	0	0	1
b) OFFSHORE	Mumbai Offshore	0	15	53	68
B. OIL INDIA LTD.		**16**	**3**	**0**	**19**
Assam	Upper Assam	13	0	0	13
Arunachal Pradesh	Upper Assam	2	0	0	2
Rajasthan	Jaisalmer	0	3	0	3
	Bikaner-Nagaur	1	0	0	1
C. PRIVATE/JVCs		**0**	**4**	**34**	**38**
a) ONSHORE					
Gujarat	Cambay	0	0	22	22
Arunachal Pradesh	Assam-Arakan	0	0	1	1
Assam	Assam	0	0	1	1
b) OFFSHORE					
East Coast	Cauvery	0	1	0	1
	KG (Shallow)	0	2	4	6
	KG (Deep)	1*	9*	2*	0
West Coast	Kutch	0	1	1	2
	Bombay	0	0	3	3
	Cambay	0	0	2	2
Grand Total		**29**	**105**	**175**	**304**

AAFB : Assam Arakan Fold Belt. Source: ONGC, OIL and DGH.

*:one field in Oil, one field in Oil & Gas & two fields in Gas are of acquisition

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*	278.62	234.55	45.99	36.76	608.76	76.08	1280.76

*:Provisional

@ : Proved and indicated Balance Recoverable Reserves.

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

2. Includes Bombay High offshore and JVC.

3. Includes JVC/Pvt. Parties.

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	11471	16652	4336	32458	895325

(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.

*:Provisional

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

* 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 P./ T. Nadu/ Gujarat	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	4276	9215	-	20645	29860
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*	97.59	609	4565.123	6199.168	11470.9	4335.56	16652	32458.44
			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	618	4701	6189	11591	4226	18164	33981
2005-06*	103	601	4475	6251	11430	4451	16309	32190

*: 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	1075.16

*:Provisional

@ : Proved and indicated Balance Recoverable Reserves.

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

2. Includes Bombay High offshore and JVC.

3. Includes JVC/Pvt. Parties.

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
1991	2062	1856	-	41	134	75	31	4199	-	14450	14450	18649
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	9500	1008	21492	22499	31999

*: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
1991-92	2051	1898	-	41	150	80	31	4251	-	14393	14393	18644
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	241	906	1663	480	48	9577	980	21644	22624	32202

*: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
1996-97	2956	2382	350	2606
1997-98	3175	2483	361	2814
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
Rajasthan				
1995-96	12	12	0	12
1996-97	10	10	0	10
1997-98	149	145	0	149
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*	241	238	0	241
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
1996-97	1971	1206	269	1702
1997-98	2046	1272	270	1776
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

$: Includes internal consumption

*:Provisional.

Cont...

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
1996-97	154	154	0	154
1997-98	196	196	0	196
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
Tamil Nadu				
1990-91	64	9	55	9
1995-96	117	19	96	21
1996-97	92	43	49	43
1997-98	95	46	48	47
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
Andhra Pradesh				
1990-91	47	42	5	42
1995-96	679	670	0	679
1996-97	800	789	1	799
1997-98	1023	1011	2	1021
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*	1683	1646	8	1675

$: Includes internal consumption

*:Provisional.

Cont...

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
1996-97	5983	4584	669	5314
1997-98	6684	5153	681	6003
1998-99	7168	5483	799	6370
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
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
1996-97	17273	13602	1263	16010
1997-98	19717	15933	1175	18542
1998-99	20260	16678	924	19336
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
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
1996-97	23256	18186	1932	21324
1997-98	26401	21086	1856	24545
1998-99	27428	22161	1723	25706
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

$: 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

*: 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
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

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

V. REFINING

V.1 PETROLEUM REFINING CAPACITY IN INDIA

(Million Tonnes per annum)

Refinery	Year of Commissioning	Installed Capacity as on 1.4.2005	Installed Capacity as on 1.4.2006
1	*2*	*3*	*4*
(a) PUBLIC SECTOR REFINERIES		**94.37**	**99.47**
I. IOC REFINERIES		41.35	41.35
IOC, Digboi	1901	0.65	0.65
IOC, Guwahati	1962	1.00	1.00
IOC, Barauni	1964	6.00	6.00
IOC, Koyali	1965	13.70	13.70
IOC, Haldia	1974	6.00	6.00
IOC, Mathura	1982	8.00	8.00
IOC, Panipat	1998	6.00	6.00
II. HPCL REFINERIES		13.00	13.00
HPCL, Mumbai	1954	5.50	5.50
HPCL, Visakh	1957	7.50	7.50
III. BPCL, Mumbai	1955	6.90	12.00
IV. CPCL REFINERIES		10.50	10.50
CPCL, Manali	1969	9.50	9.50
CPCL, Narimanam	1993	1.00	1.00
V. KRL, Kochi	1966	7.50	7.50
VI. BRPL, Bongaigaon	1979	2.35	2.35
VII. NRL, Numaligarh	1999	3.00	3.00
VIII. ONGC, Tatipaka	2002	0.08	0.08
IX. MRPL, Mangalore	1996	9.69	9.69
(b) PRIVATE REFINERY		33.00	33.00
I. RPL, Jamnagar	1999	33.00	33.00
Total (a+b)		**127.37**	**132.47**

V.2(a) REFINERY CRUDE THROUGHPUT AND PRODUCTION OF PETROLEUM PRODUCTS DURING 1961 TO 2005

(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
1992	54254	0	54254	51041	0	51041
1993	53509	0	53509	50396	0	50396
1994	56407	0	56407	52872	0	52872
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

*: Provisional.

V.2(b) REFINERY CRUDE THROUGHPUT AND PRODUCTION OF PETROLEUM PRODUCTS DURING 1961-62 TO 2005-06

(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
1992-93	53482	0	53482	50359	0	50359
1993-94	54296	0	54296	51084	0	51084
1994-95	56534	0	56534	52927	0	52927
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

*: Provisional.

V.3 REFINERY-WISE CRUDE RUN AND TOTAL PRODUCTION OF PETROLEUM PRODUCTS DURING 1991-92 TO 2005-06

(000 Tonnes)

Year	IOC Digboi	BPCL Mumbai	HPCL Mumbai	HPCL Visakh	IOC Guwahati	IOC Barauni	IOC Gujarat	IOC Haldia	IOC Mathura	IOC Panipat
1	2	3	4	5	6	7	8	9	10	11
1991-92										
Total Production	524	6630	4496	3676	793	2060	8877	2791	7825	0
Crude Run	546	6940	4729	3920	856	2262	9379	3021	8231	0
1992-93										
Total Production	523	6875	5619	4274	749	2097	9258	2810	7430	0
Crude Run	547	7233	5849	4527	815	2287	9780	3040	7843	0
1993-94										
Total Production	535	6831	5774	4203	840	2051	8830	2878	8121	0
Crude Run	554	7203	6018	4448	910	2222	9434	3106	8518	0
1994-95										
Total Production	509	7071	4913	4759	833	2039	9148	2998	8018	0
Crude Run	536	7506	5234	5014	884	2220	9888	3258	8377	0
1995-96										
Total Production	537	7065	5674	4753	781	2129	9476	3168	7934	0
Crude Run	559	7460	5965	5037	839	2322	10167	3416	8332	0
1996-97										
Total Production	453	7279	6238	4576	778	1720	9722	3189	7744	0
Crude Run	477	7640	6534	4847	848	1895	10352	3451	8113	0
1997-98										
Total Production	479	7591	6053	2308	779	1989	10043	4445	8302	0
Crude Run	502	7996	6378	2467	856	2181	10694	4706	8565	0
1998-99										
Total Production	524	8531	4955	3637	772	2017	10346	4432	8665	1908
Crude Run	553	8878	5203	3881	836	2204	10935	4714	8909	2208
1999-00										
Total Production	564	8433	5702	4252	858	3177	10429	3794	7875	3688
Crude Run	603	8907	6007	4555	914	3411	11109	4105	8125	4153
2000-01										
Total Production	651	8203	5189	5986	653	2889	11269	3502	6863	5206
Crude Run	678	8683	5575	6405	707	3122	12006	3873	7133	5707
2001-02										
Total Production	640	8279	5229	6334	578	2625	11028	3601	7780	5323
Crude Run	653	8744	5641	6706	656	2876	11697	4026	8031	5822
2002-03										
Total Production	577	8221	5660	6386	390	2637	11734	4031	7880	5561
Crude Run	581	8711	6078	6851	458	2994	12434	4513	8207	6101
2003-04										
Total Production	584	8259	5707	7145	739	3815	12029	4112	7932	5818
Crude Run	602	8757	6108	7591	891	4304	12758	4518	8248	6338
2004-05										
Total Production	636	8598	5725	7636	868	4562	11041	4964	6145	5826
Crude Run	651	9138	6118	8121	1002	5082	11698	5418	6387	6390
2005-06*										
Total Production	605	9627	5817	7515	750	5016	10839	4988	7463	5780
Crude Run	615	10298	6249	7980	864	5553	11543	5502	7938	6507

*: Provisional.

Cont'd...

V.3 REFINERY-WISE CRUDE RUN AND TOTAL PRODUCTION OF PETROLEUM PRODUCTS DURING 1991-92 TO 2005-06

(000 Tonnes)

Year	KRL(CRL)	CPCL (MRL)		BRPL	NRL	MRPL	ONGC	RPL	Total
	Kochi	Manali	Narimanam	Assam	Numaligarh	Mangalore	Tatipaka	Jamnagar	
1	12	13	14	15	16	17	18	19	20
1991-92									
Total Production	4554	5147	-	976	-	-	-	-	48349
Crude Run	4846	5529	-	1164	-	-	-	-	51423
1992-93									
Total Production	4853	4927	-	944	-	-	-	-	50359
Crude Run	5122	5323	-	1116	-	-	-	-	53482
1993-94									
Total Production	4568	5313	120	1020	-	-	-	-	51084
Crude Run	4862	5728	126	1167	-	-	-	-	54296
1994-95									
Total Production	4803	6461	370	1005	-	-	-	-	52927
Crude Run	5135	6921	382	1179	-	-	-	-	56534
1995-96									
Total Production	7010	5162	358	1011	-	23	-	-	55081
Crude Run	7421	5599	370	1215	-	39	-	-	58741
1996-97									
Total Production	6890	6143	332	1306	-	2635	-	-	59005
Crude Run	7293	6621	345	1542	-	2912	-	-	62870
1997-98									
Total Production	7312	6437	533	1485	-	3552	-	-	61308
Crude Run	7729	6965	556	1718	-	3853	-	-	65166
1998-99									
Total Production	7304	5652	619	1445	-	3737	-	-	64544
Crude Run	7770	6101	644	1653	-	4069	-	-	68538
1999-00									
Total Production	7326	5870	612	1665	186	4713	-	10267	79411
Crude Run	7830	6377	636	1905	215	5200	-	11912	85964
2000-01									
Total Production	7039	5524	559	1353	1293	5879	-	23556	95614
Crude Run	7520	6046	579	1488	1451	6438	-	26033	103444
2001-02									
Total Production	6398	5676	549	1314	2052	5043	13	27542	100004
Crude Run	6797	6123	566	1475	2307	5487	13	29654	107274
2002-03									
Total Production	7063	5658	631	1352	1665	6699	91	27904	104140
Crude Run	7580	6176	643	1463	1879	7253	93	30544	112559
2003-04									
Total Production	7419	5827	645	1963	1961	9352	90	30066	113463
Crude Run	7854	6387	653	2126	2200	10069	91	32345	121840
2004-05									
Total Production	7387	7397	733	2171	1834	11059	92	31905	118579
Crude Run	7924	8181	742	2311	2042	11809	93	34309	127416
2005-06*									
Total Production	6456	8742	671	2246	1918	11268	92	29957	119750
Crude Run	6939	9680	682	2356	2133	12014	93	33163	130109

*: Provisional.

V.4(a) PRODUCTION OF PETROLEUM PRODUCTS 1991 TO 2005

('000' Tonne)

PRODUCTS	Calendar Years							% Variation	
	1991	1995	2000	2002	2003	2004	2005*	2004/2003	2005/2004
1	2	3	4	5	6	7	8	9	10
(a) From Crude Oil									
1. Light Distillates	**9544**	**12258**	**24836**	**27642**	**31098**	**32790**	**31569**	**5.4**	**-3.7**
of which									
LPG	1229	1533	3993	4831	5185	5585	5298	7.7	-5.1
Mogas	3453	4367	7849	10133	10906	11062	10392	1.4	-6.1
Naphtha	4423	5924	9966	9363	10782	13592	14316	26.1	5.3
SBPS / Hexane	133	132	81	87	77	98	90	27.3	-8.2
2. Middle Distillates	**26296**	**29560**	**52534**	**54872**	**58315**	**63169**	**62899**	**8.3**	**-0.4**
of which									
Kerosene	5270	5315	8321	10062	9906	9854	8849	-0.5	-10.2
ATF/RTF/Jet A-1	1656	2026	2509	2702	4180	4890	5866	17.0	20.0
HSD	17259	20348	39469	39490	41966	46244	46455	10.2	0.5
LDO	1499	1364	1560	2090	1705	1621	1110	-4.9	-31.5
JBO	83	92	62	44	42	43	42	2.4	-2.3
MTO	148	169	227	238	232	251	208	8.2	-17.1
3. Heavy Ends	**12076**	**12561**	**17816**	**19326**	**20686**	**22884**	**22777**	**10.6**	**-0.5**
of which									
Furnace Oil	4982	5512	6250	7602	8107	10297	10241	27.0	-0.5
LSHS/HHS/RFO	4434	4092	4995	4644	4661	4245	4123	-8.9	-2.9
Total Fuel Oils	9416	9604	11245	12246	12768	14542	14364	13.9	-1.2
Lube Oils	410	582	700	645	667	663	638	-0.6	-3.8
Bitumen	1676	1922	2697	2847	3268	3404	3449	4.2	1.3
Petroleum Coke	229	259	2054	2522	2696	3130	3117	16.1	-0.4
Paraffin Wax	45	43	53	42	51	64	65	25.5	1.6
Other Waxes	44	61	66	6	3	4	6	33.3	50.0
Total Waxes	89	104	119	48	54	68	71	25.9	4.4
4. Total Production	**47916**	**54379**	**95186**	**101840**	**110099**	**118843**	**117245**	**7.9**	**-1.3**
5. Crude Throughput	**50954**	**57971**	**101788**	**110148**	**118511**	**127755**	**127550**	**7.8**	**-0.2**
(b) From Natural Gas									
LPG	1173	1599	2040	2350	2366	2256	2150	-4.6	-4.7

*: Provisional.

PATTERN OF PRODUCTION (PERCENTAGE)

PRODUCTS	1991	1995	2000	2002	2003	2004	2005*
Light Distillates	18.7	21.1	24.4	25.1	26.2	25.7	24.8
Middle Distillates	51.6	51.0	51.6	49.8	49.2	49.4	49.3
Total Fuel Oils	18.5	16.6	11.0	11.1	10.8	11.4	11.3
Lubes	0.8	1.0	0.7	0.6	0.6	0.5	0.5
Bitumen	3.3	3.3	2.6	2.6	2.8	2.7	2.7
Others	1.1	0.8	3.1	3.3	3.4	3.3	3.4
Total Production	**94.0**	**93.8**	**93.5**	**92.5**	**92.9**	**93.0**	**91.9**
RBF & Losses / inventories	6.0	6.2	6.5	7.5	7.1	7.0	8.1
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 2005-06

Financial Years ('000' Tonne)

Products	Production							% Variation	
	1991-92	1995-96	2000-01	2002-03	2003-04	2004-05	2005-06*	2004-05 / 2003-04	2005-06 / 2004-05
1	2	3	4	5	6	7	8	9	10
(a) From Crude Oil									
1. Light Distillates	**9673**	**12433**	**25048**	**28619**	**31971**	**32865**	**32427**	**2.8**	**-1.3**
of which									
LPG	1250	1539	4088	4903	5348	5570	5525	4.2	-0.8
Mogas	3420	4462	8070	10361	10999	11057	10502	0.5	-5.0
Naphtha	4546	5975	9908	9650	11317	14100	14509	24.6	2.9
SBPS / Hexane	135	150	93	82	89	81	98	-9.0	21.0
2. Middle Distillates	**26371**	**29941**	**52445**	**55937**	**60018**	**62509**	**64432**	**4.2**	**3.1**
of which									
Kerosene	5339	5267	8714	10028	10187	9298	9078	-8.7	-2.4
ATF/RTF/Jet A-1	1539	2127	2513	3053	4289	5201	6196	21.3	19.1
HSD	17404	20661	39052	40207	43316	45903	47572	6.0	3.6
LDO	1482	1351	1481	2079	1659	1546	923	-6.8	-40.3
JBO	82	95	57	47	43	36	39	-16.3	8.3
MTO	143	180	214	243	242	226	212	-6.6	-6.2
3. Heavy Ends	**12305**	**12707**	**18121**	**19584**	**21474**	**23205**	**22891**	**8.1**	**-1.4**
of which									
Furnace Oil	5430	5351	6479	7529	8737	10560	10320	20.9	-2.3
LSHS/HHS/RFO	4207	4228	4913	4638	4635	4410	3985	-4.9	-9.6
Total Fuel Oils	9637	9579	11392	12167	13372	14970	14305	12.0	-4.4
Lube Oils	390	633	684	684	666	646	677	-3.0	4.8
Bitumen	1710	2032	2721	2941	3397	3349	3576	-1.4	6.8
Petroleum Coke	216	256	2473	2659	2743	3162	3182	15.3	0.6
Paraffin Wax	44	43	51	42	53	64	63	20.8	-1.6
Other Waxes	46	63	61	3	0	4	3	-	-25.0
Total Waxes	90	106	112	45	53	68	66	28.3	-2.9
4. Total Production	**48349**	**55081**	**95614**	**104140**	**113463**	**118579**	**119750**	**4.5**	**1.0**
5. Crude Throughput	**51423**	**58741**	**103444**	**112559**	**121840**	**127416**	**130109**	**4.6**	**2.1**
(b) From Natural Gas									
LPG	1235	1715	2045	2370	2320	2240	2185	-3.4	-2.5

*: Provisional.

PATTERN OF PRODUCTION (PERCENTAGE)

PRODUCTS	1991-92	1995-96	2000-01	2002-03	2003-04	2004-05	2005-06*
Light Distillates	18.8	21.2	24.2	25.4	26.2	25.8	24.9
Middle Distillates	51.3	51.0	50.7	49.7	49.3	49.1	49.5
Total Fuel Oils	18.7	16.3	11.0	10.8	11.0	11.7	11.0
Lubes	0.8	1.1	0.7	0.6	0.5	0.5	0.5
Bitumen	3.3	3.5	2.6	2.6	2.8	2.6	2.7
Others	1.1	0.8	3.2	3.4	3.3	3.3	3.3
Total Production	**94.0**	**93.8**	**92.4**	**92.5**	**93.1**	**93.1**	**92.0**
RBF & Losses / inventories	6.0	6.2	7.6	7.5	6.9	6.9	8.0
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 1999 TO 2005

(Qty: '000' Tonnes)

	Products	1999	2000	2001	2002	2003	2004	2005*	% to total	Change % 2005/04
	1	2	3	4	5	6	7	8	9	10
1	**Light Distillates**	**19870**	**21627**	**22851**	**23369**	**24293**	**25454**	**24421**	**20.5**	**-4.1**
	LPG	5640	6596	7179	7849	8828	9878	9980	8.4	1.0
	Mogas	5776	6438	6940	7485	7758	8081	8272	6.9	2.4
	Naphtha	7921	8089	8261	7465	7116	6843	5566	4.7	-18.7
	SBP/Hexane	145	128	111	109	130	143	198	0.2	38.5
	Others	388	376	360	461	461	509	405	0.3	-20.4
2	**Middle Distillates**	**54141**	**53257**	**51250**	**50631**	**49879**	**52041**	**50449**	**42.3**	**-3.1**
	SKO	10715	10699	10285	9804	9490	9303	9472	7.9	1.8
	ATF/Jet A-1	2146	2236	2272	2257	2394	2716	3126	2.6	15.1
	HSDO	39291	38310	36892	36611	36182	38305	36467	30.5	-4.8
	LDO/MDO	1461	1460	1234	1347	1236	1134	890	0.7	-21.5
	JBO/Wash Oil	73	70	48	44	44	43	37	0.0	-14.0
	MTO	232	220	206	235	226	249	202	0.2	-18.9
	Others	223	262	313	333	307	291	255	0.2	-12.4
3	**Heavy Ends**	**15962**	**15378**	**15549**	**16018**	**16216**	**17076**	**17650**	**14.8**	**3.4**
	Furnace Oil	7084	6206	7005	7080	7018	7698	8375	7.0	8.8
	LSHS/HHS	4663	5047	4659	4717	4572	4465	4134	3.5	-7.4
	Fuel oils (Total)	11747	11253	11664	11797	11590	12163	12509	10.5	2.8
	Lubes/Greases	950	801	794	949	831	775	886	0.7	14.3
	Bitumen/Asphalt	2707	2781	2410	2705	3196	3397	3365	2.8	-0.9
	Petroleum Coke	324	371	409	324	319	392	509	0.4	29.8
	Wax	152	107	105	57	60	74	74	0.1	0.0
	Others	82	65	167	186	220	275	307	0.3	11.6
4	**Total (PSUs))**	**89973**	**90262**	**89650**	**90018**	**90388**	**94570**	**92520**	**77.5**	**-2.2**
5	**Pvt. sales**	na	na	9510	12407	14633	17041	17943	15.0	5.3
6	**TOTAL**	**89973**	**90262**	**99160**	**102425**	**105021**	**111611**	**110463**	**92.5**	**-1.0**
7	RBF	4873	6855	6995	7628	8063	8559	8914	7.5	4.1
8	**Grand Total**	**94846**	**97117**	**106155**	**110053**	**113084**	**120170**	**119377**	**100.0**	**-0.7**

*: Provisional.

Source: Petroleum Planning & Analysis Cell.

VI.1(b) PRODUCT-WISE SALES/CONSUMPTION OF PETROLEUM PRODUCTS DURING 1999-00 TO 2005-06

(000' Tonne)

	Products	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06*	% Growth 2005-06/ 2004-05
1	**Light Distillates**	**24531**	**29314**	**29618**	**31755**	**34335**	**35204**	**33474**	**-4.9**
	of which								
	LPG	6421	7016	7728	8351	9305	10245	10292	0.5
	Mogas	5909	6613	7011	7570	7897	8251	8646	4.8
	Naphtha	10801	11673	11728	11929	11868	13993	12263	-12.4
	NGL	91	6	27	32	0	0	0	0.0
	Others	1309	4006	3124	3873	5265	2715	2273	-16.3
2	**Middle Distillates**	**55434**	**53467**	**51439**	**52065**	**52023**	**53906**	**54192**	**0.5**
	of which								
	SKO	11898	11307	10432	10405	10230	9395	9377	-0.2
	ATF	2197	2249	2256	2269	2484	2811	3295	17.2
	HSDO	39295	37958	36546	36644	37074	39651	40124	1.2
	LDO	1512	1399	1592	2063	1619	1476	883	-40.2
	Others	532	554	613	684	616	573	513	-10.5
3	**Heavy Ends**	**17121**	**17293**	**19375**	**20306**	**21393**	**22524**	**24272**	**7.8**
	of which								
	Furnace Oil @	7690	7664	8451	8027	8312	9136	8856	-3.1
	LSHS/HHS	4763	4989	4531	4711	4633	4404	3907	-11.3
	Lubes/Greases	1243	1115	1137	1250	1427	1347	2112	56.8
	Bitumen	2879	2774	2584	2986	3373	3337	3500	4.9
	Petroleum Coke	328	448	1798	2563	2877	3129	4442	42.0
	Paraffin Wax	53	43	45	41	41	60	225	275.0
	Other Waxes	89	62	51	13	20	20	111	455.0
	Others	76	330	775	715	710	1090	1119	2.7
TOTAL		**97086**	**100074**	**100432**	**104126**	**107751**	**111634**	**111937**	**0.3**
Refinery Fuel		5544	6900	7273	7650	8240	8537	9125	6.9
Grand Total		**102630**	**106974**	**107705**	**111776**	**115991**	**120171**	**121062**	**0.7**

Note : 1994-95 onwards total & product-wise consumption includes private sales also.

@ : LSHS sales by pvt. parties included in FO. Break-up to these two products is not available.

*: Provisional.

VI.1(c) PRODUCT-WISE CONSUMPTION OF PETROLEUM PRODUCTS

(000' Tonnes)

	Products	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06*	% Change 2005-06/ 2004-05
	A. PUBLIC SECTOR								
1	**Light Distillates**	**20473**	**21770**	**22916**	**23567**	**25002**	**25317**	**24008**	**-5.2**
	LPG	6029	6613	7310	8143	9089	9967	9976	0.1
	Mogas	5909	6613	7011	7570	7895	8162	8254	1.1
	Naphtha	7970	8059	8128	7284	7329	6550	5155	-21.3
	NGL	91	6	27	32	0	0	0	-
	Others	474	479	440	538	689	638	623	-2.4
2	**Middle Distillates**	**54259**	**52854**	**50661**	**50555**	**50548**	**51919**	**50281**	**-3.2**
	SKO	10731	10714	10114	9707	9426	9395	9373	-0.2
	ATF	2197	2249	2256	2269	2484	2811	3295	17.2
	HSDO	39287	37938	36515	36534	36875	38087	36308	-4.7
	LDO	1512	1399	1202	1413	1181	1085	834	-23.1
	Others	532	554	574	632	582	541	471	-12.9
3	**Heavy Ends**	**15919**	**15362**	**15515**	**16002**	**16580**	**17357**	**17413**	**0.3**
	Furnace Oil	6816	6371	7085	6941	7207	8055	8221	2.1
	LSHS/HHS	4763	4989	4531	4711	4633	4404	3907	-11.3
	Lubes/Greases	915	797	819	938	816	779	892	14.5
	Bitumen	2879	2618	2428	2847	3367	3318	3485	5.0
	Petroleum Coke	328	414	367	335	308	445	496	11.5
	Paraffin Wax	53	43	45	41	41	60	55	-8.3
	Other Waxes	89	62	51	13	20	20	19	-5.0
	Others	76	68	189	176	188	277	277	0.0
	Total (A) (Excl. RBF)	**90651**	**89986**	**89092**	**90124**	**92130**	**94593**	**91702**	**-3.1**
	B. PRIVATE SECTOR								
1	**Light Distillates**	**4058**	**7544**	**6702**	**8188**	**9333**	**9887**	**9466**	**-4.3**
	LPG	392	403	418	208	216	278	316	13.7
	MS	0	0	0	0	2	89	392	340.4
	Naphtha / NGL	2831	3614	3600	4645	4539	7443	7108	-4.5
	Benzene	33	8	0	0	0	0	0	-
	Others	802	3519	2684	3335	4576	2077	1650	-20.6
2	**Middle Distillates**	**1175**	**613**	**778**	**1510**	**1475**	**1987**	**3910**	**96.8**
	SKO	1167	593	318	698	804	0	4	400.0
	HSDO	8	20	31	110	199	1564	3816	144.0
	LDO	0	0	390	650	438	391	49	-87.5
	Others	0	0	39	52	34	32	41	28.1
3	**Heavy Ends**	**1202**	**1931**	**3860**	**4304**	**4813**	**5167**	**6859**	**32.7**
	Furnace Oil / LSHS	874	1293	1366	1086	1105	1081	635	-41.3
	Lubes/Greases	328	246	318	312	611	568	1220	114.8
	Bitumen	0	96	156	139	6	21	15	-28.6
	Petroleum Coke	0	34	1431	2228	2569	2684	3946	47.0
	CBFS	0	230	75	74	230	243	250	2.9
	Others	0	32	514	465	292	570	793	39.1
	Total (B)	**6435**	**10088**	**11340**	**14002**	**15621**	**17041**	**20235**	**18.7**
	TOTAL (A+B)	97086	100074	100432	104126	107751	111634	111937	0.3
	Refinery Fuel	5544	6900	7273	7650	8240	8537	9125	6.9
	Grand Total	**102630**	**106974**	**107705**	**111776**	**115991**	**120171**	**121062**	**0.7**

*: Provisional

Source: Petroleum Planning & Analysis Cell.

VI.1(d) TIME SERIES CONSUMPTION OF PETROLEUM PRODUCTS
(Incl. Sales to Nepal,Sikkim, Bhutan and Bunkers/International Airlines)

(Qty. '000' Tonnes)

Year	Total Consumption	% age Growth	Year	Total Consumption	% age Growth
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*	121062	0.7

*: Provisional.

Note : i) Consumption includes refinery fuel from 1960/1960-61 onwards. Prior to that refinery fuel 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.

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

iv) Data upto 1959-60 is estimated.

VI.2 SALES/CONSUMPTION OF PETROLEUM PRODUCTS AND MARKET SHARE OF OIL COMPANIES IN INDIA FROM 1980-81 TO 2005-06*

(Qty. 000' Tonnes)

Year	% S/C	IOC	B.Shell/ BPCL	Esso/ HPCL	IBP	Other COs	Imports by Pvt. Parties	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	16999	111592
	%	43.0	18.5	17.1	4.2	2.0	15.2	100.0
2005-06*	S/C	46160	20477	18309	4316	2440	20235	111937
	%	41.2	18.3	16.4	3.9	2.2	18.1	100.0

S/C : sales/consumption

* = Provisional

Source : M -16 Report of PPAC.

Note : Consumption excludes RBF

VI.3 DELIVERIES MADE TO INTERNATIONAL/COASTAL BUNKERS DURING 1991-92 TO 2005-06

(Qty. '000 ' Tonnes)

Items	1991-92	1992-93	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*
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
INTERNATIONAL BUNKERS															
F.O	73.8	78.7	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
H.S.D	12.9	14.3	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
L.D.O	29.4	27.7	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
TOTAL	**116.1**	**120.7**	**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**
COASTAL BUNKERS															
F.O	194.3	182.9	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
H.S.D	122.3	111.2	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
L.D.O	34.7	39.6	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
TOTAL	**351.3**	**333.7**	**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**
TOTAL BUNKERS :															
F.O	268.1	261.6	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
H.S.D	135.2	125.5	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
L.D.O	64.1	67.5	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
TOTAL	**467.4**	**454.6**	**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**

Source : M6 Report of PPAC

*: Provisional.

VI.4 STATE-WISE CONSUMPTION OF MAJOR PETROLEUM PRODUCTS DURING 2005-06 *

('000' Tonnes)

State/UT	Naphtha	LPG	Petrol	SKO	ATF	Diesel	LDO	FO	LSHS/ HHS	Lubes & Greases	Bitumen	Others	TOTAL
A. States													
Region: North													
Jammu & Kashmir	0	106	86	142	34	366	7	4	2	7	55	1	810
Punjab	0	494	412	239	39	2111	19	233	610	30	155	15	4357
Rajasthan	393	423	355	396	49	2413	30	308	61	24	188	12	4652
Uttar Pradesh	1038	1052	711	1243	83	4015	60	605	135	48	394	194	9578
Haryana	42	368	319	148	21	2307	26	313	332	27	149	22	4074
Himachal Pradesh	0	78	60	52	1	307	4	28	11	4	37	4	586
Uttaranchal	0	127	77	91	0	324	14	42	43	6	53	0	777
Chandigarh	0	31	62	12	24	63	1	15	5	1	8	0	222
Delhi	0	567	676	159	896	1163	26	2	5	17	27	17	3555
Total	**1473**	**3246**	**2758**	**2482**	**1147**	**13069**	**187**	**1550**	**1204**	**164**	**1066**	**265**	**28611**
Region: North East													
Assam	15	162	95	263	58	447	2	29	33	7	26	211	1348
Manipur	0	16	15	20	1	32	0	0	0	2	9	1	96
Meghalaya	0	12	27	20	0	165	0	1	0	0	10	4	239
Nagaland	0	13	15	14	1	27	0	0	0	0	16	-1	85
Tripura	0	18	15	31	3	43	0	0	0	1	15	0	126
Arunachal Pradesh	0	10	13	12	1	44	0	1	0	0	14	0	95
Mizoram	0	17	10	7	0	26	1	1	0	0	9	0	71
Total	**15**	**248**	**190**	**367**	**64**	**784**	**3**	**32**	**33**	**10**	**99**	**215**	**2060**
Region: East													
Bihar	0	243	123	648	5	921	4	15	0	7	46	170	2182
Orissa	0	130	160	313	15	967	19	249	1	19	66	48	1987
West Bengal	566	501	230	761	153	1594	90	426	0	68	167	134	4690
Jharkhand	0	92	125	212	5	889	30	118	0	26	82	2	1581
Sikkim	0	8	6	10	0	33	1	1	0	1	1	1	62
Andaman & Nikobar	0	5	6	7	10	74	0	0	0	0	7	0	109
Total	**566**	**979**	**650**	**1951**	**188**	**4478**	**144**	**809**	**1**	**121**	**369**	**355**	**10611**

Contd.....

*: Provisional

VI.4 STATE-WISE CONSUMPTION OF MAJOR PETROLEUM PRODUCTS DURING 2005-06*

('000' Tonnes)

State/UT	Naphtha	LPG	Petrol	SKO	ATF	Diesel	LDO	FO	LSHS/ HHS	Lubes & Greases	Bitumen	Others	TOTAL
Region: West													
Goa	270	44	67	18	54	273	3	156	0	4	17	9	915
Gujarat	446	580	621	750	86	2057	145	1079	910	47	386	201	7308
Madhya Pradesh	41	390	318	494	32	1381	20	378	1	24	124	180	3383
Maharashtra	1162	1511	1153	1302	971	3346	227	1544	1134	217	371	272	13210
Chhattisgarh	0	98	117	147	5	610	10	234	13	16	79	4	1333
Dadra & Nagarhav.	0	9	8	4	0	60	5	90	0	58	7	3	244
Daman & Diu	0	5	10	4	0	52	3	15		2	2	1	94
Total	**1919**	**2637**	**2294**	**2719**	**1148**	**7779**	**413**	**3496**	**2058**	**368**	**986**	**670**	**26487**
Region: South													
Andhra Pradesh	212	801	586	524	113	3233	28	316	99	48	228	107	6295
Kerala	244	456	447	227	136	1334	3	287	29	36	133	152	3484
Tamilnadu	513	933	761	617	300	2981	13	1166	458	105	321	209	8377
Karnataka	213	653	514	471	199	2388	41	517	25	36	282	30	5368
Lakshdeep	0	0	0	1	0	4	0	0	0	0	0	0	5
Pondicherry	0	23	54	14	0	258	2	48	0	3	1	1	404
Total	**1182**	**2866**	**2362**	**1854**	**748**	**10198**	**87**	**2334**	**611**	**228**	**965**	**498**	**23933**
Region: Outside India													
Bhutan	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepal	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
PSUs Total	**5155**	**9976**	**8254**	**9373**	**3295**	**36308**	**834**	**8221**	**3907**	**891**	**3485**	**2003**	**91702**
Sales by Private @	7108	316	392	4	0	3816	49	635	0	1220	15	6680	20235
Grant Total	**12263**	**10292**	**8646**	**9377**	**3295**	**40124**	**883**	**8856**	**3907**	**2111**	**3500**	**8683**	**111937**

Source: Petroleum Planning and Analysis Cell, New Delhi. *: Provisional

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

VI.6 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*
A. States							
1. Andhra Pradesh	86.9	82.9	83.5	84.5	85.9	86.4	78.8
2. Arunachal Pradesh	92.4	76.8	77.0	79.7	80.0	83.6	82.3
3. Assam	43.8	44.0	46.4	42.9	46.3	50.6	47.7
4. Bihar	37.9	39.7	27.8	25.1	26.7	26.6	24.4
5. Chhattisgarh		9.3	44.0	47.2	50.0	61.5	59.9
6. Delhi	267.2	235.5	223.9	226.4	237.2	253.5	228.3
7. Goa	582.1	612.4	695.2	589.3	656.9	743.1	631.0
8. Gujarat	215.9	190.0	176.3	169.4	164.5	161.9	135.0
9. Haryana	173.6	172.0	176.7	180.4	179.7	188.6	178.0
10. Himachal Pradesh	78.1	86.7	87.4	89.8	88.4	92.5	91.8
11. Jammu & Kashmir	64.2	61.2	65.5	69.3	71.1	74.3	75.1
12. Jharkhand		13.1	41.1	52.0	52.5	58.8	54.8
13. Karnataka	85.7	84.3	92.1	93.4	98.7	102.0	96.6
14. Kerala	113.3	119.8	107.5	120.8	129.2	112.7	105.6
15. Madhya Pradesh	57.6	68.1	57.5	57.9	62.1	62.7	51.9
16. Maharashtra	139.2	129.3	128.4	127.0	128.8	133.1	128.0
17. Manipur	36.7	32.6	27.6	59.4	40.0	42.7	42.1
18. Meghalaya	79.0	69.0	72.4	82.0	95.2	101.3	98.0
19. Mizoram	59.5	82.9	64.0	68.5	74.4	72.2	75.9
20. Nagaland	39.9	29.2	29.2	32.7	34.5	44.0	40.6
21. Orissa	45.3	45.2	44.5	49.5	50.2	54.9	51.6
22. Pondicherry		263.9	280.8	299.8	327.0	377.0	382.2
23. Punjab	195.7	173.0	184.2	182.9	180.9	189.0	169.4
24. Rajasthan	89.5	85.1	88.1	92.4	96.6	96.9	76.1
25. Sikkim	73.5	72.2	74.1	98.1	126.0	110.0	109.0
26. Tamilnadu	135.2	135.0	131.1	135.9	134.3	136.2	129.6
27. Tripura	30.3	33.2	34.2	37.0	37.8	36.6	37.4
28. Uttar Pradesh	61.6	60.2	53.7	54.7	57.5	59.5	53.3
29. Uttaranchal		20.9	80.3	80.0	84.6	88.7	85.6
30. West Bengal	58.4	58.5	63.6	58.5	57.8	60.5	55.6
B.Union Territories							
1. Chandigarh	362.8	275.2	225.3	226.4	230.0	245.6	211.4
2. Daman & Diu and Dadra & Nagar Haveli	634.9	537.0	529.1	754.0	820.0	965.0	739.6
3. Others	242.0	329.2	172.7	232.6	178.0	228.0	240.0
Total All India @	**102.0**	**104.2**	**104.9**	**108.1**	**112.9**	**116.8**	**110.5**

*: Provisional.

PER CAPITA CONSUMPTION OF SELECTED PETROLEUM PRODUCTS

(Unit : Kg)

Product	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06*
Naphatha	8.1	7.8	11.4	11.5	7.1	13.6	11.2
MS	6.0	6.4	6.8	7.3	7.7	8.0	7.9
SKO	10.9	10.4	10.2	10.1	9.2	9.1	8.6
HSDO	40.0	36.9	35.6	35.5	35.9	38.5	36.6
LDO	1.5	1.4	1.6	2.0	1.1	1.4	0.8
F.O (Regular)	6.9	6.2	8.2	7.8	7.0	8.9	8.1
LSHS/HHS	4.9	4.9	4.4	4.6	4.5	4.3	3.6
Total All India Sales @	**102.0**	**104.2**	**104.9**	**108.1**	**112.9**	**116.8**	**110.5**

@ = Includs Ref. fuel & international bunkers upto the year 1995-96, later on pvt. imports also included.

Note : Population figures taken CSO's publication 'Selected Socio-Economic Statistics, India 2002".

Projected population of 2005 used for the year 2005-06

*: Provisional.

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

(Qty.'000'Tonnes)

SECTOR	2003-04		2004-05		2005-06*	
	Consum-ption	% to Total	Consum-ption	% to Total	Consum-ption	% to Total
LPG						
1. Domestic	7589	81.6	9821	95.9	9820	95.4
2.Commercial/Industry	1109	11.9				
3.Transport sector	5	0.1				
4.Power Generation	5	0.1				
5.Agriculture	5	0.1				
6.Mining	2	0.0				
7.Manufacturing						
i) Chemicals	59	0.6	89	0.9	92	0.9
ii) Engineering	29	0.3	5	0.0	6	0.1
iii) Metallergical	20	0.2	22	0.2	24	0.2
iv) Textiles	4	0.0	2	0.0	2	0.0
v) Consumer & Ind. Goods	31	0.3	10	0.1	11	0.1
Sub Total	143	1.5	128	1.2	135	1.3
8.Miscellaneous	231	2.5	18	0.2	21	0.2
9. Private Party sales	216	2.3	278	2.7	316	3.1
TOTAL	9305	100.0	10245	100.0	10292	100.0
SKO (Kerosene)						
1. Domestic	8974	87.7	9287	98.9	9267	98.8
2. Commercial/Industry	100	1.0	25	0.3	24	0.3
3.Others	352	3.4	83	0.9	82	0.9
4. Private Party sales	804	7.9	0	0.0	4	0.0
TOTAL	10230	100.0	9395	100.0	9377	100.0
NAPHTHA						
1. Fertilizers	3226	27.2	3165	22.6	2249	18.3
2. Petrochemicals	1280	10.8	1243	8.9	1490	12.2
3. Power Plants	1105	9.3	961	6.9	629	5.1
4. Steel Plants	392	3.3	120	0.9	55	0.4
5. Others	1326	11.2	1062	7.6	732	6.0
6. Private Party sales	4539	38.2	7443	53.2	7108	58.0
TOTAL	11868	100.0	13993	100.0	12263	100.0

*: Provisional

Cont'd...

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

(Qty.'000'Tonnes)

SECTOR	2003-04		2004-05		2005-06*	
	Consum-ption	% to Total	Consum-ption	% to Total	Consum-ption	% to Total
			HSDO			
1. TRANSPORT						
i) Road Transport	19868	53.6	20583	51.9	19335	48.2
ii) Aviation	27	0.1	38	0.1	15	0.0
iii) Shipping	246	0.7	259	0.7	351	0.9
iv) Railways	1631	4.4	1625	4.1	1877	4.7
Sub total (1)	**21772**	58.7	**22505**	56.8	**21578**	53.8
2. PLANTATION/FOOD						
i) Sugar Mills	87	0.2	75	0.2	92	0.2
ii) Others (incl.Plan. of Food)	7123	19.2	7404	18.7	6923	17.3
Sub total (2)	**7210**	19.4	**7479**	18.9	**7015**	17.5
3. Power Generation (Utilities)	**2526**	6.8	**2769**	7.0	**2683**	6.7
4. Industry						
i) Iron & Steel	81	0.2	99	0.2	118	0.3
ii) Textile & Fibre	96	0.3	127	0.3	152	0.4
iii) Cement	102	0.3	77	0.2	80	0.2
iv) Ceremic & Glass	17	0.0	20	0.1	15	0.0
v) Chemicals & Allied	104	0.3	78	0.2	62	0.2
vi) Aluminium	8	0.0	4	0.0	3	0.0
vii) Mining & Quarrying	664	1.8	660	1.7	642	1.6
viii) Engg. (Mech. & Elec.)	194	0.5	138	0.3	151	0.4
ix) Fertilizers	8	0.0	19	0.0	14	0.0
x) Other Industries & Construction	1168	3.2	1314	3.3	1209	3.0
Sub total (4)	**2442**	6.6	**2536**	6.4	**2446**	6.1
5. Misc. Services	**2925**	7.9	**2798**	7.1	**2586**	6.4
6. Private Party sales	**199**	0.5	**1564**	3.9	**3816**	9.5
Total	**37074**	100.0	**39651**	100.0	**40124**	100.0

*: Provisional.

Cont'd...

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

(Qty.'000'Tonnes)

SECTOR	2003-04		2004-05		2005-06*	
	Consum-ption	% to Total	Consum-ption	% to Total	Consum-ption	% to Total
			LDO			
1. TRANSPORT						
i) Road Transport	2	0.1	0	0.0	0	0.0
ii) Aviation	2	0.1	0	0.0	0	0.0
iii) Shipping	51	3.2	46	3.1	49	5.5
iv) Railways	2	0.1	3	0.2	3	0.3
v) Other Transport (incl. Agri. Retail Trade)	0	0.0	0	0.0	0	0.0
Sub total (1)	**57**	3.5	**49**	3.3	**49**	5.5
2. PLANTATION/FOOD						
i) Sugar Mills	2	0.1	2	0.1	2	0.2
ii) Others (incl.Plan. of Food)	44	2.7	35	2.4	26	2.9
Sub total (2)	**46**	2.8	**37**	2.5	**28**	3.2
3. Power Generation (Utilities)	**147**	9.1	**88**	6.0	**65**	7.4
4. Industry						
i) Iron & Steel	102	6.3	107	7.2	86	9.7
ii) Textile & Fibre	56	3.5	50	3.4	26	2.9
iii) Cement	17	1.1	8	0.5	8	0.9
iv) Ceremic & Glass	27	1.7	23	1.6	13	1.5
v) Chemicals & Allied	86	5.3	78	5.3	54	6.1
vi) Aluminium	5	0.3	1	0.1	3	0.3
vii) Mining & Quarrying	4	0.2	5	0.3	12	1.4
viii) Engg. (Mech. & Elec.)	66	4.1	57	3.9	45	5.1
ix) Fertilizers	1	0.1	0	0.0	0	0.0
x) Other Industries & Construction	317	22.4	292	19.8	175	19.8
Sub total (4)	**681**	44.9	**621**	42.1	**422**	47.8
5. Misc. Services	**250**	15.4	**290**	19.6	**270**	30.6
6. Private Party sales	**438**	27.1	**391**	26.5	**49**	5.5
Total	**1619**	100.0	**1476**	100.0	**883**	100.0

*: Provisional

Contd...

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

(Qty.'000'Tonnes)

SECTOR	2003-04		2004-05		2005-06*	
	Consum-ption	% to Total	Consum-ption	% to Total	Consum-ption	% to Total
Furnace Oil						
1. TRANSPORT						
i) Road Transport	3	0.0	0	0.0	0	0.0
ii) Aviation	71	0.9	0	0.0	0	0.0
iii) Shipping	163	2.0	180	2.0	237	2.7
iv) Railways	8	0.1	0	0.0	0	0.0
v) Other Transport (incl. Agri. Retail Trade)	94	1.1	172	1.9	241	2.7
Sub total (1)	**339**	4.1	**352**	3.8	**478**	5.4
2. PLANTATION/FOOD						
i) Sugar Mills	9	0.1	0	0.0	0	0.0
ii) Others (incl.Plan. of Food)	243	2.9	0	0.0	0	0.0
Sub total (2)	**252**	3.0	**0**	0.0	**0**	0.0
3. Power Generation (Utilities)	**371**	4.5	**314**	3.4	**302**	3.4
4. Industry						
i) Iron & Steel	540	6.5	789	8.6	849	9.6
ii) Textile & Fibre	600	7.2	3	0.0	28	0.3
iii) Cement	271	3.3	3	0.0	22	0.2
iv) Ceremic & Glass	103	1.2	1	0.0	0	0.0
v) Chemicals & Allied	1166	14.0	208	2.3	303	3.4
vi) Aluminium	134	1.6	3	0.0	38	0.4
vii) Mining & Quarrying	227	2.7	-	0.0	-	0.0
viii) Engg. (Mech. & Elec.)	164	2.0	4	0.0	16	0.2
ix) Fertilizers	463	5.6	542	5.9	550	6.2
x) Other Industries & Construction	696	8.4	9	0.1	22	0.2
Sub total (3)	**4364**	52.5	**1562**	17.1	**1828**	20.6
5. Misc. Services	**1881**	22.6	**5827**	63.7	**5613**	63.4
6. Private Party sales @	**1105**	13.3	**1099**	12.0	**635**	7.2
Total	**8312**	100.0	**9154**	100.0	**8856**	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	2003-04		2004-05		2005-06*	
	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)	5	0.1	0	0.0	0	0.0
Sub total (2)	**5**	0.1	**0**	0.0	**0**	0.0
3. Power Generation (Utilities)	**1569**	33.9	**1238**	28.1	**560**	14.3
4. Industry						
i) Iron & Steel	51	1.1	27	0.6	29	0.7
ii) Textile & Fibre	82	1.8	0	0.0	0	0.0
iii) Cement	32	0.7	2	0.0	5	0.1
iv) Ceremic & Glass	99	2.1	0	0.0	0	0.0
v) Chemicals & Allied	221	4.8	91	2.1	45	1.2
vi) Aluminium	2	0.0	0	0.0	0	0.0
vii) Mining & Quarrying	23	0.5	0	0.0	0	0.0
viii) Engg. (Mech. & Elec.)	223	4.8	0	0.0	0	0.0
ix) Fertilizers	1430	30.9	1312	29.8	1295	33.1
x) Other Industries & Construction	100	2.2	20	0.5	16	0.4
Sub total (4)	**2263**	48.8	**1453**	33.0	**1390**	35.6
5. Misc. Services	**796**	17.2	**1713**	38.9	**1957**	50.1
6. Private Party sales	@	0.0	@		@	0.0
Total	**4633**	100.0	**4404**	100.0	**3907**	100.0

*: Provisional.
@ : LSHS sales by Private parties included in FO sales. Break-up not available.

VI.7 CONSUMPTION OF DIESEL OIL IN INDIAN RAILWAYS DURING 1960-61 TO 2005-06

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	4801	2080634	433.4
2005-06	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	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
I. Fertilizer Plants:						
Nagarjuna Fert. & Chem. Ltd	154	70	42	89	160	179
ZAC Goa	233	197	185	180	223	202
IFFOC Kalol	66	39	99	121	52	16
FACT, Alwaye	358	64	0	0	4	0
MFL Madras	233	155	209	203	226	170
SPIC Tuticorin	275	244	258	272	155	277
Deepak Fert. & Chem. Ltd	15	9	2	8	17	16
MCPL Mangalore	152	172	167	150	152	171
SFC Kota	149	188	171	159	171	164
ICI Kanpur	400	342	9	0	0	25
IFFCO Phulpur	680	605	697	688	665	682
Paswara Petrochem Ltd	0	0	0	0	99	0
Others	125	460	156	103	0	2
Total	**2840**	**2545**	**1995**	**1973**	**1924**	**1904**
2. Fertilizer Plants Gas Based:						
KRIBCO, Hazira	127	139	175	132	100	0
NPL Vijaypur	93	133	183	223	229	41
Chambal Fertiliser	503	514	544	634	605	147
Indo Gulf Fert. Ltd	2	0	33	81	111	14
IFFCO Aonla	0	49	79	91	75	128
TATA Chemicals	41	4	19	92	117	10
Bindal Agro Shahjahanpur	11	30	0	0	4	5
Others	1	12	0	0	0	0
Total	**778**	**881**	**1033**	**1253**	**1241**	**345**
3. Petrochemical Plants:						
Andhra Petrochem Ltd	13	8	12	14	14	13
BRPL, Bongaigaon	31	24	10	12	14	15
Reliance Industries, Jamnagar	12	37	0	15	4	0
Reliance Industries, Hazipur	0	78	0	82	183	112
FACT Cochin	0	0	95	168	154	176
Reliance Industries	189	242	160	220	173	242
Reliance Petrochem. Ltd, Thene	0	0	0	0	81	237
Reliance Petrochem. Ltd, Patalganga	0	0	0	0	15	25
Haldia Petrochemicals Ltd, Midnapur	0	0	0	0	78	161
Haldia Petro WB, Haldia	418	737	359	237	0	25
Others	1058	947	314	19	6	4
Total	**1721**	**2073**	**950**	**767**	**722**	**1010**
4. Petrochem. Plants Gas Based						
RCF, Thal	268	408	505	513	521	480
Total	**268**	**408**	**505**	**513**	**521**	**480**
5. Power Plants						
Gujarat Torrent Energy Corpn. Ltd	215	0	28	5	14	0
NTPC Ltd, Alapuzh (Allepy)	343	145	370	369	106	59
NTPC Anta	3	0	1	15	43	38
NTPC Auria	87	25	97	161	54	71
NTPC Faridabad	0	0	0	0	22	5
Essar Power Ltd	39	66	132	22	2	0
Others	0	0	0	0	0	0
Total	**771**	**581**	**629**	**573**	**242**	**184**

Contd...

VI. 8 INDUSTRY/PLANT-WISE OFFTAKES OF NAPHTHA

(Qty: ' 000' MTs)

Category and Plant	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
6. Power Plants Gas Based						
A. P Gas Power Corporation. Ltd	90	7	13	30	29	14
Reliance Energy Ltd, Goa	0	0	0	0	23	32
NTPC Kawas	369	385	477	487	446	211
BSES Kerala Power Ltd. Udagamandal	0	0	0	0	12	0
Chennai Municipal Corpn.	0	0	0	0	7	0
Herdelia Chemicals A/C Benzene	0	0	0	0	2	0
TBP Company Pvt. Ltd, Mangalore	0	0	0	0	110	42
NTPC Kota	0	0	0	0	20	44
NTPC Auria	0	0	0	0	70	102
Others	68	21	69	15	0	0
Total	**527**	**413**	**559**	**532**	**719**	**445**
7. Steel Plants						
Essar Steel Ltd.	126	6	4	23	6	28
Essar Steel, Hazira	0	7	231	333	61	0
EBG India Pvt. Ltd, Nasik	3	3	3	2	1	0
Thyssenkrupp Elect Steel India, Nasik	0	0	0	0	0	2
Vikram Ispat Ltd, Raigad	8	7	12	34	50	25
HCL Khetri	0	1	0	0	0	0
Others	9	17	0	0	2	0
Total	**146**	**41**	**250**	**392**	**120**	**55**
8. Others :						
Coramandal Fertilizer, Vizag	0	0	5	2	4	5
Asian Paraoxide Ltd, Nellore, AP	0	0	0	3	2	1
Reliance Salgaoncar Power Co.	58	24	68	58	42	35
Ultratech Cement Ltd , Kovaiya	0	0	0	0	5	19
L & T Ltd, Kuvaya	62	64	66	72	38	0
Nirma Ltd, Savli	2	3	3	4	63	32
Indo Gulf Corpn. Ltd , Bharuch	0	5	6	16	3	3
BSES Kerala Power Ltd. Udagamandal	36	41	55	176	19	25
Sabari Rubber Pvt. Ltd, Kottayam	0	0	0	0	4	8
Indian Organic Chemicals	9	9	9	8	0	0
PPN Power Generating Co. Ltd, Nagapatnam	0	120	281	157	8	0
Hindusthan Organic Chemicals, Rasayani	2	5	6	4	73	54
National Peroxide Ltd, Nagpur		4	5	5	4	3
Pix Transmission Ltd, Nagpur	0	0	10	9	5	5
Reliance Industries Ltd, Raigad	85	9	111	130	10	10
VVF Ltd , Raigad	0	0	0	0	140	106
HAL Sonabadi	0	0	0	0	4	7
Govind Rubber Ind. Ludhiana	0	0	0	0	0	0
Haldia Petro WB, Haldia	0	0	49	124	0	1
Haldia Petrochemicals Ltd, Haldia	16	68	139	105	481	356
NTPC, Faridabad	0	0	0	1	91	24
Others	738	788	552	452	66	36
Total	**1008**	**1140**	**1365**	**1326**	**1062**	**730**
Grand Total	**8059**	**8128**	**7284**	**7329**	**6550**	**5155**

Source : Industry sales By Customers, M-13 Report of PPAC, New Delhi
Note: Naphtha consumption excludes pvt. Sales.

VI. 9 PLANT/CUSTOMER-WISE OFFTAKES OF FO/LSHS DURING 1999-00 TO 2005-06

(Qty: '000' MTs)

Category and Plant	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06*
			(1) POWER				
A.Northern:	**116.5**	**71.8**	**63.1**	**57.6**	**52.6**	**70.4**	**84.9**
NTPC Unchahar	9.5	2.8	2.7	0.0	0.0	1.0	2.3
TPS Obra	21.0	21.2	20.1	16.4	13.9	14.4	14.0
TPS Hardwaganj	7.6	2.7	2.5	2.4	2.3	4.2	6.1
BTPS Badarpur	1.2	0.3	0.0	0.0	0.0	0.0	0.0
GNTP Bhatinda	2.7	2.6	3.0	2.8	1.4	2.9	1.4
TPS Paricha	10.3	3.1	5.4	8.7	3.9	1.4	5.0
NTPS Singrauli	NA	5.6	2.7	1.3	1.3	3.6	5.3
NTPS Rihand	NA	1.4	0.0	0.0	0.3	5.1	19.6
KTPS Kota	1.4	1.3	0.0	1.4	0.0	0.0	0.0
DVB Delhi	7.0	6.8	2.6	2.9	2.9	11.0	2.8
HSEB Faridabad	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TPS Ropar	14.3	10.6	7.5	7.2	2.9	4.3	1.5
TPS Panipat	13.7	8.2	16.6	13.1	5.8	22.5	26.9
HWP Rawatbhatta	27.8	0.0	0.0	0.0	0.0	0.0	0.0
Lehra Mohabbat, BTI	0.0	5.2	0.0	1.4	0.0	0.0	0.0
B. Eastern:	**113.0**	**114.7**	**111.6**	**112.9**	**96.8**	**92.1**	**61.0**
NTPC Kahalgaon	4.6	4.3	1.4	2.9	2.8	0.0	0.0
ASEB Chandrapura	11.2	0.0	0.0	0.0	0.0	0.0	0.0
CTPS Chandrapura	34.2	35.3	29.8	24.1	12.7	0.0	0.0
NTPC Farakka	19.0	14.1	9.9	15.7	19.8	24.4	10.4
BTPS Barauni	10.3	5.7	4.3	1.4	2.8	0.0	1.4
TTPS Talchar	1.4	0.0	0.0	0.0	0.0	0.0	4.1
BTPS Salakati	3.7	4.2	2.7	0.0	0.0	0.0	0.0
MCCPTA Haldia	0.0	24.1	24.7	23.7	13.5	20.9	29.9
Others	0.0	27.0	38.8	45.1	45.2	46.8	15.2
C. Western:	**1229.8**	**1645.2**	**1409.0**	**1447.0**	**1522.8**	**1599.1**	**1386.9**
GEB Dhuwaran	611.1	643.4	472.6	401.4	447.3	580.4	429.4
GEB Ukai	20.3	10.5	15.9	8.1	13.0	12.7	6.9
GEB Gandhinagar	39.6	22.0	1.4	7.5	19.6	29.1	8.8
AECO Sabarmati	5.9	4.2	6.0	1.5	0.0	0.0	0.0
GEB Wanakbari	8.7	7.3	5.8	8.9	12.6	7.5	3.2
MPEB Sarani	8.4	16.0	23.8	16.6	7.6	1.3	2.7
MSEB Koradi	15.4	18.2	14.0	21.6	16.5	13.1	7.3
MSEB Chandrapur	6.6	13.8	17.2	10.4	2.8	2.7	6.8
MPEB Dhari	4.0	0.0	0.0	0.0	0.0	0.0	0.0
MSEB Nasik	7.3	7.5	16.6	10.6	11.0	17.2	5.4
MSEB Bhusawal	4.8	4.8	8.3	11.1	10.3	6.2	12.6
MSEB Paras	0.0	0.2	0.7	0.8	0.0	1.4	0.0
MSEB Parli	15.1	9.8	11.2	15.2	12.3	9.0	13.5
NTPC Korba	5.6	4.2	1.4	0.0	1.4	0.0	1.4
MPEB Korba	9.3	7.1	18.4	7.1	4.3	0.0	0.0
TATA Thermal	448.6	813.8	746.9	899.4	943.2	905.0	857.2
MPEB Chachai	3.5	5.9	11.6	7.1	10.0	4.1	0.0
NTPC Waldhan	13.0	23.9	4.3	1.3	1.3	1.3	0.0
MSEB Kaperkheda	2.6	15.3	19.4	7.4	5.3	5.6	8.2
MPEB Birsingpur	-	17.3	13.5	11.0	4.3	2.5	3.3

Contd.....

Source : Industrial Performance Review, IOC Ltd. *= Provisional.

NA : Not Available

VI. 9 PLANT/CUSTOMER-WISE OFFTAKES OF FO/LSHS DURING 1999-00 TO 2005-06

(Qty: ' 000' MTs)

Category and Plant	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06*
D. Southern :	**666.8**	**702.6**	**860.4**	**811.4**	**574.2**	**446.6**	**325.3**
GMR Vasavi	248.6	230.8	232.8	226.9	173.8	148.9	130.3
TTPS Tutikorin	5.9	8.3	4.6	3.5	2.4	4.4	6.4
KTPS Palvancha	13.1	12.8	9.1	6.6	6.3	2.5	2.5
RTPS Raichur	17.3	12.1	6.8	1.3	2.6	2.7	0.0
MTPP Metturdam	24.1	4.0	0.9	0.0	0.4	2.5	1.6
NLC Thermal Neyveli	20.3	79.7	58.8	34.9	0.0	5.1	6.6
HWP Manuguru	3.1	4.7	2.9	0.2	0.0	0.0	0.0
KEB Yellahanka	129	128.1	151.0	136.4	77.1	49.1	14.9
VTPS Ibrahimpatnam	2.7	4.5	2.6	1.3	1.2	0.0	1.4
RTPS Kalkamalla	2.5	3.6	0.0	1.3	1.3	2.1	0.3
NMTP Chennai	69.2	59.1	33.6	12.6	6.1	12.3	7.4
Samalpatti	-	0.0	86.0	130.5	96.0	70.2	68.3
Kerala SEB	-	89.4	38.3	6.9	0.0	0.0	0.0
Tata Power	-	0.0	131.4	56.9	57.4	43.9	0.0
Balaji power	-	0.0	57.8	128.5	96.9	71.6	64.1
Others	131.0	65.5	43.8	63.6	52.7	31.3	21.5
Total Power (A+B+C+D)	**2126.1**	**2534.3**	**2444.1**	**2428.9**	**2246.4**	**2208.1**	**1839.0**
	(II) Fertilizer Plants						
A. Northern:	**1062.1**	**816.9**	**959.0**	**842.6**	**939.3**	**919.0**	**895.1**
IFFCO Anola	1.5	4.3	0.0	0.0	0.0	0.0	0.0
Indo Gulf, Jagdishpur	37.9	11.3	0.0	0.0	0.0	1.4	6.8
NFL, Nangal	280.0	210.7	291.2	260.9	293.3	301.1	271.5
NFL, Bhatinda	334.0	237.7	310.3	265.0	282.3	274.1	259.7
NFL, Panipat	304.8	290.7	288.5	258.6	302.7	270.8	269.7
IFFCO, Phulpur	103.9	62.2	69.0	58.1	61.0	71.6	88.4
SFC, Kota	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B. Eastern:	**229.3**	**204.2**	**79.3**	**28.0**	**14.9**	**3.5**	**4.4**
Oswal Fertilizers	0.0	18.2	17.6	8.9	2.5	3.5	1.5
HFC Durgapur	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FCI Sindri	200.8	179.8	58.6	0.0	0.0	0.0	0.0
FCI Barauni	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FCI Talchar	1.5	0.0	0.0	0.0	0.0	0.0	0.0
Paradeep Phosphate	27.0	6.2	3.1	19.1	12.4	0.0	2.9
C. Western:	**740.5**	**720.3**	**717.8**	**646.8**	**682.2**	**583.9**	**540.8**
RCF Mumbai	45.6	11.6	0.0	0.0	0.0	0.0	0.0
ZAC Goa	98.6	96.0	105.8	101.3	103.6	110.5	88.8
IFFCO Kalol	38.0	51.6	50.1	44.6	42.0	44.8	19.5
GSFC Baroda	116.6	110.8	115.9	76.1	66.0	8.7	0.0
GNFC Bharuch	441.7	450.3	446.0	424.8	470.6	419.9	431.8
D. Southern :	**544.4**	**472.3**	**665.7**	**727.8**	**636.9**	**493.2**	**465.0**
MFL Madras	139.0	126.6	114.1	125.3	114.1	125.8	107.5
MCFL Mangalore	69.7	73.1	80.9	85.2	78.5	90.9	85.3
FACT Cochin	114.8	120.7	309.0	358.7	331.7	163.2	148.3
NLC	11.2	0.0	0.0	0.0	0.0	2.2	0.0
SPIC Tuticorin	188.3	132.9	139.4	141.4	100.7	102.4	119.4
FCI Ramagundam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coromandal Fertilizers	21.4	19.0	22.3	17.2	11.9	8.7	4.5
Total Fertilizers (A+B+C+D)	**2576.3**	**2213.7**	**2421.8**	**2245.2**	**2273.3**	**1999.6**	**1905.3**

Source : Industrial Performance Review, IOC Ltd. *= Provisional. Contd.....

NA : Not Available

VI. 9 PLANT/CUSTOMER-WISE OFFTAKES OF FO/LSHS DURING 1999-00 TO 2005-06

(Qty: ' 000' MTs)

Category and Plant	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06*
(III) Petrochemical Plants							
C. Wastern:							
Herdilla Chemicals Ltd	7.8	9.1	11.7	7.5	0.0	4.7	8.4
IPCL Baroda	37.3	31.1	24.8	46.6	85.3	36.4	3.1
NOCIL Mumbai	0.0	0.0	1.2	2.4	2.0	0.0	0.0
Reliance Ind. Mumbai	49.2	48.2	90.0	123.5	137.9	143.3	152.9
Sub Total (C)	**94.3**	**88.4**	**127.7**	**180.0**	**225.2**	**184.4**	**164.4**
D. Southern :							
FACT Udagamandal	6.2	0.0	62.2	0.0	0.0	0.0	0.0
NTPL Chennai	68.6	69.7	65.5	83.1	53.0	7.8	0.0
Sub Total (D)	**74.8**	**69.7**	**127.7**	**83.1**	**53.0**	**7.8**	**0.0**
Total Petrochemicals (C+D)	**169.1**	**158.1**	**255.4**	**263.1**	**278.2**	**192.2**	**164.4**
(IV) Steel Plants							
B.Eastern:							
RSP Rourkela	7.1	8.5	8.2	16.2	7.1	0.0	0.0
ASP Durgapur	8.4	7.4	11.3	8.1	3.3	12.8	8.9
TISCO Jamshedpur	1.0	0.0	0.1	0.5	0.0	0.0	0.0
BSP Bokaro	18.4	14.5	16.6	7.1	6.3	0.0	1.5
SAIL Patratu	12.6	2.9	9.3	0.0	0.0	0.0	0.0
Others	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Sub Total (B)	**47.5**	**33.3**	**45.5**	**31.9**	**16.8**	**12.8**	**10.4**
C.Wastern:							
HSL, Bhilai	15.7	13.0	8.7	10.0	9.5	9.7	10.6
Sub Total (C)	**15.7**	**13.0**	**8.7**	**10.0**	**9.5**	**9.7**	**10.6**
D.Southern:							
Essar Steels	20.0	42.0	23.1	37.1	44.6	36.4	9.3
Jindal Steel	11.5	6.1	7.9	0.0	0.0	0.0	0.0
Vizag Steel Plant	21.8	3.8	0.0	0.9	0.0	0.0	0.0
VISL Bhadravati	7.9	9.1	7.0	3.0	1.7	3.5	3.0
Sub Total (D)	**61.2**	**61.0**	**38.0**	**41.0**	**46.3**	**39.9**	**12.9**
Total Steel (B+C+D)	**124.4**	**107.3**	**92.2**	**82.9**	**72.6**	**62.4**	**33.9**

Contd.....

Source : Industrial Performance Review, IOC Ltd. * Provisional
NA : Not Available

VI. 9 PLANT/CUSTOMER-WISE OFFTAKES OF FO/LSHS DURING 1999-00 TO 2005-06

(Qty: ' 000' MTs)

Category and Plant	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06*
			(V) Others				
A.Northern:	**23.7**	**37.2**	**46.9**	**50.2**	**64.3**	**71.4**	**85.4**
HCI Khetri	6.7	0.0	0.0	0.0	0.0	0.0	0.0
Hindalco	17.0	37.2	46.9	50.2	64.3	71.4	85.4
B.Eastern:	**130.3**	**128.4**	**173.2**	**189.6**	**135.5**	**122.7**	**126.7**
Indal Muri	3.5	8.3	8.9	4.8	2.7	1.1	0.0
NALCO Angul	19.3	23.6	24.6	23.6	15.7	11	13.7
IRE Chatarpur	3.2	0.2	2.0	2.5	4.0	0.0	0.0
NALCO Damanjodi	62.7	69.9	84.3	118.8	96.3	92.9	92.7
OCL Rajgangapur	17.8	8.7	10.7	8.8	0.1	5.7	2.7
TELCO Jamshedpur	4.8	1.6	0.1	0.0	0.3	0.0	0.0
HCL Ghatsila	1.7	0.0	0.0	3.0	1.2	0.0	0.0
Phumphar Shipping	17.3	16.1	30.4	17.8	2.2	0.0	0.2
Others	-	-	12.2	10.3	13.0	12.0	17.4
C.Western:	**59.9**	**82.6**	**59.4**	**60.6**	**32.8**	**55.9**	**27.7**
BALCO Korba	28.2	21.0	0.0	18.7	9.6	6.4	0.0
Bombai Dye & Mkg. Co.	24.8	37.8	30.0	33.4	23.2	20.0	17.3
HOC Rasayani	6.9	0.3	0.0	0.0	0.0	0.0	0.0
HPC Mandovi Pellets	0.0	23.5	29.4	8.5	0.0	29.5	10.4
D.Southern:	**388.2**	**381.3**	**233.7**	**178.8**	**183.2**	**161.8**	**117.3**
Grasim	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S.I.Viscose	35.0	19.0	8.1	0.0	0.0	0.0	0.0
Indal Belgaum	44.5	37.9	12.1	21.7	16.9	24.0	26.6
Tex MACO	0.0	6.1	0.0	0.0	0.0	0.0	0.0
Ballapur Ind.	19.8	17.1	0.8	0.8	0.1	0.0	0.0
Chem Plast	75.0	75.9	82.5	74.3	79.2	47.5	18.3
HOC Cochin	20.9	19.9	19.7	0.0	0.0	0.0	0.0
Kudramuk Iron & Ore Co.	68.7	60.4	83.2	73.1	81.3	83.7	69.1
FACT ASCL	111.4	108.5	7.0	0.0	0.0	0.0	0.0
Zuari	12.9	16.9	10.8	1.9	0.7	0.0	0.0
Others	-	19.6	9.5	7.0	5.0	6.6	3.3
Total I (A+B+C+D)	**602.1**	**629.5**	**513.2**	**563.0**	**415.8**	**411.1**	**357.1**
			(VI) General Trade				
A.Northern:	1153.5	1340.0	1417.1	1447.9	1524.6	1819.2	1689.9
B.Eastern:	433.6	388.8	391.9	373.2	526.6	621.9	636.4
C.Wastern:	2717.5	2374.3	2458.0	2482.7	2670.4	3160.1	3411.5
D.Southern:	1649.0	1589.9	1575.6	1825.4	1803.3	1894.2	1829.1
Total General Trade	**5953.6**	**5693.0**	**5842.6**	**6129.2**	**6524.9**	**7495.4**	**7566.9**
Grand Total (I+II+III+IV+V+VI)	**11579.3**	**11335.9**	**11583.0**	**11634.0**	**12288.0**	**13111.0**	**12241.0**

Source : Industrial Performance Review, IOC Ltd. * Provisional

NA : Not Available

VI.10 STATE-WISE FUEL CONSUMPTION AND POWER GENERATION IN GAS TURBINE AND DIESEL POWER STATIONS IN INDIA DURING 2004-05*

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	0	0	0.00	0	0	0.00
Himachal Pradesh	0	0	0	0.00	0	0	0.00
Jammu & Kashmir	0	5209	0	23.74	0	0	0.00
Punjab	0	0	0	0.00	0	0	0.00
Rajasthan	220	4083	0	353.85	0	0	0.00
Uttar Pradesh	0	0	0	0.00	0	0	0.00
Uttaranchal	0	0	0	0.00	0	0	0.00
Chandigarh	0	0	0	0.00	0	0	0.00
Delhi	968	11	0	4091.19	0	0	0.00
Central Sector	2870	265744	243961	15522.14	0	0	0.00
WESTERN REGION							
Gujarat	2635	932	92964	12885.89	0	0	0.00
Madhya Pradesh	0	0	0	0.00	0	0	0.00
Chhattisgarh	0	0	0	0.00	0	0	0.00
Maharashtra	1153 A	0	0	5450.19	0	0	0.00
Goa	0	0	65252	336.16	0	0	0.00
D. & N. Haveli	0	0	0	0.00	0	0	0.00
Daman & Diu	0	0	0	0.00	0	0	0.00
Central Sector	879	693	618692	6854.11	0	0	0.00
SOUTHERN REGION							
Andhra Pradesh	1724	268	41595	8269.89	0	0	0.00
Karnataka	0	0	108935	661.40	84162	52105	554.96
Kerala	0	86	20042	118.89	75185	3348	311.94
Tamil Nadu	412	80655	11070	2481.10	305873	0	1544.30
Lakshadweep	0	0	0	0.00	0	7586	22.61
Pondicherry	67	0	0	275.41	0	0	0.00
Central Sector	0	245	107809	621.74	0	0	0.00
EASTERN REGION							
Bihar	0	0	0	0.00	0	0	0.00
Jharkhand	0	0	0	0.00	0	0	0.00
Orissa	0	0	0	0.00	0	0	0.00
West Bengal	0	0	0	0.00	219	0	0.63
D.V.C.	0	0	0	0.00	0	0	0.00
A & N Islands	0	0	0	0.00	0	29858	122.80
Sikkim	0	0	0	0.00	0	22	0.16
Central Sector	0	0	0	0.00	0	0	0.00
NORTH EASTERN REGION							
Assam	342	0	0	903.24	0	0	0.00
Manipur	0	0	0	0.00	0	311	1.30
Meghalaya	0	0	0	0.00	0	0	0.00
Nagaland	0	0	0	0.00	0	35	0.10
Tripura	244	0	0	486.65	0	0	0.00
Arunachal Pradesh	0	0	0	0.00	0	0	0.00
Mizoram	0	0	0	0.00	0	7	0.10
Central Sector	723	0	0	2189.00	0	0	0.00
TOTAL (ALL INDIA)	12237	357926	1310320	61524.59	465439	93272	2558.90

KL: Kilo Litres MCM: Million Cubic Metres *: Provisional. GWH: Gigawatt Hour

A: Includes 204 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 2004-05*

State/Union Territories	Steam Stations						Gross Gene-ration (GWH)
	Coal (TMT)	Lignite (TMT)	Furnace Oil (KL)	HSD/ LDO (KL)	LSHS/ HHS (KL)	Gas (MT)	
1	2	3	4	5	6	7	8
NORTHERN REGION							
Haryana	5126	0	0	26348	0	0	6624.48
Himachal Pradesh	0	0	0	0	0	0	0
Jammu & Kashmir	0	0	0	0	0	0	0
Punjab	9444	0	12568	0	0	0	14384.4
Rajasthan	10936	0	12139	604	0	0	16793.04
Uttar Pradesh	15556	0	0	46099	0	0	19703.78
Uttaranchal	0	0	0	0	0	0	0
Chandigarh	0	0	0	0	0	0	0
Delhi	1420	0	0	9906	3126	0	1617.61
Central Sector	30461	0	1364	11251	0	0	46183.85
WESTERN REGION							
Gujarat	16687	2609	7185	72	574238	0	30122.16
Madhya Pradesh	11921	0	28634	7257	0	0	14351.15
Chhattisgarh	6302	0	10852	2153	0	0	7924.99
Maharashtra	35968	0	1015016	486	0	39012	55544.24
Goa	0	0	0	0	0	0	0
D. & N. Haveli	0	0	0	0	0	0	0
Daman & Diu	0	0	0	0	0	0	0
Central Sector	23245	0	4544	60	0	0	34870.38
SOUTHERN REGION							
Andhra Pradesh	15888	0	9559	2025	0	0	23359.7
Karnataka	7162	0	0	6849	0	1710347	12697.68
Kerala	0	0	0	0	0	0	0
Tamil Nadu	14467	1370	25720	1664	1534	0	21358.74
Lakshadweep	0	0	0	0	0	0	0
Pondicherry	0	0	0	0	0	0	0
Central Sector	15627	20751	10569	13792	1078	0	41593.9
EASTERN REGION							
Bihar	169	0	3132	0	0	0	153.49
Jharkhand	2932	0	0	36493	0	0	4019.55
Orissa	2640	0	0	2064	0	0	3165.42
West Bengal	16192	0	14698	33472	0	0	24394.89
D.V.C.	7664	0	0	46768	0	0	10585.37
A & N Islands	0	0	0	0	0	0	0
Sikkim	0	0	0	0	0	0	0
Central Sector	28775	0	37146	2389	0	0	34833.25
NORTH EASTERN REGION							
Assam	0	0	0	0	0	0	0
Manipur	0	0	0	0	0	0	0
Meghalaya	0	0	0	0	0	0	0
Nagaland	0	0	0	0	0	0	0
Tripura	0	0	0	0	0	0	0
Arunachal Pradesh	0	0	0	0	0	0	0
Mizoram	0	0	0	0	0	0	0
Central Sector	0	0	0	0	0	0	0
TOTAL (ALL INDIA)	**278582**	**24730**	**1193126**	**249752**	**579976**	**1710347 ** +39012**	**424282.07**

KL: Kilo Litres
GWH: Giga Watt Hour

TMT: Thousand Metric Tonnes
Source: Central Electricity Authority

**: Unit in Knm^3 - Corex gas.
*: Provisional.

VII.1 IMPORT/EXPORT OF CRUDE OIL AND PETROLEUM PRODUCTS : 1970 - 2005

(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	11665	102.36	970	30.53	12635	132.89
1975	13600	992.02	2291	199.46	15891	1191.48
1980	15976	3038.66	6800	1788.28	22776	4826.94
1985	14811	3808.74	4292	1440.70	19103	5249.44
1990	20793	5929.62	7454	3541.64	28247	9471.26
1995	26901	10856.71	17931	10251.01	44832	21107.72
1996	32812	17194.53	20764	15454.63	53576	32649.16
1997	33573	17061.19	19839	14131.47	53412	31192.66
1998	38479	15156.00	23572	12784.00	62051	27940.00
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
			EXPORTS			
1970	-	-	412	5.72	412	5.72
1975	-	-	166	13.83	166	13.83
1980	-	-	70	17.98	70	17.98
1985	2044	503.88	1695	482.06	3739	985.94
1990	-	-	2605	941.40	2605	941.40
1995	-	-	3318	1728.55	3318	1728.55
1996	-	-	3326	2050.49	3326	2050.49
1997	-	-	2833	1926.84	2833	1926.84
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
			NET IMPORTS			
1970	11665	102.36	558	24.81	12223	127.17
1975	13600	992.02	2125	185.63	15725	1177.65
1980	15976	3038.66	6730	1770.30	22706	4808.96
1985	12767	3304.86	2597	958.64	15364	4263.50
1990	20793	5929.62	4849	2600.24	25642	8529.86
1995	26901	10856.71	14613	8522.46	41514	19379.17
1996	32812	17194.53	17438	13404.14	50250	30598.67
1997	33573	17061.19	17006	12204.63	50579	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

: Provisional.

Source: IOC & PPAC.

VII.2 IMPORT/EXPORT OF CRUDE OIL AND PETROLEUM PRODUCTS
1970-71 TO 2005-06

(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
1996-97	33906	18538.19	20265	15633.49	54171	34171.68
1997-98	34494	15872.00	22970	14309.00	57464	30181.00
1998-99	39808	14917.00	23772	12276.00	63580	27193.00
1999-00	57805	40028.00	16608	14186.00	74413	54214.00
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	11677	25575.00	111086	197277.00
			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
1996-97	-	-	3162	2084.78	3162	2084.78
1997-98	-	-	2381	1266.00	2381	1266.00
1998-99	-	-	720	306.00	720	306.00
1999-00	-	-	746	698.00	746	698.00
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*	-	-	21505	46785.00	21505	46785.00
			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
1996-97	33906	18538.19	17103	13548.71	51009	32086.90
1997-98	34494	15872.00	20589	13043.00	55083	28915.00
1998-99	39808	14917.00	23052	11970.00	62860	26887.00
1999-00	57805	40028.00	15862	13488.00	73667	53516.00
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	-9828	-21210.00	89581	150492.00

*: Provisional.

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

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

ITEM	2002		2003		2004		2005*	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7	8	9
GROSS IMPORTS								
A. Crude Oil	**81907**	**69522**	**87027**	**81161**	**95310**	**108774**	**96270**	**153217**
B. Pol.Products								
I.Light Distillates	**3570**	**4399**	**4172**	**5661**	**5212**	**9107**	**6580**	**14305**
1. LPG	672	990	1673	2678	2408	4402	2838	6019
2.MS	0	0	0	0	0	0	637	1623
3. Naphtha	2898	3409	2173	2563	2245	3800	2549	5598
4.Propane	0	0	326	420	559	905	536	1064
II.Middle Distillates	**664**	**689**	**1000**	**1141**	**196**	**305**	**2441**	**5560**
1.ATF	2	9	2	8	2	13	3	15
2.SKO	604	606	926	1049	0	0	976	2320
3.HSD	25	26	72	84	194	292	1462	3226
4.Others	33	48	0	0	0	0		
III.Heavy Ends	**2806**	**2567**	**2202**	**2301**	**2306**	**2650**	**2246**	**3439**
1.FO / LSHS	1370	1122	876	766	751	673	718	878
2.Lubes / Others[HEI]	1436	1445	1326	1535	1555	1977	1528	2561
TOTAL(B)	**7040**	**7655**	**7374**	**9103**	**7714**	**12062**	**11247**	**23304**
GRAND TOTAL(A+B)	**88947**	**77177**	**94401**	**90264**	**103024**	**120836**	**107517**	**176521**
EXPORTS								
Pol.Products								
I.Light Distillates	**5052**	**5522**	**5126**	**6527**	**5874**	**10205**	**6433**	**14452**
1.Naphtha	2571	2602	1967	2316	2658	4394	4083	9160
2.MS	2409	2810	2906	3853	2858	5211	2185	4912
3.TAME	72	110	122	177	0	0	10	25
4.Reformate	0	0	131	181	358	600	155	355
5.LPG							105	212
II.Middle Distillates	**2972**	**2861**	**7468**	**8299**	**9132**	**13816**	**10172**	**21968**
1.HSD	2552	2481	5790	6308	6943	10220	7559	15784
2.ATF	420	380	1678	1991	2189	3596	2612	6184
3.SKO							88	262
III.Heavy Ends	**2031**	**860**	**1321**	**965**	**1859**	**1590**	**2539**	**3190**
1.FO/LSHS	1075	800	1124	831	1717	1403	1816	1892
2.Others[HEE]	956	60	197	134	142	187	723	1298
TOTAL	**10055**	**9243**	**13915**	**15791**	**16865**	**25611**	**19143**	**39610**
NET IMPORTS								
A. Crude Oil	**81907**	**69522**	**87027**	**81161**	**95310**	**108774**	**96270**	**153217**
B. Pol.Products	**-3015**	**-1588**	**-6541**	**-6688**	**-9151**	**-13549**	**-7896**	**-16306**
GRAND TOTAL	**78892**	**67934**	**80486**	**74473**	**86159**	**95225**	**88374**	**136911**

Source: Petroleum Planning & Analysis Cell, New Delhi.

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.

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

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

ITEM	2002-03		2003-04		2004-05		2005-06*	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7	8	9
GROSS IMPORTS								
A. Crude Oil	**81989**	**76195**	**90434**	**83528**	**95861**	**117003**	**99409**	**171702**
B. Petroleum Products								
I.Light Distillates	**3857**	**5418**	**4529**	**6034**	**5391**	**9973**	**6074**	**14514**
1. LPG	1073	1867	1708	2558	2334	4413	2719	6579
2. MS	0	0	0	0	233	501	485	1283
3. Naphtha	2784	3551	2371	2884	2214	4029	2473	5735
4. Propane/MTBE	0	0	450	592	610	1030	397	917
II.Middle Distillates	**806**	**934**	**906**	**1015**	**1028**	**2047**	**1615**	**3948**
1.ATF	2	7	2	9	3	14	2	11
2.SKO	698	808	804	890	211	429	881	2214
3.HSD	106	119	100	116	814	1604	732	1723
III.Heavy Ends	**2565**	**2495**	**2566**	**2674**	**2409**	**2867**	**3988**	**7113**
1.FO / LSHS	1256	1084	953	1110	741	692	789	1099
2.Lubes / Others[HEI]	1309	1411	1613	1864	1668	2175	3199	6014
Total(B)	**7228**	**8847**	**8001**	**9723**	**8828**	**14887**	**11677**	**25575**
Grand Total(A+B)	**89217**	**85042**	**98435**	**93251**	**104689**	**131890**	**111086**	**197277**
EXPORTS								
Petroleum Products								
I.Light Distillates	**4493**	**5475**	**5448**	**7100**	**6288**	**11513**	**7565**	**17102**
1.LPG	0	0	0	0	145	307	53	164
2.MS	2336	3011	2979	4021	2897	5625	2273	5579
3.Naphtha	2067	2325	2176	2653	2925	5030	4996	10744
4.TAME	90	139	83	117	0	0	10	25
5.Reformate	0	0	210	309	321	551	233	590
II.Middle Distillates	**3875**	**4337**	**7841**	**8713**	**9973**	**16689**	**11366**	**26152**
1.SKO	0	0	0	0	207	460	121	371
2.HSD/LDO	3178	3547	6181	6763	7286	11782	8464	18798
3.ATF	697	790	1660	1950	2480	4447	2781	6983
III.Heavy Ends	**1921**	**1056**	**1331**	**968**	**1950**	**1726**	**2574**	**3531**
1.FO/LSHS	1120	902	1310	928	1792	1517	1800	2244
2.VGO/Lubes	101	109	17	36	102	137	700	1203
3.Coke/Bitumen/ White Oil/Paraffin	700	45	4	4	56	71	74	84
Total	**10289**	**10868**	**14620**	**16781**	**18211**	**29928**	**21505**	**46785**
NET IMPORTS								
A. Crude Oil	**81989**	**76195**	**90434**	**83528**	**95861**	**117003**	**99409**	**171702**
B. Pol.Products	**-3061**	**-2021**	**-6619**	**-7058**	**-9383**	**-15041**	**-9828**	**-21210**
Grand Total	**78928**	**74174**	**83815**	**76470**	**86478**	**101962**	**89581**	**150492**

TAME: Tertiary Amyl Methyl Ether. *: Provisional.

HEI: Includes Bitumen, Lube Oil Base Stock, Low Sulphur Waxy Residue, Carbon Black Feed Stock, Rubber Processing Oil and Paraffi

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*	456118	660409	-204291	21.5	31.8	67398	48761	18637	13.6	8.3	14.8	7.4

*Provisional.

Source: (i) Ministry of Commerce (ii) Economic Survey 2005-06(Appendix Tables:51&52)

VII.6 INDIA'S FOREIGN EXCHANGE RESERVES (1970-71 TO 2005-06)

Year	S.D.R. Million	GOLD* (Rs.Crores)	Foreign Exchange (Rs.Crores)
1	2	3	4
1970-71	148.9	182.53	438.12
1975-76	202.8	182.53	1491.70
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	676387.00

Source: Economic Survey/Ministry of Finance(Appendix table-57). **Provisional

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

VII.7 INDIA'S POL IMPORTS AS A PROPORTION TO OVERALL EXPORTS FROM THE COUNTRY 1970-71 TO 2005-06

(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
1990-91	10779	9775	32558	31554	33.1	31.0
1991-92	13038	11824	44041	42826	29.6	27.6
1992-93	17046	15439	53688	52062	31.8	29.7
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	101962	375340	343936	35.1	29.6
2005-06*	197277	150492	454800	403821	43.4	37.3

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	2001	2002	2003	2004	2005	2006*
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
1. Exploration & Production	57633	50942	50049	49540	48237	44943	41415	39694
2. Refining	23031	27019	27178	25322	26451	25640	26859	30262
3. Marketing	34270	41110	40852	41865	40561	40232	40628	43317
4. Pipelines	3619	4180	4196	4094	4092	3829	7318	7816
5. R&D	2953	2858	2723	2797	2330	2278	2096	2071
6. Others	14929	13293	9990	9992	8256	9780	15055	15151
Grand Total	**136435**	**139402**	**134988**	**133610**	**129927**	**126702**	**133371**	**138311**

*: Provisional.

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

(As on 31st March)

(Number)

CATEGORY	1995	2000	2001	2002	2003	2004	2005	2006*
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
1. Executive/Managerial	40282	43971	44804	45385	45301	45109	45319	45727
2. Supervisory	9245	12551	11807	13138	12610	12348	10780	11232
3. Clerical	16934	13627	14127	13014	12263	11559	11249	10807
4. Workman	64722	60292	57693	54860	52200	50013	48197	45810
5. TOTAL	**131183**	**130441**	**128431**	**126397**	**122374**	**119029**	**115545**	**113576**
6. Expatriates/ Foreign Experts/ on Contract	5252	8961	6557	7213	7553	7673	17826	24735
GRAND TOTAL	**136435**	**139402**	**134988**	**133610**	**129927**	**126702**	**133371**	**138311**

*: Provisional.

VIII.3 CATEGORY-WISE MANPOWER EMPLOYED IN VARIOUS SECTORS OF PETROLEUM INDUSTRY IN INDIA
(As on 31st March)

(Number)

CATEGORY	1995	2000	2001	2002	2003	2004	2005	2006*
1	2	3	4	5	6	7	8	9
EXPLORATION AND PRODUCTION								
1. Executive/Managerial	17555	17867	18560	19461	19605	19270	18571	18432
2. Supervisory	4279	5824	5087	6601	6349	6055	4523	4778
3. Clerical	4532	3797	3971	3278	3068	2351	2176	1984
4. Workman	30295	23133	22431	20200	19215	17240	16138	14486
5. TOTAL	**56661**	**50621**	**50049**	**49540**	**48237**	**44916**	**41408**	**39680**
6. Expatriates/ Foreign Experts/ on Contract	972	321	0	0	0	27	7	14
GRAND TOTAL	**57633**	**50942**	**50049**	**49540**	**48237**	**44943**	**41415**	**39694**
PETROLEUM REFINING								
1. Executive/Managerial	4271	5175	5534	5556	5977	5899	6200	6296
2. Supervisory	1195	1928	2740	2589	2586	2616	2716	2809
3. Clerical	2479	1886	2748	2587	2521	2371	2293	2268
4. Workman	11893	13652	13017	12338	12266	11847	11445	11345
5. TOTAL	**19838**	**22641**	**24039**	**23070**	**23350**	**22733**	**22654**	**22718**
6. Expatriates/ Foreign Experts/ on Contract	3193	4378	3139	2252	3101	2907	4205	7544
GRAND TOTAL	**23031**	**27019**	**27178**	**25322**	**26451**	**25640**	**26859**	**30262**
MARKETING								
1. Executive/Managerial	8678	10924	11619	11649	11598	11747	11799	11365
2. Supervisory	2314	2605	2188	2274	2320	2334	2419	2422
3. Clerical	5566	5910	5726	5434	5245	5133	4831	4400
4. Workman	17291	18125	18010	17956	17152	16725	15658	15148
5. TOTAL	**33849**	**37564**	**37543**	**37313**	**36315**	**35939**	**34707**	**33335**
6. Expatriates/ Foreign Experts/ on Contract	421	3546	3309	4552	4246	4293	5921	9982
GRAND TOTAL	**34270**	**41110**	**40852**	**41865**	**40561**	**40232**	**40628**	**43317**

*: Provisional.

IX. PRICES

IX.1 WHOLESALE PRICE INDICES OF SELECTED PETROLEUM PRODUCTS

(1993-94 =100)

Products	Weight(%)	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06*
1	2	3	4	5	6	7	8
Light Distillates							
LPG	1.83731	248.2	266.6	284.0	285.5	316.0	334.8
Petrol	0.88815	154.2	158.1	163.4	178.7	203.5	231.1
Naphtha	0.41885	294.7	265.6	256.5	315.6	432.1	530.4
Middle Distillates							
Kerosene	0.68928	270.2	304.0	359.7	359.2	357.9	357.6
Aviation Turbine Fuel	0.16953	144.2	152.1	135.7	149.3	174.1	228.7
High Speed Diesel Oil	2.02034	228.8	252.3	273.5	300.4	360.4	430.4
Light Diesel Oil	0.16015	232.2	243.8	233.0	284.6	366.3	445.3
Heavy Ends							
Furnace Oil	0.49335	203.5	187.5	179.7	227.2	265.5	347.4
Lubricating Oil	0.16367	142.6	147.6	154.7	163.8	189.3	194.5
Bitumen	0.14900	203.5	214.2	207.6	251.2	267.4	288.0
All commodities	**100.00000**	**155.7**	**161.3**	**166.8**	**175.9**	**187.3**	**195.6**

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

IX.2(a) 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.

1.4.1998 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 1999 Effective June 1999, royalty is being paid based on the revised formula. The methodology for arriving at the well head-value is as under:

i) Royalty amount may be deducted from the selling price after applying 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.

1.4.2002 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 of ONGC for 2005-06 are given below:

	Unit	Basic Price	Royalty	Cess	Sales Tax
Offshore crude	Rs./MT	11810.62	1259.23	1944.99	562.96
Onshore crude	Rs./MT	7372.29	2817.62	1954.07	490.18
Offshore and Onshore crude	Rs./MT	10174.42	1833.74	1948.34	536.13

Note: 1. The above prices exclude octroi and BPT charges, which is Rs.148.99 and Rs.29.58 per MT respectively, applicable in case of offshore crude only.

2. Cess includes NCCD of Rs.50/MT and education cess of Rs.37/MT.

3. Royalty on onshore crude are based on pre discount crude prices.

4. The above prices are net after considering subsidy discount on crude oil to refineries during 2005-06.

5. The above figures are provisional and before completion of audit of accounts.

Source: Petroleum Planning & Analysis Cell.

IX.2(b) 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

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. 01.10.1997 gas price along HVJ pipeline includes Rs.1150 per 1000 SCM towards transportation charges. The transportation charges along HVJ pipeline are being increased by 1% for every 10% increase in CPI and are linked to the calorific value of 8500 K.Cal/SCM.
3. ** Actual producer price of OIL & ONGC for sales in North-Eastern Region is Rs.1700/MCM at 10000 Kcal/SCM. However, as per Gas Pricing Order dt. 18th September 1997, for concessional price in the North-East, OIL is to be compensated from the Gas Pool Account, at a producer price of Rs.1900/MCM. The producer price of OIL increases by 1% for every 10% increase in CPI.
4. The discount of Rs.400 per 1000 SCM was applicable in case of gas price for North - Eastern States upto 30.09.1997 and at Rs. 300 per 1000 SCM w.e.f. 01.10.1997 for 5 years. ONGC had withdrawn this discount from Tripura w.e.f. 1.4.2002 and from Assam w.e.f. October 2002.
5. Other than HVJ pipeline, GAIL/transporters are permitted to negotiate transportation charges with the consumers.
6. W.e.f. 1.7.2005, the price of natural gas has been revised for Power, Fertiliser Sector, small consumers having allocation upto 0.05 MMSCMD and consumers drawing gas under Supreme Court Orders vide pricing order dated 20.6.2005. The revised price is Rs.3200/MCM.

Source: Petroleum Planning & Analysis Cell.

IX.3 PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS IN MAJOR CITIES AS ON 1.4.2006

	DELHI	KOLKATA	MUMBAI	CHENNAI
Liquefied Petroleum Gas (Domestic) (Rs./14.2 Kg Cyl)				
Basic price	233.85	233.85	233.85	233.85
State surcharge	0.03	3.86	4.08	7.01
Freight upto bottling plant	1.42	2.27	0.00	0.00
Total Price adj factor	21.43	22.27	21.88	10.16
Assessable value	**256.72**	**262.25**	**259.80**	**251.02**
Price at bottling plant	**256.72**	**262.25**	**259.80**	**251.02**
Freight / local delivery charges	10.00	10.00	10.00	10.00
Price including octroi	**266.72**	**272.25**	**269.80**	**261.02**
Central sales tax / sales tax	10.67	10.89	10.79	10.44
Turn Over Tax (TOT)	0.00	0.00	0.00	0.00
Billable rate	**277.39**	**283.14**	**280.59**	**271.46**
Price to dealer (14.2kg/cyl)	277.39	283.14	280.59	271.46
Distributor commission	16.71	16.71	16.71	16.71
Vat on Distributor Commission	0.67	0.67	0.67	0.00
Price after Distributor Commission	294.77	300.51	297.97	288.17
RSP for 14.2kg/cyl	294.77	300.51	297.97	288.17
RSP/cyl	294.75	300.50	297.95	288.15
Motor Spirit (Rs./Kl)				
Actual Ex-storage point price	20281.29	20281.29	20281.29	20281.29
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. 1.4.05	5.53	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 (1.3.2005)	0.00	46.50	(111.68)	(248.65)
Assessable value	**20423.14**	**21003.02**	**21344.97**	**20868.00**
Excise Duty Amount	1633.85	1680.24	1707.60	1669.44
Basic Excise Duty	8000.00	8000.00	8000.00	8000.00
Sub Total	**30056.99**	**30683.26**	**31052.57**	**30537.44**
FDZ charges	44.00	44.00	44.00	44.00
AED + ASED	5000.00	5000.00	5000.00	5000.00
EDN Cess	292.68	293.60	294.15	293.39
Sub Total	**35393.67**	**36020.87**	**36390.72**	**35874.83**
Delivery charges beyond FDZ	0.00	13.44	0.00	0.00
RPO Price	35393.67	36034.31	36390.72	35874.83
Sales Tax	7248.33	9008.58	10917.22	10762.45
Surcharge on ST	0.00	0.00	1000.00	0.00
Cess Advalorem	0.00	1000.00	0.00	0.00
Dealer Commission	848.00	848.00	848.00	848.00
Selling Price Rs./Kl	**43490.00**	**46890.89**	**49155.94**	**47485.28**
Selling Price Rs./Ltr	**43.49**	**46.90**	**49.16**	**47.49**

Cont'd....

IX.3 PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS IN MAJOR CITIES AS ON 1.4.2006

	DELHI	KOLKATA	MUMBAI	CHENNAI
High Speed Diesel (Rs./Kl)				
Desired Ex-storage point price (ESPP)	25220.80	25220.80	25220.80	25220.80
Add under realisation	(4304.29)	(4304.29)	(4304.29)	(4304.29)
Grade Differential	400.00	400.00	400.00	400.00
Actual ESPP	21316.50	21316.50	21316.50	21316.50
State surcharge	2.00	300.00	137.00	120.00
BMC surcharge	0.00	0.00	299.00	0.00
Siding charge	6.01	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
Assessable value	**21448.46**	**21659.70**	**21773.77**	**21457.77**
Excise Duty	1715.88	1732.78	1741.90	1716.62
Sub Total	**23164.34**	**23392.48**	**23515.67**	**23174.39**
FDZ charges	44.00	44.00	44.00	44.00
Spl. Excise Duty	2000.00	2000.00	2000.00	2000.00
Addl SED	1250.00	1250.00	1250.00	1250.00
Edn Cess	99.32	99.66	99.84	99.33
Sub Total	**26557.66**	**26786.13**	**26909.51**	**26567.73**
Delivery charges beyond FDZ	0.00	13.44	0.00	0.00
RPO Price	26557.66	26799.57	26909.51	26567.73
Sales Tax	3383.33	4555.93	9149.23	6641.93
Surcharge on ST	0.00	0.00	1000.00	0.00
Cess - Advalorem	0.00	1000.00	0.00	0.00
Dealer Commission	509.00	509.00	509.00	509.00
Selling Price Rs./Kl	**30449.99**	**32864.50**	**37567.75**	**33718.66**
Selling Price Rs./Ltr	**30.45**	**32.87**	**37.57**	**33.72**
Superior Kerosene Oil(Rs./Kl)				
Ex-storage point price	7967.00	7967.00	7967.00	7967.00
State specific cost	0.00	62.00	66.00	113.00
Freight-R	58.63	19.37	0.00	0.00
Assessable value	**8025.63**	**8048.37**	**8033.00**	**8080.00**
Shrinkage (Depot)	0.00	0.00	0.00	(576.00)
Ex-Mi Price	**8025.63**	**8048.37**	**8033.00**	**7504.00**
Value before ST	**8025.63**	**8048.37**	**8033.00**	**7504.00**
Sales Tax	321.03	321.93	348.08	300.16
Sub Total - Rs/Kl	**8346.66**	**8370.30**	**8381.08**	**7804.16**
Wholesaler Commission	204.00	204.00	204.00	143.00
Wholesaler Transportation	284.25	203.30	243.00	52.25
Retailers Margin	180.00	176.45	181.00	360.00
Handling Charges	0.00	130.00	38.50	0.00
Retail Transportation	0.00	205.18	0.00	30.00
Rounding off	35.10	0.00	2.42	0.00
Selling Price Rs./Kl	**9050.01**	**9289.23**	**9050.00**	**8389.41**
Selling Price Rs./Ltr	**9.05**	**9.30**	**9.05**	**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 1.4.2006

	DELHI	KOLKATA	MUMBAI	CHENNAI
ATF (Domestic Airlines)				
Basic price	25370.00	26020.00	25500.00	25820.00
Inland differential	570.00	0.00	0.00	0.00
State surcharge	2.00	1020.00	430.00	1032.00
Freight	315.05	303.85	100.00	130.48
Siding charges	9.85	0.00	0.00	0.00
Marketing cost	1150.00	2400.00	1050.00	950.00
MSL cost	186.00	186.00	186.00	186.00
Assessable value	**27602.90**	**29929.85**	**27266.00**	**28118.48**
Excise Duty	2208.23	2394.39	2181.28	2249.48
Education Cess @2% on ED	44.16	47.89	43.63	44.99
Toll Tax	0.00	0.00	0.00	0.00
Posted airfield price per KL	**29855.30**	**32372.13**	**29490.91**	**30412.95**
(exclusive of sales tax and other levies)				
Furnace Oil (Rs./Kl)				
Ex-storage point price		18260.00	17700.00	18080.00
State surcharge		105.00	191.60	375.00
Notional railway freight		160.00	0.00	5.03
Assessable value		18525.00	17891.60	18460.03
Excise duty + edu cess		3023.28	2919.91	3012.68
Total inclusive of excise duty + edu cess		**21548.28**	**20811.51**	**21467.68**
Sales tax		2693.54	2601.44	3434.83
Additional tax on sales tax		0.00	0.00	171.74
Total		**24241.82**	**23412.95**	**25074.25**
Light Diesel Oil (Rs./Kl)				
Ex-storage point price	20480.00	20480.00	20480.00	20480.00
State surcharge	25.00	370.00	121.28	455.00
Notional railway freight	245.86	340.00	0.00	0.00
Assessable value	**20750.86**	**21190.00**	**20601.28**	**20935.00**
Excise duty + edu cess	3386.54	3458.21	3362.13	3416.59
Additional levy alongwith cess	2550.00	2550.00	2550.00	2550.00
Total inclusive of excise duty + edu cess	**26687.40**	**27198.21**	**26513.41**	**26901.59**
Sales tax	3335.93	4623.70	3314.18	6725.40
Total	**30023.33**	**31821.91**	**29827.59**	**33626.99**

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
01.04.1991	13.72	12.53	12.23	13.81	12.73
01.04.1992	16.71	15.48	14.62	17.17	15.19
01.04.1993	17.91	16.59	15.71	18.74	16.35
01.03.1994	19.11	17.70	16.78	19.98	17.45
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.
		High Speed Diesel Oil (Rs./Litre)			
01.01.1975	1.06	1.10	1.11	1.15	1.15
08.06.1980	2.21	2.25	2.28	2.24	2.34
17.03.1985	3.52	3.35	3.47	3.60	3.70
26.03.1985	3.45	3.48	3.39	3.52	3.60
01.04.1990	4.30	4.20	4.08	4.36	4.44
01.04.1991	5.62	5.20	5.05	5.42	5.42
01.04.1992	5.68	5.31	5.05	5.72	5.42
01.04.1993	6.88	6.43	6.17	6.91	6.54
01.03.1994	7.78	7.27	6.98	7.80	7.38
08.04.1995	7.84	7.25	6.99	7.80	7.69
01.04.1996	7.84	7.24	6.99	7.80	7.68
01.04.1997	9.00	8.32	8.02	8.86	8.65
01.04.1998	11.43	10.55	10.25	11.30	10.85
01.04.1999	11.84	10.18	10.03	10.91	10.92
01.04.2000	16.91	14.20	14.56	15.24	15.17
01.04.2001	20.07	16.92	17.06	18.01	18.16
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.

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
01.04.1991	2.66	2.90	2.77	2.95	3.04
01.04.1992	2.44	2.70	2.52	2.80	2.78
01.04.1993	2.44	2.75	2.54	2.80	2.78
01.03.1994	2.53	2.80	2.58	2.80	2.78
08.04.1995	2.55	2.80	2.57	2.80	2.85
01.04.1996	2.55	2.80	2.58	2.80	2.85
01.04.1997	2.55	2.80	2.58	2.80	2.80
01.04.1998	2.55	3.05	2.56	2.80	2.79
01.04.1999	2.63	3.01	2.51	2.76	2.75
01.04.2000	5.37	5.84	5.55	5.64	5.95
01.04.2001	7.57	7.76	7.35	7.00	7.90
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.
			Liquefied Petroleum Gas (Rs./Cylinder)		
	14.2 Kg Cyl	15 Kg Cyl	15 Kg Cyl	15 Kg Cyl	15 Kg Cyl
01.01.1975	22.10	27.79	27.36	23.91	27.61
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
01.04.1991	56.15	63.20	57.61	57.44	60.64
01.04.1992	66.81	77.20	67.90	71.06	71.43
01.04.1993	81.54	93.81	82.57	86.58	87.01
01.03.1994	91.94	105.52	93.07	97.55	98.00
10.04.1995	91.94	105.27	93.28	97.55	98.37
01.04.1996	94.40	107.00	93.08	98.05	98.90
01.04.1997	118.60	136.65	119.95	124.10	126.25
01.04.1998	137.85	158.55	136.00	145.05	144.38
01.04.1999	147.85	170.00	146.00	155.35	154.95
01.04.2000	199.00	217.20	196.55	202.40	204.50
01.04.2001	225.20	245.65	222.25	228.65	231.20
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.

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

Effective date	Annual volume of sale (KL)							
	0-360		361-600		601-1080		over 1080	
	MS	HSD	MS	HSD	MS	HSD	MS	HSD
	(Rs./KL)							
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
	(Rs./Kl)		(Rs./Kl)	
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

	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

#: 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.

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	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06*
	<----------ACTUALS---------->							
1	2	3	4	5	6	7	8	9
A. EXCISE DUTIES								
1. Motor Spirit	1202	5018	5426	8501	11563	12575	13792	17554
2. Kerosene Oil	255	249	725	699	1390	1700	1273	212
3. Refined Diesel Oil	693	6769	8147	11028	10570	13470	14455	21773
4. Diesel Oil (NES)	35	1233	1104	1179	1038	992	1246	505
5. Furnace Oil	49	616	981	779	971	822	996	1756
6. Pol. Products (NOS	421	2715	3378	2878	3483	2906	3711	319
7. Petroleum Gases	66	359	1296	1542	2445	2552	2424	4623
8. Cess on crude oil	2757	3243	3606	2731	4501	5134	5248	5007
Total (A)	**5478**	**20202**	**24663**	**29337**	**35961**	**40151**	**43145**	**51749**
B. CUSTOM DUTIES								
1. Crude Petroleum	3145	6257	7794	4818	6820	7491	9761	7158
2. Petroleum Product	920	6203	3455	1949	2346	3091	3489	4236
Total (B)	**4065**	**12460**	**11249**	**6767**	**9166**	**10582**	**13250**	**11394**
Grand Total (A+B)	**9543**	**32662**	**35912**	**36104**	**45127**	**50733**	**56395**	**63143**

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(P)	2501067	99125	43145	4.0	1.7	43.5
2005-06(Q)	2846762	111226	51749	3.9	1.8	46.5

Source : Economic Survey and Budget Papers of Central Government.

P: Provisional. Q: Quick estimates

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

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./MT)
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	111561	43145	13250	56395	5055.08
2005-06*	111937	51749	11394	63143	5640.94

*: Provisional

X.4 ROYALTY AND OIL DEVELOPMENT CESS PAID BY OIL COMPANIES ON PRODUCTION OF CRUDE OIL AND NATURAL GAS DURING 1975-76 TO 2005-06

(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
1991-92	17723	19385	964	38072	52885	90957	1910	428	216	18859	21418	250077
1992-93	47037	31250	2674	80961	126901	207862	2391	520	720	17229	20860	219198
1993-94	30672	24704	2086	57462	69683	127145	2912	547	862	19585	23906	217538
1994-95	32041	25660	2245	59946	96157	156103	2975	422	854	18154	22405	264559
1995-96	32716	25239	2182	60137	103576	163713	3753	457	956	21952	27118	277735
1996-97	34897	26305	2400	63602	105549	169151	3661	403	1262	22004	27330	266747
1997-98	34210	27951	2531	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

*:Provisional.

X.5 SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS IN DIFFERENT STATES AS ON 1.4.2006

(%)

S. No.	Products	Andhra Pradesh	Arunachal Pradesh	Assam	Bihar	Goa	Gujarat	Haryana
1	2	3	4	5	6	7	8	9
A. Crude Oil & Gas								
1.	Crude Oil	4	4	4	4	4	4	4
2.	Natural Gas	12.5	20	20	20	12.5	20	12.5
3.	CNG	16		12		8	4	10
B. PETROLEUM PRODUCTS								
4.	MS	34	20	27.5	27	25	26	20
5.	HSD	23	12.5	16.5	22	23	24	12
6.	ATF Bonded	34		22		20	38	
	ATF Duty Paid				29	20	30	20
7.	AV.Spirit Bonded			22	12.5		26	
	AV.Spirit Duty Paid	34			12.5	20	13	20
8.	LDO	23		16.5	20	20	12.5	12
9.	Kerosene (House Hold)	4	4	4	12.5	4	4	
	Kerosene/IKO							12.5
	Others	12.5	12.5	12.5	12.5	12.5	25	
10.	Furnace Oil	12.5		12.5	12.5	12.5	12.5	12.5
11.	Lube	12.5	12.5	12.5	12.5	12.5	15	12.5
12.	Greases	12.5	12.5	12.5	12.5	12.5	15	12.5
13.	LPG (House Hold)						12.5	
	LPG	12.5	12.5	9	12.5	12.5		12.5
	Others			9		12.5	12.5	
14.	Naphtha/Pet. Naphtha	12.5		12.5	12.5	20	16	12.5
15.	Asphalt/Bitumen	4		22	12.5	4	12.5	12.5
16.	MLO	12.5		12.5	12.5	12.5	12.5	12.5
17.	HBF/Brake Fluid Oil	12.5		12.5	12.5	12.5	12.5	12.5
18.	LSHS	12.5		12.5	12.5	12.5	12.5	12.5
19.	M.T.O.	12.5		12.5	12.5	12.5	12.5	12.5
20.	Pet. Coke(Declared Goods)	4	4	4	4	4	4	4
21.	Transformer Oil	12.5		12.5	12.5	12.5	12.5	12.5

In addition to the sales tax payable, the following tax are also payable / recoverable as on 1.4.2006:

Gujarat: Additional Tax: @20% on tax on (MST products) i.e. MS, HSD, Av. Spirit, Av. Gas, ATF.

And 10% on GST products. This is recoverable from the customers.

Turnover Tax: @2% on taxable turnover on MST products excluding exempted sales.

This is not recoverable from customers.

Cont'd...

X.5 SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS IN DIFFERENT STATES AS ON 1.4.2006

(%)

S. No.	Products	Himachal Pradesh	Jammu & Kashmir	Karna-taka	Kerala	Madhya Pradesh	Maha-rashtra	Manipur
		10	*11*	*12*	*13*	*14*	*15*	*16*
A. Crude Oil & Gas								
1.	Crude Oil	4		4		4	4	4
2.	Natural Gas	12.5	20	12.5	12.5	12.5	12.5	
3.	CNG	8	20	12	28	8	13	
B. PETROLEUM PRODUCTS								
4.	MS	25	20	28	26.04	28.75	30&29$	20
5.	HSD	14	12	20	22.42	28.75	31&34$	12.5
6.	ATF Bonded	25	20				30	
	ATF Duty Paid	25	20	28	25	28.75	25	20
7.	AV.Spirit Bonded	25	20					
	AV.Spirit Duty Paid	25	20	28	41	28.75	10	20
8.	LDO	14	12.5	20	41	12.5	0	12.5
9.	Kerosene (House Hold)						4	4
	Kerosene/IKO		4	4	4	4		
	Others	12.5	4	12.5	12.5	12.5	12.5	12.5
10.	Furnace Oil	12.5	12.5	12.5	12.5	12.5	12.5	
11.	Lube	12.5	12.5	12.5	12.5	12.5	12.5	12.5
12.	Greases	12.5	12.5	12.5	12.5	12.5	13	12.5
13.	LPG (House Hold)					4	8	
	LPG	12.5	12.5	12.5	12.5	12	12.5	12.5
	Others				12.5		12.5	
14.	Naphtha/Pet. Naphtha	12.5	12.5	12.5	12.5	12.5	12.5	12.5
15.	Asphalt/Bitumen	4	4	4	12.5	12.5	12.5	4
16.	MLO	12.5	12.5	12.5	12.5	12.5	12.5	12.5
17.	HBF/Brake Fluid Oil	12.5	12.5	12.5	12.5	12.5	12.5	12.5
18.	LSHS	12.5	12.5	12.5	12.5	12.5	12.5	12.5
19.	M.T.O.	12.5	12.5	12.5	12.5	12.5	12.5	12.5
20.	Pet. Coke(Declared Goods)	0		4		4	4	4
21.	Transformer Oil	12.5	12.5	12.5	12.5	12.5	12.5	12.5

In addition to the above, the following other levies are also payable as perthe provisions of the respective states as stated:

Jammu & Kashmir: Surcharge @5% of sales tax is payable only on ATF-which continues to be under GST Act. .

This is recoverable from the customers.

$ Maharashtra-(a)MS rate of VAT for sales within Municipal limits of Mumbai, Thane& Navi Mumbai is 30% plus s/charge @ Rs. 1/- per litre and other areas 29% plus @ Rs. 1/- litre.

(b) HSD rate of Mumbai is 34% plus s/charge @ Rs. 1/- litre and other areas 31% plus s/c @ Rs. 1/- litre

Wherever rate are not provided, same are left blank.

Cont'd...

X.5 SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS IN DIFFERENT STATES AS ON 1.4.2006

(%)

S. No.	Products	Pondi-chery	Delhi	Naga-land	Orissa	Punjab	Rajasthan	Tamil Nadu	Chhattis-garh
		17	18	19	20	21	22	23	24
A. Crude Oil & Gas									
1.	Crude Oil		4	4	12.5		4	4	4
2.	Natural Gas		20	12			12.5	16	12.5
3.	CNG		8	12			12	8	8
B. PETROLEUM PRODUCTS									
4.	MS	12	20	20	20	27.5	28	30	25
5.	HSD	12	12.5	12	20	8.8	20	25	25
6.	ATF Bonded		20	0		20	0		
	ATF Duty Paid	12	20	20	20	20	20	29	28.75
7.	AV.Spirit Bonded		20			20			
	AV.Spirit Duty Paid	12	20		12.5	20	20	29	28.75
8.	LDO	12	20	12	20	8.8	20	25	12.5
9.	Kerosene (House Hold)				4	4	4	4	4
	Kerosene/IKO	EXPMT.	4						
	Others		12.5	15	12.5	12.5	12.5	25	12.5
10.	Furnace Oil	12	20	12	12.5	12.5	12.5	16	4
11.	Lube	12	20	12	12.5	12.5	12.5	16	12.5
12.	Greases	12	20		12.5	12.5	12.5	16	12.5
13.	LPG (House Hold)								12.5
	LPG	1	12.5	12	12.5	12.5	12.5	8	12.5
	Others		12.5		12.5				
14.	Naphtha/Pet. Naphtha	12	20	12	12.5	12.5	12.5	16	4
15.	Asphalt/Bitumen		4	12	4	4	4	12	12.5
16.	MLO		20	12	12.5	12.5	12.5	16	12.5
17.	HBF/Brake Fluid Oil		20		12.5	12.5	12.5	11	12.5
18.	LSHS	12	20		12.5	12.5	12.5	16	12.5
19.	M.T.O.		20		12.5	12.5	12.5	16	12.5
20.	Pet. Coke(Declared Goods)		4		12.5		4	4	4
21.	Transformer Oil		12.5	12	12.5		12.5	16	12.5

In addition to the above, the following other levies are also payable as perthe provisions of the respective states as stated:

Tamil Nadu: (i) 5%surcharge on sales Tax(Other than Kerosene(PDS/NONPDS) and LPG,ATF,ATF(Turbo),AV Gas, HF HSD, JP-4/JP-5,CNG, Natural Gas.LDO,LSHS,HSD,MS/Petrol declared goods This is recoverable from the customers.

(ii) Turnover Tax @ 3%

(III) Additional Tax:At the following rate is payable on the Taxable Turnover. This is not recoverable from the customers

ON TAXABLE TURNOVER

Below Rs. 10 lacs	- Nil
Between Rs. 10 to 40 lacs	- 1.25%
Between Rs. 40 lacs to 1 crs.	– 1.50%
Between Rs. 1 crs. to 5 crs.	– 2.00%
Between Rs. 5 crs. to 10 crs.	– 2.25%
Between Rs. 10 crs. to 300 crs.	– 2.50%
Above Rs. 300 crs.	– 3.00%

Cont'd...

X.5 SALES TAX RATES APPLICABLE ON CRUDE OIL, NATURAL GAS AND PETROLEUM PRODUCTS IN DIFFERENT STATES AS ON 1.4.2006

(%)

S. No.	Products	Sikkim	Tripura	Uttar Pradesh	West Bengal	Chandi-garh	Megha-laya	Jhar-khand	Uttran-chal
		25	26	27	28	29	30	31	32
A. Crude Oil & Gas									
1.	Crude Oil		0	4	4	4		4	4
2.	Natural Gas		12	20		8		12.35	12.5
3.	CNG			10		8		10	
B. PETROLEUM PRODUCTS									
4.	MS	20	20	25	25	22	20	25	20
5.	HSD	12.5	12.5	21	17	12.5	12.5	21	20
6.	ATF Bonded		20			20		20	
	ATF Duty Paid		20	20	25	20	20		20
7.	AV.Spirit Bonded		20			20			
	AV.Spirit Duty Paid		20	20	20	20	20		20
8.	LDO	12.5	12.5	21	17	8	12.5	21	20
9.	Kerosene (House Hold)		4		4				4
	Kerosene/IKO					4			12.5
	Others	12.5	12.5	10	12.5	12.5	12.5	12.5	
10.	Furnace Oil	12.5	12.5	20	12.5	12.5	12.5		12.5
11.	Lube	12.5	12.5	10	12.5	12.5	12.5		12.5
12.	Greases	12.5	12.5	20	12.5	12.5	12.5		12.5
13.	LPG (House Hold)							12.5	
	LPG	12.5	12.5	10	12.5	12.5	12.5		12.5
	Others							12.5	
14.	Naphtha/Pet. Naphtha	12.5	12.5	20	4	12.5	12.5	12.5	12.5
15.	Asphalt/Bitumen	4	4	20	4	4	4	4	4
16.	MLO	12.5	12.5	10	12.5	12.5			12.5
17.	HBF/Brake Fluid Oil	12.5	12.5	10	12.5	12.5		12.5	12.5
18.	LSHS	12.5	12.5	7.5		12.5	12.5	12.5	12.5
19.	M.T.O.	12.5	12.5	20	4	12.5	12.5	12.5	12.5
20.	Pet. Coke(Declared Goods)	4	4	4	4	0		4	4
21.	Transformer Oil		12.5	10	12.5	0		12.5	12.5

In addition to the above, the following other levies are also payable as perthe provisions of the respective states as stated:

Uttar Pradesh: (I)Additional tax @25% on sales tax is payable. This is included in the billable rates shown in rate chart.

(Not applicable on MS, Av. Gas, ATF, LDO, HSD & Crude Oil). This is recoverable from the customers.

(II) State Development Tax @ 1% (SDT) of the taxable turnover w.e.f. 01.05.2005.

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 1999-00 TO 2005-06

(Rs. In Lakhs)

State/UTs	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06*
1. CRUDE OIL	**46270**	**54203**	**53347**	**99341**	**87544**	**127009**	**118724**
Andhra Pradesh	6	103	4	0	2432	3553	8414
Arunachal Pradesh	34	614	60	70	0	157	0
Assam	8896	10634	10741	15604	15805	20636	8305
Gujrat	10851	12574	13607	21736	17456	23777	25379
Maharashtra	25765	29321	27925	60303	50292	76560	73538
Tamil Nadu	718	957	1009	1627	1556	2324	3085
Rajasthan	0	0	1	1	3	2	0
Tripura	0	0	0	0	0	0	2
2. NATURAL GAS	**75782**	**87011**	**85153**	**84391**	**91264**	**85363**	**108249**
Andhra Pradesh	6762	8022	9895	11689	12973	12652	11112
Assam	2497	3036	2595	2624	2856	2978	634
Gujrat	38863	44568	44547	46746	43547	39672	51939
M.P	6180	6972	5824	3388	10278	6606	5971
Maharashtra	9509	10772	7977	7624	9358	9052	20864
Rajasthan	148	157	184	153	184	324	29
Tamil Nadu	286	390	744	1050	1501	1368	2473
Tripura	629	760	789	790	816	956	1168
U.P	10908	12334	12598	10327	9751	11755	13406
Pondicherry/Mane	0	0	0	0	0	0	186
3. POI PRODUCTS	**1688561**	**2196244**	**1870455**	**2790341**	**3106061**	**3687669**	**4366893**
Andhra Pradesh	158452	194146	151883	249820	278210	330193	402469
Assam	19298	24568	25714	31717	674	62738	46897
Arunachal Pradesh	0	190	426	532	40821	1021	1703
Bihar	57416	61684	45278	69118	69149	90838	103602
Chhattisgarh	0	6763	16673	28668	35720	51348	66508
Delhi	53797	81164	67760	86496	90497	112201	140071
Goa	19026	21944	14999	20092	23693	25191	33751
Gujarat	176193	203068	237604	321224	316319	299185	363735
Harayana	41750	71515	63685	83300	95594	142989	152880
Himachal Pradesh	4155	7625	8031	9876	12964	17115	20814
Jammu & kashmir	7009	11153	9869	14996	17009	21289	28197
Jharkhand	0	10988	19460	31959	41532	51156	59686
Karnataka	116533	140413	125237	164918	204290	241822	284734
Kerala	86602	134010	103372	149289	184629	189764	210643
Madhya Pradesh	76902	86495	65876	111293	127421	154948	178561
Maharashtra	285395	386015	278283	506197	524725	621340	764140
Manipur	888	1362	1090	1625	1794	2032	2789
Meghyalya	796	1380	1093	1848	1854	3057	6035
Mizoram	250	339	499	959	1181	1404	1759
Nagaland	769	907	1358	1401	1508	1852	2603
Orissa	24359	34861	27587	43654	52986	66308	83733
Pondicherry/Mane	237	412	478	592	533	577	465
Punjab	43865	76277	64631	87190	100269	119400	136825
Rajasthan	80114	101883	88392	141074	164383	194296	228669
Sikkim	281	613	728	982	1102	1459	1765
Tamil Nadu	206292	236552	188827	267751	302447	371086	436399
Tripura	759	1356	1981	2445	2841	3330	3851
Uttar Pradesh	152489	196708	167481	229656	252335	299959	367091
Uttaranchal	0	4721	12284	16470	19816	25267	30609
West Bengal	74411	95276	77600	113225	137770	182277	200766
Union Territories							
Daman & Diu	38	119	50	67	63	93	18
Chandigarh	482	1732	2221	1867	1918	2126	5016
Dadra & Nagar Haveli	3	5	5	40	14	8	109
Grand Total (1+2+3)	**1810613**	**2337458**	**2008955**	**2974073**	**3284869**	**3900041**	**4593866**

Source : Compiled on the basis of the receipts from the oil companies *:Provisional.

XI. TRANSPORTATION

XI.1 TONNAGE OF INDIAN TANKERS FLEET 1975 TO 2006

(DWT in '000' Tonnes)

Year*	Coastal Oil Tanker						Offshore Supply Vessels		Specialised vessels for offshore		Overseas								Overseas total		Total all tankers	
	Product Carriers		Crude Oil Carriers		Total						Ore oil bulk carriers		Crude oil carriers		Product carriers		LPG carriers					
	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

*: 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.

***: Provisional.

XI.2 INDIAN TONNAGE AS ON 31.3.2006

(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.	396	596
5	Hede Ferrominas (P) Ltd.	493	872
6	Jaisu Shipping (P) Ltd.	1873	2808
7	Reliance Industries Ltd.	14960	23497
8	Viking Lighterage & Cargo Handlers P. Ltd.	306	415
	Total	**26344**	**40475**
	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	Damodar Marine Services Pvt. Ltd.	487	737
4	Dolphin Offshore	1371	763
5	Dredging International India P. Ltd.	92	0
6	ELCOME Surveys Pvt. Ltd.	275	290
7	EPSOM Shipping (I) Pvt. Ltd.	456	268
8	Essar Shipping Ltd.	1313	1751
9	GAL Offshore Shipping	640	0
10	Garware Shipping Corporation Ltd.	3468	4240
11	Great Eastern Shipping Co. Ltd.	14779	18710
12	HAL Offshore Ltd.	1085	832
13	Hede Ferominas (P) Ltd.	628	750
14	Jayesh Shipping P.Ltd.	69	0
15	Maju Marine Services	322	500
16	Oil and Natural Gas Commission	37065	43659
17	Raj Shipping Agencies Ltd.	1820	0
18	Rajamahendri Shipping & Oil Field Services P.Ltd.	189	125
19	Samson Maritime Ltd.	1011	0
20	Tag Sealogistics Ltd.	2626	3201
21	Shipping Corporation of India Ltd.	13100	17912
22	Tidewater (India) Pvt. Ltd.	1397	3250
23	Varun Shipping Co. Ltd.	1978	2172
	Total	**85066**	**100186**
	Specialised Vessels for Offshore Services		
1	Elcome Surveys	392	469
2	Fugro Geonics Pvt. Ltd.	456	0
3	Jaisu Shipping Co.(P) Ltd.	99	99
4	Jayesh Shipping Pvt. Ltd.	491	407
5	Oil and Natural Gas Commission	47426	27949
6	Procyon Offshore Services Pvt. Ltd.	405	436

Cont'd...

XI.2 INDIAN TONNAGE AS ON 31.3.2006

(Tonnes)

	Owner of the ship	Gross Registered Tonnage	Dead Weight Tonnage
7	Raj Shipping	715	915
8	Reliance Industries Ltd.	1206	820
9	Samson Maritime	1674	1810
10	Sealion Sparkle Maritime Services Ltd.	136	14
11	South East Asia Marine Engg. & Construction Ltd.	11211	6135
12	South India Corpn. (Agencies) Ltd.	490	826
13	The Council of Scientific & Industrial Research	2661	800
14	The Department of Ocean Development	4582	1605
15	The Director General of Lighthouses & Lightships	5823	3083
16	The Geological Survey of India	2942	2005
	Total	**80709**	**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	37703	60725
2	Essar Shipping Ltd.	228992	436366
3	Great Eastern Shipping Co.Ltd.	784939	1426972
4	India Steamship Co.Ltd.	110158	186127
5	Mercator Lines Ltd.	153642	280645
6	Pratibha Shipping Co. Ltd.	78236	129361
7	The Shipping Corporation of India Ltd.	1521663	2753057
8	Varun Shipping Co. Ltd.	56127	106597
	Total	**2971460**	**5379850**
	Oil Tankers (Product Carriers)		
1	ASM Shipping	18101	30990
2	Essar Shipping Ltd.	24654	39204
3	Great Eastern Shipping Co.Ltd.	552397	960300
4	Mercator Lines	524395	933234
5	Pratibha Shipping Ltd.	16949	29810
6	Sanmar Shipping Ltd.	59867	106610
7	Seven Islands Shipping	8303	12765
8	Shipping Corpn. Of India Ltd.	406347	713637
9	Varun Shipping Co. Ltd.	90050	158973
	Total	**1701063**	**2985523**
	LPG Carriers		
1	Great Eastern Shipping Co. Ltd.	39086	45977
2	Shipping Corpn. Of India Ltd.	35556	35202
3	Varun Shipping Co.Ltd.	209261	260715
	Total	**283903**	**341894**

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
	1995-96	21.52	10.74	49.9
	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*	53.02	22.66	42.7
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
	1995-96	34.05	30.15	88.5
	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
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
	1995-96	30.72	11.57	37.7
	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	13.21	28.0
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
	1995-96	11.50	9.36	81.4
	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*	13.94	9.64	69.2

*: 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
	1995-96	30.34	22.34	73.6
	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
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
	1995-96	32.82	12.54	38.2
	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
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
	1995-96	18.10	1.91	10.6
	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
J.N.P.T.	1989-90	0.70	0.00	0.0
	1995-96	6.87	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*	37.75	2.50	6.6

*: 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
	1995-96	11.26	1.07	9.5
	1999-00	13.64	2.22	16.3
	2000-01	19.90	2.20	11.1
	2001-02	21.13	1.99	9.4
	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
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
	1995-96	9.29	0.44	4.7
	1999-00	9.99	0.46	4.6
	2000-01	12.28	0.46	3.7
	2001-02	13.02	0.43	3.3
	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
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
	1995-96	8.88	0.96	10.8
	1999-00	17.60	8.32	47.3
	2000-01	17.89	10.92	61.0
	2001-02	17.50	9.90	56.6
	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
Ennore	2001-02	3.40	0.00	0.0
	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
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
	1995-96	215.34	91.07	42.3
	1999-00	271.92	116.71	42.9
	2000-01	281.10	108.35	38.5
	2001-02	287.58	103.18	35.9
	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*	423.41	142.17	33.6

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
1996-97	28516	20310003	652	109.2	712.23
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	N.A.	N.A.	N.A.	N.A.	N.A.

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
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	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
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
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	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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

N.A.: Not Available.

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

Type of pipeline / Owner	Length (in Kms.) as on 1st April						
	2000	2001	2002	2003	2004	2005	2006*
CRUDE PIPELINES (ONSHORE)							
ONGC	966	975	1181	1708	2232	2507	2881
OIL	1538	1538	1538	1538	1538	1418	1418
IOC	2203	2203	2640	2788	2788	2788	2788
HPCL	11	11	11	11	11	13	13
Pvt. / JVC	12	12	16	16	17	19	19
SUBTOTAL	**4730**	**4739**	**5386**	**6061**	**6586**	**6745**	**7119**
CRUDE PIPELINES (OFFSHORE)							
ONGC	667	731	731	798	821	865	1159
IOC	25	25	25	25	25	25	25
Pvt. / JVC	142	142	142	174	179	179	179
SUBTOTAL	**834**	**898**	**898**	**997**	**1025**	**1069**	**1363**
GAS PIPELINES (ONSHORE)							
ONGC	685	687	759	929	1079	1249	1452
GAIL	4077	4205	4476	4591	4756	5460	5594
OIL	90	213	213	213	213	213	213
BPCL	2	2	2	2	2	2	26
Pvt. / JVC	5	5	5	19	30	35	35
SUBTOTAL	**4859**	**5112**	**5455**	**5754**	**6080**	**6959**	**7320**
GAS PIPELINES (OFFSHORE)							
ONGC	638	660	660	671	671	676	942
GAIL							7
Pvt. / JVC	104	115	115	115	123	123	132
SUBTOTAL	**742**	**775**	**775**	**786**	**794**	**799**	**1081**
PRODUCT PIPELINES (ONSHORE)							
IOC(AOD)	75	75	75	75	75	75	75
IOC	4061	4061	4186	4687	4842	4842	6063
BPCL	482	553	576	613	971	971	971
HPCL	588	588	811	811	811	791	791
ONGC	8	14	14	14	14	104	211
GAIL		1233	1233	1233	2527	1916	1927
Petronet India Limited	100	100	392	754	754	754	754
SUBTOTAL	**5214**	**6624**	**6895**	**7433**	**9240**	**8699**	**10038**
PRODUCT PIPELINES (OFFSHORE)							
BPCL	3	3	3	3	3	3	3
ONGC	48	48	48	48	48	58	77
SUBTOTAL	**51**	**51**	**51**	**51**	**51**	**61**	**80**
GRAND TOTAL	**16430**	**18099**	**19460**	**21082**	**23776**	**24332**	**27001**

*: Provisional.

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
	%	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		10795	354	3412	28908
	%	25.3	24.3		37.3	1.2	11.8	100.0

*: Provisional.
% : Percentage
#: Included in IOC.

The data excludes consumers outlets
@ : Merged with HPCL in 1980.
Source: PSUs.

XII.2 STATE-WISE NUMBER OF RETAIL OUTLETS, LDO/SKO DEALERS AND LPG DISTRIBUTORS AS ON 1.4.2006

(Number)

State / UT	Retail Outlets	LDO/SKO Dealers	LPG Distri-butors
1	2	3	4
STATES			
Andhra Pradesh	2556	605	868
Arunachal Pradesh	42	32	29
Assam	454	361	249
Bihar	1162	368	301
Chhattisgarh	404	107	146
Delhi	389	116	312
Goa	87	21	52
Gujarat	1642	497	546
Haryana	1264	148	281
Himachal Pradesh	233	26	114
Jammu & Kashmir	302	47	151
Jharkhand	572	86	137
Karnataka	1812	325	486
Kerala	1419	243	373
Madhya Pradesh	1364	276	561
Maharashtra	2779	775	1001
Manipur	43	36	31
Meghalaya	97	35	32
Mizoram	15	19	25
Nagaland	39	19	26
Orissa	735	179	179
Punjab	2214	244	427
Rajasthan	1939	252	446
Sikkim	25	12	0
Tamil Nadu	2537	465	635
Tripura	37	40	29
Uttar Pradesh	3718	692	1145
Uttaranchal	312	72	161
West Bengal	1491	475	472
UNION TERRITORIES			
Andaman & Nicobar	5	1	4
Chandigarh	45	12	29
Dadra & Nagar Haveli	13	2	1
Daman & Diu	14	5	2
Lakshadweep	0	0	1
Pondicherry	82	8	18
Bhutan	15	1	0
Grand Total	**29857**	**6602**	**9270**

Source: Public Sector Undertakings.

XII.3 STATE-WISE AND COMPANY-WISE RETAIL OUTLETS AS ON 1.4.2006

(Number)

State / UT	IOCL/ AOD	IBP	HPCL	BPCL	TOTAL
1	*2*	*3*	*4*	*5*	*6*
STATES					
Andhra Pradesh	889	358	681	628	2556
Arunachal Pradesh	39	2	0	1	42
Assam	358	26	60	10	454
Bihar	474	223	201	264	1162
Chhattisgarh	145	29	113	117	404
Delhi	150	45	92	102	389
Goa	18	3	29	37	87
Gujarat	639	231	368	404	1642
Haryana	567	218	269	210	1264
Himachal Pradesh	109	25	52	47	233
Jammu & Kashmir	137	9	77	79	302
Jharkhand	213	66	153	140	572
Karnataka	765	174	412	461	1812
Kerala	466	182	420	351	1419
Madhya Pradesh	561	79	323	401	1364
Maharashtra	872	195	801	911	2779
Manipur	38	5	0	0	43
Meghalaya	70	8	15	4	97
Mizoram	15	0	0	0	15
Nagaland	34	2	1	2	39
Orissa	297	73	153	212	735
Punjab	799	419	513	483	2214
Rajasthan	792	126	568	453	1939
Sikkim	11	2	3	9	25
Tamil Nadu	938	227	700	672	2537
Tripura	36	1	0	0	37
Uttar Pradesh	1580	471	807	860	3718
Uttaranchal	126	35	83	68	312
West Bengal	538	219	367	367	1491
UNION TERRITORIES					
Andaman & Nicobar	5	0	0	0	5
Chandigarh	16	4	15	10	45
Dadra & Nagar Haveli	7	0	5	1	13
Daman & Diu	6	1	4	3	14
Lakshadweep	0	0	0	0	0
Pondicherry	29	10	29	14	82
Bhutan	15	0	0	0	15
Grand Total	**11754**	**3468**	**7314**	**7321**	**29857**

Source: Public Sector Undertakings.

XII.4 STATE-WISE AND COMPANY-WISE LPG DOMESTIC CONSUMERS AS ON 1.4.2006

('000' Number)

State / UT	IOCL/ AOD	IBP	HPCL	BPCL	TOTAL
1	2	3	4	5	6
STATES					
Andhra Pradesh	3484	28	4308	2075	9895
Arunachal Pradesh	104	0	0	0	104
Assam	1591	0	22	44	1657
Bihar	1480	0	287	326	2093
Chhattisgarh	444	0	309	140	893
Delhi	2510	0	530	850	3890
Goa	5	0	233	136	374
Gujarat	2820	16	1036	1036	4908
Haryana	1373	53	553	940	2919
Himachal Pradesh	933	0	137	57	1127
Jammu & Kashmir	348	0	783	122	1253
Jharkhand	663	0	143	109	915
Karnataka	1985	0	1741	1196	4922
Kerala	2577	0	698	1430	4705
Madhya Pradesh	1882	0	1019	716	3617
Maharashtra	1260	21	5124	5367	11772
Manipur	195	0	0	0	195
Meghalaya	92	0	0	0	92
Mizoram	166	0	0	0	166
Nagaland	116	0	0	0	116
Orissa	456	0	598	240	1294
Punjab	2259	78	839	1007	4183
Rajasthan	1579	0	979	1084	3642
Sikkim	104	0	0	0	104
Tamil Nadu	4914	88	993	2147	8142
Tripura	204	0	0	0	204
Uttar Pradesh	5440	64	1270	2381	9155
Uttaranchal	1153	1	53	156	1363
West Bengal	2899	41	906	600	4446
UNION TERRITORIES					
Andaman & Nicobar	49	0	0	0	49
Chandigarh	198	0	68	45	311
Dadra & Nagar Haveli	0	0	28	0	28
Daman & Diu	0	0	26	0	26
Lakshadweep	3	0	0	0	3
Pondicherry	92	0	84	34	210
GRAND TOTAL	**43378**	**390**	**22767**	**22238**	**88773**

Source: Public Sector Undertakings.

XII.5 CNG ACTIVITIES IN INDIA AS ON 1.4.2006

Item	Delhi	Maharashtra	Gujarat				Grand Total
	Delhi	Maharashtra	Vado-dara	Surat	Ankle-shwar	Total	
	IGL	MGL	GAIL	GGCL	GGCL		
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*
Station Type							
Mother	65	4	1 @	0	1	2	71
Online	42	103	0	11	0	11	156
Daughter Booster	35 *	13	1	0	0	1	49
Daughter	4	0	0	0	1	1	5
Total	**146**	**120**	**2**	**11**	**2**	**15**	**281**
No. of Vehicles							
Cars$	24573	50679	596	2880	956	4432	79684
Autos	65335	116938	805	27458	626	28889	211162
LCV/RTVs	5298	1338	0	0	0	0	6636
Buses	10941	376	21 &	31	4	56	11373
Others/Phatphat Sewa	336	672	0	21	5	26	1034
Total	**106483**	**170003**	**1422**	**30390**	**1591**	**33403**	**309889**
Price (Rs./Kg)	18	19.77/20.10/21 #	23.41/ 22.58 ^	22.55	22.55		
Average Consumption							
TPD	1027.42	585.44	8.7	NA	NA		
MMSCMD	1.35	0.83	0.01	NA	NA		

MMSCMD: Million Standard Cubic Metres Per Day

TPD : Tonnes per day

$: Includes taxies.

@: Cascade filling facility only.

*Two stations are located in Noida

#: Mumbai/Thane/Mira Bhayander

&Buses registered at RTO Gandhinagar but taking CNG at Vadodara CNG Station.

^ at DBS/Mother Station

Source:

1. IGL : Indraprastha Gas Ltd.
2. MGL : Mahanagar Gas Ltd.
3. GAIL : GAIL (India) Ltd.
4. GGCL : Gujarat Gas Company Ltd.

Conversion factors:

1 Kg = 1.295 SCM of gas

1 Kg = 1.41 SCM of gas

1 Kg = 1.32 SCM of Natural gas

1 Kg = 1.43 SCM of gas

XII.6 SUPPLY PLAN OF GREEN FUELS IN INDIA

Product	Effective Date	Areas Covered
1	2	3
MS (Euro-III)	1st April 2005	11 cities (Delhi/NCR, Mumbai, Kolkata, Chennai, Bangalore, Hyderabad, Ahmedabad, Pune, Surat, Kanpur & Agra)
	1st June 2005	Lucknow & Solapur
HSD(Euro-III)	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 as per 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	Crude Petroleum	Petroleum Products @	Thermal	Hydel	Nuclear	Total
	(----------Million Tonnes----------)			(MCM)	(..... '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	466618	73796	17720	**558134**
2004-05	382.61	30.34	**412.95**	31763	33981	127116	490400	101200	17000	**608600**
2005-06*	407.04	30.06	**437.10**	32202	32190	128875	506000	99900	17300	**623200**

* : Provisional

@: Includes RBF and LPG production from natural gas.

Source : (i) Central Electricity Authority and Economic Survey (ii) Ministry of Coal

XIV.1(a) WORLD PROVED RESERVES OF CRUDE OIL AT END 2005

Region/Country	Thousand million tonnes	Thousand million barrels	Share of total	R/P ratio
USA	3.6	29.3	2.4%	11.8
Canada	2.3	16.5	1.4%	14.8
Mexico	1.9	13.7	1.1%	10.0
Total North America	**7.8**	**59.5**	**5.0%**	**11.9**
Argentina	0.3	2.3	0.2%	8.7
Brazil	1.6	11.8	1.0%	18.8
Colombia	0.2	1.5	0.1%	7.3
Ecuador	0.7	5.1	0.4%	25.6
Peru	0.1	1.1	0.1%	27.1
Trinidad & Tobago	0.1	0.8	0.1%	13.0
Venezuela	11.5	79.7	6.6%	72.6
Other S. & Cent. America	0.2	1.3	0.1%	24.8
Total S. & Cent. America	**14.8**	**103.5**	**8.6%**	**40.7**
Azerbaijan	1.0	7.0	0.6%	42.4
Denmark	0.2	1.3	0.1%	9.3
Italy	0.1	0.7	0.1%	17.0
Kazakhstan	5.4	39.6	3.3%	79.6
Norway	1.3	9.7	0.8%	8.9
Romania	0.1	0.5	•	11.3
Russian Federation	10.2	74.4	6.2%	21.4
Turkmenistan	0.1	0.5	•	7.8
United Kingdom	0.5	4.0	0.3%	6.1
Uzbekistan	0.1	0.6	•	12.9
Other Europe & Eurasia	0.3	2.2	0.2%	12.9
Total Europe & Eurasia	**19.2**	**140.5**	**11.7%**	**22.0**
Iran	18.9	137.5	11.5%	93.0
Iraq	15.5	115.0	9.6%	*
Kuwait	14.0	101.5	8.5%	*
Oman	0.8	5.6	0.5%	19.6
Qatar	2.0	15.2	1.3%	38.0
Saudi Arabia	36.3	264.2	22.0%	65.6
Syria	0.4	3.0	0.2%	17.5
United Arab Emirates	13.0	97.8	8.1%	97.4
Yemen	0.4	2.9	0.2%	18.3
Other Middle East	†	0.1	•	4.6
Total Middle East	**101.2**	**742.7**	**61.9%**	**81.0**

Contd....

XIV.1(a) WORLD PROVED RESERVES OF CRUDE OIL AT END 2005

Region/Country	Thousand million tonnes	Thousand million barrels	Share of total	R/P ratio
Algeria	1.5	12.2	1.0%	16.6
Angola	1.2	9.0	0.8%	19.9
Chad	0.1	0.9	0.1%	14.3
Rep. of Congo (Brazzaville)	0.3	1.8	0.1%	19.3
Egypt	0.5	3.7	0.3%	14.6
Equatorial Guinea	0.2	1.8	0.1%	13.6
Gabon	0.3	2.2	0.2%	25.8
Libya	5.1	39.1	3.3%	63.0
Nigeria	4.8	35.9	3.0%	38.1
Sudan	0.9	6.4	0.5%	46.3
Tunisia	0.1	0.7	0.1%	25.2
Other Africa	0.1	0.6	•	12.0
Total Africa	**15.2**	**114.3**	**9.5%**	**31.8**
Australia	0.5	4.0	0.3%	20.0
Brunei	0.2	1.1	0.1%	14.9
China	2.2	16.0	1.3%	12.1
India	0.8	5.9	0.5%	20.7
Indonesia	0.6	4.3	0.4%	10.4
Malaysia	0.5	4.2	0.3%	13.9
Thailand	0.1	0.5	•	5.2
Vietnam	0.4	3.1	0.3%	21.8
Other Asia Pacific	0.1	1.0	0.1%	13.2
Total Asia Pacific	**5.4**	**40.2**	**3.4%**	**13.8**
TOTAL WORLD	**163.6**	**1200.7**	**100.0%**	**40.6**
Of which OECD	10.6	80.6	6.7%	11.2
OPEC	123.2	902.4	75.2%	73.1
Non-OPEC £	23.5	175.4	14.6%	13.6
Former Soviet Union	16.8	122.9	10.2%	28.4

* 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 level.

Source: BP Statistical Review of World Energy, 2006

XIV.1(b) WORLD PROVED RESERVES OF NATURAL GAS AT END 2005

Region/Country	Trillion Cubic Feet	Trillion Cubic Metres	Share of total	R/P ratio
USA	192.5	5.45	3.0%	10.4
Canada	56.0	1.59	0.9%	8.6
Mexico	14.5	0.41	0.2%	10.4
Total North America	**263.3**	**7.46**	**4.1%**	**9.9**
Argentina	17.8	0.50	0.3%	11.1
Bolivia	26.1	0.74	0.4%	71.1
Brazil	10.9	0.31	0.2%	27.3
Colombia	4.0	0.11	0.1%	16.7
Peru	11.5	0.33	0.2%	*
Trinidad & Tobago	19.2	0.55	0.3%	18.8
Venezuela	152.3	4.32	2.4%	*
Other S. & Cent. America	5.9	0.17	0.1%	87.7
Total S. & Cent. America	**247.8**	**7.02**	**3.9%**	**51.8**
Azerbaijan	48.4	1.37	0.8%	*
Denmark	2.4	0.07	*	6.5
Germany	6.6	0.19	0.1%	11.8
Italy	5.9	0.17	0.1%	14.0
Kazakhstan	105.9	3.00	1.7%	*
Netherlands	49.6	1.41	0.8%	22.3
Norway	84.9	2.41	1.3%	28.3
Poland	3.8	0.11	0.1%	25.3
Romania	22.2	0.63	0.3%	48.6
Russian Federation	1688.0	47.82	26.6%	80.0
Turkmenistan	102.4	2.90	1.6%	49.3
Ukraine	39.0	1.11	0.6%	58.7
United Kingdom	18.7	0.53	0.3%	6.0
Uzbekistan	65.3	1.85	1.0%	33.2
Other Europe & Eurasia	16.2	0.46	0.3%	47.0
Total Europe & Eurasia	**2259.4**	**64.01**	**35.6%**	**60.3**
Bahrain	3.2	0.09	0.1%	9.1
Iran	943.9	26.74	14.9%	*
Iraq	111.9	3.17	1.8%	*
Kuwait	55.5	1.57	0.9%	*
Oman	35.1	1.00	0.6%	56.9
Qatar	910.1	25.78	14.3%	*
Saudi Arabia	243.6	6.90	3.8%	99.3
Syria	10.9	0.31	0.2%	57.3
United Arab Emirates	213.0	6.04	3.4%	*
Yemen	16.9	0.48	0.3%	*
Other Middle East	1.8	0.05	*	26.7
Total Middle East	**2546.0**	**72.13**	**40.1%**	*

Contd.....

XIV.1(b) WORLD PROVED RESERVES OF NATURAL GAS AT END 2005

Region/Country	Trillion Cubic Feet	Trillion Cubic Metres	Share of total	R/P ratio
Algeria	161.7	4.58	2.5%	52.2
Egypt	66.7	1.89	1.1%	54.4
Libya	52.6	1.49	0.8%	*
Nigeria	184.6	5.23	2.9%	*
Other Africa	42.2	1.20	0.7%	*
Total Africa	**508.1**	**14.39**	**8.0%**	88.3
Australia	89.0	2.52	1.4%	67.9
Bangladesh	15.4	0.44	0.2%	30.7
Brunei	12.0	0.34	0.2%	28.3
China	83.0	2.35	1.3%	47.0
India	38.9	1.10	0.6%	36.2
Indonesia	97.4	2.76	1.5%	36.3
Malaysia	87.5	2.48	1.4%	41.4
Myanmar	17.7	0.50	0.3%	38.5
Pakistan	34.0	0.96	0.5%	32.2
Papua New Guinea	15.1	0.43	0.2%	*
Thailand	12.5	0.35	0.2%	16.5
Vietnam	8.3	0.24	0.1%	45.6
Other Asia Pacific	13.1	0.37	0.2%	34.7
Total Asia Pacific	**523.7**	**14.84**	**8.3%**	**41.2**
TOTAL WORLD	**6,348.1**	**179.83**	**100.0%**	**65.1**
Of which: European Union 25	90.8	2.57	1.4%	12.9
OECD	527.7	14.95	8.3%	13.8
Former Soviet Union	2058.8	58.32	32.4%	76.7

* More than 100 years + Less than 0.05 • Less than 0.05% n/a not available

Notes: Proved reserves of natural gas - Generally taken to be those quantities that geological the future and engineering information indicates with reasonable certainty can be recovered in 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 level.

Source: BP Statistical Review of World Energy, 2006

XIV.2 WORLD CRUDE OIL PRODUCTION* DURING 2000-2005

(Million tonnes)

Region/Country	2000	2001	2002	2003	2004	2005	Change 2005 over 2004	2005 share of total
USA	352.6	349.2	346.9	338.4	329.2	310.2	-5.5%	8.0%
Canada	126.9	126.1	135.0	142.7	147.6	145.2	-1.3%	3.7%
Mexico	171.2	176.6	178.4	188.8	190.7	187.1	-1.6%	4.8%
Total North America	**650.8**	**651.9**	**660.2**	**669.8**	**667.4**	**642.5**	**-3.5%**	**16.5%**
Argentina	40.4	41.5	40.9	40.2	37.8	36.2	-3.9%	0.9%
Brazil	63.2	66.3	74.4	77.0	76.5	84.7	11.1%	2.2%
Colombia	35.3	31.0	29.7	27.9	27.3	27.1	-0.4%	0.7%
Ecuador	20.9	21.2	20.4	21.7	27.3	27.6	1.1%	0.7%
Peru	4.9	4.8	4.8	4.5	4.4	4.9	11.5%	0.1%
Trinidad & Tobago	6.8	6.5	7.5	7.9	7.3	8.3	13.6%	0.2%
Venezuela	167.3	161.6	149.9	134.2	153.4	154.7	1.1%	4.0%
Other S. & Cent. America	6.6	6.9	7.8	7.8	7.3	7.1	-2.4%	0.2%
Total S. & Cent. America	**345.3**	**339.8**	**335.3**	**321.1**	**341.3**	**350.6**	**3.0%**	**9.0%**
Azerbaijan	14.0	14.9	15.4	15.5	15.7	22.4	42.8%	0.6%
Denmark	17.7	17.0	18.1	17.9	19.1	18.4	-3.3%	0.5%
Italy	4.6	4.1	5.5	5.6	5.5	6.1	12.2%	0.2%
Kazakhstan	35.3	40.1	48.2	52.4	60.6	63.0	4.3%	1.6%
Norway	160.2	162.0	157.3	153.0	149.9	138.2	-7.5%	3.5%
Romania	6.3	6.2	6.1	5.9	5.7	5.4	-4.5%	0.1%
Russian Federation	323.3	348.1	379.6	421.4	458.8	470.0	2.7%	12.1%
Turkmenistan	7.2	8.0	9.0	10.0	9.6	9.5	-0.5%	0.2%
United Kingdom	126.2	116.7	115.9	106.1	95.4	84.7	-11.0%	2.2%
Uzbekistan	7.5	7.2	7.2	7.1	6.6	5.5	-16.9%	0.1%
Other Europe & Eurasia	22.4	22.2	23.7	24.0	23.4	21.8	-6.8%	0.6%
Total Europe & Eurasia	**724.7**	**746.6**	**786.0**	**818.9**	**850.2**	**845.0**	**-0.3%**	**21.7%**
Iran	189.4	184.4	168.6	197.9	202.6	200.4	-0.8%	5.1%
Iraq	127.3	116.7	99.9	65.7	99.2	89.5	-9.5%	2.3%
Kuwait	103.9	101.9	98.2	114.8	122.5	130.1	6.5%	3.3%
Oman	47.6	47.5	44.5	40.7	38.9	38.5	-0.6%	1.0%
Qatar	38.7	38.4	35.1	41.2	44.9	48.8	9.0%	1.3%
Saudi Arabia	457.6	442.9	427.3	487.9	506.1	526.2	4.3%	13.5%
Syria	27.3	28.9	27.1	28.0	26.4	23.3	-11.4%	0.6%
United Arab Emirates	123.3	118.3	108.5	122.2	124.7	129.0	3.7%	3.3%
Yemen	21.3	21.5	21.6	21.1	19.9	20.1	1.3%	0.5%
Other Middle East	2.2	2.2	2.2	2.2	2.2	2.2	*	0.1%
Total Middle East	**1138.6**	**1102.8**	**1033.0**	**1121.7**	**1187.3**	**1208.1**	**2.0%**	**31.0%**

Contd...

XIV.2 WORLD CRUDE OIL PRODUCTION* DURING 2000-2005

(Million tonnes)

Region/Country	2000	2001	2002	2003	2004	2005	Change 2005 over 2004	2005 share of total
Algeria	66.8	65.8	70.9	79.0	83.6	86.5	3.8%	2.2%
Angola	36.9	36.6	44.6	43.6	48.7	61.2	26.0%	1.6%
Cameroon	4.5	4.1	3.8	3.5	3.2	3.0	-6.1%	0.1%
Chad	-	-	-	1.3	8.8	9.1	3.0%	0.2%
Rep. of Congo (Brazzaville)	14.2	14.0	13.3	12.5	12.4	13.1	5.5%	0.3%
Egypt	38.8	37.3	37.0	36.8	35.4	33.9	-3.9%	0.9%
Equatorial Guinea	5.8	8.6	10.4	11.6	16.3	17.6	7.9%	0.5%
Gabon	16.4	15.0	14.7	12.0	11.8	11.7	-0.2%	0.3%
Libya	69.3	66.8	64.6	69.9	75.8	80.1	5.9%	2.1%
Nigeria	105.4	110.8	102.3	110.3	121.9	125.4	3.1%	3.2%
Sudan	8.6	10.4	11.5	12.6	16.1	18.7	16.6%	0.5%
Tunisia	3.7	3.4	3.5	3.2	3.4	3.5	3.4%	0.1%
Other Africa	2.7	2.5	3.0	3.5	3.6	3.5	-3.0%	0.1%
Total Africa	**373.0**	**375.2**	**379.6**	**399.6**	**441.0**	**467.1**	**6.2%**	**12.0%**
Australia	35.3	31.8	31.6	26.6	23.0	23.3	2.0%	0.6%
Brunei	9.4	9.9	10.2	10.5	10.3	10.1	-2.0%	0.3%
China	162.6	164.8	166.9	169.6	174.1	180.8	4.2%	4.6%
India	36.1	36.0	37.0	36.9	37.9	36.2	-4.1%	0.9%
Indonesia	71.5	68.0	63.0	57.7	55.9	55.0	-1.4%	1.4%
Malaysia	34.3	33.8	35.4	37.4	38.5	36.8	-4.3%	0.9%
Thailand	6.6	7.0	7.8	9.2	9.0	11.2	25.2%	0.3%
Vietnam	16.2	17.1	17.3	17.7	20.8	19.1	-8.2%	0.5%
Other Asia Pacific	9.4	9.1	9.0	9.1	8.7	9.2	6.9%	0.2%
Total Asia Pacific	**381.5**	**377.5**	**378.0**	**374.5**	**378.1**	**381.7**	**1.2%**	**9.8%**
TOTAL WORLD	**3613.8**	**3593.7**	**3572.0**	**3705.8**	**3865.3**	**3895.0**	**1.0%**	**100.0%**
Of which OECD	1011.1	999.6	1005.4	995.6	976.0	927.7	-4.7%	23.8%
OPEC	1520.4	1475.6	1388.2	1480.8	1590.5	1625.5	2.5%	41.7%
Non-OPEC £	1700.0	1693.6	1717.6	1711.4	1716.2	1692.0	-1.1%	43.4%
Former Soviet Union	393.3	424.5	466.2	513.6	558.6	577.4	3.7%	14.8%

* Includes crude oil, shale oil, oil sands and NGLs (natural gas liquids - the liquid content of natural gas where this is recovered separately).

Excludes liquid fuels from other sources such as coal derivatives.

£ Excludes Former Soviet Union

Notes: Annual changes and shares of total are based on data expressed in tonnes oil equivalent

Growth rates are adjusted for leap years

Because of rounding some totals may not agree exactly with the sum of their component parts.

Source: BP Amoco Statistical Review of World Energy, 2006

XIV.3 CRUDE OIL PRODUCTION BY OPEC MEMBER COUNTRIES

(Million Tonnes)

OPEC Countries	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Algeria	58	58	57	57	56	57	59	60	62	64	67	66	71	79	83	67
Indonesia	72	78	74	74	74	74	77	76	74	69	72	68	63	58	55	53
Iran	161	173	175	182	183	183	184	185	189	176	188	183	169	198	203	203
Iraq	105	14	26	23	25	27	30	57	104	125	127	117	100	66	100	95
Kuwait	62	10	55	96	104	105	106	105	107	98	104	102	92	110	120	128
Libya	69	74	71	67	69	69	69	70	70	67	70	67	65	70	76	84
Nigeria	90	94	97	98	98	98	105	113	106	99	103	108	102	110	122	117
Qatar	21	20	23	21	21	21	26	32	35	33	37	36	35	41	45	38
Suadi Arabia	341	427	441	431	426	427	446	455	458	426	458	443	427	488	506	464
U.A.E	105	121	115	111	113	111	118	117	120	108	117	114	99	120	126	118
Venezuela	116	129	130	134	142	152	162	171	181	167	172	166	165	135	154	155
Total	**1199**	**1198**	**1262**	**1295**	**1311**	**1324**	**1382**	**1446**	**1507**	**1439**	**1519**	**1477**	**1388**	**1475**	**1588**	1523

Source : B.P.Amoco Statistical Review of World Energy, 2005

XIV.4 WORLD NATURAL GAS PRODUCTION* DURING 2000-2005

(Million tonnes oil equivalent)

	2000	2001	2002	2003	2004	2005	Change 2005 over 2004	2005 share of total
USA	495.5	509.2	489.9	496.2	485.5	473.1	-2.3%	19.0%
Canada	164.9	168.1	169.0	164.5	165.3	166.9	1.3%	6.7%
Mexico	32.2	31.8	31.8	32.7	33.6	35.6	6.0%	1.4%
Total North America	**692.6**	**709.1**	**690.7**	**693.5**	**684.4**	**675.6**	**-1.0%**	**27.2%**
Argentina	33.7	33.4	32.5	36.9	40.4	41.1	1.9%	1.7%
Bolivia	2.9	4.2	4.4	5.7	7.6	9.4	23.2%	0.4%
Brazil	6.5	6.8	8.3	9.0	9.9	10.2	3.1%	0.4%
Colombia	5.3	5.5	5.5	5.5	5.7	6.1	7.0%	0.2%
Trinidad & Tobago	12.6	13.7	15.6	22.3	25.3	26.1	3.5%	1.0%
Venezuela	25.1	26.6	25.6	22.7	25.3	26.1	3.2%	1.0%
Other S. & Cent. America	1.9	2.0	2.0	2.0	2.5	3.1	26.3%	0.1%
Total S. & Cent. America	**88.1**	**92.3**	**94.0**	**104.1**	**116.7**	**122.0**	**4.8%**	**4.9%**
Azerbaijan	4.7	4.7	4.3	4.3	4.2	4.8	13.9%	0.2%
Denmark	7.3	7.5	7.5	7.2	8.5	9.4	11.1%	0.4%
Germany	15.2	15.3	15.3	15.9	14.7	14.2	-3.2%	0.6%
Italy	14.6	13.7	13.2	12.4	11.7	10.8	-7.3%	0.4%
Kazakhstan	9.7	9.7	9.5	11.7	18.6	21.1	14.2%	0.9%
Netherlands	51.6	55.7	53.9	52.5	61.9	56.6	-8.4%	2.3%
Norway	44.8	48.5	59.0	65.8	70.6	76.5	8.6%	3.1%
Poland	3.3	3.5	3.6	3.6	3.9	3.9	-0.8%	0.2%
Romania	12.4	12.2	11.9	11.7	11.5	11.6	1.3%	0.5%
Russian Federation	490.5	488.2	499.9	520.8	531.9	538.2	1.5%	21.6%
Turkmenistan	39.5	43.1	44.9	49.6	49.2	52.9	7.9%	2.1%
Ukraine	15.0	15.4	15.7	16.0	17.2	16.9	-1.2%	0.7%
United Kingdom	97.6	95.3	93.3	92.6	86.4	79.2	-8.1%	3.2%
Uzbekistan	47.4	48.2	48.4	48.3	50.3	50.1	*	2.0%
Other Europe & Eurasia	10.1	9.9	10.1	9.6	9.9	8.8	-10.7%	0.4%
Total Europe & Eurasia	**863.5**	**871.0**	**890.5**	**921.9**	**950.3**	**955.0**	**0.8%**	**38.4%**
Bahrain	7.9	8.2	8.5	8.7	8.8	8.9	1.3%	0.4%
Iran	54.2	59.4	67.5	73.4	76.4	78.3	2.8%	3.1%
Kuwait	8.6	7.7	7.2	8.2	8.7	8.7	0.3%	0.4%
Oman	7.8	12.6	13.5	14.9	15.5	15.8	2.0%	0.6%
Qatar	21.3	24.3	26.6	28.3	35.3	39.2	11.4%	1.6%

Contd....

XIV.4 WORLD NATURAL GAS PRODUCTION* DURING 2000-2005

(Million tonnes oil equivalent)

	2000	2001	2002	2003	2004	2005	Change 2005 over 2004	2005 share of total
Saudi Arabia	44.8	48.3	51.0	54.1	59.1	62.6	6.1%	2.5%
Syria	3.8	3.7	4.5	4.6	4.7	4.9	3.0%	0.2%
United Arab Emirates	34.5	35.4	39.1	40.3	41.7	41.9	0.9%	1.7%
Other Middle East	3.1	2.7	2.4	1.6	2.2	3.1	39.2%	0.1%
Total Middle East	**186.1**	**202.3**	**220.2**	**233.9**	**252.4**	**263.3**	**4.6%**	**10.6%**
Algeria	76.0	70.4	72.3	74.5	73.8	79.0	7.3%	3.2%
Egypt	16.5	19.3	20.4	22.5	24.2	31.3	29.4%	1.3%
Libya	4.8	5.0	5.1	5.2	5.9	10.5	79.5%	0.4%
Nigeria	11.3	13.4	12.8	17.3	19.6	19.6	0.3%	0.8%
Other Africa	5.3	6.0	6.1	6.2	6.3	6.3	0.1%	0.3%
Total Africa	**113.9**	**114.2**	**116.7**	**125.7**	**129.8**	**146.7**	**13.3%**	**5.9%**
Australia	28.0	29.2	29.3	29.9	31.7	33.4	5.5%	1.3%
Bangladesh	9.0	9.7	10.3	11.1	12.0	12.8	7.1%	0.5%
Brunei	10.2	10.3	10.3	11.1	11.0	10.8	-1.5%	0.4%
China	24.5	27.3	29.4	31.5	36.9	45.0	22.2%	1.8%
India	24.2	24.5	25.9	26.9	27.1	27.4	1.3%	1.1%
Indonesia	61.7	59.7	63.3	65.5	67.9	68.4	1.1%	2.8%
Malaysia	40.7	42.2	43.5	46.6	48.5	54.0	11.6%	2.2%
Myanmar	3.1	6.5	7.6	8.6	9.2	11.7	27.8%	0.5%
New Zealand	5.1	5.3	5.1	3.9	3.5	3.3	-3.3%	0.1%
Pakistan	17.0	17.8	18.5	20.8	24.2	26.9	11.5%	1.1%
Thailand	16.8	16.2	17.0	17.6	18.2	19.3	6.0%	0.8%
Vietnam	1.4	1.8	2.2	2.1	3.7	4.6	24.1%	0.2%
Other Asia Pacific	3.3	3.5	5.0	6.1	5.9	6.6	12.2%	0.3%
Total Asia Pacific	**244.8**	**254.0**	**267.3**	**281.8**	**299.7**	**324.1**	**8.4%**	**13.0%**
TOTAL WORLD	**2189.0**	**2242.9**	**2279.3**	**2361.0**	**2433.4**	**2486.7**	**2.5%**	**100.0%**
Of which European Union 25#	196.6	198.1	193.8	190.8	193.8	179.7	-7.0%	7.2%
OECD	969.9	992.8	980.5	986.8	986.9	971.5	-1.3%	39.1%
Former Soviet Unio	607.1	609.6	623.0	650.8	671.5	684.3	2.2%	27.5%
Other EMEs	612.1	640.5	675.8	723.3	775.0	830.9	7.5%	33.4%

* Excluding gas flared or recycled

• Less than 0.05%

Excludes Slovenia prior to 1991

Growth rates are adjusted for leap years

Because of rounding some totals may not agree exactly with the sum of their component parts.

Source: BP Statistical Review of World Energy, 2006

XIV.5 WORLD NATURAL GAS CONSUMPTION* DURING 2000-2005

(Million tonnes oil equivalent)

Region/Country	2000	2001	2002	2003	2004	2005	Change 2005 over 2004	2005 share of total
USA	602.7	577.3	595.5	578.8	580.5	570.1	-1.5%	23.0%
Canada	74.7	74.5	77.0	82.9	83.4	82.3	-1.1%	3.3%
Mexico	34.6	35.1	38.4	41.2	43.8	44.6	2.3%	1.8%
Total North America	**712.1**	**686.9**	**710.9**	**703.0**	**707.7**	**697.1**	**-1.2%**	**28.2%**
Argentina	29.9	28.0	27.2	31.1	34.1	36.5	7.4%	1.5%
Brazil	8.4	10.5	13.0	14.3	17.1	18.2	6.7%	0.7%
Chile	4.7	5.7	5.9	6.4	7.5	6.8	-8.2%	0.3%
Colombia	5.3	5.5	5.5	5.4	5.7	6.1	7.5%	0.2%
Ecuador	0.1	0.1	0.1	^	0.2	0.2	0.3%	*
Peru	0.3	0.3	0.4	0.5	0.8	1.4	84.2%	0.1%
Venezuela	25.1	26.6	25.6	22.7	25.3	26.1	3.2%	1.1%
Other S. & Cent. America	10.7	12.2	13.0	14.3	15.4	16.4	7.1%	0.7%
Total S. & Cent. America	**84.6**	**89.0**	**90.7**	**94.8**	**105.9**	**111.7**	**5.7%**	**4.5%**
Austria	7.3	7.7	7.7	8.5	8.5	9.0	5.7%	0.4%
Azerbaijan	4.9	7.0	7.0	7.2	7.7	7.9	3.0%	0.3%
Belarus	14.6	14.5	14.9	14.7	16.6	17.0	2.8%	0.7%
Belgium & Luxembourg	13.4	13.2	13.4	14.4	14.9	15.2	2.3%	0.6%
Bulgaria	2.9	2.7	2.4	2.5	2.6	2.9	11.4%	0.1%
Czech Republic	7.5	8.0	7.8	7.8	7.8	7.7	-1.1%	0.3%
Denmark	4.4	4.6	4.6	4.7	4.7	4.5	-3.7%	0.2%
Finland	3.4	3.7	3.6	4.0	3.9	3.6	-7.1%	0.1%
France	35.7	37.5	37.5	39.0	40.1	40.5	1.3%	1.6%
Germany	71.5	74.6	74.3	77.0	77.3	77.3	0.3%	3.1%
Greece	1.7	1.7	1.8	2.0	2.2	2.3	2.3%	0.1%
Hungary	9.7	10.7	10.8	11.8	11.7	12.1	3.6%	0.5%
Iceland	-	-	-	-	-	-		-
Republic of Ireland	3.4	3.6	3.7	3.7	3.6	3.5	-4.6%	0.1%
Italy	58.4	58.5	58.1	63.8	66.2	71.1	7.7%	2.9%
Kazakhstan	8.7	9.1	10.0	12.0	13.9	16.0	15.8%	0.6%
Lithuania	2.5	2.5	2.6	2.8	2.8	2.9	5.1%	0.1%
Netherlands	35.3	35.2	35.4	36.2	37.0	35.5	-3.6%	1.4%
Norway	3.6	3.4	3.6	3.9	4.1	4.0	-2.1%	0.2%
Poland	10.0	10.4	10.1	10.1	11.8	12.2	4.1%	0.5%
Portugal	2.1	2.3	2.5	2.7	2.8	2.7	-0.5%	0.1%
Romania	15.4	14.9	15.5	16.5	15.7	15.6	-0.7%	0.6%
Russian Federation	339.5	335.4	350.0	353.6	361.7	364.6	1.1%	14.7%
Slovakia	5.8	6.2	5.8	5.7	5.5	5.3	-3.1%	0.2%
Spain	15.2	16.4	18.8	21.3	24.7	29.1	18.2%	1.2%
Sweden	0.7	0.6	0.7	0.7	0.7	0.7	-4.5%	*
Switzerland	2.4	2.5	2.5	2.6	2.7	2.8	2.9%	0.1%
Turkey	12.7	14.4	15.6	18.8	19.9	24.6	24.1%	1.0%
Turkmenistan	11.3	11.6	11.9	13.2	13.9	14.9	7.5%	0.6%
Ukraine	65.8	63.8	62.8	61.2	65.6	65.6	0.3%	2.6%

Contd.....

XIV.5 WORLD NATURAL GAS CONSUMPTION* DURING 2000-2005

(Million tonnes oil equivalent)

Region/Country	2000	2001	2002	2003	2004	2005	Change 2005 over 2004	2005 share of total
United Kingdom	87.2	86.7	85.6	85.8	87.3	85.1	-2.2%	3.4%
Uzbekistan	42.4	46.0	47.2	42.5	40.3	39.6	-1.4%	1.6%
Other Europe & Eurasia	12.1	13.3	12.4	12.8	12.9	13.8	7.0%	0.6%
Total Europe & Eurasia	**911.7**	**922.8**	**940.7**	**963.5**	**991.1**	**1009.7**	**2.2%**	**40.8%**
Iran	56.6	63.2	71.3	74.6	77.9	79.6	2.5%	3.2%
Kuwait	8.6	7.7	7.2	8.2	8.7	8.7	0.3%	0.4%
Qatar	8.7	9.9	10.0	11.0	13.4	14.3	6.8%	0.6%
Saudi Arabia	44.8	48.3	51.0	54.1	59.1	62.6	6.1%	2.5%
United Arab Emirates	28.3	29.1	32.8	34.1	36.2	36.4	0.8%	1.5%
Other Middle East	19.9	20.5	21.2	21.5	22.8	24.3	7.1%	1.0%
Total Middle East	**166.9**	**178.6**	**193.6**	**203.4**	**218.1**	**225.9**	**3.9%**	**9.1%**
Algeria	17.9	18.5	18.2	19.3	19.8	21.7	9.8%	0.9%
Egypt	16.5	19.3	20.4	22.1	23.6	23.0	-2.6%	0.9%
South Africa	-	-	-	-	-	-	-	-
Other Africa	15.3	15.4	15.5	17.2	18.3	19.4	6.3%	0.8%
Total Africa	**49.6**	**53.2**	**54.1**	**58.6**	**61.8**	**64.1**	**4.0%**	**2.6%**
Australia	21.5	22.1	22.7	23.5	22.8	23.1	1.6%	0.9%
Bangladesh	9.0	9.7	10.3	11.1	12.0	12.8	7.1%	0.5%
China	21.5	24.1	25.7	29.9	35.1	42.3	20.8%	1.7%
China Hong Kong SAR	2.2	2.2	2.1	1.4	2.0	1.9	-1.3%	0.1%
India	24.2	24.5	25.9	26.9	29.5	33.0	12.2%	1.3%
Indonesia	29.1	30.1	31.1	30.1	33.2	35.5	7.2%	1.4%
Japan	67.4	68.9	67.7	74.3	70.9	73.0	3.3%	2.9%
Malaysia	21.9	23.2	24.1	28.6	30.5	31.4	3.4%	1.3%
New Zealand	4.9	5.2	4.9	3.7	3.3	3.2	-3.3%	0.1%
Pakistan	17.0	17.8	18.5	20.8	24.2	26.9	11.5%	1.1%
Philippines	^	0.1	1.6	2.4	2.1	2.7	27.6%	0.1%
Singapore	1.6	4.1	4.4	4.8	5.9	5.9	-1.2%	0.2%
South Korea	18.9	20.8	23.1	24.2	28.4	30.0	6.1%	1.2%
Taiwan	6.1	6.7	7.7	7.8	9.2	9.6	5.1%	0.4%
Thailand	17.3	20.0	21.6	23.7	24.6	26.9	9.5%	1.1%
Other Asia Pacific	4.6	4.7	4.8	5.1	7.0	8.0	14.4%	0.3%
Total Asia Pacific	**267.0**	**284.2**	**296.1**	**318.4**	**340.6**	**366.2**	**7.8%**	**14.8%**
TOTAL WORLD	**2191.9**	**2214.7**	**2286.0**	**2341.7**	**2425.2**	**2474.7**	**2.3%**	**100.0%**
Of which European Union 25#	377.9	387.2	387.8	405.1	417.0	424.1	2.0%	17.1%
OECD	1216.4	1205.9	1233.3	1253.2	1270.4	1275.1	0.7%	51.5%
Former Soviet Union	496.7	497.6	513.3	514.2	529.3	536.3	1.6%	21.7%
Other EMEs	478.8	511.2	539.5	574.3	625.6	663.2	6.3%	26.8%

^ Less than 0.05 • Less than 0.05%

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

Notes: Annual changes and shares of total are based on data expressed in tonnes oil equivalent

Growth rates are adjusted for leap years

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

Source: BP Statistical Review of World Energy, 2006

XIV.6 PRODUCTIVITY OF PRODUCING WELLS IN OPEC COUNTRIES DURING 2005

Country	Average Depth (Feet)	Wells			Av-daily Production ('000' bbl)	t/w/d
		Flowing	Artificial Lift	Total		
1	2	3	4	5	6	7
Algeria	10635	1112	366	1478	1352.0	124.8
Indonesia	3256	1149	6609	7758	1059.3	18.6
I.R.Iran	7541	1450	-	1450	4091.5	385.0
Iraq	3400	604	43	652	1912.7	na
Kuwait	8024	1048	-	1048	2573.4	335.0
Sp.Libya A.J.	7372	951	634	1585	1693.2	145.7
Nigeria	9007	2080	740	2820	2365.9	114.5
Qatar	11564	340	206	546	765.9	191.4
Suadi Arabia	8090	1795	128	1923	9353.3	663.6
U.A.E	8986	1174	401	1575	2378	206.0
Venezuela	6338	625	13271	13896	3128.0	30.7
Total OPEC	**7274**	**10073**	**22790**	**34752**	**30673.3**	120.4
Total World	**5294**	**48890**	**703493**	**752383**	**71762.9**	13.0

t/w/d = tonne/well/day
na = not available
- = negligible
Source : OPEC Annual Statistical Bulletin, 2005.

XIV.7 WORLD OIL REFINING CAPACITY AT END 2000 - 2005

(Thousand barrels daily *)

Region/Country	2000	2001	2002	2003	2004	2005	Change 2005 over2004	2005 share of total
USA	16595	16785	16757	16894	17125	17335	1.2%	20.2%
Canada	1861	1917	1923	1959	1915	1927	0.6%	2.2%
Mexico	1481	1481	1463	1463	1463	1463	-	1.7%
Total North America	19937	20183	20143	20316	20503	20725	1.1%	24.2%
Argentina	626	614	611	611	611	611	-	0.7%
Brazil	1863	1823	1868	1940	1940	1940	-	2.3%
Neth. Antilles & Aruba	545	545	545	545	545	570	4.6%	0.7%
Venezuela	1280	1277	1277	1277	1277	1357	6.3%	1.6%
Other S. & Cent. America	2230	2219	2266	2240	2254	2285	1.4%	2.7%
Total S. &. Cent. America	6544	6478	6567	6613	6627	6763	2.1%	7.9%
Belgium	770	785	803	805	782	778	-0.5%	0.9%
France	1984	1961	1987	1967	1977	1978	0.1%	2.3%
Germany	2262	2274	2286	2304	2314	2322	0.3%	2.7%
Greece	403	412	412	412	412	412	-	0.5%
Italy	2294	2294	2294	2294	2294	2294	-	2.7%
Netherlands	1212	1233	1237	1237	1239	1242	0.2%	1.4%
Norway	318	307	310	310	310	310	-	0.4%
Russian Federation	5351	5304	5372	5407	5412	5412	-	6.3%
Spain	1247	1247	1333	1333	1358	1363	0.4%	1.6%
Sweden	421	422	422	422	421	422	0.2%	0.5%
Turkey	713	713	713	713	693	613	-11.5%	0.7%
United Kingdom	1778	1769	1785	1813	1843	1848	0.3%	2.2%
Other Europe and Eurasia	5890	5901	5975	6038	6015	6036	0.3%	7.0%
Total Europe and Eurasia	24643	24622	24929	25055	25070	25030	-0.2%	29.2%
Iran	1574	1574	1574	1584	1624	1684	3.7%	2.0%
Iraq	639	644	644	644	644	644	-	0.8%
Kuwait	690	745	770	905	905	915	1.1%	1.1%
Saudi Arabia	1846	1861	1861	1911	2061	2061	-	2.4%
United Arab Emirates	440	674	711	645	620	620	-	0.7%
Other Middle East	1173	1164	1254	1255	1255	1255	-	1.5%
Total Middle East	6362	6662	6814	6944	7109	7179	1.0%	8.4%
Total Africa	3034	3217	3294	3313	3311	3311	-	3.9%
Australasia	924	916	933	860	867	813	-6.2%	0.9%
China	5407	5643	5479	5487	6289	6587	4.7%	7.7%
India	2219	2261	2289	2333	2513	2558	1.8%	3.0%
Indonesia	1126	1126	1091	1056	1056	1056	-	1.2%
Japan	5010	4705	4728	4645	4531	4531	-	5.3%
Singapore	1255	1255	1255	1255	1255	1255	-	1.5%
South Korea	2598	2598	2598	2598	2598	2598	-	3.0%
Taiwan	732	874	1159	1159	1159	1159	-	1.4%
Thailand	872	872	874	860	876	876	-	1.0%
Other Asia Pacific	1292	1386	1351	1313	1259	1261	0.2%	1.5%
Total Asia Pacific	21435	21636	21757	21566	22403	22694	1.3%	26.5%
TOTAL WORLD	**81955**	**82798**	**83504**	**83807**	**85023**	**85702**	**0.8%**	**100.0%**
Of which: European Union 25 +	14498	14533	14810	14831	14861	14901	0.3%	17.4%
OECD	43933	43900	44180	44218	44328	44463	0.3%	51.9%
Former Soviet Union	8177	8097	8164	8199	8204	8204	-	9.6%
Other EMEs	29845	30801	31160	31390	32491	33035	1.7%	38.5%

* Atmospheric distillation capacity on a calendar-day basis

\+ excludes Slovenia and Lithuania prior to 1992

Note: For the purposes of this table, annual changes and shares of total are calculated using thousand barrels daily figures.

Source: BP Statistical Review of World Energy, 2006

XIV.8 WORLD REFINERY CRUDE THROUGHPUT 2000 - 2005

(Thousand barrels daily)

	2000	2001	2002	2003	2004	2005	Change 2005 over 2004	2005 share of total
USA	15067	15128	14947	15304	15475	15204	-1.8%	20.5%
Canada	1765	1812	1862	1880	1958	1901	-2.9%	2.6%
Mexico	1364	1398	1387	1436	1438	1414	-1.7%	1.9%
S. & Cent. America	5337	5330	4939	4963	5423	5502	1.5%	7.4%
Europe & Eurasia	19346	19514	19524	20034	20489	20821	1.6%	28.1%
Middle East	5430	5646	5695	5867	5790	5958	2.9%	8.1%
Africa	2233	2463	2251	2200	2286	2424	6.0%	3.3%
Australasia	851	847	855	823	820	752	-8.3%	1.0%
China	4218	4215	4395	4823	5382	5748	6.8%	7.8%
Japan	4145	4107	3986	4118	4037	4136	2.5%	5.6%
Other Asia Pacific	8914	9053	8827	9300	9957	10139	1.8%	13.7%
TOTAL WORLD	**68670**	**69513**	**68668**	**70748**	**73055**	**73999**	**1.3%**	**100.0%**
Of which: European Union 25 +	13398	13407	13192	13475	13766	13770	•	18.6%
OECD	39801	39822	39131	39950	40494	40280	-0.5%	54.4%
Former Soviet Union	4583	4797	5060	5277	5435	5711	5.1%	7.7%
Other EMEs	24286	24894	24477	25521	27126	28008	3.3%	37.8%

+ Excludes Slovenia and Lithuania prior to 1992

• Less than 0.05%

Note: For the purposes of this table, annual changes and shares of total are calculated using thousand barrels daily figures.

Source: BP Statistical Review of World Energy, 2006

XIV.9 COUNTRY-WISE WORLD OIL CONSUMPTION* 2000 - 2005

(Million tonnes)

Region/country	2000	2001	2002	2003	2004	2005	Change 2005 over 2004	2005 share of total
USA	897.6	896.1	897.4	912.3	948.8	944.6	-0.2%	24.6%
Canada	88.1	90.5	92.2	95.9	100.6	100.1	-0.2%	2.6%
Mexico	85.7	85.0	81.5	83.7	85.2	87.8	3.3%	2.3%
Total North America	**1071.4**	**1071.6**	**1071.1**	**1091.8**	**1134.6**	**1132.6**	**0.1%**	**29.5%**
Argentina	20.3	19.1	17.1	17.6	18.7	20.1	7.6%	0.5%
Brazil	85.8	87.5	85.5	82.0	81.9	83.6	2.4%	2.2%
Chile	10.8	10.5	10.4	10.5	11.3	11.9	5.5%	0.3%
Colombia	10.5	11.1	10.0	10.0	10.1	10.4	3.7%	0.3%
Ecuador	5.8	5.9	5.9	6.2	6.4	6.6	2.7%	0.2%
Peru	7.4	7.0	6.9	6.5	7.2	6.4	-9.6%	0.2%
Venezuela	22.5	24.8	27.0	22.0	24.2	25.4	5.3%	0.7%
Other S. & Cent. America	55.2	55.6	56.1	57.2	58.1	58.8	1.6%	1.5%
Total S. & Cent. America	**218.2**	**221.5**	**219.0**	**212.0**	**217.9**	**223.3**	**2.8%**	**5.8%**
Austria	11.8	12.8	13.0	14.1	13.8	14.2	3.4%	0.4%
Azerbaijan	6.3	4.0	3.7	4.3	4.6	5.1	11.3%	0.1%
Belarus	7.0	7.3	7.1	7.4	7.5	6.7	-10.4%	0.2%
Belgium & Luxembourg	33.9	32.2	33.5	36.4	38.4	39.5	3.1%	1.0%
Bulgaria	3.9	4.0	4.1	4.5	4.7	5.0	6.7%	0.1%
Czech Republic	7.9	8.3	8.2	8.7	9.5	9.9	4.1%	0.3%
Denmark	10.4	9.8	9.6	9.2	9.1	9.1	0.2%	0.2%
Finland	10.7	10.5	10.9	11.4	10.6	11.0	4.2%	0.3%
France	94.9	95.5	92.9	93.1	94.0	93.1	-0.7%	2.4%
Germany	129.8	131.6	127.4	125.1	124.0	121.5	-1.7%	3.2%
Greece	19.9	20.1	20.2	19.6	21.3	20.9	-1.5%	0.5%
Hungary	6.8	6.7	6.4	6.1	6.3	7.0	10.6%	0.2%
Iceland	0.9	0.9	0.9	0.9	1.0	0.9	-2.4%	*
Republic of Ireland	8.2	9.0	8.8	8.5	8.9	9.4	5.4%	0.2%
Italy	93.5	92.8	92.9	92.1	89.7	86.3	-3.5%	2.2%
Kazakhstan	7.4	8.9	9.3	8.8	9.0	10.0	11.4%	0.3%
Lithuania	2.4	2.7	2.5	2.4	2.6	2.7	4.0%	0.1%
Netherlands	41.7	43.7	43.8	44.1	46.2	49.6	7.7%	1.3%
Norway	9.4	9.7	9.4	9.9	9.6	9.8	1.8%	0.3%
Poland	20.0	19.2	19.4	19.9	21.1	21.9	4.1%	0.6%
Portugal	15.5	15.8	16.2	15.2	15.4	15.3	-0.5%	0.4%
Romania	10.0	10.6	10.6	9.4	10.9	11.3	4.5%	0.3%
Russian Federation	123.5	122.3	123.5	124.7	128.5	130.0	1.4%	3.4%
Slovakia	3.4	3.2	3.5	3.3	3.2	3.5	9.6%	0.1%
Spain	70.0	72.7	73.8	75.5	77.6	78.8	1.7%	2.1%
Sweden	15.2	15.2	15.2	15.9	15.3	15.1	-1.2%	0.4%
Switzerland	12.2	13.1	12.4	12.1	12.0	12.2	2.1%	0.3%
Turkey	31.1	29.9	30.6	31.2	32.0	30.0	-5.9%	0.8%
Turkmenistan	3.6	3.7	3.8	4.2	4.6	4.9	6.8%	0.1%
Ukraine	12.0	12.7	13.1	13.5	13.9	13.9	0.4%	0.4%

Contd.....

XIV.9 COUNTRY-WISE WORLD OIL CONSUMPTION* 2000 - 2005

(Million tonnes)

Region/country	2000	2001	2002	2003	2004	2005	Change 2005 over 2004	2005 share of total
United Kingdom	78.6	78.4	78.0	79.0	81.7	82.9	1.7%	2.2%
Uzbekistan	6.7	6.5	6.3	7.2	7.5	7.8	4.3%	0.2%
Other Europe & Eurasia	19.4	20.6	21.8	22.9	23.3	24.3	4.4%	0.6%
Total Europe & Eurasia	**927.9**	**934.3**	**933.0**	**940.8**	**957.6**	**963.3**	**0.9%**	**25.1%**
Iran	63.5	63.5	67.9	71.8	74.6	78.4	5.4%	2.0%
Kuwait	10.4	10.5	11.4	12.2	13.7	14.4	5.2%	0.4%
Qatar	1.7	2.1	3.2	3.0	3.3	3.8	17.1%	0.1%
Saudi Arabia	71.6	71.9	72.7	77.7	83.7	87.2	4.5%	2.3%
United Arab Emirates	12.8	14.6	15.9	16.3	17.4	18.3	5.5%	0.5%
Other Middle East	66.9	68.7	68.9	67.4	68.1	69.2	1.9%	1.8%
Total Middle East	**226.9**	**231.4**	**239.9**	**248.3**	**260.7**	**271.3**	**4.4%**	**7.1%**
Algeria	8.5	8.8	9.7	10.1	10.6	11.2	6.0%	0.3%
Egypt	27.2	26.1	25.2	25.9	26.8	29.2	9.3%	0.8%
South Africa	22.5	23.0	23.6	24.2	24.8	24.9	0.6%	0.6%
Other Africa	57.9	58.3	58.9	59.8	61.9	64.0	3.6%	1.7%
Total Africa	**116.2**	**116.2**	**117.5**	**120.1**	**124.2**	**129.3**	**4.4%**	**3.4%**
Australia	37.7	38.1	38.0	38.3	38.8	39.7	2.7%	1.0%
Bangladesh	3.2	3.9	3.9	3.8	3.9	4.0	2.8%	0.1%
China	223.6	227.9	247.4	271.7	318.9	327.3	2.9%	8.5%
China Hong Kong SAR	9.7	11.7	12.9	13.0	15.3	13.8	-9.6%	0.4%
India	106.1	107.0	111.3	113.1	120.2	115.7	-3.5%	3.0%
Indonesia	50.2	51.9	53.1	53.9	54.7	55.3	1.4%	1.4%
Japan	255.5	247.5	243.6	248.9	241.4	244.2	1.4%	6.4%
Malaysia	20.4	20.6	22.5	22.2	22.8	22.0	-3.3%	0.6%
New Zealand	6.2	6.3	6.5	6.9	7.0	7.0	1.1%	0.2%
Pakistan	18.8	18.3	17.9	15.8	16.0	17.4	8.8%	0.5%
Philippines	16.6	16.5	15.6	15.5	15.8	14.7	-6.9%	0.4%
Singapore	33.5	36.4	35.5	33.9	38.1	42.2	11.0%	1.1%
South Korea	103.2	103.1	104.7	105.6	104.9	105.5	0.8%	2.7%
Taiwan	39.8	39.2	40.1	41.1	41.7	41.6	0.2%	1.1%
Thailand	34.8	33.1	36.4	40.0	44.0	45.6	4.0%	1.2%
Other Asia Pacific	17.5	18.4	19.4	19.0	20.3	21.1	4.3%	0.5%
Total Asia Pacific	**976.7**	**980.0**	**1008.5**	**1042.6**	**1103.6**	**1116.9**	**1.5%**	**29.1%**
TOTAL WORLD	**3537.2**	**3554.9**	**3589.0**	**3655.6**	**3798.6**	**3836.8**	**1.3%**	**100.0%**
Of which European Union 25#	682.6	688.4	684.6	688.2	697.3	700.4	0.7%	18.3%
OECD	2199.8	2197.6	2190.9	2223.0	2267.3	2270.7	0.4%	59.2%
Former Soviet Union	173.2	172.6	174.1	177.3	183.2	186.3	1.9%	4.9%
Other EMEs	1164.2	1184.7	1224.0	1255.3	1348.1	1379.9	2.6%	36.0%

* Inland demand plus international aviation and marine bunkers and refinery fuel and loss ◆ Less than 0.05%

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

Notes: Growth rates are adjusted for leap years

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: BP Statistical Review of World Energy, 2006

XIV.10 PRODUCT-WISE REGIONAL CONSUMPTION OF MAIN PETROLEUM PRODUCTS DURING 2000 - 2005

(Thousand barrels daily)

Region/Country	2000	2001	2002	2003	2004	2005	Change 2005 over 2004	2005 share of total
North America								
Light distillates	10106	10211	10523	10675	10979	10970	-0.1%	44.1%
Middle distillates	6811	6812	6655	6861	7133	7188	0.8%	28.9%
Fuel oil	1518	1411	1209	1271	1340	1390	3.7%	5.6%
Others	5086	5137	5278	5243	5425	5326	-1.8%	21.4%
Total North America	**23522**	**23571**	**23665**	**24050**	**24877**	**24875**	**.**	**100.0%**
of which: USA								
Light distillates	8813	8890	9167	9275	9518	9495	-0.2%	46.0%
Middle distillates	5852	5884	5735	5886	6116	6137	0.3%	29.7%
Fuel oil	893	794	686	763	859	907	5.7%	4.4%
Others	4143	4082	4172	4109	4239	4116	-2.9%	19.9%
Total USA	**19701**	**19649**	**19761**	**20033**	**20732**	**20665**	**-0.4%**	**100.0%**
S. & Cent. America								
Light distillates	1274	1256	1233	1215	1184	1227	3.7%	25.7%
Middle distillates	1681	1722	1719	1723	1825	1872	2.6%	39.2%
Fuel oil	788	751	732	690	691	704	1.9%	14.7%
Others	918	1011	1003	909	947	973	2.8%	20.4%
Total S. & Cent. America	**4661**	**4739**	**4688**	**4537**	**4647**	**4776**	**2.8%**	**100.0%**
Europe								
Light distillates	4194	4085	4026	3923	3870	3758	-2.9%	22.9%
Middle distillates	6734	6991	6935	7138	7360	7572	2.9%	46.1%
Fuel oil	1967	1987	1996	1953	1896	1882	-0.7%	11.5%
Others	3047	3052	3103	3137	3208	3203	-0.2%	19.5%
Total Europe	**16942**	**16116**	**16059**	**16151**	**16334**	**16415**	**0.5%**	**100.0%**
Former Soviet Union								
Light distillates	797	851	882	917	903	923	2.2%	23.4%
Middle distillates	1008	1021	1048	1087	1113	1146	3.0%	29.1%
Fuel oil	765	693	670	670	684	699	2.1%	17.8%
Others	1053	1062	1086	1078	1161	1168	0.6%	29.7%
Total Former Soviet Union	**3623**	**3627**	**3687**	**3752**	**3861**	**3936**	**1.9%**	**100.0%**
Middle East								
Light distillates	909	949	1011	1053	1134	1210	6.6%	21.1%
Middle distillates	1565	1619	1667	1715	1751	1816	3.7%	31.6%
Fuel oil	1312	1326	1335	1338	1415	1473	4.1%	25.7%
Others	948	960	1034	1132	1192	1240	4.1%	21.6%
Total Middle East	**4735**	**4854**	**5047**	**5238**	**5492**	**5739**	**4.6%**	**100.0%**
Africa								
Light distillates	577	587	590	599	613	631	2.8%	22.8%
Middle distillates	1029	1048	1078	1110	1134	1180	4.1%	42.7%
Fuel oil	457	433	415	421	444	477	7.5%	17.3%
Others	395	407	427	438	455	475	4.4%	17.2%
Total Africa	**2458**	**2475**	**2511**	**2568**	**2646**	**2763**	**4.4%**	**100.0%**
Asia Pacific								
Light distillates	5543	5650	5927	6154	6494	6600	1.6%	27.5%
Middle distillates	7765	7916	8050	8171	8650	8810	1.9%	36.8%
Fuel oil	3574	3413	3339	3462	3486	3526	1.1%	14.7%
Others	3956	4019	4327	4571	4956	5021	1.3%	21.0%
Total Asia Pacific	**20839**	**20998**	**21644**	**22359**	**23586**	**23957**	**1.6%**	**100.0%**

Contd....

XIV.10 PRODUCT-WISE REGIONAL CONSUMPTION OF MAIN PETROLEUM PRODUCTS DURING 2000 - 2005

(Thousand barrels daily)

Region/Country	2000	2001	2002	2003	2004	2005	Change 2005 over 2004	2005 share of total
of which: China								
Light distillates	1270	1256	1352	1489	1673	1749	4.6%	25.0%
Middle distillates	1590	1669	1791	1945	2285	2425	6.1%	34.7%
Fuel oil	775	780	792	880	956	899	-6.0%	12.9%
Others	1136	1167	1352	1489	1858	1915	3.0%	27.4%
Total China	**4772**	**4872**	**5288**	**5803**	**6772**	**6988**	**3.2%**	**100.0%**
of which: Japan								
Light distillates	1735	1720	1759	1788	1793	1819	1.5%	33.9%
Middle distillates	1958	1957	1930	1904	1861	1880	1.0%	35.1%
Fuel oil	804	690	649	770	672	698	3.9%	13.0%
Others	1079	1067	1021	993	960	962	0.3%	18.0%
Total Japan	**5577**	**5435**	**5359**	**5455**	**5286**	**5360**	**1.4%**	**100.0%**
World								
Light distillates	23400	23588	24192	24536	25178	25319	0.6%	30.7%
Middle distillates	26593	27130	27153	27804	28966	29584	2.1%	35.9%
Fuel oil	10381	10014	9696	9807	9956	10150	2.0%	12.3%
Others	15405	15648	16239	16508	17344	17406	0.4%	21.1%
TOTAL WORLD	**75779**	**76379**	**77280**	**78655**	**81444**	**82459**	**1.2%**	**100.0%**
European Union 25								
Light distillates	3858	3757	3688	3599	3525	3428	-2.8%	23.2%
Middle distillates	6146	6373	6316	6495	6687	6859	2.6%	46.4%
Fuel oil	1720	1724	1740	1700	1668	1689	1.2%	11.4%
Others	2678	2698	2728	2753	2806	2797	-0.3%	19.0%
Total European Union 25 *	**14402**	**14553**	**14471**	**14546**	**14687**	**14772**	**0.6%**	**100.0%**
OECD								
Light distillates	17069	17064	17391	17502	17759	17684	-0.4%	35.9%
Middle distillates	16279	16530	16296	16682	17109	17388	1.6%	35.3%
Fuel oil	4642	4416	4175	4309	4218	4266	1.1%	8.7%
Others	9656	9694	9826	9796	9995	9916	-0.8%	20.1%
Total OECD	**47646**	**47704**	**47687**	**48289**	**49082**	**49254**	**0.4%**	**100.0%**
Other EMEs								
Gasolines	5534	5674	5919	6117	6516	6712	3.0%	22.9%
Middle distillates	9306	9578	9809	10035	10744	11050	2.8%	37.8%
Fuel oil	4975	4904	4852	4828	5053	5185	2.6%	17.7%
Others	4696	4891	5347	5634	6188	6323	2.2%	21.6%
Total Other EMEs £	**24511**	**25048**	**25926**	**26614**	**28501**	**29270**	**2.7%**	**100.0%**

* Excludes Estonia, Latvia, Lithuania prior to 1992 and Slovenia prior to 1991

£ Excludes Former Soviet Union

Notes: For the purposes of this table, 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, LPGs, solvents, petroleum coke, lubricants, bitumen, wax, other refined products and refinery fuel and loss

Source: BP Statistical Review of World Energy, 2006

XIV.11 WORLD OIL PRODUCTION, CONSUMPTION AND RELATIVE DEFICIT/SURPLUS IN EACH COUNTRY/REGION DURING 2004 AND 2005

(Million Tonnes)

Country/Region	2004				2005*			
	Production	Consumption	Deficit/ Surplus	% extent of dependence	Production	Consumption	Deficit/ Surplus	% extent of dependence
North America	667.4	1134.6	-467.2	-41.2	642.5	1132.6	-490.1	-43.3
South & Central America	341.3	217.9	123.4	56.6	350.6	223.3	127.3	57.0
Middle East	1187.3	260.7	926.6	355.4	1208.1	271.3	936.8	345.3
Africa	441	124.2	316.8	255.1	467.1	129.3	337.8	261.3
Asia Pacific	378.1	1103.6	-725.5	-65.7	381.7	1116.9	-735.2	-65.8
of which India	37.9	120.2	-82.3	-68.5	36.2	115.7	-79.5	-68.7
Japan	NA	241.4	NA	NA	NA	244.2	NA	NA
China	174.1	318.9	-144.8	-45.4	180.8	327.3	-146.5	-44.8
Australia	23.0	38.8	-15.8	-40.7	23.3	39.7	-16.4	-41.3
OECD	976.0	2267.3	-1291.3	-57.0	927.7	2270.7	-1343.0	-59.1
Europe & Eurasia	850.2	957.6	-107.4	-11.2	845.0	963.3	-118.3	-12.3
Former Soviet Union	558.6	183.2	375.4	204.9	577.4	186.3	391.1	209.9
Total World	**3865.3**	**3798.8**	66.5	1.8	**3895.0**	**3836.8**	58.2	1.5

* Provisional

Source : BP Statistical Review of World Energy, June 2006

NA: Not Available

XIV.12 WORLD CRUDE OIL AND PETROLEM PRODUCTS IMPORTS AND EXPORTS 2005

Region/Country	Imports		Exports		Imports		Exports	
	Crude	Product	Crude	Product	Crude	Product	Crude	Product
	(Million Tonnes)				(Thousand barrels daily)			
USA	500.7	166.0	1.9	52.2	10055	3470	38	1091
Canada	46.5	13.2	81.8	26.7	934	276	1643	558
Mexico	-	15.7	97.4	5.2	-	328	1956	109
South & Central America	32.7	19.1	109.6	63.5	657	399	2201	1327
Europe	524.7	130.3	38.1	66.2	10537	2724	765	1384
Former Soviet Union	0.0	4.4	267.6	81.4	0	92	5374	1702
Middle East	10.2	6.4	862.9	119.2	205	134	17329	2492
North Africa	8.9	8.1	122.6	29.1	179	169	2462	608
West Africa	2.9	8.9	208.7	8.0	58	186	4191	167
East & Southern Africa	27.3	5.6	12.4	0.8	548	117	249	17
Australasia	24.3	11.2	7.2	3.7	488	234	145	77
China	127.1	39.8	6.7	14.0	2552	832	135	293
Japan	210.4	47.8	-	5.1	4225	999	-	107
Other Asia Pacific	369.5	99.8	46.3	66.4	7420	2086	930	1388
Unidentified *	-	-	22.0	34.8	-	-	442	727
TOTAL WORLD	**1885.2**	**576.3**	**1885.2**	**576.3**	**37859**	**12047**	**37859**	**12047**

* 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

Source: B.P.Statistical Review of World Energy, 2006

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

(1,000 bbl/day)

Country	1999	2000	2001	2002	2003	2004	2005*
Crude Oil							
Algeria	414.6	461.1	441.5	566.2	741.0	893.2	970.3
Indonesia	781.9	622.5	599.2	639.9	433.0	412.7	374.4
I.R. Iran	2,291.0	2,492.2	2,184.6	2,093.6	2,396.3	2,684.1	2,394.5
Iraq	2,130.9	2,039.8	1,710.2	1,494.6	388.6	1,450.0	1472.2
Kuwait	948.2	1,230.7	1,214.1	1,138.0	1,242.9	1,414.9	1,660.8
S.P.Libyan AJ	991.7	1,005.0	987.6	983.6	1,126.5	1,284.5	1,306.3
Nigeria	1,705.1	1,986.4	2,089.4	1,798.2	2,163.5	2,356.0	2,326.0
Qatar	580.5	617.6	605.5	580.8	540.7	542.7	677.3
Saudi Arabia	5,719.7	6,253.1	6,035.9	5,284.6	6,522.9	6,813.1	7,208.9
UAE	1,919.0	1,814.9	1,786.7	1,614.0	2,048.0	2,172.0	2,195.0
Venezuela	1,923.0	2,003.5	1,964.7	1,572.0	1,535.0	1,566.2	2,197.8
O P E C	**19,405.5**	**20,526.7**	**19,619.4**	**17,735.6**	**19,138.4**	**21,589.3**	**22,783.5**
Refined Petroleum Products							
Algeria	599.7	544.3	555.8	527.2	528.3	446.0	464.6
Indonesia	191.9	188.8	196.3	152.4	155.3	143.5	142.3
I.R. Iran	362.9	347.3	307.7	328.0	333.2	339.6	402.1
Iraq	23.0	23.0	25.0	22.5	10.5	11.5	13.5
Kuwait	838.6	674.5	642.3	572.2	623.1	604.2	614.2
S.P.Libyan AJ	201.2	237.0	225.0	221.1	145.4	161.5	162.5
Nigeria	14.1	47.3	65.7	78.2	67.7	66.9	49.3
Qatar	75.3	75.3	78.1	67.3	61.5	64.9	76.8
Saudi Arabia	1,279.7	1,228.1	1,082.6	993.5	1,128.6	1,334.4	1,385.4
UAE	331.0	391.7	398.2	485.5	513.6	503.6	509.0
Venezuela	828.0	779.6	761.1	569.7	485.0	573.8	609.3
O P E C	**4,745.3**	**4,536.8**	**4,337.8**	**4,017.6**	**4,052.2**	**4249.8**	**4428.7**

*: Provisional

Note: Data includes re-exports and exports of petroleum products from gas plants.

Source: OPEC Annual Statistical Bulletin 2005.

XIV.14 CRUDE OIL IMPORTS FROM OPEC MEMBER COUNTRIES BY REGIONS 1994 TO 2005

(Million Tonnes)

IMPORT REGION	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005*
North america	187.6	183.1	185.4	212.0	236.5	221.8	239.5	245.6	212.8	204.6	259.8	242.9
Of which : USA	177.0	171.3	174.0	199.2	222.2	209.0	226.6	229.4	195.5	186.6	236.5	216.9
Latin America	40.7	33.6	40.0	35.2	37.3	41.1	45.6	45.7	37.7	37.9	41.6	44.7
Western Europe	262.3	253.6	252.1	264.3	292.4	248.0	255.1	215.9	195.3	201.4	230.2	246.1
France	44.4	44.0	42.2	42.7	49.9	41.1	39.9	35.7	31.5	34.4	38.3	30.1
Germany	37.1	29.8	28.8	27.3	28.0	23.8	24.8	20.8	18.7	18.3	21.4	21.1
Italy	46.8	49.4	53.8	60.2	64.0	59.2	61.8	51.0	51.3	51.3	56.9	61.1
U.K	11.5	10.1	9.2	6.6	7.3	4.3	3.9	4.1	6.3	5.6	6.4	5.4
Middle East	15.6	15.1	15.6	15.3	15.7	14.6	13.6	13.5	11.9	11.7	16.9	27.7
Africa	14.7	25.2	23.6	26.1	27.9	27.8	31.0	27.8	24.4	32.2	35.1	33.5
Asia and Pacific	358.7	369.9	371.3	380.5	377.8	393.3	413.0	401.1	389.5	436.6	475.7	508.4
Japan	179.2	179.2	177.2	186.5	177.5	175.0	177.9	198.2	190.2	184.1	214.4	294.6
Eastern Europe	8.7	9.8	9.2	11.7	13.8	9.0	10.2	7.6	6.3	7.6	8.1	1.5
Unspecified	-	0.5	2.8	0.3	0.8	10.5	15.4	17.0	4.2	18.2	7.3	25.9
TOTAL WORLD	**897.2**	**900.5**	**910.7**	**955.8**	**1015.2**	**966.2**	**1023.4**	**974.1**	**882.1**	**950.2**	**1074.6**	**1130.7**

Sorce : OPEC Annual Statistical Bulletin, 2005

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

*: Provisional

XIV.15 CRUDE OIL EXPORTS FROM OPEC MEMBER COUNTRIES BY DESTINATION DURING 2005

(1,000 b/d)

Destination/Country	Algeria	Indonesia	IR Iran	Iraq	Kuwait	Libya	Nigeria	Qatar	Saudi Arabia	UAE	Venezuela
1	2	3	4	5	6	7	8	9	10	11	12
North America	390.4	22.4	-	927.6	123	64.7	985.8	-	1454.6	9.0	914.3
Latin America	100.6	-	-	-	-	-	224.3	-	65.2	-	510.8
Eastern Europe	2.7	-	-	-	-	0.3	26.6	-	-	-	-
Western Europe	435.1	-	1061.2	393.6	111.8	1135.6	498.3	-	1207.3	5	109.9
Middle East	-	-	211.7	37.3	-	-	-	-	309.2	-	-
Africa	-	-	-	-	35.0	24	209.2	130.3	235.7	41.0	-
Asia and Pasific	41.5	352	1121.6	113.8	1381.1	81.7	381.8	547.1	3936.9	2140.0	142.2
Unspecified	-	-	-	-	-	-	-	-	-	-	520.7
TOTAL WORLD	**970.3**	**374.4**	**2394.5**	**1472.2**	**1650.8**	**1306.3**	**2326.0**	**677.3**	**7208.9**	**2195.0**	**2197.8**

Source : OPEC Annual Statistical Bulletin, 2005

- = Nil or Negligible

XIV.16 VALUE OF PETROLEUM EXPORTS FROM OPEC COUNTRIES DURING 1994 TO 2005

(Billion US $)

Countries	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003*	2004*	2005*
1	2	3	4	5	6	7	8	9	10	11	12	13
Algeria	6.36	6.90	9.16	8.35	5.69	7.55	12.92	13.29	12.37	16.48	23.05	32.68
Indonesia	6.00	6.44	7.87	7.24	4.60	6.58	7.74	6.90	6.54	7.18	7.62	9.25
I.R.Iran	14.80	14.94	17.96	17.66	11.10	16.09	25.44	21.42	19.22	26.12	34.29	48.29
Iraq	0.42	0.46	0.68	4.28	5.11	12.10	18.15	12.68	12.59	7.52	17.75	23.40
Kuwait	10.48	12.05	14.09	13.46	8.96	10.99	19.20	15.91	14.06	19.01	20.68	42.58
Sp.Libya A.J.	7.17	7.76	9.54	8.90	5.61	7.73	13.25	10.87	10.48	13.57	18.65	28.32
Nigeria	11.04	11.51	14.88	15.84	9.84	12.45	20.04	17.19	17.08	22.18	33.31	46.77
Qatar	2.62	2.98	3.80	4.65	3.17	4.77	7.83	6.96	6.89	8.81	11.69	18.63
Suadi Arabia	38.12	42.50	50.04	52.12	33.39	44.93	74.59	65.21	63.81	82.27	110.90	164.71
U.A.E	11.68	12.82	14.98	15.26	11.13	15.02	26.15	22.41	21.77	25.15	38.10	49.70
Venezuela	11.47	13.73	18.52	18.18	11.51	16.46	25.60	20.18	20.94	18.76	31.92	48.06
Total OPEC	**120.16**	**132.09**	**161.52**	**165.94**	**110.14**	**154.71**	**254.10**	**215.07**	**207.80**	**249.55**	**353.95**	**512.6**

Source : OPEC Annual Statistical Bulletin, 2005.
*: Provisional

XIV.17 SPOT PRICES OF KEY OPEC CRUDES SINCE 1990

(US $/bbl)

Period	Country/Crude Name												
	Kuwait	Libya	Nigeria	Qatar	Saudi Arabia		UAE	Indonesia	I.R.Iran		Iraq		Oman
	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	13.53	11.97	11.45	10.77	10.79	12.06
1999	16.75	18.08	17.93	17.65	16.95	16.44	17.89	17.94	17.25	16.93	16.28	16.43	17.27
2000	25.78	28.65	28.40	26.95	25.99	25.24	27.75	29.54	26.75	26.02	24.92	25.17	26.50
2001	21.37	24.70	24.24	23.74	22.60	21.90	24.02	26.30	22.90	21.67	20.00	20.07	22.75
2002	23.61	24.96	25.05	24.36	14.88	23.38	24.87	25.38	23.52	23.09	23.32	22.63	23.94
2003	26.89	29.00	28.65	27.52	na	26.43	28.29	29.58	26.89	26.33	26.60	27.22	27.13
2004	34.08	38.35	38.1	36.05	na	31.14	36.65	40.87	34.60	33.06	34.60	na	34.35
2005	48.66	54.22	55.6	53.46	na	45.28	54.09	57.26	50.66	47.99	48.33	na	50.48
2005													
Jan	38.55	41.75	44.01	38.44	na	33.41	42.08	45.81	39.87	37.51	38.58	na	39.04
Feb	40.09	41.96	45.43	40.12	na	35.62	43.53	49.06	40.56	38.49	40.01	na	40.54
Mar	46.42	49.71	53.15	46.53	na	41.81	49.90	55.19	48.50	46.50	46.21	na	46.95
Apr	47.89	49.67	53.18	48.23	na	43.33	52.35	57.26	48.42	46.06	45.74	na	48.22
May	46.36	47.90	50.23	46.66	na	42.21	51.03	51.03	45.53	43.25	44.57	na	46.70
Jun	51.15	53.16	55.93	52.27	na	48.34	55.16	56.12	52.37	49.60	50.59	na	52.20
Jul	51.31	55.71	58.40	53.57	na	48.83	57.05	59.56	53.86	51.07	52.24	na	53.42
Aug	55.18	60.27	65.49	57.49	na	52.02	61.78	66.22	60.41	55.69	57.10	na	57.46
Sep	54.60	60.39	65.60	58.37	na	51.57	62.69	67.19	58.74	55.10	55.68	na	58.24
Oct	51.76	58.25	60.74	55.80	na	49.03	59.30	62.69	54.38	51.73	51.39	na	55.52
Nov	49.19	54.92	57.18	53.17	na	47.40	56.13	57.49	51.31	49.28	48.07	na	52.78
Dec	50.83	57.14	57.91	54.72	na	49.16	57.47	59.32	53.20	50.88	49.15	na	54.21

Notes : Prices are average of weakly fob quotations. Brent prices reflect dated delivery. na: Not Available

Source : OPEC Annual Statistical Bulletin, 2005.

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

(Average Unit Value, FOB)

Crude	Country	1997	1998	1999	2000	2001	2002	2003	2004	2005*
Brent	U.K	19.12	12.76	17.85	28.37	24.46	24.98	28.84	38.22	54.38
WTI	U.S.A	20.62	14.40	19.25	30.30	25.89	26.09	31.11	41.42	56.46
WTS	U.S.A	18.81	12.84	17.95	28.29	23.17	24.65	28.36	37.45	51.85
Louisiana Light	Louisiana	20.73	14.20	19.03	30.45	25.95	26.14	31.20	41.47	56.86
Dubai	UAE	18.15	12.18	17.20	26.15	22.81	23.80	26.79	33.63	49.30
Iranian Light	Iran	17.78	11.27	16.57	26.64	22.61	23.48	26.90	34.58	50.53
Iranian Heavy	Iran	17.32	10.82	16.13	26.05	22.08	23.05	26.35	33.01	48.15
Urals	Russia	18.33	11.83	17.18	26.97	23.12	23.76	27.07	34.09	50.19
Minas	Indonesia	19.30	12.36	17.79	28.75	24.06	25.54	29.55	36.86	53.90
Tapis	Malaysia	21.00	13.84	18.84	29.74	25.33	25.64	30.10	41.12	57.74

*: Provisional

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

(Average Unit Value, FOB)

Product	1997	1998	1999	2000	2001	2002	2003	2004	2005*
NW EUROPE									
Gasoline	23.33	16.76	23.11	34.27	28.91	28.53	34.89	47.27	62.56
Gas Oil	23.39	16.19	20.85	34.28	29.15	27.77	34.00	46.74	67.46
Jet/Kero	24.58	17.16	22.04	36.89	30.82	29.21	35.85	50.19	70.95
Naphtha	21.43	14.64	18.68	28.97	23.73	24.22	29.99	41.43	52.42
LSFO	15.47	11.73	14.75	23.66	19.54	21.74	25.78	25.02	39.03
HSFO	14.59	10.20	14.41	21.33	17.80	20.61	23.33	23.92	36.07
U.S.A									
Gasoline	25.22	17.8	22.71	35.95	30.96	30.25	37.07	49.57	65.39
Gas Oil	23.64	16.43	20.45	36.41	29.78	28.50	35.62	46.87	68.05
Jet/Kero	24.58	18.03	21.74	38.10	31.12	29.76	36.40	50.21	71.78
Naphtha	..	..	..	..	..	..	..	..	..
LSFO	16.91	12.32	15.47	25.03	20.68	22.46	27.52	27.98	41.52
HSFO	15.26	10.25	13.96	20.65	17.35	20.90	24.44	25.07	36.17
SINGAPORE									
Gasoline	24.57	17.19	21.02	32.51	27.50	28.00	34.74	47.19	62.10
Gas Oil	24.28	15.47	19.13	32.44	27.29	27.45	32.41	45.65	64.04
Jet/Kero	24.58	18.03	21.74	34.27	28.31	27.99	33.00	47.43	67.64
Naphtha	21.93	14.84	19.39	28.28	23.78	24.89	30.03	40.73	50.94
LSFO	16.93	10.98	15.50	25.73	21.83	23.74	28.22	32.80	44.83
HSFO	15.10	10.09	15.14	24.12	20.37	22.88	26.28	27.86	40.23

.. = Not Avaialble

Source : Energy Prices and Taxes, 2nd Quarter of 2006. International Energy Agency Publication.

*: Provisional

XIV. 20 NATURAL GAS PRICES FOR INDUSTRY AND HOUSEHOLD USE

US $ 10^7 kcal (GCV Basis)

Country	1998	1999	2000	2001	2002	2003	2004	2005*
			A. FOR INDUSTRIAL USE					
Australia	NA	NA	NA	NA	NA	NA	NA	NA
Austria	154.7	144.6	NA	NA	NA	NA	NA	NA
Belgium	c	c	c	c	c	c	c	c
Canada	70.6	79.4	89.8	108.8	125.3	210.1	223.6	NA
Czech Repubic	159.8	142.8	147.6	155.9	173.6	203.4	217.5	202.5
Finland	138.5	128.0	130.7	126.0	126.9	158.7	170.3	190.2
France	145.5	135.2	167.8	187.1	171.9	229.1	248.3	316.3
Germany	177.7	161.4	187.9	NA	NA	NA	NA	NA
Hungary	144.8	134.9	109.6	123.2	144.0	187.0	256.7	346.6
Ireland	171.5	164.7	114.2	143.5	183.8	232.7	291.7	374.0
Italy	171.3	c	c	c	c	c	c	c
Japan	356.0	385.8	452.7	406.4	357.0	384.9	392.5	NA
Mexico	81.4	88.3	150.0	163.4	122.7	205.3	300.7	357.1
Netherlands	132.9	116.7	166.5	175.6	164.5	222.4	NA	NA
New Zealand	74.6	73.6	59.8	60.0	65.5	106.1	121.9	161.2
Poland	132.0	121.8	133.0	173.3	173.1	175.9	179.4	224.7
Spain	137.8	131.4	175.4	176.0	165.6	204.0	215.6	254.2
Switzerland	238.8	215.0	222.9	296.4	279.2	320.3	352.3	401.9
Turkey	172.1	162.4	175.0	200.5	215.5	228.9	230.3	304.8
U.K	108.7	102.9	104.6	140.4	146.4	164.7	202.6	298.8
U.S.A	119.0	118.7	171.0	198.6	154.4	223.8	252.0	325.0
OECD Europe	150.7	134.9	157.1	NA	NA	NA	NA	NA
OECD	130.0	126.4	166.9	187.3	159.8	222.6	252.4	NA
			A. FOR HOUSEHOLD USE					
Australia	NA	NA	NA	NA	NA	NA	NA	NA
Austria	415.3	393.0	348.4	368.5	379.3	590.6	686.2	729.6
Belgium	409.8	382.7	407.7	NA	NA	NA	NA	NA
Canada	169.8	212.4	199.4	294.1	236.2	339.9	361.4	NA
Czech Republic	177.3	185.1	214.1	233.0	274.8	322.4	352.7	429.2
Denmark	644.9	654.6	735.3	709.2	720.1	895.1	1052.8	1252.6
Finland	169.0	156.1	159.5	221.1	201.6	251.0	269.8	298.1
France	437.1	387.6	347.5	402.7	425.6	521.6	544.3	590.5
Germany	404.8	381.8	373.4	NA	NA	NA	NA	NA
Hungary	202.5	185.0	156.4	150.0	176.1	216.6	325.8	365.4
Ireland	420.2	434.9	345.8	353.0	376.2	503.5	570.0	657.7
Italy	690.7	638.3	c	c	c	c	c	c
Japan	1068.4	1196.4	1294.1	1168.2	1086.4	1195.2	1271.5	NA
Netherlands	393.3	368.9	359.4	401.4	457.1	602.4	682.5	800.4
New Zealand	380.2	379.3	359.1	332.2	338.5	570.5	708.6	836.4
Poland	248.3	244.3	247.5	304.0	336.9	339.9	338.6	443.2
Spain	533.2	480.5	491.4	507.9	496.9	594.2	643.3	684.7
Switzerland	439.6	412.2	411.3	490.5	494.7	562.5	612.9	669.6
Turkey	217.7	225.9	259.3	242.6	254.7	265.3	260.2	362.3
U.K	330.6	321.0	292.8	286.5	317.0	351.8	423.1	481.9
U.S.A	262.2	257.2	321.5	369.1	303.8	365.5	412.4	492.6
OECD Europe	408.2	385.3	329.2	NA	NA	NA	NA	NA
OECD	352.5	346.2	354.0	384.7	352.7	420.7	469.8	NA

NA = Not Available; GCV = Gross Caloific Value; 0.95 tonne of oil is approximatly 10^7 kcol. of Gas

Source = International Energy Agency's "Energy Prices and Taxes" 2nd Quarter of 2006.

c = price is confidential

*: Provisional

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

(Average Unit Value, CIF)

Country	1997	1998	19999	2000	2001	2002	2003	2004	2005*
IEA**	19.11	12.52	17.26	28.00	23.65	24.19	28.38	36.38	50.67
IEA Europe	18.88	12.30	17.32	27.89	23.92	24.27	28.39	36.53	51.74
Australia	21.78	14.60	18.38	30.79	26.61	25.80	31.24	40.93	56.71
Austria	21.31	14.34	17.54	29.39	25.32	24.64	29.59	38.21	53.15
Belgium	18.65	11.97	17.33	27.87	24.20	24.35	27.72	35.35	50.06
Canada	20.59	13.15	17.85	29.10	24.87	24.97	29.53	38.13	52.37
France	18.99	12.43	17.45	28.18	24.13	24.63	28.87	37.61	52.74
Germany	19.01	12.48	17.51	28.09	24.15	24.40	28.44	36.65	52.30
Greece	18.45	11.66	16.64	26.95	23.22	24.08	27.17	34.53	50.33
Italy	18.83	12.21	17.10	27.77	23.87	24.34	28.58	36.60	51.33
Japan	20.55	13.68	17.38	28.72	25.01	24.96	29.26	36.59	51.57
Korea	20.34	13.72	16.91	28.22	24.87	24.12	28.80	36.15	50.19
Netherlands	18.37	11.98	16.97	27.59	23.48	23.99	27.67	35.02	50.00
New Zealand	21.65	14.63	18.16	29.95	26.14	25.89	31.00	41.71	56.07
Spain	18.34	11.80	16.99	27.16	23.32	23.95	28.13	36.03	50.54
Sweden	18.90	12.61	17.68	28.13	24.03	23.86	28.60	36.47	51.78
Turkey	18.79	11.99	16.07	26.61	NA	NA	NA	NA	NA
U.K	19.32	12.64	18.01	28.45	24.45	24.58	29.13	37.75	53.79
U.S.A	18.34	12.02	17.06	27.54	22.07	23.58	27.66	35.86	48.82

** = Computed across all countries of the region using import volumes as current weights.
For reasons as confidentially,data for some countries are not listed seperatly.
Source = International Energy Agency's "Energy Prices and Taxes" 2Nd Quarter of 2006.
* = Provisional

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
2003						
January	29.13	28.08	30.78	29.10	27.78	28.02
February	29.89	30.02	32.33	31.11	29.86	29.94
March	27.94	27.81	30.83	28.98	27.33	27.76
April	22.85	23.78	25.27	24.70	23.50	23.59
May	23.06	24.35	25.78	24.92	24.19	24.31
June	24.43	25.50	27.46	26.15	25.37	25.46
July	26.03	26.70	28.39	27.24	26.68	26.66
August	28.62	27.78	29.79	28.36	27.63	27.66
September	26.66	25.78	27.47	26.41	24.92	25.52
October	28.79	27.67	29.59	28.26	26.87	27.42
November	27.64	27.76	28.93	28.63	26.88	27.62
December	28.55	28.25	29.64	29.20	27.10	28.06
2004						
January	29.31	29.16	30.94	29.83	27.49	28.93
February	28.00	28.61	30.47	29.18	26.93	28.49
March	30.78	30.97	33.34	31.62	29.42	30.77
April	30.41	31.75	33.74	32.48	30.31	31.69
May	34.97	34.78	37.87	35.63	33.07	34.65
June	32.67	33.83	35.60	34.70	32.00	33.58
July	35.42	34.98	38.08	35.55	32.75	34.70
August	38.40	38.44	42.55	38.93	35.41	38.22
September	38.77	36.12	43.56	36.58	32.38	35.52
October	43.59	38.81	49.91	39.00	33.79	37.61
November	37.81	35.87	43.60	35.56	30.17	34.87
December	34.77	34.91	39.08	34.64	29.34	34.16
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	48.52	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	57.78
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	54.89	58.56
February	57.00	55.01	62.12	56.56	53.21	57.61
March	58.77	55.80	63.80	57.54	53.94	57.82

Source : OPEC Monthly Bulletins

XIV.23 DEVELOPMENT OF SPOT PRISES OF MAJOR PETROLEUM PRODUCTS IN KEY TRADING CENTRES OF THE WORLD DURING 2003, 2004 AND 2005

(US $/bl)

Market/Product	2004					2005					2006*	
	Jan	Mar	June	Sept	Dec	Jan	Mar	June	Sept	Dec	Jan	Mar
NAPHTHA:												
North Europeon Market, FOB Rotterdam	43.00	42.65	45.70	54.88	50.20	51.32	62.33	57.23	74.77	65.20	73.50	69.12
South Europeon Market, FOB Italy	34.41	34.24	37.48	45.90	39.98	41.69	51.34	46.94	62.01	53.71	59.23	57.70
Carribean Cargoes	39.72	40.69	43.00	49.65	41.06	49.21	58.11	57.06	83.80	62.83	67.61	71.08
Singapore Cargoes	39.49	36.03	32.19	43.95	42.79	41.34	50.74	45.71	61.73	53.77	58.26	59.82
Middle East FOB	36.84	35.04	37.06	44.07	40.40	40.39	54.66	50.08	65.28	56.99	64.19	60.39
GASOLINE (Premium Unl. 95)												
North Europeon Market, FOB Rotterdam	37.73	41.68	45.85	50.77	42.54	47.84	55.94	61.88	82.32	60.82	67.85	68.03
South Europeon Market, FOB Italy	37.04	40.92	44.64	49.84	39.72	45.72	54.23	59.95	na	na	na	na
US East Coast, NewYork (Unl.regular 87)	41.77	45.56	48.06	52.80	44.66	51.67	60.28	63.29	89.92	66.97	72.61	73.97
Singapore Cargoes	44.25	44.10	45.19	49.06	44.81	47.57	59.47	59.65	79.40	61.01	66.78	69.64
JET KERO												
North Europeon Market, FOB Rotterdam	40.35	40.55	45.26	58.49	54.05	55.05	68.81	72.32	83.78	70.00	76.16	76.51
US East Coast, New York	42.83	40.47	43.8	58.16	54.25	58.76	66.52	70.60	90.26	73.56	77.00	79.97
Carribean Cargoes	42.44	40.74	44.16	58.10	52.15	56.75	66.41	70.32	94.8	73.5	77.25	79.53
Singapore Cargoes	30.60	37.72	43.17	55.30	50.07	51.10	66.33	68.93	79.16	70.37	77.02	75.66
Middle East FOB	37.49	35.02	40.88	53.04	46.20	47.68	63.74	66.98	75.70	66.97	72.85	73.73
GAS OIL												
North Europeon Market, FOB Rotterdam	36.58	37.77	41.68	53.02	51.26	51.92	69.30	73.02	83.28	69.25	73.79	77.42
South Europeon Market, FOB Italy	35.80	36.94	41.92	53.12	50.75	51.04	73.26	73.65	84.73	70.64	74.58	77.59
US East Coast, New York	40.88	37.87	41.40	52.49	53.14	55.02	65.62	70.25	89.92	72.03	74.01	78.53
Carribean Cargoes	40.21	37.93	41.30	52.80	50.50	53.75	64.23	67.54	86.35	71.27	73.77	74.98
Singapore Cargoes	41.42	38.42	42.84	54.29	51.33	51.26	68.34	72.42	80.77	69.10	77.61	82.11
Middle East FOB	37.13	34.84	38.79	50.44	45.16	45.60	59.83	65.62	71.78	60.23	64.95	70.17
FUEL OIL												
North Europeon Market (1%s)	22.05	23.33	24.21	23.40	24.96	26.68	34.06	35.01	46.70	41.75	45.19	45.37
South Europeon Market,(1%s) FOB italy	23.16	23.63	26.54	25.66	25.65	28.69	35.31	38.33	48.43	43.53	47.98	47.73
US East Coast, New York (1%s)	28.05	24.67	29.64	27.85	25.22	29.86	35.57	na	na	na	na	na
Carribean Cargoes (2%s)	19.99	19.11	21.62	22.47	18.75	23.62	28.22	33.00	40.29	37.93	40.99	42.78
Singapore Cargoes (380 Cst)	24.96	24.57	26.87	27.18	24.00	26.61	33.61	38.11	46.68	42.48	45.33	48.89
Singapore Cargoes (180 Cst)	24.73	24.31	28.63	26.99	25.95	27.16	32.73	39.34	47.35	43.68	46.72	49.43
Middle East (180 Cst)	22.42	21.96	24.61	24.71	21.97	25.20	29.44	36.24	44.71	37.57	40.82	46.93

Source : OPEC Monthly Statistical Bulletin

na: Not available

*: Provisional.

XIV.24 WORLD SURVEY OF SELECTED PETROLEUM PRODUCTS PRICES IN 2005

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 (US$/1000Ltr)
1	2	3	4	5	6	7
Australia	1.31	..	0.912	..	..	..
Austria	0.81	NA	1.178	..	758.2	551.4
Belgium	0.81	NA	1.292	NA	647.2	534.9
Canada	1.21	NA	..	299.7	644.2	460.5
Czech Repubic	23.95	NA	1.164	207.3	745.8	564.8
Denmark	6.00	NA	1.278	..	1191.5	683.8
Finland	0.81	NA	1.204	..	723.3	592.9
France	0.81	1.576	1.271	302.6	723.3	563.3
Germany	0.81	NA	1.323	..	649.2	559.7
Greece	0.81	..	..	..	..	..
Hungary	199.50	NA	1.273	..	NA	..
Ireland	0.81	NA	1.292	418.6	786.9	599.8
Italy	0.81	NA	1.377	..	1301.3	1084.4
Japan	110.10	NA	0.911	350.3	579.6	439.5
Korea	1024.00	..	1.052	434.7	849.8	853.7
Luxembourg	0.81	NA	1.047	NA	599.8	549.2
Mexico	10.89	NA	0.480	181	..	257.7
Netherlands	0.81	NA	1.271	NA	1008.6	..
New Zealand	1.42	NA	0.635	396.7	..	..
Norway	6.44	1.781	1.526	NA	1108.1	381.4
Poland	3.23	NA	1.139	254.4	725.1	886.5
Portugal	0.81	1.496	1.164	NA	760.9	558.1
Slovak Republic	31.04	NA	1.213	NA	..	..
Spain	0.81	1.289	1.109	..	689.6	515
Sweden	7.47	NA	1.386	NA	1236.3	594.5
Switzerland	1.25	NA	1.313	NA	562	483.4
Turkey*	1.34	1.88	1.460	545.6	1372.9	..
U.K	0.55	..	1.653	NA	555	506.2
U.S.A	1.00	NA	0.638	295.4	559.8	430.1

.. = not available NA = Not Applicable

* = Exchange rates for Turkey are per 1000 Lira.

Source = International Energy Agency's "Energy Prices and Taxes" 2nd Quarter of 2006.

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

(U.S.C/U.S.GALLON)

Countries/Ports	1990	1995	2000	2001	2002	2003	2004	2005*
1	2	3	4	5	6	7	8	9
Australia								
Perth	NA	NA	NA	65.75	74.75	NA	NA	NA
France								
Paris	66.24	60.94	91.99	86.79	68.30	99.46	108.26	179.30
Germany								
Frankfurt	67.96	62.29	NA	NA	NA	NA	NA	177.52
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	94.14	76.71	NA	NA	182.81
Malaysia								
Kualalampur	NA	NA	NA	76.00	59.90	NA	NA	164.71
Singapore								
Paya Lebar/Changi	63.10	57.87	78.23	73.86	60.45	80.95	97.2	169.25
Switzerland								
Geneva	67.93	64.71	NA	NA	NA	NA	NA	NA
U.A.E								
Abu Dhabi	NA	NA	NA	92.00	82.00	NA	NA	176.59
Dubai	78.11	80.00	108.25	89.45	78.30	106.04	110.98	184.10
U.K								
London (Heathrow)	66.37	57.00	87.65	83.06	62.42	95.12	104.43	176.25
Kuwait	NA	NA	NA	85.00	74.00	NA	NA	179.97
New York (1)	64.98	52.74	NA	81.63	61.04	85.01	104.32	169.48
Japan								
Tokyo	85.75	72.03	100.70	71.02	71.02	91.96	111.82	177.79
India								
Mumbai	89.59	93.00	120.00	113.34	94.43	152.98	156.73	259.65
Delhi	91.28	62.93	120.00	115.86	97.00	156.10	160.79	203.07
Madras	NA	NA	124.00	111.31	92.95	160.57	166.41	197.58

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

Source : Air India

XIV. 26 INTERNATIONAL PETROLEUM PRICE INDEX DURING 1990 TO 2005

(US$/bbl))

Petroleum Spot	Price													
	1990	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
							(1990 =100)							
U.K. BRENT 38.0/0.26	20.89	72.00	72.05	66.92	87.67	80.73	53.83	75.86	120.46	117.09	119.82	137.91	183.01	260.60
USA WEST TAXAS INTERMEDIATE, 40.0/0.4	24.46	75.43	70.28	75.31	90.76	84.06	58.71	78.90	124.16	106.30	106.83	127.11	169.42	231.00
USA ANS 27.0/1.06	21.92	74.68	71.76	78.38	93.66	86.36	57.03	81.07	129.56	106.48	112.91	135.17	177.05	243.70
UAE DUBAI FATEH 32.5/1.43	20.38	73.26	72.33	79.00	91.17	88.81	59.62	84.59	127.88	110.69	116.93	131.35	164.87	242.20
IRAN LIGHT 33.9/1.4	20.64	72.97	71.90	78.34	92.2	88.37	57.99	83.58	129.60	110.95	113.95	130.28	167.64	245.40
IRAN HEAVY 31.0/1.6	19.91	70.72	73.13	81.67	92.87	90.41	57.51	85.03	130.69	108.84	115.97	132.24	166.05	241.00
INDONESIA MINAS 33.0/0.1	23.26	76.91	69.69	75.84	88.99	82.80	52.92	76.70	123.56	106.36	110.06	126.91	158.34	232.20
NIGERIA BONNY LIGHT, 36.7/0.1	24.16	72.72	67.09	71.77	87.91	80.30	52.86	74.79	117.92	101.41	104.10	119.04	158.24	230.40
MEXICO ISTHUMAS, 31.8/1.51	22.05	72.20	69.66	75.87	93.65	82.81	54.78	78.41	126.08	100.77	109.39	128.12	167.66	228.30
RUSSIA URALS 36.1/2.52	22.54	68.28	67.39	73.74	89.22	81.10	52.26	76.49	117.92	101.91	105.68	119.92	152.93	225.30
MALAYSIA TAPIS 44.3/0.2	26.91	78.28	71.18	75.96	91.40	86.88	57.35	78.49	123.50	85.36	88.52	100.45	152.88	215.30
AUSTRALIA GIPPSLAND, 46.0/0.13	23.62	74.77	68.16	73.37	89.03	84.04	56.44	78.32	124.47	106.77	107.83	126.38	171.80	237.80
SAUDI ARABIA ARAB HEAVY, 28.0/3.0	18.77	69.42	72.72	83.00	98.24	91.48	58.07	87.59	134.47	116.68	124.56	140.81	165.90	241.20

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, 2005.

XIV.27 TANKER FLEET DEVELOPMENT IN OPEC MEMBERS, 2002 - 2005 (1,000 DWT)

	2002		2003		2004		2005	
Country	No.	DWT	No.	DWT	No.	DWT	No.	DWT
Algeria	1	22.6	1	22.6	1	22.6	1	22.6
Indonesia	32	988.9	32	988.9	29	993.7	29	993.7
Iran	23	4169.6	27	5644.5	32	60650.0	30	6024
Iraq	9	534.3	9	534.3	1	37.0	1	37
Kuwait	17	2898.0	29	3625.3	22	3176.3	19	2940.9
Libya	6	775.3	6	775.3	6	275.4	6	275.4
Nigeria	2	408.8	2	408.8	2	408.8	2	408.8
Qatar	4	368.6	4	368.6	6	438.2	6	438.2
Saudi Arabia	12	578.6	12	578.6	17	1721.2	19	1721.2
UAE	9	291.6	7	275.4	7	275.4	9	399.5
Venezuela	6	320.3	13	557.5	21	1348.3	21	1348.3
Total OPEC	**121**	**11357**	**142**	**13779.8**	**146**	**14746.9**	**143**	**14609.6**
Total World	**3368**	**293571**	**3524**	**306578**	**3670**	**318116.7**	**3892**	**340213.6**
OPEC %		**3.9**		**4.5**		**4.6**		**4.3**

Note: Total World includes commercial units and Government vessels.

Total may not add up, due to independent ro DWT : Dead Weight Tonnage

Source : OPEC Annual Statistical Bulletin, 2004.

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

	1991-1995		1996-2000		2001-2005		Total	
	No.	DWT	No.	DWT	No.	DWT	No.	DWT
10,000-19,999	69	973	150	2193	167	2595	660	9934.9
20,000-29,999	35	995	20	491	39	974	292	7825.2
30,000-39,999	39	1409	88	3063	205	7336	523	18677.3
40,000-49,999	75	3304	143	6504	256	11635	615	27640.9
50,000-59,999	3	170.1	1	55.2	21	1091.3	61	3262.5
60,000-69,999	25	1681.5	16	1070	29	1958.6	167	10988.9
70,000-74,999	2	141.8	12	866.4	84	6055.9	99	7136.2
75,000-89,999	6	502.3	7	583.8	9	727.8	114	9639
90,000-99,999	92	8865.8	31	3056.6	15	1446.3	189	18234.1
100,000-109,999	15	1560.6	90	9524.6	152	16017.2	278	29292.4
110,000-119,999	3	333.9	12	1342.5	74	8376.3	98	11069
120,000-129,999	4	493.5	12	1512.1	-	-	30	3765.7
130,000-139,999	13	1768.4	4	537.8	3	411.6	28	3801.1
140,000-149,999	40	5845.2	27	4003.6	22	3234.5	103	15111.8
150,000-159,999	21	3250.9	35	5435.5	66	10387.2	130	20301.3
160,000-199,999	-	-	-	-	25	4164.9	31	5262.6
200,000-229,999	-	-	-	-	-	-	3	654.5
230,000-259,999	35	8988.1	9	2337.1	1	259.8	80	20388.9
260,000-299,999	68	19339	45	13142	51	15058	186	53642.1
300,000-349,999	26	7885	63	19230	106	32681	199	61050.7
350,000 and over	-	-	-	-	4	1769	6	2534.6
Total World	**571**	**67507**	**765**	**74948**	**1329**	**126180**	**3892**	**340213.6**

Note: a) World tanker fleet includes commercial vessels of 10,000 dwt and over owned by independent oil companies, as well as Government institutions.

b) Total may not add up, due to independent rounding.

DWT : Dead Weight Tonnage - = Nil or negligible.

Source : OPEC Annual Statistical Bulletin, 2005.

XIV.29 INTER-AREA TOTAL OIL MOVEMENTS DURING 1999 - 2005

(Thousand barrels daily)

	1999	2000	2001	2002	2003	2004	2005	Change 2005 over 2004	2005 share of total
Imports									
USA	10550	11092	11618	11357	12254	12898	13525	4.9%	27.1%
Europe #	10670	11070	11531	11895	11993	12538	13261	5.8%	26.6%
Japan	5346	5329	5202	5070	5314	5203	5225	0.4%	10.5%
Rest of World *	14157	14911	15401	15306	16238	17471	17895	2.4%	35.8%
TOTAL WORLD	**40723**	**42402**	**43752**	**43628**	**45799**	**48110**	**49906**	**3.7%**	**100.0%**
Exports									
USA	956	890	910	904	921	991	1129	14.0%	2.3%
Canada	1520	1703	1804	1959	2096	2148	2201	2.5%	4.4%
Mexico	1739	1814	1882	1966	2115	2070	2065	-0.2%	4.1%
South & Central America	3145	3079	3143	2965	2942	3233	3528	9.1%	7.1%
Europe	1851	1967	1947	2234	2066	1993	2149	7.8%	4.3%
Former Soviet Union @	4019	4273	4679	5370	6003	6440	7076	9.9%	14.2%
Middle East	18341	18944	19098	18062	18943	19630	19821	1.0%	39.7%
North Africa	2726	2732	2724	2620	2715	2917	3070	5.2%	6.2%
West Africa	2985	3293	3182	3134	3612	4048	4358	7.7%	8.7%
Asia Pacific £	2650	2767	2879	2863	3025	3009	2967	-1.4%	5.9%
Rest of World *	791	940	1506	1551	1361	1631	1542	-5.5%	3.1%
TOTAL WORLD	**40723**	**42402**	**43754**	**43628**	**45799**	48110	**49906**	**3.7%**	**100.0%**

* Includes unidentified trade £ Excludes Japan

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

Note: For the purposes of this table, annual changes and shares of total are calculated using thousand barrels daily figures.

Source: B.P.Amoco Statistical Review of World Energy, June 2006

XIV.30 PRIMARY ENERGY CONSUMPTION BY FUEL DURING 2005
SOME INTERNATIONAL COMPARISONS

(Million tonnes oil equivalent)

	Oil	Natural Gas	Coal	Nuclear Energy	Hydro electric	2005 Total
USA	944.6	570.1	575.4	185.9	60.6	2336.6
Canada	100.1	82.3	32.5	20.8	81.7	317.5
Mexico	87.8	44.6	6.0	2.4	6.3	147.2
Total North America	**1132.6**	**697.1**	**613.9**	**209.2**	**148.6**	**2801.3**
Argentina	20.1	36.5	0.8	1.6	7.9	66.8
Brazil	83.6	18.2	13.5	2.2	77.0	194.5
Chile	11.9	6.8	2.4	-	5.9	27.0
Colombia	10.4	6.1	2.3	-	9.0	27.8
Ecuador	6.6	0.2	-	-	1.7	8.4
Peru	6.4	1.4	0.6	-	4.3	12.8
Venezuela	25.4	26.1	0.1	-	17.6	69.2
Other S. & Cent. America	58.8	16.4	1.4	-	18.3	95.0
Total S. & Cent. America	**223.3**	**111.7**	**21.1**	**3.7**	**141.7**	**501.4**
Austria	14.2	9.0	2.5	-	9.0	34.6
Azerbaijan	5.1	7.9	^	-	0.7	13.7
Belarus	6.7	17.0	0.1	-	^	23.8
Belgium & Luxembourg	39.5	15.2	6.4	11.1	0.6	72.7
Bulgaria	5.0	2.9	7.4	4.2	0.8	20.3
Czech Republic	9.9	7.7	20.5	5.6	0.7	44.4
Denmark	9.1	4.5	3.6	-	^	17.2
Finland	11.0	3.6	2.5	5.5	3.1	25.6
France	93.1	40.5	13.3	102.4	12.8	262.1
Germany	121.5	77.3	82.1	36.9	6.3	324.0
Greece	20.9	2.3	9.0	-	1.3	33.5
Hungary	7.0	12.1	2.7	3.1	^	24.9
Iceland	0.9	-	0.1	-	1.6	2.6
Republic of Ireland	9.4	3.5	1.9	-	0.2	14.9
Italy	86.3	71.1	16.9	-	9.6	183.9
Kazakhstan	10.0	16.0	27.2	-	2.0	55.2
Lithuania	2.7	2.9	0.2	2.3	0.2	8.3
Netherlands	49.6	35.5	8.7	0.9	^	94.7
Norway	9.8	4.0	0.5	-	30.9	45.2
Poland	21.9	12.2	56.7	-	0.9	91.7
Portugal	15.3	2.7	3.8	-	1.1	23.0
Romania	11.3	15.6	7.1	1.3	4.6	39.8
Russian Federation	130.0	364.6	111.6	33.9	39.6	679.6
Slovakia	3.5	5.3	4.3	4.0	1.1	18.2
Spain	78.8	29.1	21.4	13.0	5.2	147.4
Sweden	15.1	0.7	2.2	16.3	15.5	49.7
Switzerland	12.2	2.8	0.1	5.3	7.5	27.9
Turkey	30.0	24.6	26.1	-	9.0	89.7
Turkmenistan	4.9	14.9	-	-	-	19.8
Ukraine	13.9	65.6	37.4	20.1	2.8	139.7
United Kingdom	82.9	85.1	39.1	18.5	1.7	227.3
Uzbekistan	7.8	39.6	1.1	-	1.6	50.1
Other Europe & Eurasia	24.3	13.8	21.3	1.9	16.9	78.1
Total Europe & Eurasia	**963.3**	**1009.7**	**537.5**	**286.3**	**187.2**	**2984.0**

Contd....

XIV.30 PRIMARY ENERGY CONSUMPTION BY FUEL* DURING 2005
SOME INTERNATIONAL COMPARISIONS

(Million tonnes oil equivalent)

	Oil	Natural Gas	Coal	Nuclear Energy	Hydro electric	2005 Total
Iran	78.4	79.6	1.1	-	2.8	162.0
Kuwait	14.4	8.7	-	-	-	23.1
Qatar	3.8	14.3	-	-	-	18.1
Saudi Arabia	87.2	62.6	-	-	-	149.8
United Arab Emirates	18.3	36.4	-	-	-	54.6
Other Middle East	69.2	24.3	7.9	-	1.1	102.5
Total Middle East	**271.3**	**225.9**	**9.0**	**-**	**3.9**	**510.2**
Algeria	11.2	21.7	0.9	-	0.1	33.9
Egypt	29.2	23.0	0.5	-	3.1	55.8
South Africa	24.9	-	91.9	2.9	0.8	120.5
Other Africa	64.0	19.4	7.0	-	15.9	106.3
Total Africa	**129.3**	**64.1**	**100.3**	**2.9**	**19.9**	**316.5**
Australia	39.7	23.1	52.2	-	3.7	118.7
Bangladesh	4.0	12.8	0.4	-	0.3	17.4
China	327.3	42.3	1081.9	11.8	90.8	1554.0
China Hong Kong SAR	13.8	1.9	7.2	-	-	22.9
India	115.7	33.0	212.9	4.0	21.7	387.3
Indonesia	55.3	35.5	23.5	-	2.1	116.4
Japan	244.2	73.0	121.3	66.3	19.8	524.6
Malaysia	22.0	31.4	6.3	-	1.5	61.2
New Zealand	7.0	3.2	2.1	-	5.5	17.8
Pakistan	17.4	26.9	4.1	0.6	6.9	55.9
Philippines	14.7	2.7	5.9	-	1.9	25.2
Singapore	42.2	5.9	-	-	-	48.1
South Korea	105.5	30.0	54.8	33.2	1.2	224.6
Taiwan	41.6	9.6	38.2	9.0	1.8	100.3
Thailand	45.6	26.9	11.8	-	1.3	85.6
Other Asia Pacific	21.1	8.0	25.7	-	8.9	63.8
Total Asia Pacific	**1116.9**	**366.2**	**1648.1**	**125.0**	**167.4**	**3423.7**
TOTAL WORLD	**3836.8**	**2474.7**	**2929.8**	**627.2**	**668.7**	**10537.1**
Of which European Union 25	700.4	424.1	299.0	220.9	70.8	1715.1
OECD	2270.7	1275.1	1168.5	531.3	296.8	5542.4
Former Soviet Union	186.3	536.3	178.2	56.9	56.5	1014.3
Other EMEs	1379.9	663.2	1583.1	38.9	315.3	3980.4

* 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, as well as biofuels.

^ Less than 0.05

Source: B.P.Amoco Statistical Review of World Energy, June 2006

XIV.31 PER CAPITA PRIMARY ENERGY CONSUMPTION DURING 2005 SOME INTERNATIONAL COMPARISONS

(Kg oil equivalent)

Country/Region	Oil	Natural Gas	Coal	Nuclear Energy	Hydro Electric	2005 Total
USA	3,158	1,906	1,924	622	203	7,812
Canada	3,071	2,525	997	638	2,506	9,739
Mexico	-	412	55	22	58	1,359
Total North America	2,574	1,584	1,395	475	338	6,367
Argentina	515	936	21	41	203	1,713
Brazil	448	97	72	12	412	1,041
Chile	726	415	146	-	360	1,646
Colombia	222	130	49	-	192	594
Ecuador	496	15	-	-	128	632
Peru	225	49	21	-	151	451
Venezuela	941	967	4	-	652	2,563
Other S. & Cent. America	347	97	8	-	108	561
Total S. & Cent. America	424	212	40	7	269	951
Austria	1,711	1,084	301	-	1,084	4,169
Azerbaijan	600	929	-	-	82	1,612
Belarus	691	1,753	10	-	-	2,454
Belgium & Luxembourg	3,591	1,382	582	1,009	55	6,609
Bulgaria	649	377	961	545	104	2,636
Czech Republic	961	748	1,990	544	68	4,311
Denmark	1,685	833	667	-	-	3,185
Finland	2,075	679	472	1,038	585	4,830
France	1,521	662	217	1,673	209	4,283
Germany	1,475	938	996	448	76	3,932
Greece	1,883	207	811	-	117	3,018
Hungary	693	1,198	267	307	-	2,465
Iceland	3,000	-	333	-	5,333	8,667
Republic of Ireland	2,238	833	452	-	48	3,548
Italy	1,463	1,205	286	-	163	3,117
Kazakhstan	654	1,046	1,778	-	131	3,608
Lithuania	794	853	59	676	59	2,441
Netherlands	3,024	2,165	530	55	-	5,774
Norway	2,085	851	106	-	6,574	9,617
Poland	575	320	1,488	-	24	2,407
Portugal	1,443	255	358	-	104	2,170
Romania	523	722	329	60	213	1,843
Russian Federation	914	2,562	784	238	278	4,776
Slovakia	648	981	796	741	204	3,370
Spain	1,732	640	470	286	114	3,240
Sweden	1,659	77	242	1,791	1,703	5,462
Switzerland	11,091	2,545	91	4,818	6,818	25,364
Turkey	407	334	354	-	122	1,217
Turkmenistan	925	2,811	-	-	-	3,736
Ukraine	297	1,402	799	429	60	2,985
United Kingdom	1,370	1,407	646	306	28	3,757
Uzbekistan	298	1,511	42	-	61	1,912
Other Europe & Eurasia	145	83	127	11	101	467
Total Europe & Eurasia	962	1,008	537	286	187	2,980

Contd.....

XIV.31 PER CAPITA PRIMARY ENERGY* CONSUMPTION DURING 2005
SOME INTERNATIONAL COMPARISONS

(Kg oil equivalent)

Country/Region	Oil	Natural Gas	Coal	Nuclear Energy	Hydro Electric	2005 Total
Iran	1,115	1,132	16	-	40	2,304
Kuwait	5,333	3,222	-	-	-	8,556
Qatar	4,750	17,875	-	-	-	22,625
Saudi Arabia	3,618	2,598	-	-	-	6,216
United Arab Emirates	3,735	7,429	-	-	-	11,143
Other Middle East	944	332	108	-	15	1,398
Total Middle East	1,541	1,283	51	-	22	2,897
Algeria	334	648	27	-	3	1,012
Egypt	387	305	7	-	41	740
South Africa	526	-	1,943	61	17	2,548
Other Africa	83	25	9	-	21	138
Total Africa	140	69	109	3	22	343
Australia	1,927	1,121	2,534	-	180	5,762
Bangladesh	27	87	3	-	2	119
China	250	32	825	9	69	1,185
China Hong Kong SAR	1,971	271	1,029	-	-	3,271
India	103	29	190	4	19	345
Indonesia	245	157	104	-	9	516
Japan	1,911	571	949	519	155	4,105
Malaysia	818	1,167	234	-	56	2,275
New Zealand	1,707	780	512	-	1,341	4,341
Pakistan	105	162	25	4	42	337
Philippines	170	31	68	-	22	292
Singapore	9,378	1,311	-	-	-	10,689
South Korea	2,175	619	1,130	685	25	4,631
Taiwan	1,825	421	1,675	395	79	4,399
Thailand	699	413	181	-	20	1,313
Other Asia Pacific	27	10	33	-	11	81
Total Asia Pacific	390	128	576	44	58	1,196
TOTAL WORLD	585	378	447	96	102	1,607
Of which European Union 25	1,796	1,087	767	566	182	4,398
OECD	1,654	929	851	387	216	4,037
Former Soviet Union	692	1,991	662	211	210	3,766
Other EMEs	320	154	367	9	73	924

* 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, as well as biofuels.

Source: B.P.Amoco Statistical Review of World Energy, June 2006

XIV.32 PER CAPITA CONSUMPTION OF MAIN PETROLEUM PRODUCTS SOME INTERNATIONAL COMPARISONS DURING 2005

Kg.Oil/Per Capita

Country/Area	Light Distillates	Middle Distillates	Fuel Oil	Others	Total
USA	1576	1019	151	683	3429
Europe	255	514	128	217	1113
Middle East	341	512	415	350	1618
China	66	92	34	73	265
Japan	707	730	271	374	2082
OECD	639	629	154	359	1781

Source : B.P Amoco Statistical Review of World Energy, June 2006.

Note: Papulation (Mid 2004 in Millioms) data has been taken from "Papulation Reference Bureau".

XIV.33 TRENDS IN WORLD PRIMARY ENERGY CONSUMPTION (1980 - 2005)

(Million Tonnes Oil Equivalent)

Year	Oil	Natural Gas	Coal	Hydro Electricity	Nuclear Energy	Total
1980	3024.1	1296.4	1966.0	433.6	172.9	6893.0
1981	2918.3	1312.1	1959.1	443.2	203.2	6835.9
1982	2820.3	1308.9	2002.2	460.0	222.7	6814.1
1983	2797.3	1325.0	2039.2	482.0	248.0	6891.5
1984	2843.0	1426.5	2114.5	498.7	297.7	7180.4
1985	2826.5	1474.7	2209.6	510.2	350.9	7371.9
1986	2905.2	1487.4	2262.6	519.9	377.4	7552.5
1987	2948.4	1557.8	2341.9	534.3	406.3	7788.7
1988	3037.5	1662.1	2241.5	183.7	488.4	7613.2
1989	3087.5	1737.4	2272.2	183.3	502.3	7782.7
1990	3134.5	1770.5	2244.5	189.4	516.7	7855.6
1991	3133.6	1802.8	2189.7	194.6	541.4	7862.1
1992	3163.2	1805.3	2171.8	193.9	545.6	7879.8
1993	3134.6	1844.6	2162.4	204.4	564.4	7910.4
1994	3193.8	1853.4	2174.1	206.1	574.6	8002.0
1995	3234.7	1911.7	2206.7	216.2	599.9	8169.2
1996	3313.6	2004.7	2284.5	219.1	520.9	8342.8
1997	3386.3	1990.3	2265.8	223.4	616.5	8482.3
1998	3406.6	2015.4	2243.2	224.8	626.9	8516.9
1999	3469.1	2065.1	2159.9	226.6	651.5	8572.2
2000	3503.6	2164.0	2186.0	230.4	668.6	8752.6
2001	3517.1	2219.5	2243.1	584.7	601.0	9165.4
2002	3562.6	2285.8	2412.3	593.0	610.8	9464.5
2003	3641.8	2343.2	2613.5	604.1	598.2	9800.8
2004	3798.6	2425.2	2798.9	643.2	625.1	10291.0
2005(P)	3836.8	2474.7	2929.8	627.2	668.7	10537.1

Source : B.P Amoco statistical review of world Energy, June 2006

(P) : Provisional

XIV.34 PRIMARY ENERGY CONSUMPTION* IN SELECTED COUNTRIES OF THE WORLD DURING 2000 - 2005

(Million tonnes oil equivalent)

Region/Country	2000	2001	2002	2003	2004	2005	Change 2005 over 2004	2005 share of total
USA	2312.0	2258.4	2291.1	2298.6	2344.7	2336.6	-0.1%	22.2%
Canada	289.8	289.9	296.7	302.8	311.4	317.5	2.2%	3.0%
Mexico	135.8	135.3	135.3	140.4	143.8	147.2	2.7%	1.4%
Total North America	**2737.6**	**2683.5**	**2723.1**	**2741.8**	**2799.9**	**2801.3**	**0.3%**	**26.6%**
Argentina	58.9	57.7	54.3	58.7	62.2	66.8	7.7%	0.6%
Brazil	176.9	174.1	177.9	180.3	187.0	194.5	4.3%	1.8%
Chile	22.8	23.5	23.9	24.2	26.5	27.0	2.2%	0.3%
Colombia	25.4	26.3	25.7	26.0	26.8	27.8	3.9%	0.3%
Ecuador	7.7	7.7	7.7	7.8	8.2	8.4	2.8%	0.1%
Peru	11.9	11.7	11.8	11.7	12.4	12.8	2.9%	0.1%
Venezuela	61.9	65.2	66.1	58.5	65.4	69.2	6.0%	0.7%
Other S. & Cent. America	85.0	85.5	87.8	91.1	92.7	95.0	2.8%	0.9%
Total S. & Cent. America	**450.4**	**451.7**	**455.2**	**458.3**	**481.2**	**501.4**	**4.5%**	**4.8%**
Austria	32.2	33.3	33.3	34.2	33.7	34.6	2.9%	0.3%
Azerbaijan	11.5	11.3	11.1	12.0	12.9	13.7	6.2%	0.1%
Belarus	21.7	21.9	22.1	22.2	24.2	23.8	-1.3%	0.2%
Belgium & Luxembourg	66.4	64.0	64.9	68.6	71.1	72.7	2.5%	0.7%
Bulgaria	17.8	18.4	18.2	18.9	19.6	20.3	4.2%	0.2%
Czech Republic	40.0	41.5	41.5	43.6	44.3	44.4	0.4%	0.4%
Denmark	18.8	18.6	18.4	19.6	18.3	17.2	-6.0%	0.2%
Finland	26.0	26.4	26.7	28.9	28.6	25.6	-10.1%	0.2%
France	254.9	258.4	256.7	259.8	263.4	262.1	-0.2%	2.5%
Germany	330.5	336.2	330.1	332.1	330.7	324.0	-1.7%	3.1%
Greece	31.8	31.7	32.7	32.3	33.8	33.5	-0.4%	0.3%
Hungary	23.0	24.1	23.5	23.8	23.8	24.9	4.8%	0.2%
Iceland	2.4	2.5	2.6	2.6	2.7	2.6	-1.8%	*
Republic of Ireland	13.9	14.6	14.5	14.2	14.6	14.9	2.1%	0.1%
Italy	176.4	177.2	175.9	181.2	184.3	183.9	0.1%	1.7%
Kazakhstan	41.0	42.3	44.1	47.9	51.2	55.2	8.0%	0.5%
Lithuania	7.0	8.1	8.6	9.1	9.2	8.3	-9.2%	0.1%
Netherlands	86.4	88.3	89.0	90.4	93.1	94.7	2.0%	0.9%
Norway	45.9	41.0	42.9	38.3	39.0	45.2	16.0%	0.4%
Poland	88.4	88.6	87.1	88.5	90.9	91.7	1.1%	0.9%
Portugal	24.8	25.0	24.7	25.3	24.3	23.0	-5.4%	0.2%
Romania	37.0	37.3	38.6	37.8	39.0	39.8	2.5%	0.4%
Russian Federation	636.0	637.5	646.6	656.9	670.5	679.6	1.6%	6.4%
Slovakia	18.1	18.6	18.7	18.1	17.6	18.2	3.8%	0.2%
Spain	129.2	133.0	134.7	141.2	145.5	147.4	1.6%	1.4%
Sweden	48.6	52.1	48.5	46.2	48.4	49.7	3.2%	0.5%
Switzerland	29.4	31.5	29.5	29.4	29.0	27.9	-3.4%	0.3%
Turkey	76.3	71.5	75.1	79.9	85.3	89.7	5.5%	0.9%
Turkmenistan	14.9	15.3	15.8	17.4	18.5	19.8	7.3%	0.2%
Ukraine	136.7	135.9	134.1	134.2	139.9	139.7	0.2%	1.3%
United Kingdom	223.5	227.0	221.7	225.1	227.0	227.3	0.4%	2.2%

Contd.....

XIV.34 PRIMARY ENERGY CONSUMPTION* IN SELECTED COUNTRIES OF THE WORLD DURING 2000 - 2005

(Million tonnes oil equivalent)

Region/Country	2000	2001	2002	2003	2004	2005	Change 2005 over 2004	2005 share of total
Uzbekistan	51.4	54.8	56.2	52.4	50.5	50.1	-0.5%	0.5%
Other Europe & Eurasia	67.0	68.2	70.1	73.5	75.7	78.1	3.5%	0.7%
Total Europe & Eurasia	**2828.8**	**2856.0**	**2858.2**	**2905.4**	**2960.6**	**2984.0**	**1.1%**	**28.3%**
Iran	122.0	128.6	142.2	149.7	156.2	162.0	3.9%	1.5%
Kuwait	19.0	18.2	18.6	20.3	22.5	23.1	3.3%	0.2%
Qatar	10.4	12.0	13.2	14.0	16.7	18.1	8.8%	0.2%
Saudi Arabia	116.4	120.2	123.7	131.7	142.8	149.8	5.1%	1.4%
United Arab Emirates	41.1	43.7	48.6	50.4	53.5	54.6	2.4%	0.5%
Other Middle East	94.0	97.4	98.8	97.9	99.9	102.5	2.9%	1.0%
Total Middle East	**402.9**	**420.1**	**445.1**	**464.0**	**491.7**	**510.2**	**4.0%**	**4.8%**
Algeria	26.9	27.9	28.9	30.2	31.3	33.9	8.6%	0.3%
Egypt	47.5	49.4	49.5	51.5	54.0	55.8	3.5%	0.5%
South Africa	108.4	107.0	110.9	117.3	123.6	120.5	-2.2%	1.1%
Other Africa	93.1	95.2	96.8	99.0	102.7	106.3	3.8%	1.0%
Total Africa	275.8	279.5	286.2	298.0	311.7	**316.5**	1.8%	3.0%
Australia	**111.2**	**113.4**	**116.6**	**116.3**	**117.6**	**118.7**	**1.2%**	**1.1%**
Bangladesh	**12.7**	**14.1**	**14.8**	**15.5**	**16.4**	**17.4**	**5.9%**	**0.2%**
China	966.7	1000.0	1057.8	1228.7	1423.5	1554.0	9.5%	14.7%
China Hong Kong SAR	15.6	18.9	20.4	20.9	23.8	22.9	-3.8%	0.2%
India	320.4	324.2	338.7	348.2	376.1	387.3	3.3%	3.7%
Indonesia	95.2	101.4	104.4	103.9	112.1	116.4	4.1%	1.1%
Japan	514.8	513.0	510.2	510.9	520.8	524.6	1.0%	5.0%
Malaysia	45.8	47.8	51.3	56.3	60.4	61.2	1.6%	0.6%
New Zealand	17.8	18.0	18.5	17.9	18.4	17.8	-3.2%	0.2%
Pakistan	41.9	42.9	43.8	45.8	49.8	55.9	12.6%	0.5%
Philippines	22.6	22.7	23.5	24.4	24.9	25.2	1.4%	0.2%
Singapore	35.0	40.5	39.9	38.7	44.1	48.1	9.3%	0.5%
South Korea	191.1	195.9	205.0	211.8	217.3	224.6	3.7%	2.1%
Taiwan	85.4	86.8	91.0	94.7	98.0	100.3	2.6%	1.0%
Thailand	61.2	63.3	68.8	74.7	80.6	85.6	6.6%	0.8%
Other Asia Pacific	51.8	54.5	55.0	56.1	61.9	63.8	3.3%	0.6%
Total Asia Pacific	2589.5	2657.4	2759.5	2964.8	3245.9	3423.7	5.8%	32.5%
TOTAL WORLD	**9285.0**	**9348.2**	**9527.3**	**9832.2**	**10291.0**	**10537.1**	2.7%	100.0%
Of which European Union 25#	1654.8	1681.8	1666.5	1697.5	1719.1	1715.1	◆	16.3%
OECD	5359.3	5328.8	5366.1	5421.8	5523.5	5542.4	0.6%	52.6%
Former Soviet Union	941.3	948.4	959.6	974.4	999.7	1014.3	1.7%	9.6%
Other EMEs	2984.5	3071.0	3201.5	3436.1	3767.8	3980.4	5.9%	37.8%

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

◆ Less than 0.05%

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

Note: Growth rates are adjusted for leap years

Source : B.P Amoco statistical review of world Energy, June 2006.

XIV. 35 ECONOMIC INDICATORS OF OPEC NATIONS DURING 2005

Country	Mid Year Population 2005 (Million)	GDP* 2005 (Bn. $)	Per capita GDP* 2005 (US $)	Petroleum* Exports 2005 (m $)	Total* Exports (m $)	Petroleum* Exports as % of total Exports	Oil Reseves* Dec.2005 (Bn.bbls)	Gas Reserves Dec.2005 (Bn. CM)	Producing Oil wells Dec.2005	Refining Capacity Dec.2005 (000/b/d)	Exports of Refined Products (000/b/d)
1	2	3	4	5	6	7	8	9	10	11	12
Algeria	32.91	102.44	3113	32882	45631	72.1	12.27	4580	1478	462.2	464.4
Indonesia	217.99	281.16	1290	9248	86179	10.7	4.30	2769	7758	1057.5	142.3
Iran	68.60	196.41	2863	48286	60012	80.5	136.27	27580	1450	1474.0	402.1
Iraq	28.83	30.65	27028	23400	24027	97.4	115.00	3170	652	603.0	13.5
Kuwait	2.76	74.60	6618	42583	45011	94.6	101.50	1558	1048	936.0	614.2
Libya	5.85	38.74	752	28324	28700	98.7	41.46	1491	1585	380.0	162.5
Nigeria	131.76	99.15	45937	46770	47928	97.6	36.22	5152	2820	445.0	49.3
Qatar	0.82	37.85	12931	18634	24386	76.4	15.21	25783	546	80.0	76.8
Saudi Arabia	23.96	309.77	29367	164710	174635	94.3	264.21	6900	1923	2091.0	1385.4
U.A.E	4.50	132.15	5240	49700	111116	44.7	97.80	6060	1575	466.3	509.0
Venezuela	26.76	140.19	2649	48059	55487	86.6	80.01	4315	13896	1054.3	609.3
Total	**544.74**	**1443.10**	**2196**	**512596**	**703112**	**72.9**	**904.26**	**89357**	**34752**	**9048.8**	**4428.7**

Note : Total includes figures for Saudi arabia-Kuwait Divided Zone. ' * = Provisional or estimated figures, as of May 27, 2004.
Source : OPEC Annual Statistical Bulletin, 2005.

XIV.36 WORLD IMPORTS OF NATURAL GAS BY COUNTRY, 1999 - 2005

(Mn. Standard Cubic Metres)

Country/Region	1999	2000	2001	2002	2003	2004	2005*	% Change 2005/04
North America	**102090**	**109208**	**118324**	**119070**	**121180**	**131750**	**132704**	**0.7**
Canada	1200	2060	4730	5350	7820	11150	10140	-9.1
USA	100890	107148	113594	113720	113360	120600	122564	1.6
Latin America	**6690**	**9560**	**14220**	**18700**	**21480**	**27730**	**28180**	**1.6**
Argentina	1200	-	-	-	-	800	1740	117.5
Brazil	370	2120	4420	5260	5320	7600	8800	15.8
Chile	3390	4070	5140	5340	6060	7200	6500	-9.7
Dominican Republic	-	-	-	-	300	130	250	92.3
Mexico	1730	2980	3990	7450	9000	11200	10100	-9.8
Puerto Rico	-	350	630	630	740	680	670	-1.5
Uruguay	20	40	40	20	60	120	120	0.0
Eastern Europe	**39350**	**40850**	**40800**	**42250**	**44730**	**51390**	**51690**	**0.6**
Bulgaria	3350	3200	2900	2800	2800	2800	2850	1.8
Former Czechoslovakia	16600	17300	17600	17630	17220	15930	15880	-0.3
Hungry	8700	9200	9300	10290	10300	11000	10800	-1.8
Poland	7500	7750	8000	7830	8710	9810	10210	4.1
Romania	3200	3400	3000	3700	5700	6200	6300	1.6
Western Europe	**242380**	**265470**	**265324**	**285125**	**309614**	**336080**	**358950**	**6.8**
Austria	6120	6120	6550	6730	7800	7800	8680	11.3
Belgium	16210	16300	16039	16200	17800	21700	20900	-3.7
Demark	-	-	-	100	200	280	280	0.0
Finland	4200	4300	4500	4400	4840	4610	4200	-8.9
France	41120	42620	41590	43110	41900	47300	47700	0.8
Germany	75230	76200	78200	83790	85980	88700	90700	2.3
Greece	1500	2140	1980	2020	2450	2750	2860	4.0
Ireland	2100	2600	3500	3430	3700	3350	3050	-9.0
Italy	49410	58500	54750	57725	62100	67700	73500	8.6
Luxembourg	700	700	800	900	1200	1400	1400	0.0
Netherlands	7340	12600	8530	12270	16700	15300	17300	13.1
Portugal	2150	2350	2460	2680	3350	3560	4200	18.0
Spain	15450	16930	18985	20900	23994	27400	33400	21.9
Sweden	840	840	950	1280	1250	1050	1030	-1.9
Switzerland	3040	3050	3030	2770	2920	2770	2840	2.5
Turkey	12300	14300	16380	17720	21520	22200	27000	21.6
United Kingdom	1370	2200	3000	5100	7510	13400	15100	12.7
Former Yugoslavia	3390	3720	4080	4000	4400	4710	4820	2.3
Middle East	**2000**	**2650**	**4500**	**4900**	**6331**	**7500**	**7670**	**2.3**
Iran	2000	2650	4500	4900	5731	5200	5176	-0.5
Africa	**800**	**1730**	**1580**	**2290**	**2090**	**1300**	**1300**	**0.0**
Morocco	-	-	-	600	600	-	-	-
Tunisia	800	1730	1580	1690	1490	1300	1300	0.0
Asia & Pacific	**93790**	**101080**	**108716**	**113150**	**125870**	**131800**	**140300**	**6.4**
Japan	69390	72590	74306	72770	79770	76000	78400	3.2
South Korea	17520	19680	21830	24320	26230	29800	30600	2.7
Singapore	1500	1500	1270	2660	5320	6600	6600	0.0
Taiwan	5320	5980	6400	7200	7480	9300	9600	3.2
Thailand	90	1330	4910	6200	7070	7500	8900	18.7
Total World	**487100**	**530548**	**553464**	**585485**	**631295**	**687530**	**720610**	**4.8**
OPEC	2000	2650	4500	4900	6131	6400	6576	2.8
OPEC Percentage	0.4	0.5	0.8	0.8	1.0	0.9	0.9	

Source : OPEC Annual Statistical Bulletin, 2005. *:Provisional

XIV.37 WORLD IMPORTS OF REFINED PRODUCTS BY COUNTRY, 2000 - 2005

(1,000 Barrels/ Day)

Country/Region	2000	2001	2002	2003	2004	2005*	% Change 2005/04
North America	**1761.9**	**1765.0**	**1643.6**	**2042.6**	**2169.4**	**2321.1**	**7.0**
Canada	163.9	210.4	188.5	230.4	251.6	275.6	9.5
USA	1593.7	1550.3	1450.7	1807.7	1913.4	2040.8	6.7
Others	4.3	4.3	4.4	4.5	4.5	4.6	2.2
Latin America	**1548.1**	**1418.3**	**1352.1**	**1354.6**	**1469.9**	**1514.9**	**3.1**
Brazil	288.4	297.2	292.8	306.8	314.8	325.8	3.5
Cuba	131.0	130.0	130.5	132.2	135.7	139.9	3.1
Mexico	437.1	309.0	242.0	199.0	204.2	210.7	3.2
Netherlands Antiles	33.2	33.8	33.5	33.6	34.5	35.7	3.5
Panama	17.0	18.1	17.6	17.7	18.2	18.7	2.7
Puerto Rico	99.0	100.0	99.5	99.9	102.5	105.2	2.6
Others	542.4	530.1	536.3	565.4	660.0	678.7	2.8
Eastern Europe	**199.6**	**221.0**	**226.7**	**230.3**	**237.5**	**246.2**	**3.7**
Bulgaria	12.0	9.7	10.9	11.0	11.3	11.7	3.5
Former USSR	10.0	10.0	10.0	9.8	10.0	10.4	4.0
Hungry	21.1	24.3	39.4	40.4	40.7	41.2	1.2
Poland	62.7	63.0	66.6	67.6	69.3	71.4	3.0
Others	93.8	114.0	99.8	101.5	106.1	111.6	5.2
Western Europe	**5166.7**	**5247.6**	**4960.6**	**5384.1**	**5865.4**	**6431.9**	**9.7**
Belgium	302.0	322.1	299.6	314.1	349.0	387.8	11.1
France	556.8	543.3	568.9	589.2	693.7	820.7	18.3
Germany	915.8	945.9	729.8	766.8	809.5	854.9	5.6
Italy	359.4	324.2	315.1	340.4	344.6	350.4	1.7
Netherlands	957.4	1000.1	1028.3	1086.8	1196.4	1327.1	10.9
United Kingdom	293.8	340.7	270.1	296.0	332.8	375.5	12.8
Others	1781.5	1771.2	1748.7	1990.8	2139.4	2315.5	8.2
Middle East	**347.7**	**362.8**	**345.2**	**402.8**	**409.5**	**471.7**	**15.2**
Syrian Arab Republic	20.2	21.0	20.6	20.8	21.3	22.0	3.3
Others	327.5	341.8	324.6	382.0	388.2	449.6	15.8
Africa	**533.1**	**447.2**	**532.7**	**575.0**	**631.7**	**657.8**	**4.1**
Egypt	50.7	53.2	52.0	52.1	53.5	55.2	3.2
Morocco	28.5	29.6	29.1	29.2	30.0	31.0	3.3
Nigeria	106.3	93.3	102.0	123.9	17.9	139.1	677.1
Senegal	9.6	9.9	9.8	9.8	10.1	10.3	2.0
Tunisia	51.4	50.0	50.7	50.8	52.1	53.6	2.9
Others	286.6	291.8	289.2	309.3	468.2	368.4	-21.3
Asia & Pacific	**5205.1**	**5196.1**	**5303.7**	**5839.0**	**6121.9**	**6373.2**	**4.1**
Australia	86.2	85.1	99.4	106.3	108.8	112.3	3.2
China	522.4	601.7	660.1	826.6	856.5	887.5	3.6
Hong Kong	393.1	387.6	390.4	419.0	434.4	453.3	4.4
India	449.0	462.0	455.5	508.8	527.0	548.0	4.0
Japan	1015.3	945.8	970.6	1228.8	1273.9	1332.7	4.6
New Zealand	25.6	23.5	29.6	30.1	30.9	31.7	2.6
Singapore	632.7	626.3	629.5	633.8	656.0	683.9	4.3
Others	2080.7	2064.2	2068.6	2086.1	2234.4	2322.8	4.0
Total World	**14762.2**	**14738.5**	**14364.7**	**15828.5**	**16905.2**	**18016.8**	**6.6**

Source : OPEC Annual Statistical Bulletin, 2005. *:Provisional

XIV.38 WORLD CRUDE OIL EXPORTS BY COUNTRY, 2000 - 2005

(1,000 Barrels/Day)

Country/Region	2000	2001	2002	2003	2004	2005*	% Change 2005/04
North America	**1226.7**	**1150.4**	**1447.4**	**1575.7**	**1606.8**	**1654.2**	**2.9**
Canada	1175.2	1130.2	1426.8	1553.6	1583.1	1629.0	2.9
USA	51.5	20.2	20.6	22.1	23.7	25.1	5.9
Latin America	**5039.5**	**5060.9**	**4610.8**	**4776.7**	**4844.7**	**5572.2**	**15.0**
Colombia	608.0	576.0	566.5	564.1	566.9	576.0	1.6
Ecuador	219.4	243.0	239.6	246.2	247.7	253.4	2.3
Mexico	1848.5	1882.5	1902.7	2102.9	2113.5	2187.4	3.5
Trinidad & Tobago	60.2	62.7	60.3	60.2	60.3	61.2	1.5
Venezuela	2003.5	196.7	1572.0	1535.0	1566.2	2197.8	40.3
Others	300.0	331.9	269.8	268.3	290.2	296.3	2.1
Eastern Europe	**3058.3**	**3346.1**	**5583.7**	**6482.2**	**7149.9**	**7530.5**	**5.3**
Former USSR	3056.3	3344.4	5581.7	6479.5	7147.6	7527.1	5.3
Others	2.0	1.7	2.0	2.7	2.4	3.4	41.7
Western Europe	**4985.2**	**4904.9**	**4763.5**	**4373.3**	**4174.6**	**4405.5**	**5.5**
Norway	2902.8	2978.8	2833.0	2694.2	2653.0	2746.7	3.5
United Kingdom	1735.4	1645.9	1624.2	1345.4	1190.8	1315.7	10.5
Others	347.1	280.3	306.3	333.7	330.8	343.2	3.7
Middle East	**16016.5**	**15129.2**	**13781.9**	**14707.8**	**16652.0**	**17185.7**	**3.2**
Iran	2492.2	2184.6	2093.6	2396.3	2684.1	2394.5	-10.8
Iraq	2039.8	1710.2	1494.6	388.6	1450.0	1472.2	1.5
Kuwait	1230.7	1214.1	1138.0	1242.9	1414.9	1650.8	16.7
Oman	905.0	917.0	908.0	901.9	905.5	913.7	0.9
Qatar	617.6	605.5	580.8	540.7	542.7	677.3	24.8
Saudi Arabia	6253.1	6035.9	5284.6	6522.9	6813.1	7208.9	5.8
Syrian Arab Republic	338.0	346.0	337.0	335.9	337.6	338.9	0.4
UAE	1814.9	1786.7	1614.0	2048.0	2172.0	2195.0	1.1
Others	325.3	329.3	331.3	330.6	332.2	334.3	0.6
Africa	**5172.4**	**5261.5**	**5153.4**	**5832.3**	**6362.1**	**6477.6**	**1.8**
Algeria	461.1	441.5	566.2	741.0	893.2	970.3	8.6
Angola	668.9	660.2	697.6	698.2	722.6	762.4	5.5
Cameroon	107.9	111.2	121.7	120.7	120.9	121.3	0.3
Congo	249.8	250.0	256.0	253.5	254.3	255.3	0.4
Egypt	51.6	53.6	56.6	56.4	56.5	57.0	0.9
Gabon	308.2	315.0	314.9	312.7	313.3	316.2	0.9
Libya	1005.0	987.6	983.6	1126.5	1284.5	1306.3	1.7
Nigeria	1986.4	2089.4	1798.2	2163.5	2356.0	2326.0	-1.3
Others	333.5	352.4	358.5	359.7	360.7	363.0	0.6
Asia & Pacific	**2266.2**	**2214.8**	**2214.1**	**1975.5**	**1921.0**	**1904.7**	**-0.8**
Australia	383.6	356.3	351.1	282.1	255.3	256.6	0.5
Brunei	171.9	176.2	177.2	177.1	177.3	178.9	0.9
China	209.3	164.7	144.6	163.1	159.0	163.0	2.5
Indonesia	622.5	599.2	639.9	433.0	412.7	374.4	-9.3
Malaysia	380.2	397.6	401.6	397.9	401.5	409.1	1.9
Vietnam	286.9	303.2	305.2	302.3	302.6	305.0	0.8
Others	211.7	217.6	224.6	219.9	212.6	217.7	2.4
Total World	**37764.9**	**37067.8**	**37554.8**	**39723.5**	**42711.2**	**44730.4**	**4.7**
OPEC	20526.7	19619.4	17735.6	19138.4	21589.3	22773.5	5.5
OPEC %	54.4	52.9	47.2	48.2	50.5	50.9	

Source : OPEC Annual Statistical Bulletin, 2005. *:Provisional

XIV.39 WORLD EXPORTS OF REFINED PRODUCTS BY COUNTRY, 1999 - 2005

(1,000 Barrels/ Day)

Country/Region	1999	2000	2001	2002	2003	2004	2005*	% Change 2005/04
North America	**1171.2**	**1360.3**	**1374.5**	**1414.6**	**1482.1**	**1558.2**	**1639.8**	**5.2**
Canada	366.9	370.9	411.4	407.8	415.7	426.7	439.4	3.0
USA	804.3	989.3	963.1	1006.8	1066.3	1131.3	1200.4	6.1
Others	-	-	-	-	0.1	0.1	0.1	0.0
Latin America	**2079.2**	**2063.9**	**2131.7**	**2002.4**	**2068.6**	**2156.1**	**2236.0**	**3.7**
Argentina	81.1	109.0	119.6	206.0	213.0	215.8	223.5	3.6
Ecuador	33.9	35.0	40.0	36.3	37.4	37.6	37.7	0.3
Mexico	100.5	89.2	96.2	101.7	153.4	129.9	143.2	10.2
Netherlands Antilles	193.6	205.0	220.0	206.2	213.1	218.0	223.2	2.4
Trinidad & Tobago	133.3	142.6	145.0	140.3	142.3	146.0	150.1	2.8
Venezuela	828.0	779.6	761.1	569.7	485.0	573.8	609.3	6.2
Virgin Islands	382.1	385.9	397.2	388.4	390.5	395.2	402.7	1.9
Others	326.6	317.6	352.6	353.8	433.9	439.8	446.3	1.5
Eastern Europe	**1143.8**	**1325.8**	**1512.3**	**1800.7**	**1879.1**	**1932.7**	**1991.9**	**3.1**
Romania	44.6	50.4	54.3	57.9	66.0	66.9	67.7	1.2
Former USSR	913.1	1086.3	1246.5	1582.0	1657.7	1702.4	1751.8	2.9
Others	186.1	189.1	211.5	160.8	155.4	163.4	172.4	5.5
Western Europe	**4252.7**	**4436.1**	**4454.1**	**4222.0**	**4566.0**	**4812.3**	**5033.5**	**4.6**
Belgium	400.2	414.1	407.1	401.2	406.3	419.0	426.3	1.7
France	366.9	396.1	399.1	354.2	418.1	455.5	491.0	7.8
Germany	352.0	393.3	388.6	373.4	401.6	435.3	469.0	7.7
Italy	409.2	430.8	451.5	421.2	444.7	474.1	503.1	6.1
Netherlands	1298.7	1371.2	1416.8	1314.0	1316.5	1417.6	1512.1	6.7
United Kingdom	479.8	443.2	416.9	455.1	471.9	504.9	535.1	6.0
Others	946.0	987.2	974.1	902.8	1106.9	1105.9	1096.8	-0.8
Middle East	**3302.1**	**3140.3**	**2962.6**	**2876.0**	**3096.7**	**3295.2**	**3449.6**	**4.7**
Bahrain	260.2	260.0	274.0	264.7	269.4	276.6	284.4	2.8
Iran	362.9	347.3	307.7	328.0	333.2	339.6	402.1	18.4
Iraq	23.0	23.0	25.0	22.5	10.5	11.5	13.5	17.4
Kuwait	838.0	674.5	642.8	572.2	623.1	604.2	614.2	1.7
Qatar	75.3	75.3	78.1	67.3	61.5	64.9	76.8	18.3
Saudi Arabia	1279.7	1228.1	1082.6	993.5	1128.6	1334.4	1385.4	3.8
UAE	331.0	391.7	398.2	485.5	513.6	503.6	509.0	1.1
Others	131.5	140.4	154.7	142.2	156.8	160.4	164.4	2.5
Africa	**1162.2**	**1172.7**	**1213.6**	**1193.8**	**1113.9**	**1053.0**	**1061.4**	**0.8**
Algeria	599.7	544.3	555.8	527.2	528.3	446.0	464.4	4.1
Egypt	93.6	87.3	96.3	92.4	90.8	94.4	98.1	3.9
Gabon	6.9	7.0	7.7	7.2	7.3	7.3	7.3	0.0
Nigeria	14.1	47.3	65.7	78.2	67.7	66.9	49.3	-26.3
Libya	201.2	237.0	225.0	221.1	145.4	161.5	162.5	0.6
Others	246.7	249.8	263.1	267.7	274.5	277.0	279.9	1.0
Asia & Pacific	**2852.7**	**2844.1**	**2869.8**	**2569.8**	**2739.1**	**2826.1**	**2950.6**	**4.4**
Australia	122.9	122.8	122.7	86.3	79.3	70.4	75.7	7.5
China	264.8	292.0	246.9	267.9	336.4	339.8	343.2	1.0
Indonesia	191.9	188.8	196.3	152.4	155.3	143.5	142.3	-0.8
Japan	109.3	90.1	96.1	82.2	69.2	81.3	95.4	17.3
Malaysia	146.1	143.7	153.0	147.6	214.6	221.2	229.6	3.8
Singapore	940.6	892.6	942.0	925.1	880.2	914.5	949.2	3.8
Others	1077.0	1114.1	1112.8	908.4	1004.1	1055.5	1115.1	5.6
Total World	**15963.9**	**16343.0**	**16518.5**	**16079.3**	**16945.4**	**17633.4**	**18362.8**	**4.1**
OPEC	4745.3	4536.8	4337.8	4017.6	4052.2	4249.8	4428.7	4.2
OPEC %	29.7	27.8	26.3	25.0	23.9	24.1	24.1	

Source : OPEC Annual Statistical Bulletin, 2005. *:Provisional

PART-III

PLAN STATISTICS

XV.1 TENTH PLAN OUTLAY OF PUBLIC SECTOR UNDERTAKINGS UNDER THE PURVIEW OF MINISTRY OF PETROLEUM & NATURAL GAS

(Rs.Crore)

Undertaking	Tenth Plan Outlay	2002-03 (Actual)	2003-04 (Actual)	2004-05 (Actual)	2005-06 (RE)	2006-07 (BE)
1	2	3	4	5	6	7
A. EXPLORATION & PRODUCTION	**59468.95**	**12149.37**	**12213.33**	**15952.08**	**22023.63**	**25377.06**
1. ONGC	33418.95	6063.39	6851.98	10451.88	12735.61	14354.28
2. OIL	5000.00	606.90	577.85	796.78	1205.70	1788.95
3. GAIL (India) Ltd.	7500.00	510.80	2441.30	438.96	1378.87	2579.58
4. ONGC Videsh Ltd.	13550.00	4968.28	2342.20	4264.46	6703.45	6654.25
B. REFINING & MARKETING	**37302.24**	**3656.30**	**4412.66**	**5029.11**	**5514.85**	**7685.98**
1. IOC	18001.44	1760.60	2157.03	3324.00	2896.24	3194.01
2. HPCL	7500.00	139.64	162.41	365.62	857.00	2365.00
3. BPCL	3998.80	618.80	931.73	460.04	807.60	927.70
4. CPCL	2400.00	1010.17	858.66	235.12	106.50	124.50
5. KRL	2500.00	7.20	35.28	167.78	157.00	326.15
6. BRPL	100.00	6.12	2.27	18.03	28.11	110.04
7. IBP Co. Ltd.	1762.00	113.21	220.63	252.02	200.00	200.00
8. Numaligarh Refinery Ltd.	310.00	0.56	23.90	106.18	123.40	147.00
9. MRPL	730.00 *	0.00	20.75	100.32	339.00	291.58
C. PETROCHEMICALS	**7443.81**	**463.36**	**957.33**	**1645.54**	**1851.60**	**2910.29**
1. BRPL	131.00	2.87	0.45	3.95	5.85	6.85
2. BPCL	1.20	0.00	0.00	-	0.10	0.10
3. MRPL	0.00	-	-	-	25.00	66.15
4. HPCL		0.00	0.00	-	0.00	15.00
4. IOC	6398.09	436.51	907.41	1590.02	1679.76	2433.99
5. CPCL	0.00	0.00	0.00	0.00	3.50	0.50
6. GAIL	913.52	23.98	49.47	51.57	137.39	387.70
D. ENGINEERING UNIT	**171.00**	**10.48**	**7.64**	**4.61**	**13.00**	**30.00**
1. IBP Co.Ltd.	21.00	0.00	0.00	0.00	0.00	0.00
2. Balmer Lawrie & Co. Ltd.	120.00	10.48	7.64	4.61	8.00	25.00
3. Biecco Lawrie Limited	30.00	0.00	0.00	0.00	5.00	5.00
Total (A+B+C+D)	**104386.00**	**16279.51**	**17590.96**	**22631.34**	**29403.08**	**36003.33**

RE : Revised Estimates BE : Budget Estimates

*: MRPL was acquired by ONGC during 2003-04, hence plan allocation of Rs.730 crore was not included in the 10th Plan outlay of Rs.103656 crore approved by Planning Commission.

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

XV. 2 DEMAND FOR PETROLEUM PRODUCTS

Items	1990-91	1995-96	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
1	2	3	4	4	5	6	7	8	9
Demand for Petroleum Products(MI	55.04	74.67	97.09	100.07	100.43	104.13	107.75	111.63	111.92
Annual Growth Rate %	1.70	10.80	7.20	3.00	0.40	3.00	3.5	3.6	0.3
Share of Middle Distillates (%)	60.20	61.70	57.10	53.40	51.20	50.00	48.3	48.3	48.4

Source : Plan Document MMT: Million Metric Tonnes.

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

Items	1990-91	1995-96	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
1	2	3	4	4	5	6	7	8	9
A. CRUDE OIL									
(i) Production	33.02	35.17	31.95	32.43	32.03	33.04	33.37	33.98	32.19
(ii) Imports	20.70	27.34	57.81	74.10	78.71	81.99	90.43	95.86	99.41
(iii)Availability (Net)	53.72	62.51	89.76	106.53	110.74	115.03	123.80	129.84	131.60
(iv) Item (ii) as % of Iter	38.53	43.74	64.41	69.56	71.08	71.28	73.05	73.83	75.54
B. PETROLEUM PRODUCTS									
(i) Production*	49.49	56.8	81.4	97.696	102.21	106.51	115.78	120.82	121.94
(ii) Imports(Net)	8.66	20.34	15.86	0.902	-3.056	-3.061	-6.619	-9.383	-9.828
(iii)Availability (Gross)	58.15	77.14	97.26	96.79	99.15	103.45	109.16	111.44	112.11
(iv) Item (ii) as % of Iter	14.89	26.37	16.3	0.9	3.1	3.0	-6.1	-8.4	-8.8

*: Includes LPG Production from Natural Gas.

XV. 4 VALUE* OF CRUDE OIL & POL PRODUCTS IMPORTED DURING V,VI,VII,VIII AND IX FIVE YEAR PLAN PERIODS

Plan Period/Year	Value (Rs./Crores)
1	2
Vth Plan (1974-79)	6977
VIth Plan (1980-85)	21388
VIIth Plan (1985-90)	19585
Annual Plan (1990-91)	9775
Annual Plan (1991-92)	11824
VIIIth Plan (1992-97)	102265
IXth Plan (1997-2002)	239032
2002-03	74174
2003-04	76470
2004-05	101963
2005-06	150492

*Net of POL Imports.

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

Company	2002-03	2003-04	2004-05	2005-06	2006-07	TOTAL
1	*2*	*3*	*4*	*5*	*6*	*7*
			Crude Oil (MMT)			
ONGC	25.90	25.99	26.38	26.19	25.56	130.02
OIL	3.50	3.60	3.75	3.85	4.00	18.70
Joint Venture / Private Companies	3.68	3.55	3.53	3.08	2.68	16.52
Total	**33.08**	**33.14**	**33.66**	**33.12**	**32.24**	**165.24**
			Natural Gas			
	(.....MMSCMD.....					(BCM)
ONGC	65.50	63.37	62.22	58.83	57.03	112.10
OIL	6.01	6.41	6.61	7.69	7.80	12.61
Joint Venture / Private Companies	15.05	19.31	26.62	26.62	29.40	42.72
Total	**86.56**	**89.09**	**95.45**	**93.14**	**94.23**	**167.43**

Source: Draft Tenth Five Year Plan Document. MMT: Million Metric Tonnes.

MMSCMD: Million Metric Standard Cubic Metres Per Day BCM: Billion Cubic Metres.

XV.6 PRODUCT AVAILABILITY DURING THE TENTH PLAN

('000' Tonne)

Product	2002-03	2003-04	2004-05	2005-06	2006-07	TOTAL
1	*2*	*3*	*4*	*5*	*6*	*7*
Light Distillates	**34293**	**37057**	**38913**	**38811**	**38405**	**187479**
LPG	7545	7989	8823	8749	8635	41741
MS	10478	10994	11470	11676	11580	56198
Naphtha	11878	13447	13753	13521	13333	65932
Others	4392	4627	4867	4865	4857	23608
Middle Distillates	**66251**	**72144**	**78523**	**78976**	**78296**	**374190**
ATF	3621	4367	4763	4787	4717	22255
SKO	13966	14656	15062	15110	14944	73738
HSD	47258	51921	57625	58007	57593	272404
LDO	877	701	570	570	545	3263
Others	529	499	503	502	497	2530
Heavy Ends	**19567**	**20243**	**19915**	**19485**	**19265**	**98475**
Lubes	836	900	900	882	850	4368
LSHS	4574	4206	3518	3468	3451	19217
FO	7576	7841	7128	6037	5963	34545
Bitumen	3239	3175	3112	3090	3061	15677
Others	3342	4121	5257	6008	5940	24668
Grand Total	**120111**	**129444**	**137351**	**137272**	**135966**	**660144**

Source: Draft Tenth Five Year Plan Document.

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

Year	Refinery	PSU/PVT.	MMT
2002-03	IOC, Haldia	PSU	1.40
		Sub total	**1.40**
2003-04	IOC, Barauni	PSU	1.80
	CPCL, Narimanam	PSU	0.50
	RIL, Jamnagar	PVT	6.00
		Sub total	**8.30**
2004-05	CPCL, Channai	PSU	3.00
	BPCL, Mumbai	PSU	5.10
		Sub total	**8.10**
2005-06	IOC, Panipat	PSU	6.00
	HPCL, Mumbai	PSU	2.40
		Sub total	**8.40**
2006-07	HPCL, Visakh	PSU	0.83
		Sub total	**0.83**
		Total	**27.03**

XV.8 REFINING CAPACITY ADDITION DURING THE TENTH PLAN

(MMT)

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	Total
Capacity additio	Base year	1.4	8.3	8.1	8.4	0.83	27.03
Total capacity	114.668	116.068	124.368	132.468	140.868	141.698	

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

('000' Tonne)

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

Source: Draft Tenth Five Year Plan Document.

XV.10 VALUE OF IMPORT OF CRUDE OIL AND PETROLEUM PRODUCTS DURING THE TENTH PLAN PERIOD

(Million US$)

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

Source: Draft Tenth Five Year Plan Document.

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

('000' Tonne)

PRODUCTS	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	CARG
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*
			BASE CASE SCENARIO				
LPG	8055	8776	9528	10310	11123	11966	8.2
Naphtha	10928	10823	10723	8668	9128	9228	-3.5
MS(R)	6910	7460	8042	8653	9259	9907	7.5
MS(D)	160	160	160	160	160	160	0.0
MS(T)	7070	7620	8202	8813	9419	10067	7.3
ATF	2299	2370	2445	2523	2605	2691	3.2
SKO	11000	11000	11000	11000	11000	11000	0.0
HSD(R)	30663	32505	34325	36179	38096	40115	5.5
HSD(D)	9152	9641	10183	10787	11459	12209	5.9
HSD(T)	39815	42146	44508	46966	49555	52324	5.6
LDO	1500	1500	1500	1500	1500	1500	0.0
FO	7081	7397	7733	8089	8466	8866	4.6
LSHS	5787	5787	5787	5787	5787	5787	0.0
FO/LSHS	12868	13184	13520	13876	14253	14653	2.6
Bitumen	2726	2808	2892	2979	3069	3161	3.0
Lubes/Grease:	1103	1202	1245	1283	1342	1386	4.7
Others	5668	5668	5668	5668	5668	5668	0.0
TOTAL	**103032**	**107097**	**111231**	**113586**	**118662**	**123644**	**3.7**
			UPPER CASE SCENARIO				
LPG	8055	8776	9528	10310	11123	11966	8.2
Naphtha	10928	13696	13806	11751	12980	13380	3.5
MS(R)	6910	7563	8275	9054	9904	10833	9.4
MS(D)	160	160	160	160	160	160	0.0
MS(T)	7070	7723	8435	9214	10064	10993	9.2
ATF	2299	2414	2535	2661	2794	2934	5.0
SKO	11000	11000	11000	11000	11000	11000	0.0
HSD(R)	30663	32932	35369	37986	40797	43816	7.4
HSD(D)	9152	9729	10341	10993	11686	12422	6.3
HSD(T)	39815	42661	45711	48979	52483	56238	7.2
LDO	1500	1500	1500	1500	1500	1500	0.0
FO	7230	7719	8251	8831	9464	10153	7.0
LSHS	5787	5787	5787	5787	5787	5787	0.0
FO/LSHS	13017	13506	14038	14618	15251	15940	4.1
Bitumen	2779	2918	3064	3217	3378	3547	5.0
Lubes/Grease:	1103	1202	1245	1283	1342	1386	4.7
Others	5668	5668	5668	5668	5668	5668	0.0
TOTAL	**103234**	**111064**	**116529**	**120201**	**127583**	**134552**	**5.4**

Source: Draft Tenth Five Year Plan Document.

PART-IV

FINANCIAL PERFORMANCE

XVI.1 DIVIDEND PAID BY PUBLIC SECTOR UNDERTAKINGS UNDER THE MINISTRY OF PETROLEUM & NATURAL GAS FOR FISCAL YEAR 2005-06

(Rs. Crore)

Name of Company	Total amount of dividend paid to Govt. by Oil PSUs
1. Oil & Natural Gas Corp. Ltd. (ONGC)	6416.71
2. Oil India Ltd. (OIL)	567.11
3. GAIL (INDIA) Ltd.	845.65
4. Indian Oil Corp. Ltd. (IOCL)	1460.02
5. Hindustan Petroleum Corp. Ltd. (HPCL)	116.08
6. Bharat Petroleum Corp. Ltd. (BPCL)	90.39
7. IBP Co. Ltd. (IBP)	4.43
8. Engineers India Ltd. (EIL)	44.93
Total	**9545.32**

XVI.2 EQUITY CAPITAL OF PUBLIC SECTOR UNDERTAKINGS UNDER THE MINISTRY OF PETROLEUM & NATURAL GAS AS ON 31st MARCH 2006

(Rs. Crore)

Name of the PSU	Authorised Capital	Paid up Capital	% Govt. holding as on 31.3.2006
1. Indian Oil Corp. Ltd. (IOCL)	2500.00	1168.01	82.03
2. Bharat Petroleum Corp. Ltd. (BPCL)	450.00	361.54*	54.93
3. Hindustan Petroleum Corp. Ltd. (HPCL)	350.00	338.94	51.01
4. Oil & Natural Gas Corp. Ltd. (ONGC)	15000.00	1425.93	74.14
5. Oil India Ltd. (OIL)	250.00	214.00	98.13
6. GAIL (INDIA) Ltd.	1000.00	845.65	57.35
7. Bongaigaon Refinery & Petrochemicals Ltd. (BRPL)	200.00	199.82	Nil
8. Engineers India Ltd. (EIL)	100.00	56.16	90.38
9. Chennai Petroleum Corp. Ltd. (CPCL)	400.00	149.00	Nil
10. IBP Co. Ltd. (IBP)	100.00	22.15	Nil
11. Biecco Lawrie Ltd.	50.00	42.00	57.37
12. Balmer Lawrie Ltd.	30.00	16.29	Nil
13. Numaligarh Refinery Ltd. (NRL)	1000.00	735.63	Nil
14. Mangalore Refinery & Petrochemicals Ltd.	2000.00	1761.80	Nil
15. OVL + Nile Ganga BV	500.00	300.00	100.00

NRL: Subsidiaryof BPCL.

BRPL, CPCL and IBP: Subsidiaries of IOCL.

*: Includes KRL

XVI.3 STATEMENT SHOWING PROFIT AFTER TAX EARNED BY PUBLIC SECTOR UNDERTAKINGS UNDER THE MINISTRY OF PETROLEUM & NATURAL GAS DURING 1998-99 TO 2005-06

(Rs. Crores)

	Name of PSUs	Profit after Tax during							
		1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06(P)
	1	2	3	4	5	6	7	8	9
1	Indian Oil Corporation Ltd.	2213.52	2443.4	2720.33	2884.66	6114.89	7004.82	4891.38	4915.12
2	Bharat Petroleum Corporation Ltd.	701.23	703.86	832.66	849.83	1250.03	1694.57	965.80	291.65
3	Hindustan Petroleum Corporation Ltd.	901.26	1057.41	1088.01	787.98	1537.36	1903.94	1277.00	405.63
4	Oil & Natural Gas Corporation Ltd.	2754.49	3629.48	5228.78	6197.9	10529.3	8664.43	12983.00	14430.78
5	Oil India Ltd.	291.6	409.79	467.36	525.22	916.73	949.70	1061.68	1689.93
6	GAIL (INDIA) Ltd.	1059.92	861.27	1126.16	1185.84	1639.11	1869.00	1954.00	2310.07
7	Kochi Refineries Ltd.	338.23	235.2	109.46	68.77	456.02	555.09	842.12	**
8	Bongaigaon Refinery & Petrochemicals Ltd.	34.26	32.24	-57.44	-198.61	178.45	303.74	478.29	174.76
9	Engineers India Ltd.	117.77	126.2	123.85	24.71	64.16	80.18	112.64	138.64
10	Chennai Petroleum Corporation Ltd.	204.93	143.14	122.43	63.71	302.89	400.05	596.97	480.96
11	IBP Co. Ltd.	35.23	41.71	54.22	195.79	87.75	214.66	58.87	12.44
12	Balmer Lawrie & Co. Ltd.	16.83	14.32	6.01	8.01	16.49	18.58	29.83	46.8
13	Numaligarh Refineries Ltd.	*	*	21.6	122.98	174.63	214.95	409.15	448.93
14	Biecco Lawrie Co. Ltd.	0.45	0.17	-8.67	-10.9	-9.2	-2.96	1.28	2.22
15	Mangalore Refinery & Petrochemicals Ltd.				-492.27	-411.8	459.42	880.00	371.61
16	OVL + Nile Ganga BV							761.38	870.28

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

(P): Provisional

** Amalgamated with BPCL

XVI.4 PERFORMANCE OF PUBLIC SECTOR UNDERTAKINGS UNDER THE MINISTRY OF PETROLEUM & NATURAL GAS DURING 2005-06

S. No.	Performance Parameters	Unit	ONGC	OIL	GAIL	IOC	HPCL	BPCL	IBP	EIL	BRPL	NRL	CPCL	Balmer Lawrie	MRPL	OVL+Nile Ganga BV	Biecco Lawrie
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*	*17*	*18*
1	Authorised Capital	Rs./Crores	15000.00	250.00	1000.00	2500.00	350.00	450.00	100.00	100.00	200.00	1000.00	400.00	30.00	2000.00	500.00	50.00
2	Paid up Capital	Rs./Crores	1425.93	214.00	845.65	1168.01	338.94	361.54*	22.15	56.16	199.82	735.63	149.00	16.29	1761.80	300.00	42.00
3	Govt. equity in the PSU	%	74.14	98.13	57.35	82.03	51.01	54.93	Nil	90.38	Nil	Nil	Nil	Nil	Nil	100.00	57.37
4	Gross Turnover	Rs./Crores	48244.39	5550.19	14875.49	183204.40	74044.11	82469.19	15676.00	857.15	6288.64	5820.37	25407.84	1329.19	28282.86	8170.73	49.35
5	PAT	Rs./Crores	14430.78	1689.93	2310.07	4915.12	405.63	291.65	12.44	138.64	174.76	448.93	480.96	46.80	371.61	870.28	2.22
6	Debt equity ratio	Ratio	0.002:1	01:32.7	0.19:1	0.90:1	0.13:1	0.91	0.49	0.00	1:0.01	0.26:1	1.21:1	0.18:1	0.87:1	7.24:1	1:1.03
7	Reserves & Sruplus	Rs./Crores	52533.74	5634.30	9127.64	28134.66	8396.80	8880.95	644.77	894.18	671.82	955.70	2132.53	209.52	633.53	1897.75	0.31
8	Networth	Rs./Crores	53593.40	5848.30	9874.81	29302.67	8735.74	9242.49	666.92	943.32	871.64	1691.33	2279.51	225.81	2395.34	2197.75	-19.59
9	Dividend paid / payable	Rs./Crores	6416.71	567.11	845.65	1460.02	116.08	90.39	4.43	44.93	53.95	139.77	178.71	16.71	122.70	Nil	Nil
10	Dividend as a %age of PAT	%age	44.47	33.56	36.60	29.70	28.62	30.99	35.61	32.41	30.87	31.00	37.16	31.00	33.02	Nil	NA
11	EPS	Rs.	101.20	78.97	27.32	42.08	11.97	8.07	5.62	24.69	8.75	6.10	32.29	28.74	2.12	300.40	0.53
12	Total outstanding loan	Rs./Crores	106.98	334.1	1916.56	26404.31	6663.83	8373.6	329.38	NIL	-	596.19	2747.89	37.69	3307.27	15924.18	43.69

* KRL Amalgamated with BPCL

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	27665
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	39701
1978-79	105250	11633	2812	49908
1979-80	106840	11766	2767	48370
1980-81	119020	10507	2358	49543
1981-82	130540	16194	3851	52618
1982-83	137430	21063	4936	50331
1983-84	145520	26020	5961	53361
1984-85	155210	28990	7241	57863
1985-86	162250	30168	8134	55918
1986-87	175200	30480	9853	58780
1987-88	190880	30357	11467	52430
1988-89	207000	32040	13217	63615
1989-90	213690	34087	16988	66619
1990-91	225500	32160	17998	77779
1991-92	243830	30345	18644	78160
1992-93	254880	26950	18061	76581
1993-94	264140	27026	18336	75705
1994-95	273140	32494	19468	88100
1995-96	292270	35168	22642	80500
1996-97	308200	32900	23256	77620
1997-98	318980	33858	26401	84520
1998-99	315689	32722	27428	94510
1999-00	322090	31949	28446	93785
2000-01	332580	32426	29477	91400
2001-02	352601	32032	29714	93000
2002-03	367290	33044	31389	83400
2003-04	389210	33373	31962	93000
2004-05	412950	33981	31763	118200
2005-06*	437730	32190	32202	118500

* - Provisional

TMT: Thousand Metric Tonnes

GWH: Giga Watt Hour=1 Million Kilo Watt Hour

MCM: Million Cubic Metres

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	94845
1999-00	315047	89754	26885	93795
2000-01	341220	106523	27860	*91400*
2001-02	349740	110738	28037	93000
2002-03	360708	115033	29964	83400
2003-04	NA	123807	30906	93000
2004-05	NA	129842	30775	118200
2005-06*	NA	131599	31325	118500

* - 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	29963	339598
2003-04	379405	121840	30906	360937
2004-05	404691	127416	30775	386134
2005-06(p)	N.A.	130109	31025	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(p)	5525	10502	14509	9078	6196	47572	923

(p) : Provisional

@: Excludes LPG production from natural gas.

*: Estimated from calendar year figures.

Cont...

XVII.4 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(p)	14305	677	3576	3182	3705	119750

(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(p)	99409	-	99409	11677	21505	-9828

(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(p)	32190	99409	131599	119750	-9828	109922

(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(p)	10292	8646	12263	9377	3295	40124	883

(p) : Provisional

Contd...

XVII.7 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	1151	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	1845	6900	3472	106974
2001-02	12982	1137	2584	1798	7273	4638	107705
2002-03	12738	1250	2986	2563	7650	5358	111776
2003-04	12945	1427	3373	2877	8240	6652	115991
2004-05	13540	1347	3337	3129	8537	4459	120171
2005-06(p)	12763	2112	3500	4442	9125	4240	121062

(p) : Provisional

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

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
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	1469	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(p)	21578	7015	2683	2446	2586	3816	40124
Light	1984-85	95	29	233	377	464	-	1198
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	628	290	391	1476
	2005-06(p)	49	28	65	422	270	49	883

(p) : Provisional

Contd..

XVII.8 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	Pvt. Sales	Total
1	2	3	4	5	6	7	8	9
Furnace Oil	1984-85	357	125	1032	2444	298	0	4256
	1985-86	290	132	804	2337	243	0	3806
	1986-87	358	125	712	2429	169	0	3793
	1987-88	416	130	636	2765	244	0	4191
	1988-89	460	152	617	3205	171	0	4605
	1989-90	461	147	692	2977	199	0	4476
	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	251	371	4364	1881	1105	8311
	2004-05	251	**	314	1743	5998	1099	9154
	2005-06(p)	478	**	302	1828	5613	635	8856
Low Sulphur Heavy Stock	1984-85	-	25	1462	2014	186	0	3687
	1985-86	4	34	1526	2365	165	0	4094
	1986-87	4	38	1489	2696	27	0	4254
	1987-88	2	36	1659	2242	14	0	3953
	1988-89	4	34	1571	2234	8	0	3851
	1989-90	8	42	1630	2629	19	0	4328
	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(p)	0	0	560	1390	1957	@	3907

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

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

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(p)	32202	0	877	31325

(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	3589	142	343	4944	231	21328	8173	1236	38	9447	30775
2005-06*	11878	3780	151	75	5048	1120	22052	7762	1175	36	8973	31025

@ : 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
MMSCMD	:	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 Millimetres	-	1 Cubic Centimetre
1000 Cubic Centimetres	-	1 Cubic Decimetre.
1000 Cubic Decimetres	-	1 Cubic Metre

CONVERSION FACTORS USED IN THE OIL TRADE LINEAR AND SQUARE MEASURES

LENGTH

1 Inch	-	25.4 Millimetres (mm)
	-	0.0254 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 Kilometre	-	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) Calorie	-	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 Vapeur)	-	542.476 Foot Pounds Force/Second.
	-	0.986320 Imperial Horse Power
1 Imperial Horsepower	-	745.700 Watts (W)
	-	550 Foot Pounds Force/Second
	-	1.01387 Metric Horse Power.
1 Kilowatt	-	737.562 Foot Pounds Force/Second
	-	1.35962 Metric 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 140/205)	1302	0.7680	8.19
Liquified Petroleum Gas	1785	0.5602	11.23
Superior Kerosene	1285	0.7782	8.08
Inferior Kerosene	1265	0.7905	7.96
Power Kerosene (Vap. Oil)	1251	0.7994	7.87
High Speed Diesel	1210	0.8263	7.61
Light Diesel Oil	1172	0.8532	7.37
Malarial Oil	1172	0.8532	7.37
Special Larvicides	1175	0.8511	7.39
Furnace Oil	1071	0.9337	6.74
Tea Drier Oil	1071	0.9337	6.74
Hot Heavy Stock/LSHS	1017	0.9833	6.40
Refinery Gas/Ref. Boiler Fuel	1071	0.9337	6.74
Lubricants/Greases	1114	0.8977	7.01
Jute Batching Oil/Wash Oils	1167	0.8569	7.34
Bitumen	1002	0.9980	6.30
SBP/Alcohol Mixture	1414	0.7072	8.89
Methanol Mixture	1106	0.9042	6.96
Carbon Black Feed Stock	1134	0.8818	7.13
Carburetter Testing Fluid	1388	0.7205	8.73
Benzene	1131	0.8812	7.05
Toluene	1148	0.8711	7.19
Demineralised Water	1002	0.9930	6.30
S. Glass Kleanzit	1003	0.9970	6.31
Miscellaneous	1114	0.8977	7.01
Wax/P. Coke/Chemicals	1114	0.8977	7.01
Aromex	1221	0.8190	7.68
Linear Alkyl Benzene Feed Stock	1205	0.8239	7.88

VOLUME PER METRIC TON OF PETROLEUM PRODUCTS

Products	Kilolitre	Imperial Gallon	U.S. Gallon	Barrel
Liquified Petroleum Gas	1.8519	407.365	489.213	11.648
Aviation Spirit	1.3699	301.332	361.873	8.613
Natural Gasoline	1.3514	297.265	356.990	8.496
Motor Spirit	1.3514	297.265	356.990	8.496
Kerosene	1.2346	271.569	326.137	7.764
Jet Fuel	1.2346	271.569	326.137	7.764
Distillate Fuel Oil	1.1494	252.415	293.522	6.988
Lubricating Oil	1.1111	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 Bitumen	0.9615	211.515	254.013	6.050
Crude Oil	1.1856	260.910	313.340	7.441

CONVERSION FACTORS FOR DUTY REDUCTION FROM 15^0 C T0 29.5^0 C

Product	Conversion Factor
1. Aviation Spirit 100/130	0.9827
2. Aviation Spirit 114/145	0.9820
3. Aviation Spirit 73 Clear	0.9824
4. Aviation Turbine Fuel	0.9862
5. Motor Spirit 83	0.9830
6. Motor Spirit 93	0.9836
7. High Speed Diesel Oil	0.9879
8. Kerosene	0.9864
9. Light Diesel Oil	0.9877
10. Furnace Oil	0.9899
11. Special Boiling Point Spirit 55/115	0.9820
12. Special Boiling Point Spirit 64/69	0.9806
13. Solvent 1425	0.9820
14. Hexane	0.9806

PETROLEUM SPECIFIC GRAVITIES

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

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

PRODUCT SPECIFIC GRAVITY RANGES

Products	Specific Gravity	Barrels Per tonne
Crude Oils	0.80-0.97	8.0-6.6
Aviation gasolines	0.70-0.78	9.1-8.2
Motor Gasolines	0.71-0.79	9.0-8.1
Kerosene	0.78- 0.84	8.2-7.6
Gas 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 these 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. Gallons	3.91	28.6	4.55	1	1.201
1,000 U.S. Gallons	3.25	23.8	3.79	0.833	1

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

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

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)*	34.121		
12	Other Gases(in Terajoules)*	34.121		
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 metre of gas under standard conditions of 15° C, 013.25 mbar, dry.

COAL REPLACEMENT AND EQUIVALENTS OF DIFFERENT FUELS

Fuels	Original Unit	Unit million tonnes of coal equivalent (mtce)	Unit million tonnes of coal replacement (mtcr)
1	*2*	*3*	*4*
Coal coking			
6640 K cal/Kg.			
Non-coking coal			
Used in steam			
Generation (5000 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
1971-2005 and 1971-72 to 2005-06

(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	12.838	12.498	12.048	12.091	12.369	1985-86	12.23725
1990	17.029	17.344	17.554	18.087	17.504	1990-91	17.9485
1991	18.309	20.526	25.757	25.878	22.742	1991-92	24.51125
1992	25.914	25.890	25.89	25.979	25.918	1992-93	27.5525
1993	27.887	31.345	31.371	31.370	30.493	1993-94	31.36425
1994	31.371	31.310	31.371	31.388	31.375	1994-95	31.40
1995	31.401	31.411	32.045	34.745	32.401	1995-96	33.45
1996	34.649	34.743	35.643	35.740	35.193	1996-97	35.50
1997	35.811	35.813	36.029	37.560	36.321	1997-98	37.16
1998	39.257	40.790	42.596	42.358	41.250	1998-99	42.07
1999	42.50	42.877	43.426	43.544	43.084	1999-00	43.33
2000	43.58	44.10	45.78	46.62	45.02	2000-01	45.77
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
2004	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

*: Provisional

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 rates 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.

MGIPMRND—1732PNG—27-04-2007.