PREFACE

1. The present publication is the nineteenth of the annual series brought out by the Economics & Statistics Division which attempts to present detailed petroleum and petrochemical statistics relating to Indian Economy and relevant international statistics.This publication, in line with our previous annual publications, tries to provide various key national petroleum statistics both on financial as well as on calendar year basis, the former to meet the requirements of national planning and administration and the latter to meet various obligations to U.N. and other international bodies and for purposes of maintaining historical continuity.

2. In this publication, in addition to statistics already covered in the previous issue, we have added a couple of new tables relating to (i) economic indicator; (ii) world refineries crude throughput; (iii) refined POL products exports by OPEC; (iv) region-wise oil exports of OPEC; (v) salient statistics relating to Sixth Five Year Plan; and (vi) Sixth Plan targets and actual achievements. Further, besides presenting this publication in printed form for the first time, we have re-designed the contents of several tables in order to enhance their utility. The historical chronology of events relating to Indian Petroleum & Petro-chemical Industries, which had been presented in all the previous issues of the publication, has been deleted in this issue, since a reference to such chronology could always be made in the previous issues, as and when needed. However, we have not failed to provide chronology of important events during 1984-85 as also the main highlights during the year in the current publication. It is hoped that officers and excecutives of the Govt. of India, Planning Commission, Oil Coordination Committee and other Organisations associated with the development of oil/petrochemical industries would find this publication useful.

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

August 1985.

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SCOPE AND COVERAGE OF DATE PUBLISHED

1. Scope: The Indian Petroleum & Petro-chemicals Statistics presents comprehensive statistics on various aspects of Indian petroleum and Petro-chemicals industries. The relevant data on international developments in the field of oil and petro-chemicals has also been presented in the publication.

2. Coverage: The petroleum statistics covers the exploration, production, refining, marketing, etc. activities of the Indian petroleum industry. In the case of petro - chemicals the primary data included in the publication relates to all public sector and the private sector units registered with DGTD.

3. Source: The primary statistics in respect of petroleum industry included in the publication is based on various returns submitted by the oil companies in the country to the Ministry of Petroleum on voluntary basis under the directives issued by the Ministry to the said companies from time to time. In the case of petro-chemical industry, such data are generally based on monthly production reports submitted by the producing units to DGTD under Section 30(G) of the Industries (Development & Regulation) Act, 1951, a copy of which is also endorsed by the producing units to the Ministry of Petroleum as the administrative Ministry.

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

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

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

6. Natural Gas: The gross production of natural gas reflects gross withdrawals of natural gas from reservoir. On the other hand, the net production of natural gas shows gross withdrawal of natural gas from reservoirs less gas used for reinjection into reservoirs for pressuring and gas which is flared and/or vented.

The utilisation data for natural gas includes gas marketed, gas used for LPG extraction and gas consumed for field operations by the companies engaged in hydrocarbons exploration/production activities.

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

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

9. Value of Import/Export: The value data in respect of exports of petroleum and petro-chemicals included in the publication shows F.O.B. value of exports whereas similar value figures for imports reflect C.I.F. value of imports.

10. Revision/Updating: Necessary revision/updating in the past data have been made in the light of latest available figures.

11. Abbreviations: Details of abbreviations used have been provided in Appendix.

12. Conversion Factors: The conversion factors generally used in the Oil Sector are also given in the Appendix.

Selected Economic Indicators of the Indian Economy.

Indicator	unit/base	1970-71	1975-76	1980-81	1981-82	1982-83	1983-84(P)
1.	2.	3.	4.	5.	6.	7.	8.
1.Geographical Area	m.Sq.km.	3.27	3.29	3.29	3.29	3.29	3.29
2.Population(mid yr.estimates)							
Total	Million	539	603	674	685	699	715(e)
Rural	"	432	473	518	525	536	546(e)
Urban	"	107	130	156	160	163	169(e)
Birth rate	Per '000'	36.8	35.2	33.7	33.9	33.8	33.2(e)
Death rate	"	15.7	15.9	12.6	12.5	11.9	11.2(e)
3.National Income:							
i) Gross National Product at factor cost							
a)At current prices	Rs.Crores	36452	66227	114319	130576	143712	172739
b)At 1970-71 prices	"	36452	42694	50824	53166	54084	58112
ii)Net National Product at factor cost:							
a)At current prices	Rs.Crores	34235	62154	106175	120806	132470	159598
b)At 1970-71 prices	"	34235	40170	47507	49631	50437	54275
iii)Per capita Net National Product:							
a)At current price	Rupees	632.8	1024.0	1563.7	1740.7	1868.4	2201.4
b)At constant prices	"	632.8	661.8	699.7	715.1	711.3	748.6
iv)Gross Domestic Savings at current prices:	Rs.Crores	6783	14928	29132	32665	37322	44172
v)Gross Domestic Capital Formation:							
At current prices	Rs.Crores	7177	14811	31233	35283	39895	46738
4.Budgetary Transactions of: Central & State/UT Govts.							
i) Total outlay	Rs.Crores	8352	18933	36845	43738	52747	61706
ii)Current revenue	Rs.Crores	6064	14095	24563	30425	35795	41638
iii)Capital receipts (Net)-Total	Rs.Crores	1864	4490	8831	10794	14603	17647
Internal	"	1482	2733	7161	9493	13012	15823
External	"	382	1757	1670	1301	1591	1824
iv)Overall Budgetary Deficit	"	424	348	3451	2519	2349	2421
5.Foreign Exchange Reserves:							
i)Gold	Rs.Crores	182.5	182.5	225.6	225.6	225.6	225.6
ii)SDR	"	148.9	202.8	490.5	425.1	270.2	216.4
iii)Foreign Exchange	"	438.1	1491.7	4822.1	3354.5	4265.3	5497.9
6.Foreign Trade:							
i) Import	Rs.Crores	1634	5265	12549	13608	14356	15763
ii) Export	"	1535	4036	6711	7806	8908	9872
iii) Balance of Trade	"	(-)99	(-)1229	(-)5838	(-)5802	(-)5448	(-)5891
7.Index of Production (Triennium ending)							
i)Agriculture	1969-70=100	111.5	123.1	135.3	142.9	137.1	155.8
ii)Industrial	1970=100	100.0	123.4	154.0	167.3	173.8	183.4

e = estimated.

Selected Economic Indicators of the Indian Economy.

Indicator	unit/base	1970-71	1975-76	1980-81	1981-82	1982-83	1983-84(P)
1.	2.	3.	4.	5.	6.	7.	8.
8.Agriculture Production:							
Total Food-grains	Mn.Tons.	108.42	121.03	129.59	133.30	129.52	151.54
of which							
Wheat	"	23.83	28.85	36.31	37.45	42.79	45.15
Rice	"	42.83	48.74	53.63	53.25	47.12	59.77
ii)Oil seeds	"	9.63	10.61	9.37	12.08	10.00	12.81
iii)Sugarcane	"	126.37	140.60	154.25	186.36	189.50	177.02
iv)Cotton	170 Kg.Bale	4.76	5.95	7.01	7.88	7.53	6.58
9. Industrial Production:							
Aluminium	'000' Tonnes	168.5	187.3	199.0	206.8	211.5	220.3
Steel ingots	Mn.Tonnes	6.14	8.27	10.33	10.95	11.03	10.48
Nitrogenous Fertilizers	(N)'000'Tn.	830	1535	2164	3144	3424	3485
Phosphatic Fertilizers	(P205) "	229	320	842	949	980	1048
Cement	Mn.Tonnes	14.3	17.2	18.6	20.9	23.3	27.1
10.Prices:							
i) Wholesale price index	1970-71=100	100.0	173.0	257.3	281.3	288.7	316.1
ii) Consumer price index for:							
a)Industrial Workers	1960=100	186	313	401	451	486	547
b)Agricultural labourers	1960-61=100	192	317	409	448	481	522
c)Urban Non-manual workers	1960=100	174	277	369	413	446	492
11. Employment:							
i) Organised Sector							
a)Public Sector	Million	10.73	13.32	15.48	15.94	16.42	16.86
b)Private Sector	"	6.74	6.84	7.40	7.55	7.54	7.43
Total	"	17.47	20.16	22.88	23.49	23.96	24.29
ii) No. of persons on life register of empl-oyment exchange	Million	4.07	9.35	16.20	18.03	20.12	22.60
12. Energy Generation (gross):							
Coal	Mn.tonnes	72.95	99.68	114.00	124.23	130.54	138.22
Lignite	"	3.39	3.02	4.80	5.88	6.40	6.64
Natural gas	(Mn.Cub.Mts.)	1445	2368	2358	3851	4936	5961
Crude Oil	Mn.tonnes	6.82	8.45	10.51	16.19	21.06	26.02
Petroleum products	"	18.33	22.06	25.49	30.14	32.81	34.82
Electricity:							
a)Installed Capacity:							
(i) Utilities							
hydel	M.W.	6383	8464	11791	12173	13055	13853
Thermal	"	7906	11013	17563	19312	21446	24412
Nuclear	"	420	640	860	860	860	1095
Total:	"	14709	20117	30214	32345	35361	39360
(ii) Non utilities	"	1562	2132	3102	3436	3530	3940
(iii)Grand Total:	"	16271	22249	33316	35781	38891	43300
b) Gross Generation:							
(i)Utilities	B.KWH						
Hydel	"	25.25	33.30	46.54	49.56	48.31	49.87
Thermal	"	28.16	43.30	61.30	69.52	79.88	86.52
Nuclear	"	2.42	2.63	3.00	3.02	2.02	3.49
Total	"	55.83	79.23	110.84	122.10	130.21	139.88
(ii) Non-utilities	"	5.38	6.70	8.42	9.02	9.20	10.37
GRAND TOTAL		61.21	85.93	119.26	131.12	139.41	150.25

SOURCE: 1)=RGI's mid year estimates.
2)=Economic Survey.

(P)= Provisional/RBE.
e = estimated.

PART–I
PETROLEUM STATISTICS

I-HIGHLIGHTS OF INDIAN PETROLEUM INDUSTRY- 1984-85.

1. Exploration and production activities in the country were intensified further by ONGC by commissioning 7 new drilling rigs purchased from BHEL and 2 contract rigs obtained under World Bank financing arrangements. A jack-up rig Sagar Ratna and the drilling ship Sagar Vijay was also acquired and commissioned in the West Coast offshore area by ONGC.

2. Drilling operations were extended by ONGC to 18 new onshore structures(out of which 6 structures were situated in Assam, 11 in Gujarat and 2 in the Cauvery area) and 10 new offshore structures spread over the West as well East Coasts of the country. Eight new platforms, including a water injection platform, were also commissioned by ONGC in the offshore areas.

3. The onshore exploration operations of ONGC led to discovery of oil at Changmaigaon and Kurgaon in Assam and at Dahej and Limbodra in Gujarat. Gas was also struck by ONGC at Rokia in Tripura, Kavilkallapal in Tamilnadu, Kaikalure in Andhra Pradesh and at Limbodra in Gujarat alongwith oil.

4. In the offshore areas, oil was struck in a new structure in the West Coast, at Kutch and in the Godawari offshore area. Gas was also discovered in a well in the Krishna-Godavari offshore area.

5. The over-all production of oil in the country during 1984-85 increased to 29 million tonnes against the Sixth Plan original target of 21.6 million tonnes. As a result of this, the level of our self-reliance on oil in 1984-85 improved to around 70%.

6. The installation of necessary facilities/plant and equipment for increasing the annual refining capacity of BPCL refinery from 5.25 mmt to 6.00 mmt, HPCL(Vizag) from 1.5 mmt to 4.5 mmt, MRL from 2.80 mmt to 5.60 mmt and CRL from 3.30 mmt to 4.50 mmt, was completed. Consequently the over-all refinery capacity in the country increased from 37.80 mmt to 45.55 mmt per annum.

7. The project for setting up a 6 mmt p.a. refinery at Karnal at an estimated cost of about Rs. 1360 crores was approved by the Government.

8. The oil companies expanded their marketing activities by opening 297 new retail outlets, 158 new Kerosene/LDO dealerships and 432 new LPG dealerships during the year.

9. About 16 lakh new LPG consumers were enrolled during the year. With this the number of LPG domestic consumers increased to over 89 lakh at the end of 1984-85 resulting in saving of valuable foreign exchange through reduced pressure on Kerosene.

10. With effect from 17th March, 1985, the petroleum product prices were increased by 15% for all products, except HSDO, in which case it was 8%. These increases became inevitable in order to meet the higher outgo of the oil companies on account of the increase in auxiliary duty and the levy of import duty on crude oil, the un-

favourable rupee-dollar rate and other costs arising out of greater efforts in exploration of crude oil and refining and marketing of petroleum products.Subsequently, w.e.f. 26.3.1985 the prices of Kerosene oil and HSDO were reduced by Rs. 70/KL with a view to providing relief to the vulnerable sections of the society using Kerosene oil and in order to help the farming communtiy.

11. Because of greater availability of natural gas in the country, a new public sector company, namely the Gas Authority of India Limited (GAIL), was set up by the Government on the 16th August, 1984 with an authorised capital of Rs. 500 crores. The main objectives of the company are:-

(i) augmentation and setting up of necessary plants, infra-sctructural facilities etc. for utilisation of natural gas;

(ii) processing, transporting and marketing of natural gas;

(iii) design and construction of pipelines; and

(iv) to formulate plans for proper utilisation of natural gas and products in close coordination with Government and concerned agencies, including industrial uses.

II. IMPORTANT EVENTS IN THE DEVELOPMENT OF INDIAN PETROLEUM INDUSTRY DURING 1984-85

A. Exploration and Production

(i) Oil India Limited

1984: In December, Mahanadi Well No.8 was spudded to test the hydrocarbon prospects on the offshore North East Coast structure.

Polymer flooding in Degboi field and preliminary studies for drilling in the Andamans were also initiated during the year 1984-85.

(ii) Oil & Natural Gas Commission

1984: In April, 3 new structure in Assam were taken for drilling, oil was struck in an offshore structure in West Coast and two offshore platforms were commissioned.

In May, drilling work was started at one new onshore structure in Gujarat and at 3 new offshore West Coast strutures, oil was struck at a well in Ankleshwar project and also for the first time in Kutch offshore area and a water injection offshore platform was commissioned.

In June, drilling in one new East Coast offshore structure and 2 structures in Krishna-Godavari area was commenced. A well in Assam flowed oil and an offshore Godavari structure showed presence of oil.

In July, one new structure in Gujarat was taken up for drilling and gas in appreciable quantity was observed at a well in Triprua.

On 1st August, Barholla-Jorhat crude pipeline was commissioned.

On 10th August, gas supply to KRIBHCO was commenced.

Drilling at one new structure in Cauvery area, 2 structures in Gujarat and one East Coast offshore structure was commenced during the month of August. Commissioning of a new offshore platform and a rig in Cauvery area supplied by BHEL also took place during the same month.

In September, a new structure in Assam was taken up for drilling and 2 BHEL rigs were commissiond.

In October, drilling was started at one new East Coast offshore structure, a contract rig under World Bank financing spudded a well and production from Heera complex was commenced.

In November, drilling was commenced at 2 new structures in Gujarat and also at one new East Coast offshore structure. A contract rig under World Bank financing also spudded well in Andhra Pradesh during the same month.

In December, a rig supplied by BHEL was commissioned in Nagaland, drilling was started at one new structure in Gujarat and also at one new structure in Assam. Gas flow was observed in a well in Krishna Godavari area, a well platform was commissioned and regular crude production was started from a new structure in Assam.

1985: In January, a new structure in Gujarat was taken up for drilling, a rig supplied by BHEL was commissioned at Lakura in Assam, an offshore platform was commissioned, gas was observed in a well in Tamil Nadu, oil was discovered in a new structure in Assam and regular production of oil was commenced from a new structure in Assam.

In February, drilling was started at a new offshore structure in West Coast, a rig supplied by BHEL was commissioned in Assam and 2 platforms were commissioned.

In March, 2 new structures in Gujarat and one each in Assam and Cauvery area were taken up for drilling, jack-up rig Sagar Ratna and drilling-ship Sagar Vijay were acquired and commissioned in West Coast, a BHEL rig was commissioned in Cachar and flow of oil and gas was observed from a well in Western Region.

(iii) Gas Authority of India Limited

1984: On 10th July, a decision for formation of a new Company Viz; Gas Authority of India Ltd., to deal with various matters relating to natural gas was taken by the Government.
On 16 August, the company was registered under the Companies Act.1956.
On 21st December, certificate for commencement of business was obtained from the Registerar of Companies.

B.REFINING

(i) Bharat Petroleum Corporation Limited's Bombay Refinery

1984: In June, the kero-merox unit was commissioned.

1984-85: For the first a combination of Ratna and Heera crude were processed and LSHS was loaded, ex-refinery on a tanker through specially laid pipeline.

(ii) Hindustan Petroleum Corporation Limited's Bombay Refinery

1984: On 27th September, crude desalter was commissioned.

On 11th December, Sulphur Recovery Unit was commissioned.

1985: A Portable Oil Skimmer was installed and commissioned at the Oil Separator in February. This resulted in better oil pick up in the separator Bays and hence improved pollution control.

On 25th March, the refinery completed 211 million manhours without a lost time accident.

Bombay High natural gas was, for the first time, used as Refinery fuel during the year 1984-85.

(iii) Hindustan Petroleum Corporation Limited's Visakh Refinery

1984: In December, plant communication facilities were commissioned.

1985: On 30th January, Crude Distillation Unit of 3 million tonnes per annum along with all the necessary utilities and storage tanks were commissioned.

In March, Kero-Merox Unit and one LSHS Rail Loading Gantry was commissioned. 6.61 Kms. on-shore pipeline was laid and hydro-tested.

(iv) Cochin Refineries limited. Cochin

1984: On 8th March, an explosion and fire occured in the refinery causing extensive damage to equipment and building of the refinery.

On 1st August, proposal for installation of facilities for production of Benzene in CRL was approved by the Government of India .

On 4th October, repairs/replacement to the plant caused by the explosion and fire on 8th March was completed and the refinery was put back on stream. Alongwith this the expansion of the refining capacity from 3.5 MMTA to 4.5 MMTA was also completed.

1985: In March, the Feed Preparation Unit of the Secondary Processing Scheme was commissioned.

(v) Madras Refineries Limited, Madras

1984: On 5th May, Paraffin Wax plant of MRL was commissioned.

On 2nd July, MRL received the Runner-up Award among the National Safety Awards under scheme II of the Govt. of India for the year 1982.

On 4th October, supply of Bombay High crude for MRL was inaugurated in Madras Harbour.

On 7th October, the Rs. 2.3 crores Micro-Processor based Digital Control System in MRL was inaugurated.

On 22nd October, Waster Water Treatment Plant of MRL (Rs.1.75 crore) was inaugurated.

On 29th October, the Crude Distillation Unit (CDU) of the Rs.170 crore expansion scheme of MRL went on stream.

1985: On 11th February, MRL Completed 7 million manhours of safe operations.

On 21st February, Vacuum Distillation Unit (VDU) was successfully commissioned at MRL. With this, the capacity of the VDU was raised to 1.15 million tonnes per year.

On March 29th, Fluidised Catalytic Cracking Unit (FCCU) of MRL began its production.

(vi) Indian Oil Corporation Ltd. (Refineries & Pipelines Division)

(a) Gauhati Refinery, Gauhati, Assam

1985 : In March, despatch of special cut Naphtha (Reformer Feed) to BRPL was commenced and a new TG set for BMW capacity was rolled by feeding stream.

(b) Barauni Refinery, Barauni, Bihar

1984: In June, ATF trial production by the modified heat treatment process was restarted.

(c) Haldia Refinery, Haldia, West Bengal

1984: In December, various tie-up jobs for debet ttlenecking of Crude Distillation Unit Capacity from 2.5 MTPA to 2.75 MTPA were completed.

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

1985: In February, production and despatch of MS-93 RON was started.

The total crude processing during 1984-85 exceeded the design capacity of 6 MTPA.

(e) Karnal Refinery Project

1984: In September, Govt. of India's approval for setting up the 6 MMTPA Karnal Refinery project by September 1989 and associated work of augmentation of Salaya-Mathura crude pipeline capacity and extension of the same upto Karnal at a total cost of about Rs.1360 crores, including a foreign exchange component of Rs.211.22 crores, was received.

1985: In February, the work of design, supply, erection and commissioning of the captive Thermal Power Plant for Karnal Refinery was awarded to BHEL and the work of fabrication, supply and erection of the Atmospheric & Vacuum Column to M/s BHPV.

(vii) Bongaigaon Refinery & Petrochemicals Ltd., Assam

1984-85: A feasibility report for expansion of the refinery capacity to 3 MMTPA was prepared.

C. M A R K E T I N G

(i) Bharat Petroleum Corporation Ltd.

1984-85: A LPG Bottling Plant was commisssioned at Comibatore.

(ii) Hindustan petroleum Corporation Ltd.

1984: The Company opened 81 new retail outlets, 30 new kerosene/LDO dealerships and 127 new LPG dealerships and commissioned 3 LPG Bottling plants during the year. 4.3 lakh new gas connections were also released during the year.

Loan aggregating over Rs.1 crore to 15 industrial consumers were sanctioned by the company under Boiler Replacement programme and Energy Conservation.

Railroad oil 613 was developed for use in crankcase of diesel locomotives for Indian Railways with indigenously manufactured additives and RDSO's approval was obtained.

Super 2T oil was upgraded to meet the requirement of high technology fuel efficiency new grade engines of two wheelers and approval of major manufacturers was obtained.

(iii) Indan Oil Corportation Ltd. (Marketing Division)

1984: In April, an agreement was signed for import of 14 lakh LPG valves-with provision for transfer of technology for manufacture of these valves in India.

In May, first coastal movement of LSHS was arranged and the first tanker of LSHS sailed from Bombay for Tuticorin. A new White Oil Dockline was commissioned at Vasco(Goa) and work on phase II of the Fuel Hydrant System at Sahar International airport in Bombay was completed.

In July, two new Divisions were opened with headquarters at Agra and Simla.

In October, bulk import of rail-road oil additive through containers was resorted to for the first time and a 6 Km. long Naphtha pipeline was commissioned at Tuticorin.

In December, an LPG bottling plant with annual capacity of 27,500 tonnes was commissioned at Kalyani near Calcutta and bitumen was exported for the first time in bulk by special 'bulkcontainers' to the Middle East.

1985: In January, an agreement was entered into for the import of 10 lakh Pressure Regulators from Denmark, providing for transfer of technology for manufacture of these regulators in India.

In February, a 11 Km. long Dockline was commissioned at Madras.

In March, a new Division in Southern Region with headquarter at Vijayawada, was formed.

D. LUBE PLANTS

(i) Lubrizol India Limited

1984: From 1st October, the installed capacity for manufacture of Chemical Additives was raised from 20,000 MT to 25,000 MT.

1985: In March, the new Calcium Sulfonate Unit with capacity of 3750 MT was commissioned.

(ii) Indian Oil Blending Ltd.
(A subsidary of Indian Oil Corporation Ltd.)

1985: The accounts were decentralised at the plant level at Bombay and Calcutta and a separate corporate office including Chairman & Managing Director's office was eastablished.

III. INDIA'S PETROLEUM INDUSTRY AT-A-GLANCE (1970-71 - 1984-85)

Year	Crude Oil balance recoverable reserves	Consumption (excl-RBF)	Crude oil production	Imports		Refinery throughput	Refinery production	Value of POL imports (.Rs./Crores)	India's total exports	% of POL imports to India's exports	CIF Unit value of crude imports (Rs/MT)	Central excise & Customs duties on POL (Rs/Crores)
	(.....Million Tonnes.....)			Crude oil	POL Products							
1970-71	128	17.91	6.82	11.68	1.09	18.38	17.11	137	1535	8.9%	91	638
1971-72	114	20.07	7.30	12.95	2.15	20.04	18.64	194	1608	12.1%	114	772
1972-73	125	21.72	7.32	12.08	3.53	19.33	17.83	207	1971	10.5%	121	853
1973-74	127	22.35	7.19	13.87	3.55	20.96	19.50	541	2523	21.4%	300	970
1974-75	125	22.11	7.68	14.02	2.65	21.09	19.60	1112	3329	33.4%	654	1106
1975-76	144	22.45	8.45	13.62	2.22	22.28	20.83	1256	4036	31.1%	772	1155
1976-77	275	24.10	8.90	14.05	2.62	23.00	21.43	1424	5142	27.7%	837	1222
1977-78	303	25.54	10.76	14.51	2.88	24.90	23.22	1552	5408	28.7%	859	1279
1978-79	347	28.24	11.63	14.66	3.88	25.97	24.20	1681	5726	29.4%	854	1480
1979-80	354	29.88	11.77	16.12	4.72	27.47	25.79	3270	6418	51.0%	1357	1620
1980-81	366	30.90	10.51	16.25	7.29	25.84	24.12	5266	6711	78.5%	2061	1512
1981-82	468	32.52	16.19	15.30	4.88	30.14	28.18	5189	7806	66.5%	2442	1582
1982-83	471	34.66	21.06	16.95	5.03	33.16	31.07	5598	8908	62.8%	2386	1664
1983-84	527	35.84	26.02	15.97	4.33	35.26	32.93	4812	9872	48.7%	2218	1649
1984-85(P)	511	38.50	28.99	13.64	6.09	35.56	33.23	5345	11297	47.3%	2515	2080

(P) = Provisional/RBE

IV. GROWTH OF PETROLEUM INDUSTRY IN INDIA

(000 Tonnes)

Year	Crude Oil		Petroleum Products	
	Production	Refineries Crude Throughout	Production	Consumption
1	2	3	4	5
1960	451	6091	5747	7964
1965	3022	9754	9113	12356
1970	6809	18459	17172	18816
1971	7185	19588	18225	20706
1972	7373	19672	18198	22675
1973	7198	20518	19089	23726
1974	7490	20783	19241	23023
1975	8283	21835	20368	23541
1976	8659	22762	21188	24897
1977	10185	24430	22795	26570
1978	11271	25626	23877	28894
1979	12839	28153	26360	31306
1980	9399	25075	23597	31633
1981	14925	29528	27575	34037
1982	19734	32107	29993	35403
1983	25148	34534	32298	37223
1984(P)	27933	35235	32948	39779

Rs/Crores

Year	GROSS IMPORTS			EXPORTS/RE-EXPORTS			NET POL IMPORTS (col 8-11)
	Crude Oil	Products	Total	Crude Oil	Products	Total	
(1)	6	7	8	9	10	11	12
1960	40.57	41.02	81.59	--	4.61	4.61	76.98
1965	40.38	44.73	85.11	--	3.92	3.92	81.19
1970	102.36	30.53	132.89	--	5.72	5.72	127.17
1971	139.88	43.49	183.37	--	2.55	2.55	180.82
1972	144.25	56.69	200.94	--	8.94	8.94	192.00
1973	244.56	88.03	332.59	0.42	5.35	5.77	326.82
1974	899.36	209.90	1109.26	--	19.37	19.37	1089.89
1975	992.02	199.46	1191.48	--	13.83	13.83	1177.65
1976	1145.56	219.70	1365.26	--	7.60	7.60	1357.66
1977	1258.92	272.99	1531.91	--	6.50	6.50	1525.41
1978	1243.89	414.13	1658.02	--	4.20	4.20	1653.82
1979	1787.38	727.56	2514.94	--	14.94	14.94	2500.00
1980	3038.66	1788.28	4826.94	--	17.98	17.98	4808.96
1981	3793.83	1638.58	5432.41	--	15.13	15.13	5417.28
1982	4116.89	1551.37	5668.26	1044.71	101.23	1145.94	4522.32
1983	3471.47	1246.60	4718.07	1041.87	286.64	1328.51	3389.56
1984(P)	3525.15	1850.28	5375.43	1598.55	271.63	1870.18	3505.25

(P) = Provisional.

* = Including Refinery Fuel.

GROWTH OF PETROLEUM INDUSTRY IN INDIA

(000 Tonnes)

Financial Year	Crude Oil		Petroleum Products	
	Production	Refineries Crude Throughout	Production	Consumption*
1	2	3	4	5
1960-61	448(e)	6130	5777	8285
1965-66	3473	10233	9561	12437
1970-71	6822	18379	17110	19135
1971-72	7299	20042	18639	21299
1972-73	7321	19328	17830	22978
1973-74	7189	20958	19495	23574
1974-75	7684	21094	19603	23302
1975-76	8448	22283	20829	23673
1976-77	8898	22995	21432	25400
1977-78	10763	24898	23219	26990
1978-79	11633	25974	24193	29719
1979-80	11766	27474	25794	31323
1980-81	10507	25836	24123	32261
1981-82	16194	30146	28182	34107
1982-83	21063	33156	31073	36395
1983-84	26020	35263	32926	37776
1984-85(P)	28990	35556	33228	40549

(Rs./Crores)

Financial Year	GROSS IMPORTS			EXPORTS/RE-EXPORTS			NET POL IMPORTS
	Crude Oil	Products	Total	Crude Oil	Products	Total	
(1)	6	7	8	9	10	11	12
						(e)	
1960-61	39.23	39.84	79.07	--	4.40(e)	4.40	74.67
1965-66	39.62	40.68	80.30	--	4.39	4.39	75.91
1970-71	106.72	29.91	136.63	--	4.67	4.67	131.96
1971-72	147.02	46.98	193.90	--	3.91	3.91	189.99
1972-73	146.37	60.58	206.95	--	8.16	8.16	198.79
1973-74	416.39	124.50	540.89	0.42	8.05	8.47	532.42
1974-75	916.99	195.00	1111.99	--	17.46	17.46	1094.53
1975-76	1051.76	204.34	1256.10	--	13.96	13.96	1242.14
1976-77	1175.91	248.23	1424.14	--	6.89	6.89	1417.25
1977-78	1246.20	305.34	1551.54	--	5.69	5.69	1545.85
1978-79	1251.17	429.99	1681.16	--	4.11	4.11	1677.05
1979-80	2187.53	1082.39	3269.92	--	24.02	24.02	3245.90
1980-81	3348.97	1917.52	5266.49	--	8.41	8.41	5258.08
1981-82	3736.38	1453.16	5189.54	196.23	15.13	211.36	4978.18
1982-83	4043.74	1553.94	5597.68	1063.37	133.79	1197.16	4400.52
1983-84	3541.05	1270.75	4811.80	1231.10	356.96	1588.06	3223.74
1984-85(P)	3430.34	1914.88	5345.22	1563.16	255.03	1818.19	3527.03

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

V PETROLEUM ENERGY

PETROLEUM ENERGY IN INDIA 1980-1984.

(Calendar Years)

AVAILABILITY

PRODUCTS	1980	1981	1982	1983	1984 (P)
1.	2.	3.	4.	5.	6.
	IN ORIGINAL UNITS (MILLION TONES)				
Kerosene	4.28	4.86	5.19	5.25	5.94
ATF	1.07	1.06	1.31	1.37	1.42
HSD	10.15	11.18	11.77	12.32	13.41
LDO	1.24	1.07	1.11	1.09	1.21
Fuel Oils	7.19	7.47	7.21	7.57	7.76
Others*	3.21	3.63	3.97	4.42	4.89
Total	27.14	29.27	30.56	32.02	34.63
	IN MILLION TONNES OF COAL EQUIVALENT UNITS @				
Kerosene	8.56	9.72	10.38	10.50	11.88
ATF	2.14	2.12	2.62	2.74	2.84
HSD	20.30	22.36	23.54	24.64	26.82
LDO	2.48	2.14	2.22	2.18	2.42
Fuel Oils	14.38	14.94	14.42	15.14	15.52
Others*	6.42	7.26	7.94	8.84	9.78
Total	54.28	58.54	61.12	64.04	69.26
	IN MILLION TONNES OF COAL REPLACEMENT UNITS @				
Kerosene	34.24	38.88	41.52	42.00	47.52
ATF	8.03	7.95	9.83	10.28	10.65
HSD	91.35	100.62	105.93	110.88	120.69
LDO	11.16	9.63	9.99	9.81	10.89
Fuel Oils	14.38	14.94	14.42	15.14	15.52
Others*	17.09	19.23	21.09	23.39	26.57
Total	176.25	191.25	202.78	211.50	231.84

CONSUMPTION

PRODUCTS	1980	1981	1982	1983	1984 (P)
1.	2.	3.	4.	5.	6.
	IN ORIGINAL UNITS (MILLION TONES)				
Kerosene	4.09	4.59	5.13	5.39	5.82
ATF	1.14	1.12	1.13	1.19	1.30
HSD	10.16	10.75	11.64	12.46	13.31
LDO	1.19	1.02	1.05	1.10	1.19
Fuel Oils	7.35	7.37	7.13	7.53	7.68
Others*	3.28	3.61	3.84	4.43	4.93
Total	27.21	28.46	29.92	32.10	34.23
	IN MILLION TONNES OF COAL EQUIVALENT UNITS @				
Kerosene	8.18	9.18	10.26	10.78	11.64
ATF	2.28	2.24	2.26	2.38	2.60
HSD	20.32	21.50	23.28	24.92	26.62
LDO	2.38	2.04	2.10	2.20	2.38
Fuel Oils	14.70	14.74	14.26	15.06	15.36
Others*	6.56	7.22	7.68	8.86	9.86
Total	54.18	56.92	59.84	64.20	68.46
	IN MILLION TONNES OF COAL REPLACEMENT UNITS @				
Kerosene	32.72	36.72	41.04	43.12	46.56
ATF	8.55	8.40	8.48	8.93	9.75
HSD	91.44	96.75	104.76	112.14	119.79
LDO	10.71	9.18	9.45	9.90	10.71
Fuel Oils	14.70	14.74	14.26	15.06	15.36
Others*	17.44	18.60	20.44	23.25	26.35
Total	175.56	184.39	198.43	212.40	228.52

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

@Based on conversion factors adopted by FPC, 1974.

PETROLEUM ENERGY IN INDIA: 1980-1981 TO 1984-85.

(Financial Years)

AVAILABILITY

PRODUCTS	1980-81	1981-82	1982-83	1983-84	1984-85(P)
1.	2.	3.	4.	5.	6.
		IN ORIGINAL UNITS (MILLION TONNES)			
Kerosene	4.46	4.88	5.27	5.52	5.90
ATF	1.03	1.12	1.38	1.35	1.41
HSD	10.59	10.88	12.34	12.62	13.59
LDO	1.18	1.03	1.12	1.12	1.25
Fuel Oils	7.46	7.43	7.29	7.57	7.91
Others*	3.28	3.68	4.13	4.53	5.04
Total	28.00	29.02	31.53	32.71	35.10
	IN MILLION TONNES OF COAL EQUIVALENT UNITS @				
Kerosene	8.92	9.76	10.54	11.04	11.80
ATF	2.06	2.24	2.76	2.70	2.82
HSD	21.18	21.76	24.68	25.24	27.18
LDO	2.36	2.06	2.24	2.24	2.50
Fuel Oils	14.92	14.86	14.58	15.14	15.82
Others*	6.56	7.36	8.26	9.06	10.08
Total	56.00	58.04	63.06	65.42	70.20
	IN MILLION TONNES OF COAL REPLACEMENT UNITS @				
Kerosene	35.68	39.04	42.16	44.16	47.20
ATF	7.73	8.40	10.35	10.13	10.58
HSD	95.31	97.92	111.06	113.58	122.31
LDO	10.62	9.27	10.08	10.08	11.25
Fuel Oils	14.92	14.86	14.58	15.14	15.82
Others*	17.54	19.38	21.99	24.24	27.69
Total	181.80	188.87	210.22	217.33	234.85

CONSUMPTION

PRODUCTS	1980-81	1981-82	1982-83	1983-84	1984-85(P)
1.	2.	3.	4.	5.	6.
		IN ORIGINAL UNITS (MILLION TONNES)			
Kerosene	4.23	4.69	5.21	5.52	5.93
ATF	1.13	1.13	1.15	1.21	1.34
HSD	10.35	10.83	12.01	12.60	13.64
LDO	1.12	1.04	1.07	1.10	1.21
Fuel Oils	7.47	7.18	7.30	7.56	7.79
Others*	3.31	3.70	4.08	4.59	5.10
Total	27.61	28.57	30.82	32.58	35.01
	IN MILLION TONNES OF COAL EQUIVALENT UNITS @				
Kerosene	8.46	9.38	10.42	11.04	11.86
ATF	2.26	2.26	2.30	2.42	2.68
HSD	20.70	21.66	24.02	25.20	27.28
LDO	2.24	2.08	2.14	2.20	2.42
Fuel Oils	14.94	14.36	14.60	15.12	15.58
Others*	6.62	7.40	8.16	9.18	10.20
Total	55.22	57.14	61.64	65.16	70.02
	IN MILLION TONNES OF COAL REPLACEMENT UNITS @				
Kerosene	33.84	37.52	41.68	44.16	47.44
ATF	8.48	8.48	8.63	9.08	10.05
HSD	93.15	97.47	108.09	113.40	122.76
LDO	10.08	9.36	9.63	9.90	10.89
Fuel Oils	14.94	14.36	14.60	15.12	15.58
Others*	17.35	19.04	21.61	24.13	27.45
Total	177.84	186.23	203.24	215.79	234.17

(P)= Provisional. *Includes LPG, Gasolines, Refinery Gas and Refinery Fuel.
@Based on conversion factors adopted by FPC, 1974.

VI. EXPLORATION AND PRODUCTION

RESERVES OF CRUDE OIL AND NATURAL GAS IN INDIA*

Crude Oil: Million Tonnes
Natural Gas: Billion Cubic Metres

Year	Gujarat		Assam@		Total Onsnore		Offshore		Grand Total	
	Crude Oil	Natural Gas	Crude Oil	Natural Gas	Crude Oil	Natural Gas	Crude Oil	Natural Gas	Crude Oil	Natural Gas
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
1966	62.73	23.09	90.27	40.06	153.00	63.15	-	-	153.00	63.15
1967	65.88	24.65	88.96	42.60	154.84	67.25	-	-	154.84	67.25
1968	64.92	21.80	76.08	41.54	141.00	63.34	-	-	141.00	63.34
1969	59.80	22.90	72.51	42.70	131.31	65.60	-	-	132.31	65.60
1970	56.38	19.66	71.46	42.82	127.84	62.48	-	-	127.84	62.48
1971	51.08	18.84	62.70	43.45	113.78	62.29	-	-	113.78	62.29
1972	52.28	16.88	72.90	45.63	125.18	62.51	-	-	125.18	62.51
1973	49.45	16.35	77.87	50.09	127.32	66.44	-	-	127.32	66.44
1974	48.45	16.18	76.05	51.68	124.50	67.86	-	-	124.50	67.86
1975	45.72	15.72	84.41	65.67	130.13	81.39	13.77	6.28	143.90	87.67
1976	45.79	16.41	81.99	61.85	127.78	78.26	147.68	106.62	275.46	184.88
1977	45.62	16.20	82.28	64.19	127.90	80.39	175.28	148.08	303.18	228.47
1978	47.49	15.66	78.50	64.05	125.99	79.71	221.04	186.15	347.03	265.86
1979	45.34	15.80	82.81	64.08	128.15	79.58	226.29	264.64	354.44	344.22
1980	52.73	16.39	82.65	64.56	135.38	80.95	230.95	270.96	366.33	351.91
1981	51.48	15.99	88.68	65.58	140.16	81.57	328.29	329.04	468.45	410.61
1982	53.18	18.18	92.39	71.05	145.57	89.23	325.18	330.62	470.75	419.85
1983	90.58	18.95	97.03	79.11	187.61	98.06	338.70	377.21	526.31	475.27
1984	88.00	18.60	99.01	81.84	187.01	100.44	323.81	377.81	510.82	478.25

* - Proved and indicated balance recoverable reserves.
@ - Including reserves of Crude Oil & Natural Gas in Nagaland, Rajasthan & Tripura.
Note: For AOC and OIL the figures relate to 1st January of each year but in the case of ONGC the data pertains to 1st October upto the year 1973 and there—after to 1st January of each year.

AREA WISE DEPLOYMENT OF DEEP DRILLING RIGS, WELLS & METREAGE DRILLED BY ONGC & OIL FROM 1970-71 TO 1984-85.

YEAR	ONSHORE			OFFSHORE			TOTAL		
	Rigs (Nos.)	Wells (Nos.)	Metreage ('000')	Rigs (Nos.)	Wells (Nos.)	Metreage ('000')	Rigs (Nos.)	Wells (Nos.)	Metreage ('000')
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
			(A.) OIL & NATURAL GAS COMMISSION:						
1970-71	55	89	168	--	--	1	55	89	168
1975-76	56	106	229	4	15	28	60	121	257
1976-77	59	99	216	5	24	49	64	123	265
1977-78	65	87	175	3	35	67	68	122	242
1978-79	65	67	159	4	16	43	69	83	202
1979-80	69	69	128	5	28	69	74	97	197
1980-81	74	72	134	7	32	78	81	104	212
1981-82	76	98	211	7	46	111	83	144	322
1982-83	77	114	224	14	64	162	91	178	386
1983-84	77	117	259	15	88	209	92	205	468
1984-85	86	127	280	14	69	161	100	196	441
			(B.) OIL INDIA LIMITED:						
1970-71	5	12	50	--	--	--	5	12	50
1975-76	3	11	36	--	--	--	3	11	36
1976-77	4	8	33	--	--	--	4	8	33
1977-78	4	19	73	--	--	--	4	19	73
1978-79	4	17	63	--	--	--	4	17	63
1979-80	4	13	50	--	--	--	4	13	50
1980-81	4	10	33	--	1	4	4	11	37
1981-82	5	17	64	--	--	--	5	17	64
1982-83	5	14	60	--	--	--	4	14	60
1983-84	5	23	79	--	2	10	5	25	89
1984-85	7	25	86	--	2	10	7	27	96
			TOTAL (A+B):						
1970-71	60	101	218	--	--	1	60	101	218
1975-76	59	117	265	4	15	28	63	132	293
1976-77	63	107	249	5	24	49	68	131	298
1977-78	69	106	248	3	35	67	72	141	315
1978-79	69	84	222	4	16	43	73	100	265
1979-80	73	92	178	5	28	69	78	110	247
1980-81	78	82	167	7	33	82	85	115	249
1981-82	81	115	275	7	46	111	88	161	386
1982-83	82	128	284	14	64	162	96	192	446
1983-84	82	140	338	15	90	219	97	230	557
1984-85	93	152	366	14	71	171	107	223	537

EXPLORATORY & DEVELOPMENT DRILLING DONE BY ONGC & OIL.

YEAR	Exploratory		Development		TOTAL.	
	Wells (Nos.)	Metreage ('000')	Wells (Nos.)	Metreage ('000')	Wells (Nos.)	Metreage ('000')
(1)	(2)	(3)	(4)	(5)	(6)	(7)
			(A)ON SHORE:			
1970-71	51+1P	106	50+3P	112	101+3P	218
1975-76	49+1P	120	68+1P	145	117+2P	265
1976-77	49+1P	116	58+1P	133	107+2P	249
1977-78	47+2P	113	59+1P	135	106+3P	248
1978-79	38+1P	96	46	126	84+1P	222
1979-80	43+2P	98	39+2P	80	82+4P	178
1980-81	44+1P	96	38+2P	71	82+3P	167
1981-82	52+2P	130	63+4P	145	115+6P	275
1982-83	57+3P	128	71+4P	156	128+7P	284
1983-84	61+3P	157	79+2P	181	140+5P	338
1984-85	70+5P	186	82+1P	180	152+6P	366
			(B)OFFSHORE:			
1970-71	--	1	--	--	--	1
1975-76	10	19	5	9	15	28
1976-77	17	35	7	14	24	49
1977-78	20	39	15	28	35	67
1978-79	16	43	--	--	16	43
1979-80	15+1P	40	13	29	28+1P	69
1980-81	15+1P	40	18	42	33+1P	82
1981-82	12	39	34	72	46	111
1982-83	17	57	47	105	64	162
1983-84	22+1P	70	68	149	90+1P	219
1984-85	20+1P	62	51	109	71+1P	171
			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
1976-77	66+1P	151	65+1P	147	131+2P	298
1977-78	67+2P	152	74+1P	163	141+3P	315
1978-79	54+1P	139	46	126	100+2P	265
1979-80	58+3P	138	52+2P	109	110+5P	247
1980-81	59+2P	136	56+2P	113	115+4P	249
1981-82	64+2P	169	97+4P	217	161+6P	386
1982-83	74+3P	185	118+4P	261	192+7P	446
1983-84	83+4P	227	147+2P	330	230	557
1984-85	90+6P	248	133+1P	289	223+7P	537

(P)=Partly Drilled.

STATUS OF WELLS (AS ON IST APRIL OF EACH YEAR)

(NUMBERS)

Company/ Year	OIL	GAS	DRY	UNDER TEST	INJEC-CTION	OTHERS	TOTAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			A. Assam Oil Company*				
1970	380	19	-	-	10	588	997
1975	377	7	-	-	5	612	1001
1976	380	6	-	-	5	610	1001
1977	404	8	-	-	6	583	1001
1978	415	10	-	-	6	570	1001
1979	416	10	-	-	6	569	1001
1980	417	10	-	-	6	568	1001
1981	418	9	-	-	6	568	1001
1982	418	9	-	-	6	568	1001
1983	441	-	305	16	4	235	1001
1984	440	5	305	20	5	226	1001
1985	431	4	305	7	7	247	1001
			B. Oil India Limited				
1970	216	12	29	24	7	-	288
1975	250	18	34	27	20	-	349
1976	251	20	34	32	25	-	362
1977	250	21	36	37	26	-	370
1978	264	21	37	40	27	-	389
1979	266	23	39	47	31	-	406
1980	273	26	40	48	34	-	421
1981	283	27	42	48	35	-	435
1982	291	34	42	20	37	30	454
1983	295	36	43	26	43	28	471
1984	307	38	45	32	46	34	502
1985	321	42	49	35	50	31	528
			C. OIL & Natural Gas Commission				
1970	442	63	191	76	20	-	792
1975	605	79	320	141	28	-	1173
1976	695	85	334	152	29	-	1295
1977	763	91	378	158	29	-	1419
1978	844	101	422	140	29	-	1536
1979	886	111	461	135	30	-	1623
1980	951	123	487	125	32	-	1718
1981	1008	133	508	137	38	-	1824
1982	1116	140	530	139	41	-	1966
1983	1219	154	551	178	42	-	2144
1984	1322	166	590	218	53	-	2349
1985	1434	170	657	216	67	-	2544
			TOTAL (A+B+C)				
1970	1033	94	220	100	37	588	2077
1975	1282	104	354	168	53	612	2523
1976	1326	111	368	184	59	610	2658
1977	1417	120	414	195	61	583	2790
1978	1523	132	459	180	62	570	2926
1979	1568	144	500	182	67	569	3030
1980	1641	159	527	173	72	568	3140
1981	1709	169	550	185	79	568	3260
1982	1825	183	572	159	84	598	3421
1983	1955	190	899	220	89	263	3616
1984	2069	209	940	270	104	260	3852
1985	2186	216	1011	258	124	278	4073

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

State-Wise Achievements of Geological Field parties Since inception upto March,1985.

(Provisional.)

STATE	GEOLOGICAL SURVEYS						
	Detailed mapping (Sqm.)	Semi-detailed mapping (Sqm.)	Traversing line (kms.)	Reconnaissance (Sqm.)	Special Studies (Sqm.)	Geoneotectonic studies (Sqm.)	Reconatory Traversing (Sqm.)
1.	2.	3.	4.	5.	6.	7.	8.
1. Andhra Pradesh (including Tamil Nadu, Kerala, Karnataka & Pondicherry)	3879	20089	1527	26904	-	388825 (CH) 13300 (GC) 10750	3300
2. Assam (include Meghalaya, Nagaland, Mizoram, Tripura & Arunachal Pradesh & Nefa	8005	29439	11310	4979	- (CW)	- 740 (Photo Geological mapping Sqm.Km.)	817 + 1100
3. Gujarat/Maharashtra, Madhya Pradesh	8258	46121	2864	13348	2926	-	-
4. Bihar	-	2061	93	-	-	-	-
5. Himachal Pradesh & Punjab	9710	10429	4915	4568	1489	-	330 (RM) 200
6. Jammu & Kashmir	1764	10192	1923	6548	70	CH 372	-
7. Uttar Pradesh	4658	11541	2087	913	4170	-	-
8. Rajasthan	3584	25065	1734	17890	-	-	-
9. West Bengal	912	4830	566	2365	-	5400	-
10. Nepal	194	8446	1087	-	-	-	-
11. Bhutan	-	1821	95	270	-	-	-
12. Andaman & Nicobar	608	3100	619	2281	-	-	-
TOTAL :	41572	173134	28820	80066	8655	394225 (CH) + 13672 (GC) + 10750 (CW) + 740	4447 +200 +1100

Abbreviations : RM - Road Mapping (Sqm.) CW - Compilation Work (Sqm.)
CH - Checking lines. GC - Group Checking.
In case of Oil India Ltd., no geological surveys were undertaken.

STATE-WISE ACHIEVEMENTSOF GEOPHYSICAL FIELD PARTIES OF ONGC SINCE INCEPTION UPTO MARCH:1985.

(Provisional)

STATE	DEPARTMENTAL		CONTRACT	
	Line Kms.	SLK	Line Kms.	SLK
1.	2.	3.	4.	5.
1. Andhra Pradesh	7160	5676	1184	--
2. Assam (including Tripura Mizoram, Arunachal Pradesh & Meghalaya)	15080 (2978)	5416	--	(2213)
3. Gujarat	43209	15096	246	--
4. Bihar	2431	646	--	--
5. Himachal Pradesh & Punjab	5480	133	--	549
6. Madras/Tamil Nadu	9575	4793	370	--
7. Jammu & Kashmir	1937	--	99	--
8. Orissa	1631	--	--	(3814)
9. Uttar Pradesh	12190	2202	--	--
10. Rajasthan	3554	2251	2403	-(913)
11. West Bengal	15329	5730	666	--
12. Arunachal Pradesh & Meghalaya	(34)	--	--	-(495)
TOTAL ONSHORE	(3012) 117576	41943	4968	(7435) 549
OFFSHORE	126933	--	119839	(7629)
TOTAL ONGC:	244509	41943	124807	549
TOTAL OIL	3012	--	--	15064

SLK: Standard Line Kilometres.
Figures in Parenthesis relates to Oil India Limited.

STATE-WISE ACHIEVEMENTSOF DRILLING BY ONGC SINCE INCEPTION UPTO MARCH:1985.

STATE	DRILLING (000 METRES)			
	Departmental		Contract	
	Wells	Metreage	Wells	Metreage
1.	2.	3.	4.	5.
A. ONLAND:				
1. Andhra Pradesh (including Kerla)	7	35.2	--	--
2. Assam, Andaman & Nicobar (including Tripura, Mizoram, Meghalaya, West Bengal and Nagaland)	504	1679.4	--	--
3. Gujarat (including Kutch Maharashtra and Madhya Pradesh)	1555	2556.0	--	--
Arunachal Pradesh	(521)	(1713)	--	--
4. Bihar	2	8.2	1	4.9
5. Himachal Pradesh (including Punjab)	8	23.6	2	9.5
6. Tamil Nadu & Pondichery	19	43.8	--	--
7. Jammu & Kashmir	3	6.6	--	--
8. Orissa	--	--	--	--
9. Uttar Pradesh	3	8.6	1	5.3
10. Rajasthan	12	22.0	6	11.4
B. OFFSHORE:				
1. Bombay High	261	555.3	--	--
2. Aliabet West	1	1.5	--	--
C. OTHERS:				
(OFF the Coromandal Coast, Gulf of Cambay, Kutch off/Strait, Arabian Sea, Mouth of Ganges and Mahanadi, Gulf of Mannar/ Off the Kerala Coast/Bay of Bengal Godavari/Andaman Offshore)	160	429.7	-(7)	(26.2)
GRAND TOTAL: (A+B+C):	2535	5369.9	10	31.1
	(521)	(1713)	(7)	(26.2)

Figures in parenthesis relates to Oil India Limited.

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

('000' Tonnes)

YEAR	ON-SHORE			OFFSHORE		GRAND TOTAL	COMMULATIVE PRODUCTION
	AOC	OIL	ONGC	TOTAL	ONGC		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Upto 1947	5826	-	-	5826	-	5826	5826
1948	255	-	-	255	-	255	6081
1949	258	-	-	258	-	258	6339
1950	259	-	-	259	-	259	6598
1951	269	-	-	269	-	269	6867
1952	263	-	-	263	-	263	7130
1953	269	3	-	272	-	272	7402
1954	278	30	-	308	-	308	7710
1955	272	75	-	347	-	347	8057
1956	307	89	-	396	-	396	8453
1957	277	163	-	440	-	440	8893
1958	214	226	-	440	-	440	9333
1959	202	248	-	450	-	450	9783
1960	179	272	-	451	-	451	10234
1961	184	319	10	513	-	513	10747
1962	188	556	334	1078	-	1078	11825
1963	184	805	663	1652	-	1652	13477
1964	170	1274	768	2212	-	2212	15689
1965	158	1742	1122	3022	-	3022	18711
1966	149	2143	2355	4647	-	4647	23358
1967	134	2752	2781	5667	-	5667	29025
1968	117	2771	2965	5853	-	5853	34878
1969	112	3074	3537	6723	-	6723	41601
1970	107	3070	3632	6809	-	6809	48410
1971	98	3146	3941	7185	-	7185	55595
1972	93	3183	4097	7373	-	7373	62968
1973	84	3102	4012	7198	-	7198	70166
1974	72	3080	4338	7490	-	7490	77656
1975	68	3087	5128	8283	-	8283	85939
1976	63	3092	5276	8431	228	8659	94598
1977	58	3120	5569	8747	1438	10185	104783
1978	55	2697	5551	8303	2968	11271	116054
1979	47	2848	5537	8432	4407	12839	128893
1980	41	796	4033	4870	4529	9399	138292
1981(a)	33	2803	5083	7919	7006	14925	153127
1982		2963	5304	8267	11467	19734	172951
1983		2794	5601	8395	16753	25148	198099
1984		2776	6007	8783	19150	27933	226032

(a) - After takeover of AOC by Govt. in Oct. 1981, its production wing was merged with OIL . So the production figures shown under AOC are upto 14th October, 81, thereafter the same have been merged with OIL.

COMPANYWISE PRODUCTION OF CRUDE OIL IN INDIA
(FINANCIAL YEARS)

('000 Tonnes)

Year	Onshore				Offshore	Grand	Cumulative production
	AOC	OIL	ONGC	TOTAL	ONGC	Total	since inception
1	2	3	4	5	6	7	8
1965-66	151	1895	1427	3473	-	3473	19915
1966-67	148	2217	2538	4903	-	4903	24818
1967-68	128	2836	2821	5785	-	5785	30603
1968-69	117	2848	3084	6059	-	6059	36662
1969-70	112	3079	3627	6819	-	6819	43481
1970-71	104	3084	3634	6822	-	6822	50303
1971-72	97	3159	4003	7299	-	7299	57602
1972-73	90	3131	4100	7321	-	7321	64923
1973-74	82	3079	4028	7189	-	7189	72112
1974-75	71	3079	4534	7684	-	7684	79796
1975-76	66	3103	5279	8448	-	8448	88244
1976-77	62	3085	5345	8492	406	8898	97142
1977-78	57	3113	5519	8689	2074	10763	107905
1978-79	53	2671	5599	8323	3310	11633	119538
1979-80	40	2215	5089	7344	4422	11766	131304
1980-81	48	1243	4231	5522	4985	10507	141811
1981-82	23(e)	2995	5201	8219	7975	16194	158005
1982-83		2830	5356	8186	12877	21063	179068
1983-84		2873	5755	8628	17392	26020	205088
1984-85		2735	6119	8854	20136	28990	234078

(P) Provisional.

(e) = 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 Oct. 1981 thereafter the same have been merged with OIL.

STATE-WISE PRODUCTION OF CRUDE OIL IN INDIA

('000 Tonnes)

YEAR	ON-SHORE				OFFSHORE	GRAND TOTAL
	Arunachal Pradesh	Assam	Gujarat	TOTAL		
1	2	3	4	5	6	7
			CALENDAR YEARS			
1960	-	451	-	451	-	451
1965	-	2900	1122	3022	-	3022
1970	-	3359	3450	6809	-	6809
1971	-	3542	3643	7185	-	7185
1972	-	3653	3720	7373	-	7373
1973	-	3594	3604	7198	-	7198
1974	-	3735	3755	7490	-	7490
1975	-	4189	4094	8283	-	8283
1976	-	4267	4164	8431	228	8659
1977	-	4510	4237	8747	1438	10185
1978	-	4076	4227	8303	2968	11271
1979	-	4563	3869	8432	4407	12839
1980	2	1056	3812	4870	4529	9399
1981	2	4373	3544	7919	7006	14925
1982	1	5124	3142	8267	11467	19734
1983	25	4901	3469	8395	16753	25148
1984	42	4939	3802	8783	19150	27933
			FINANCIAL YEARS			
1960-61	-	448	-	448	-	448
1965-66	-	2046	1427	3473	-	3473
1970-71	-	3367	3455	6822	-	6822
1971-72	-	3630	3669	7299	-	7299
1972-73	-	3609	3712	7321	-	7321
1973-74	-	3589	3600	7189	-	7189
1974-75	-	3814	3870	7684	-	7684
1975-76	-	4300	4148	8448	-	8448
1976-77	-	4305	4187	8492	406	8898
1977-78	-	4534	4155	8689	2074	10763
1978-79	-	4085	4238	8323	3310	11633
1979-80	-	3578	3766	7344	4422	11766
1980-81	2	1712	3808	5522	4985	10507
1981-82	2	4795	3422	8219	7975	16194
1982-83	1	5000	3185	8186	12877	21063
1983-84	31	5009	3588	8628	17392	26020
1984-85	51	4893	3910	8854	20136	28990

STATE-WISE GROSS PRODUCTION OF NATURAL GAS IN INDIA

(Million Cubic Metres)

YEAR	ONSHORE			OFFSHORE	GRAND TOTAL
	Assam	Gujarat	Total		
1.	2.	3.	4.	5.	6.
		CALENDAR YEARS			
1970	966	458	1424	-	1424
1971	993	516	1509	-	1509
1972	1031	533	1564	-	1564
1973	1155	519	1674	-	1674
1974	1328	590	1918	-	1918
1975	1550	760	2310	-	2310
1976	1595	815	2410	28	2438
1977	1677	888	2565	161	2726
1978	1527	903	2430	340	2770
1979	1709	843	2552	532	3084
1980	621	868	1489	588	2077
1981	1605	761	2366	1120	3486
1982	1855	741	2596	2065	4661
1983	1903	760	2664@	3104	5768
1984	2027	758	2786	4034	6820
		FINANCIAL YEARS			
1970-71	980	465	1445	-	1445
1971-72	1012	523	1535	-	1535
1972-73	1034	531	1565	-	1565
1973-74	1195	518	1713	-	1713
1974-75	1388	653	2041	-	2041
1975-76	1595	773	2368	-	2368
1976-77	1558	822	2380	48	2428
1977-78	1717	893	2610	229	2839
1978-79	1518	908	2426	386.	2812
1979-80	1385	840	2225	542	2767
1980-81	843	842	1685	673	2358
1981-82	1748	758	2506	1345	3851
1982-83	1829	750	2579	2357	4936
1983-84	1954	748	2702	3259	5961
1984-85	2058@	775	2833	4408	7241

@ = Includes one million Cubic Metres of Natural Gas produced from Arunachal Pradesh.

State-wise Gross and Net Production of Natural Gas

(Mn. Cubic Metres)

PERIOD	Gross Prodn.	Re-injected	Flarred	Net Prodn.
1.	2.	3.	4.	5.
		ON-SHORE		
GUJARAT				
1970-71	465	-	155	310
1971-72	523	-	143	380
1972-73	531	-	117	414
1973-74	518	-	144	374
1974-75	653	-	121	532
1975-76	773	-	136	637
1976-77	822	-	131	691
1977-78	893	-	147	746
1978-79	908	-	164	744
1979-80	840	-	178	662
1980-81	842	-	146	696
1981-82	758	-	77	681
1982-83	750	-	55	695
1983-84	748	-	67	681
1984-85	775	-	85	690
ASSAM				
1970-71	980	36	607	337
1971-72	1012	49	625	338
1972-73	1034	141	536	357
1973-74	1195	115	692	388
1974-75	1388	139	830	419
1975-76	1595	162	946	487
1976-77	1558	190	678	690
1977-78	1717	184	818	715
1978-79	1518	148	607	763
1979-80	1385	127	616	642
1980-81	843	67	257	519
1981-82	1748	110	768	870
1982-83	1829	91	876	862
1983-84	1954	45	1025	884
1984-85	2058	48	1074	936

State-wise Gross and Net Production of Natural Gas. (Contd.)

(Mn. Cubic Metres)

PERIOD	Gross Prodn.	Re-injected	Flarred	Net Prodn.
1.	2.	3.	4.	5.
		OFFSHORE		
BOMBAY-HIGH				
1970-71	-	-	-	-
1971-72	-	-	-	-
1972-73	-	-	-	-
1973-74	-	-	-	-
1974-75	-	-	-	-
1975-76	-	-	-	-
1976-77	48	-	48	-
1977-78	229	-	226	3
1978-79	386	-	182	204
1979-80	542	-	170	372
1980-81	673	-	366	307
1981-82	1345	-	674	671
1982-83	2357	-	957	1400
1983-84	3259	-	1425	1834
1984-85	4408	-	1893	2515
TOTAL				
1970-71	1445	36	762	647
1971-72	1535	49	768	718
1972-73	1565	141	653	771
1973-74	1713	115	836	762
1974-75	2041	139	951	951
1975-76	2368	162	1082	1124
1976-77	2428	190	857	1381
1977-78	2839	184	1191	1464
1978-79	2812	148	953	1711
1979-80	2767	127	964	1676
1980-81	2358	67	769	1522
1981-82	3851	110	1519	2222
1982-83	4936	91	1888	2957
1983-84	5961	45	2517	3399
1984-85	7241	48	3052	4141

State-wise Utilisation of Natural Gas in India

(Mn. Cubic Metres)

YEAR	ON-SHORE			OFFSHORE	GRAND TOTAL
	Gujarat	Assam	Total	BOMBAY HIGH	
1.	2.	3.	4.	5.	6.
1970-71	310	337	647	-	647
1971-72	380	338	718	-	718
1972-73	414	357	771	-	771
1973-74	374	388	762	-	762
1974-75	532	419	951	-	951
1975-76	637	487	1124	-	1124
1976-77	691	690	1381	-	1381
1977-78	746	715	1461	3	1464
1978-79	744	763	1507	204	1711
1979-80	662	642	1304	372	1676
1980-81	696	519	1215	307	1522
1981-82	681	870	1551	671	2222
1982-83	695	862	1557	1400	2957
1983-84	681	884	1565	1834	3399
1984-85	690	936	1626	2515	4141

INDUSTRY-WISE OFFTAKES OF NATURAL GAS IN INDIA.

(Million Cubic Metres)

YEAR	Energy Purposes							Non Energy Purpose				Grand Total
	Power Generation	Industrial Fuel	Tea plant-ation	LPG Shrinkage	Domestic Fuel	Captive use	Total	Ferti-lizer Industry	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	366	143	33	-	13	104	659	463	-	2	465	1124
1976-77	344	155	38	-	15	142	694	663	-	24	687	1381
1977-78	372	165	39	-	13	171	760	673	9	22	704	1464
1978-79	560	175	43	-	13	176	967	721	5	18	744	1711
1979-80	514	156	39	-	13	174	896	755	7	18	780	1676
1980-81	492	163	45	-	14	176	890	611	5	16	632	1522
1981-82	612	166	47	37	15	327	1204	991	8	19	1018	2222
1982-83	1025	185	51	100	14	399	1774	1155	7	21	1183	2957
1983-84	1209	230	56	161	16	411	2083	1283	10	23	1316	3399
1984-85*	1454	250	62	190	18	531	2505	1603	11	22	1636	4141

Neg. = Negligible
* = Provisional.

VII. REFINING

Petroleum Refining Capacity In India.

(Million Tonnes Per Annum)

Refinery	Year of Commissioning	Capacity as on 1.5.1985	Capacity after expansion under consideration.
1.	2.	3.	4.
A. Refineries in Operation:			
1. IOC, Digboi	1901	0.50	
2. BPCL, Bombay	1955	6.00	
3. HPCL, Bombay	1954	3.50	
4. HPCL, Vizag	1957	4.50	
5. IOC, Gauhati	1962	0.85	
6. IOC, Barauni	1964	3.30	
7. IOC, koyali	1965	7.30	
8. IOC, Haldia	1974	2.50	
9. IOC, Mathura	1982	6.00	
10. CRL, Cochin	1966	4.50	
11. MRL, Madras	1969	5.60	
12. BRPL, Assam	1979	1.00	
	TOTAL:	45.55	
B. Projects under Advance Stage of Consideration:			
1. Barauni		3.30	4.50
2. Haldia		2.50	5.50
3. Karnal			6.00
4. Mangalore			6.00

REFINERY CRUDE THROUGHPUT AND PRODUCTION OF PETROLEUM PRODUCTS 1960 TO 1984

('000' Tonnes)

YEAR	CRUDE THROUGHPUT			PRODUCTION		
	Public Sector	Private Sector	Total (2+3)	Public Sector	Private Sector	Total (5+6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		CALENDAR YEARS.				
1960	-	6091	6091	-	5747	5747
1961	-	6440	6440	-	6090	6090
1962	241	6762	7003	193	6391	6584
1963	470	7668	8138	407	7243	7650
1964	911	8021	8932	778	7650	8428
1965	1549	8205	9754	1328	7785	9113
1966	3476	8554	12030	3186	8097	11283
1967	6359	8071	14430	5814	7638	13452
1968	7707	8389	16096	7085	7838	14923
1969	9514	7981	17495	8736	7503	16239
1970	10994	7465	18459	10132	7040	17172
1971	11198	8390	19588	10293	7932	18225
1972	11838	7834	19672	10835	7363	18198
1973	11484	9034	20518	10522	8567	19089
1974	15107	5676	20783	13935	5306	19241
1975	16723	5112	21835	15602	4766	20368
1976	21163	1599	22762	19669	1519	21188
1977	23903	527	24430	22297	498	22795
1978	25096	530	25626	23372	505	23877
1979	27649	504	28153	25874	486	26360
1980	24668	407	25075	23213	384	23597
1981	29128	400	29528	27193	382	27575
1982	32107	-	32107	29993	-	29993
1983	34534	-	34534	32298	-	32298
1984	35235	-	35235	32948	-	32948

REFINERY CRUDE THROUGHPUT AND PRODUCTION OF PETROLEUM PRODUCTS 1960-61 TO 1984-85

('000' Tonnes)

YEAR	CRUDE THROUGHPUT:			PRODUCTION		
	Public Sector	Private Sector	Total (2+3)	Public Sector	Private Sector	Total (5+6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
			FINANCIAL YEARS			
1960-61	--	6130	6130	--	5777	5777
1961-62	60	6524	6584	11	6184	6195
1962-63	300	6964	7264	274	6627	6901
1963-64	554	7920	8474	493	7492	7985
1964-65	1005	8005	9010	842	7636	8478
1965-66	1966	8267	10233	1733	7828	9561
1966-67	4166	8547	12713	3741	8141	11882
1967-68	6783	8022	14805	6257	7512	13769
1968-69	8088	8459	16547	7457	7932	15389
1969-70	10087	7825	17912	9250	7342	16592
1970-71	10820	7559	18379	9965	7145	17110
1971-72	11575	8467	20042	10623	8016	18639
1972-73	11565	7763	19328	10575	7255	17830
1973-74	11616	9342	20958	10647	8848	19495
1974-75	15572	5522	21904	11572	8031	19603
1975-76	17045	5238	22283	15895	4934	20829
1976-77	21694	1301	22995	20203	1229	21432
1977-78	24364	534	24898	22712	507	23219
1978-79	25450	524	25974	23692	501	24193
1979-80	27066	408	27474	25403	391	25794
1980-81	25333	503	25836	23646	477	24123
1981-82	29912	234	30146	27931	251	28182
1982-83	33156	--	33156	31073	--	31073
1983-84	35263	--	35263	32926	--	32926
1984-85	35556	--	35556	33228	--	33228

REFINERY-WISE CRUDE RUN AND TOTAL PRODUCTION(NET) OF POL PRODUCTS 1960-61 TO 1984-85

('000' Tonnes)

YEAR	AOC/ AOD	BSR/ BPCL	ESSO/ HPCL	CORIL/ HPC(VMU)	GAUHATI	BARAUNI
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1960-61:						
Total Production	416	2731	1772	858	---	----
Crude Run	446	2879	1904	901	---	----
1965-66:						
Total Production	479	3743	2552	1053	721	613
Crude Run	488	3989	2672	1118	804	753
1970-71:						
Total Production	452	3333	2275	1085	631	1996
Crude Run	476	3541	2367	1175	686	2191
1975-76:						
Total Production	489	3438	2635	1007	762	2722
Crude Run	527	3630	2830	1081	827	2949
1979-80:						
Total Production	391	4615	2926	1000	606	2144
Crude Run	408	4821	3130	1100	646	2285
1980-81:						
Total Production	477	4629	2907	1208	577	432
Crude Run	503	4901	3113	1319	639	504
1981-82:						
Total Production	474	4754	3253	1067	667	2773
Crude Run	496	4999	3483	1178	746	3031
1982-83:						
Total Production	501	4272	2926	1004	733	2861
Crude Run	521	4485	3124	1077	802	3071
1983-84:						
Total Production	528	5073	3104	977	797	2662
Crude Run	549	5258	3308	1093	871	2907
1984-85*:						
Total Production	511	5230	3021	1157	710	2707
Crude Run	531	5481	3220	1249	761	2896

*Provisional.

REFINERY-WISE CRUDE RUN AND TOTAL PRODUCTION (NET) OF POL PRODUCTS: 1960-61 TO 1984-85

('000' Tonnes)

Y E A R	GUJARAT	HALDIA	MATHURA	CRL	MRL	BR & PL	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1960-61:							
Total Production	-	-	-	-	-	-	5777
Crude Run	-	-	-	-	-	-	6130
1965-66:							
Total Production	400	-	-	-	-	-	9561
Crude Run	409	-	-	-	-	-	10233
1970-71:							
Total Prod.	3208	-	-	2346	1784	-	17110
Crude Run	3463	-	-	2498	1982	-	18379
1975-76:							
Total Prod.	3859	1295	-	2187	2435	-	20829
Crude Run	4107	1348	-	2294	2690	-	22283
1979-80:							
Total Prod.	6350	2313	-	2731	2564	154	25794
Crude Run	6714	2492	-	2866	2822	190	27474
1980-81:							
Total Prod.	6629	2056	-	2795	2376	37	24123
Crude Run	6974	2308	-	2912	2611	52	25836
1981-82:							
Total Prod.	6711	2067	466	2999	2570	381	28182
Crude Run	7042	2277	520	3120	2801	453	30146
1982-83:							
Total Prod.	6667	2301	3610	3048	2635	515	31073
Crude Run	7089	2503	3844	3187	2857	596	33156
1983-84:							
Total Prod.	6813	2351	4914	2740	2438	529	32926
Crude Run	7331	2580	5223	2847	2647	649	35263
1984-85*:							
Total Prod.	7296	2101	5910	833	3139	614	33228
Crude Run	7777	2365	6239	872	3413	752	35556

* Provisional.

TRENDS IN DOMESTIC PRODUCTION OF PERTOLEUM PRODUCTS DURING THE PERIOD 1970-71 TO 1984-85.

(Qty. '000' Tonnes)

Products	1970-71	1975-76	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85(P)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1. Light Distillates of which :	3021	3630	4051	4295	4459	4101	5138	5313	6134	6316
LPG*	169	331	383	403	406	366	410	406	514	596
Mogas	1526	1275	1423	1515	1512	1519	1614	1797	1937	2144
Naphtha	1205	1910	2120	2262	2415	2115	3004	2986	3578	3471
2. Middle Distillates of which :	8562	10769	12079	12476	13080	12115	14134	15625	16873	17224
Kerosene	2896	2439	2450	2514	2539	2396	2907	3393	3528	3348
ATF	710	925	1077	1177	1104	1001	1009	1137	1195	1312
HSD	3840	6285	7129	7350	7975	7371	9042	9761	10862	11083
LDO	986	946	1224	1227	1230	1108	949	1121	1081	1253
3. Heavy Ends of which	5527	6430	7089	7422	8255	7907	8910	10135	9919	9688
F.O.	2987	3595	3454	3425	4086	4041	4015	4829	4588	4104
LSHS/HHS	1103	1488	1878	2219	2265	2079	2893	3135	3412	3797
Total Fuel Oils	4090	5083	5332	5644	6351	6120	6908	7964	8000	7901
Lube Oils	231	342	413	490	487	426	407	434	470	414
Petroleum Coke	151	160	155	122	99	86	141	149	136	160
Bitumen	805	697	992	962	1103	1082	1298	1397	1069	944
TOTAL PRODUCTION:	17110	20829	23219	24193	25794	24123	28182	31073	32926	33228
Crude Throughput	18379	22283	24898	25974	27474	25836	30146	33156	35263	35556
LPG Production from Natural Gas	--	--	--	--	--	--	73	169	223	277

(P) = Provisional.

* = Excludes LPG production from Natural Gas.

PRODUCTION OF PERTOLEUM PRODUCTS - 1981 TO 1984.

('000' Tonnes)

PRODUCT	PRODUCTION				% Variation	
	1981	1982	1983	1984 (P)	1983/1982	1984/1983
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	(a) From Crude Oil:					
1. Light Distillates:	5008	5112	5954	6224	+ 16.5	+ 4.5
of which						
L.P. Gas	411	377	484	583	+ 28.4	+ 20.5
Naphtha	2865	2871	3473	3477	+ 21.0	+ 0.1
Mogas	1629	1750	1880	2062	+ 7.4	+ 9.7
SBPS/Hexane	47	49	43	28	- 12.2	- 34.9
2. Middle Distillates:	13933	15013	16512	17004	+ 10.0	+ 3.0
of which						
ATF/Jet A-1	981	1092	1163	1332	+ 6.5	+ 14.5
Kerosene	2844	3253	3467	3304	+ 6.6	- 4.7
M.T.O.	98	90	84	105	- 6.7	+ 25.0
H.S.D.	8904	9365	10588	10954	+ 13.1	+ 3.5
L.D.O.	961	1104	1077	1197	- 2.4	+ 11.1
J.B.O.	90	61	80	50	+ 31.2	- 37.5
3. Heavy Ends:	8634	9868	9832	9720	- 0.4	- 1.1
of which						
F.O.	3825	4801	4486	4297	- 6.6	- 4.2
LSHS/HHS	2818	3010	3335	3618	+ 10.8	+ 8.5
Total (Fuel Oils)	6643	7811	7821	7915	+ 0.1	+ 1.2
Lube Oils	416	404	462	455	+ 14.4	- 1.5
Bitumen	1285	1300	1216	919	- 6.5	- 24.4
Pet. Coke*	126	159	127	159	+ 20.1	+ 25.2
Waxes	52	58	63	66	+ 8.6	+ 4.8
4. Total Production:	27575	29993	32298	32948	+ 7.7	+ 2.0
5. Crude Run:	29528	32107	34534	35235	+ 7.6	+ 2.0
	(b) From Natural Gas:					
6. L.P.G.	45	145	208	261	+ 43.4	+ 25.5

* Includes calcined Pet. Coke (P) Provisional.

PATTERN OF REFINERY PRODUCTION:

(Percentages)

PRODUCTS	1981	1982	1983	1984
Light Distillates@	17.0	15.9	17.2	17.7
Middle Distillates	47.2	46.8	47.8	48.3
Heavy Fuel Oils	22.5	24.3	22.7	22.5
Bitumens	4.4	4.0	3.5	2.6
Lubes	1.4	1.3	1.3	1.3
Others	0.9	1.1	0.9	1.1
Total Production	93.4	93.4	93.4	93.5
RBF & Losses/Inventories	6.6	6.6	6.6	6.5
Crude Run	100	100	100	100

PRODUCTION OF PERTOLEUM PRODUCTS - 1981-82 TO 1984-85

('000' Tonnes)

PRODUCT	PRODUCTION				% Variation	
	1981-82	1982-83	1983-84	1984-85(P)	1983-84 / 1982-83	1984-85 / 1983-84
(1)	(2)	(3)	(4)	(5)	(6)	(7)
(a) From Crude Oil:						
1. Light Distillates:	5138	5313	6134	6316	+ 15.5	+ 3.0
of which						
L.P.Gas	410	406	514	596	+ 26.6	+ 16.0
Naphtha	3004	2986	3578	3471	+ 19.8	- 3.0
Mogas	1614	1797	1937	2144	+ 7.8	+ 10.7
SBPS/Hexane	48	54	33	29	- 38.9	- 12.1
2. Middle Distillates:	14134	15625	16873	17224	+ 8.0	+ 2.1
of which						
ATF/Jet A-1	1009	1137	1195	1312	+ 5.1	+ 9.8
Kerosene	2907	3393	3528	3348	+ 4.0	- 5.1
M.T.O.	84	98	82	107	- 16.3	+ 30.5
H.S.D.	9042	9761	10862	11083	+ 11.3	+ 2.0
L.D.O.	949	1121	1081	1253	- 3.6	+ 15.9
J.B.O.	87	60	74	61	+ 23.3	- 17.6
3. Heavy Ends:	8910	10135	9919	9688	- 2.1	- 2.3
of which						
F.O.	4015	4829	4588	4104	- 5.0	- 10.5
LSHS/HHS	2893	3135	3412	3797	+ 8.8	+ 11.3
Total Fuel Oils	6908	7964	8000	7901	+ 0.5	- 1.2
Lube Oils	407	434	470	414	+ 8.3	- 11.9
Bitumens	1298	1397	1069	944	- 23.5	- 11.7
Pet. Coke	141	149	136	160	- 9.4	+ 18.5
Waxes	55	58	64	73	+ 10.3	+ 14.1
4. Total Production:	28182	31073	32926	33228	+ 6.0	+ 0.9
5. Crude Run	30146	33156	35263	35556	+ 6.4	+ 0.8
(b) From Natural Gas:						
6. L.P. Gas	73	169	223	277	+ 32.0	+ 24.2

(P) Provisional. * Includes calcined Pet. Coke.

PATTERN OF REFINERY PRODUCTION:

(Percentages)

PRODUCTS	1981-82	82-83	83-84	84-85
Light Distillates	17.0	16.0	17.4	17.8
Middle Distillates	46.9	47.1	47.9	48.4
Heavy Fuel Oils	22.9	24.0	22.7	22.2
Bitumens	4.3	4.2	3.0	2.7
Lubes	1.4	1.3	1.3	1.2
Others	1.0	1.1	1.1	1.2
Total Production	93.5	93.7	93.4	93.5
RBF & Losses/Inventories	6.5	6.3	6.6	6.5
Crude Run	100	100	100	100

VII. CONSUMPTION/SALES

SALES/CONSUMPTION OF PETROLEUM PRODUCTS
(Incl. Sales to Nepal*, Sikkim, Bhutan and Bunkers/ International Airlines)

Qty.'000' Tonnes.

Year	Total Consumption	% age Growth	Year	Total consumption	% age Growth
1.	2.	3.	4.	5.	6.
1948	2657	- 2.9	1948-49	2774e	+ 2.1
1949	3125	+17.6	1949-50	3174e	+14.4
1950	3319	+ 6.2	1950-51	3485e	+ 9.8
1951	3888	+17.1	1951-52	3851e	+10.5
1952	3741	- 3.8	1952-53	3785e	- 1.7
1953	3916	+ 4.7	1953-54	3948e	+ 4.3
1954	4089	+ 4.4	1954-55	4270e	+ 8.2
1955	4817	+17.8	1955-56	4920e	+15.2
1956	5229	+ 8.6	1956-57	5376e	+ 9.3
1957	5819	+11.3	1957-58	5894e	+ 9.6
1958	6117	+ 5.1	1958-59	6291e	+ 6.7
1959	6812	+11.4	1959-60	7100e	+12.9
1960	7964	+16.9	1960-61	8285	+16.7
1961	8570	+ 7.6	1961-62	8724	+ 5.3
1962	9536	+11.3	1962-63	9832	+12.7
1963	10387	+ 8.9	1963-64	10671	+18.3
1964	11478	+10.5	1964-65	11700	+ 9.7
1965	12356	+ 7.6	1965-66	12437	+ 6.3
1966	12990	+ 5.1	1966-67	13348	+ 7.3
1967	14133	+ 8.8	1967-68	14397	+ 7.9
1968	15871	+12.3	1968-69	16305	+13.3
1969	17371	+ 9.3	1969-70	17797	+ 9.2
1970	18816	+ 8.3	1970-71	19135	+ 7.5
1971	20706	+10.0	1971-72	21299	+11.3
1972	22675	+ 9.5	1972-73	22978	+11.3
1973	23726	+ 4.6	1973-74	23574	+ 2.6
1974	23023	- 3.0	1974-75	23302	+ 1.2
1975	23541	+ 2.2	1975-76	23673	+ 1.6
1976	24897	+ 5.8	1976-77	25400	+ 7.3
1977	26570	+ 6.7	1977-78	26990	+ 6.3
1978	28894	+ 8.7	1978-79	29719	+10.1
1979	31306	+ 8.3	1979-80	31323	+ 5.4
1980	31633	+ 1.0	1980-81	32261	+ 3.0
1981	34037	+ 7.6	1981-82	34107	+ 5.7
1982	35403	+ 4.0	1982-83	36395	+ 6.7
1983	37223	+ 5.1	1983-84	37776	+ 3.8
1984(P)	39779	+ 6.9	1984-85(P)	40549	+ 7.3

NOTE:- i) Includes Refinery fuel from 1960/1960-61 onwards.
ii) Prior to that Refinery fuel consumption is not available.
* - Excludes sales to Nepal from 1975/1975-76 onwards.
(P)- Provisional.
e - Estimated.

TRENDS IN SALES/CONSUMPTION OF PETROLEUM PRODUCTS DURING THE PERIOD 1970-71 TO 1984-85.

('000' Tonnes)

PRODUCT	1970 -71	1975 -76	1976 -77	1977 -78	1978 -79	1979 -80	1980 -81	1981 -82	1982 -83	1983 -84	1984 -85(P)	Annual Rate of Growth 1984-85/ 1970-71
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
1. LIGHT DISTILLATES:	2697	3596	4042	4228	4583	4460	4388	5187	5420	5600	6288	+ 6.2
of which: LPG	176	336	368	391	408	410	405	492	601	746	945	+12.8
Mogas	1453	1275	1316	1391	1499	1490	1522	1599	1722	1891	2086	+ 2.6
Naphtha	904	1836	2196	2290	2515	2413	2325	2963	2958	2804	3110	+ 9.2
2. MIDDLE DISTILLATES:	9040	11653	12655	13771	15172	16321	17056	17919	19660	20651	22352	+ 6.7
of which : Kerosene	3283	3104	3322	3634	3952	3872	4228	4693	5214	5524	5928	+ 4.3
ATF/Jet A-1	689	897	956	1041	1154	1144	1125	1128	1145	1208	1337	+ 4.8
HSD	3837	6595	7106	7736	8638	9801	10345	10832	12013	12600	13642	+ 9.5
LDO	1092	878	1082	1164	1216	1266	1122	1036	1067	1097	1210	+ 0.7
3. HEAVY ENDS:	6175	7198	7404	7540	8486	9102	9452	9417	9577	9590	9864	+ 3.4
FO/TDO	3513	4279	4220	3958	4395	4796	5406	4306	4208	4207	4159	+ 1.2
LSHS	962	1381	1499	1847	2189	2268	2065	2878	3093	3351	3631	+ 8.6
HHS	189	121	14	34	84	17	2					
Total Fuel Oils	4664	5781	5733	5839	6668	7081	7473	7184	7301	7558	7790	+ 3.7
Lube Oils	523	425	436	459	526	546	570	567	577	590	634	+ 1.4
Greases	22	16	18	19	18	20	23	25	28	27	25	+ 0.9
Lubes & Greases (Total)	545	441	454	478	544	566	593	592	605	617	659	+ 1.4
Bitumens	777	690	882	908	943	1069	1064	1292	1379	1050	937	+ 1.4
Petroleum Coke	107	151	175	146	155	185	137	174	103	114	233	+ 5.7
Other Misc.	82	135	160	170	176	201	185	175	189	251	245	+ 8.1
TOTAL (1+2+3):	17912	22447	24101	25539	28241	29883	30896	32523	34657	35841	38504	+ 5.6
Refinery Fuel	1223	1226	1299	1451	1478	1440	1365	1584	1738	1935	2045	+ 3.7
GRAND TOTAL:	19135	23673	25400	26990	29719	31323	32261	34107	36395	37776	40549	+ 5.5

(P) = Provisional.

PRODUCT-WISE SALES/CONSUMPTION OF PETROLEUM PRODUCTS DURING THE YEARS 1981 TO 1984.

(Qty.'000' Tonnes)

PRODUCT	1981	1982	1983	1984 (P)	% change 1984/83	% age of Total 1984
1.	2.	3.	4.	5.	6.	7.
1.Light Distillates:	5125	5327	5390	6197	15.0	15.6
L.P. Gas	468	560	702	877	24.9	2.2
Naphtha	2954	2944	2696	3131	16.1	7.9
Mogas	1574	1691	1834	2030	10.7	5.1
SBP/Hexane	46	48	52	54	3.8	0.1
Others	83	84	106	99	-6.6	0.3
2.Middle Distillates	17714	19166	20363	21856	7.3	55.0
Kerosene	4588	5125	5392	5824	8.0	14.6
ATF/Jet A-1	1116	1128	1187	1301	9.6	3.3
HSD	10748	11642	12459	13307	6.8	33.5
LDO/MDO	1022	1050	1095	1186	8.3	3.0
JBO	79	70	76	64	-15.8	0.2
MTO	92	87	85	98	15.3	0.2
Others	68	64	69	76	10.1	0.2
3. Heavy Ends:	9651	9340	9591	9719	1.3	24.4
(a) Fuel Oils(total)	7369	7126	7527	7682	2.1	19.3
F.O./TDO	4607	4107	4269	4175	-2.2	10.5
LSHS/HHS	2762	3019	3258	3507	7.6	8.8
(b) Lubes & Greases	616	597	605	652	7.8	1.6
(c) Bitumen/Asphalt	1302	1304	1134	941	-17.0	2.4
(d) Pet. coke	188	125	101	201	99.0	2.5
(e) Wax	71	56	75	59	-21.3	0.1
(f) Others	105	132	149	184	23.5	0.5
Total (1+2+3)	32490	33833	35344	37772	6.9	95.0
Refinery Fuel@	1547	1570	1879	2007	6.8	5.0
GRAND TOTAL:	34037	35403	37223	39779	6.9	100.0

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

PRODUCT-WISE SALES/CONSUMPTION OF PETROLEUM PRODUCTS DURING THE YEARS 1981-82 TO 1984-85

(Qty. '000' Tonnes)

PRODUCT	1981-82	1982-83	1983-84	1984-85(P)	% change 1984-85 1983-84	% age of Total 1984-85
1.	2.	3.	4.	5.	6.	7.
1. Light Distillates:	5187	5420	5600	6288	12.3	15.5
L.P. Gas	492	601	746	945	26.7	2.3
Naphtha	2963	2958	2804	3110	10.9	7.7
Mogas	1599	1722	1891	2086	10.3	5.1
SBP/Hexane	48	47	54	42	-22.2	0.1
Others	85	92	105	105	--	0.3
2. Middle Distillates:	17919	19660	20651	22352	8.2	55.1
Kerosene	4693	5214	5524	5928	7.3	14.6
ATF/Jet A-1	1128	1145	1208	1337	10.7	3.3
HSD	10832	12013	12600	13642	8.3	33.6
LDO/MDO	1036	1067	1097	1210	10.3	3.0
JBO	75	72	64	74	15.6	0.2
MTO	89	85	88	100	13.6	0.2
Others	66	64	70	61	-12.9	0.2
3. Heavy Ends:	9417	9577	9590	9864	2.9	24.3
(a) Fuel Oils(total)	7184	7301	7558	7790	3.1	19.2
F.O./TDO	4306	4208	4207	4159	-1.1	10.2
LSHS/HHS	2878	3093	3351	3631	8.4	9.0
(b) Lubes & Greases	592	605	617	659	6.8	1.6
(c) Bitumen/Asphalt	1292	1379	1050	937	-10.8	2.3
(d) Pet. coke Wax	67	60	70	67	-4.3	0.2
(e) Wax Pet. coke	174	103	114	233	104.4	0.6
(f) Others	108	129	181	178	-1.7	0.4
Total (1+2+3)	32523	34657	35841	38504	7.4	94.9
Refinery Fuel@	1584	1738	1935	2045	5.7	5.1
GRAND TOTAL:	34107	36395	37776	40549	7.3	10.0

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

Seasonal Indices of the Sales/Consumption of Major Patroleum Production in India.

MONTH	M. S.	A.T.F.	KEROSENE	H.S.D.	L.D.O.	BITUMEN	ALL Products
1.	2.	3.	4.	5.	6.	7.	8.
April	8.34	8.42	7.83	8.75	8.16	7.50	8.16
May	9.25	8.34	7.83	9.17	8.09	7.75	8.42
June	8.50	7.91	7.75	8.34	7.08	7.75	8.00
i) Quarter Total	26.09	24.67	23.41	26.26	23.33	23.00	24.58
July	8.16	8.16	8.00	7.75	6.50	7.92	8.00
August	7.83	8.09	8.09	7.08	6.75	7.58	7.83
September	7.92	8.16	8.34	7.50	7.67	7.84	8.00
ii) Quarter Total	23.91	24.41	24.43	22.33	20.82	23.34	23.83
October	8.16	8.67	8.58	8.00	8.75	8.50	8.42
November	8.00	8.50	8.83	8.50	9.92	8.25	8.59
December	8.67	8.42	9.08	9.00	10.17	9.33	9.00
iii) Quarter Total	24.83	25.59	26.49	25.50	28.84	26.08	26.01
January	8.25	8.42	9.00	8.75	9.66	8.50	8.67
February	8.50	8.16	8.25	8.25	8.34	8.42	8.16
March	8.42	8.75	8.42	8.91	8.91	10.66	8.75
iv) Quarter Total	25.17	25.33	25.67	25.91	26.91	27.58	25.58
TOTAL :	100	100	100	100	100	100	100

NOTE: Based on Sales/Consumption data from 1970-71 to 1982-83

SALES/CONSUMPTION OF PETROLEUM PRODUCT AND MARKET PARTICIPATION OF OIL COMPANIES IN INDIA. 1960-61 TO 1984-85.

(Qty. '000' Tonnes)

YEAR		I.O.C.	B. Shell/ BPCL	Esso/ HPCL	Caltex/@ HPCL(VMU)	IBP	Others	TOTAL
1.		2.	3.	4.	5.	6.	7.	8.
1960-61	S/C	38	3722	2302	1270	155	498	7985
(E)	%	0.5	46.6	28.8	15.9	2.0	6.2	100
1965-66	S/C	2812	4270	2816	1390	168	461	11917
(E)	%	23.6	35.8	23.6	11.7	1.4	3.9	100
1970-71	S/C	9212	4219	2538	1279	291	373	17912
	%	51.4	23.6	14.2	7.1	1.6	2.1	100
1971-72	S/C	10959	4153	2717	1316	404	522	20071
	%	54.6	20.7	13.5	6.6	2.0	2.6	100
1972-73	S/C	12788	4085	2620	1185	474	564	21716
	%	58.9	18.8	12.1	5.4	2.2	2.6	100
1973-74	S/C	13745	3985	2392	1095	536	593	22346
	%	61.5	17.8	10.7	4.9	2.4	2.7	100
1974-75	S/C	14363	3184	2510	972	620	456	22105
	%	65.0	14.4	11.4	4.4	2.8	2.0	100
1975-76	S/C	14525	3151	2647	931	659	534	22447
	%	64.7	14.0	11.8	4.2	2.9	2.4	100
1976-77	S/C	15321	3775	2809	974	702	520	24101
	%	63.6	15.7	11.6	4.0	2.9	2.2	100
1977-78	S/C	15721	4217	3083	1146	826	546	25539
	%	61.5	16.5	12.1	4.5	3.2	2.2	100
1978-79	S/C	17223	4601	3488	1348	938	643	28241
	%	61.0	16.3	12.3	4.8	3.3	2.3	100
1979-80	S/C	18136	4968	3768	1393	1012	1618	29883
	%	60.7	16.6	12.6	4.7	3.4	2.0	100
1980-81	S/C	18494	5297	5596	--	1034	475	30896
	%	59.9	17.1	18.1	--	3.3	1.6	100
1981-82	S/C	20155	5317	5687	--	1107	257	32523
	%	62.0	16.3	17.5	--	3.4	0.8	100
1982-83	S/C	21317	5760	6079	--	1252	249	34657
	%	61.5	16.6	17.6	--	3.6	0.7	100
1983-84	S/C	21629	6211	6491	--	1326	184	35841
	%	60.4	17.3	18.1	--	3.7	0.5	100
1984-85	S/C	22753	7045	6948	--	1463	295	38504
(P)	%	59.1	18.3	18.0	--	3.8	0.8	100

S/C = Sales/Consumption
P = Provisional.

E = Estimated
@ = Included under ESSO/HPCL from 1980-81 onwards.

Deliveries* made to International/Coastal Bunkers during the year 1970 -71, 1975-76, 1979-80, 1980-81, 1981-82, 1982-83, 1983-84 & 1984-85.

(Qty.'000' Tonnes)

I T E M S	1970 -71	1975 -76	1979 -80	1980 -81	1981 -82	1982 -83	1983 -84	1984 -85(P)
1.	2.	3.	4.	5.	6.	7.	8.	9.
Shipping International Bunkers:								
F.O.	207.9	137.2	135.8	148.7	67.1	85.0	104.4	159.7
H.S.D.	6.4	11.4	17.7	15.4	16.8	14.5	17.0	12.6
L.D.O.	20.0	39.5	63.1	50.4	52.3	41.7	42.3	36.8
TOTAL:	234.3	188.1	216.6	214.5	136.2	141.2	199.7	209.1
Coastal Bunkers:								
F.O.	196.9	178.3	126.4	128.9	149.6	172.2	142.0	143.0
H.S.D.	22.4	25.9	41.9	42.0	61.4	81.0	86.3	86.2
L.D.O.	21.6	28.1	28.4	32.4	36.8	47.8	47.1	46.9
TOTAL:	240.9	232.3	196.7	204.3	247.8	301.0	275.4	276.1
Total Bunkers:								
F.O.	404.8	315.5	262.2	277.6	216.7	257.2	282.4	302.7
H.S.D.	28.8	37.3	59.6	58.4	78.2	95.5	103.3	98.8
L.D.O.	41.6	67.6	91.5	82.8	89.1	89.5	89.4	83.7
TOTAL:	475.2	420.4	413.3	418.8	384.0	442.2	475.1	485.2

* = Excluding Sales to foreign bunkers on KNPC account by IOC.
P = Provisional.

ESTIMATED STATE-WISE CONSUMPTION OF BULK PETROLEUM PRODUCTS @ 1984-85
('000' Tonnes)

TATE/UNION ERRITORY	ATF	M.S	SKO	HSD	LDO	F.O- (Reg.)	LSHS	NAP- HTHA	LPG	BIT- UMEN	OTHER	TOTAL
1.	2.	3.	4.	5.	6.	7.	8.	9.	10	11.	12.	13.
STATE												
Andhra	37	122	418	1086	26	144	40	77	75	55	70	2150
Assam	45	39	185	231	9	45	20	--	16	20	66	676
Bihar	8	79	308	729	108	131	301	97	20	9	81	1871
Gujarat	36	178	550	970	278	430	1343	584	80	93	191	4733
Haryana	22	48	112	513	35	174	141	--	22	24	23	1114
Himachal Pradesh	--	8	23	60	1	3	--	--	3	4	2	104
Jammu & Kashmir	10	17	51	82	5	4	6	--	3	6	8	192
Karnataka	30	131	315	719	18	172	5	164	46	26	42	1668
Kerla	22	120	178	452	10	133	75	193	16	46	47	1292
Madhya Pradesh	7	78	269	784	10	326	7	33	28	13	88	1643
Maharashtra	482	388	1050	1667	256	811	911	324	244	122	289	6544
Manipur	--	6	16	15	1	--	--	Neg.	1	10	Neg.	49
Meghalaya	--	8	11	28	1	--	--	--	2	2	Neg.	52
Nagaland	Neg.	7	7	12	Neg.	1	--	--	1	--	2	30
Orissa	9	29	100	243	8	74	83	73	3	5	20	647
Punjab	61	113	232	912	21	215	328	--	31	21	35	1969
Rajasthan	36	64	177	751	27	81	Neg.	150	32	24	33	1375
Sikkim	--	2	3	3	Neg.	--	--	--	Neg.	Neg.	1	9
Tamil Nadu	52	142	475	1225	49	625	200	476	80	85	118	3527
Tripura	2	3	13	16	Neg.	Neg.	--	--	1	5	Neg.	40
Uttar Pradesh	58	163	654	1469	123	214	83	653	83	132	138	3770
West Bengal	89	114	557	817	152	343	85	110	54	62	350	2733
TOTAL (A)	1006	1859	5704	12784	1138	3926	3628	2934	841	764	1604	36188
UNION TERRITORIES.												
& N Islands	2	1	2	19	3	1	--	--	--	--	Neg.	28
runachal Pradesh	Neg.	2	4	11	Neg.	--	--	--	Neg.	1	Neg.	18
handigarh	21	12	15	24	4	3	--	--	8	28	3	118
elhi	299	187	165	474	60	123	3	2	89	38	58	1498
adra & Nagar aveli	--	1	1	2	Neg.	Neg.	--	--	Neg.	--	Neg.	4
oa, Daman & Diu	9	12	21	81	5	103	--	174	5	102	33	545
akshadweep	Neg.	--	Neg.	1	--	Neg.	--	--	--	--	--	1
izoram	--	4	4	12	--	--	--	--	1	1	Neg.	22
ondicherry	--	6	10	41	Neg.	3	--	--	1	1	Neg.	62
OTAL (B)	331	225	222	665	72	233	3	176	104	171	94	2296
UTSIDE TERRITORIES.												
hutan	Neg.	2	2	13	Neg.	--	--	--	Neg.	2	1	20
GRAND TOTAL (A+B+C)	1337	2086	5928	13462	1210	4159	3631	3110	945	937	1699	38504

- @ = Figures include sales to bunkers and have been estimated on the basis of data available for first 10 months of 1984-85.

Estimated State-wise per capita Sales/Consupmtion of POL Products (excluding International Bunkers). (Kgs.)

State/ Territory	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85(P)
A. STATES						
Andhra Pradesh	33.7	33.3	32.7	34.3	36.2	37.7
Assam	23.0	26.6	27.0	28.4	27.6	31.0
Bihar	19.3	20.5	23.5	26.4	24.7	25.1
Gujarat	116.1	114.6	112.3	124.6	123.4	129.8
Haryana	59.1	64.7	78.7	76.9	77.0	80.5
Himachal Pradesh	19.1	19.9	19.8	19.5	20.9	23.1
Jammu & Kashmir	28.6	27.7	27.3	26.4	28.6	29.7
Karnataka	36.4	34.1	35.9	36.6	38.4	42.0
Kerala	43.0	44.9	44.4	43.3	44.3	48.2
Madhya Pradesh	20.5	21.6	23.0	25.4	28.1	29.4
Maharashtra	88.7	92.4	90.0	87.3	92.8	97.8
Manipur	22.5	29.2	32.6	33.3	42.3	32.0
Meghalaya	21.5	20.2	21.1	26.2	36.2	35.9
Nagaland	30.0	28.4	31.2	33.8	39.8	34.9
Orissa	20.1	20.5	24.4	23.6	22.2	23.4
Punjab	79.5	84.0	96.5	100.1	105.8	111.0
Rajasthan	31.7	31.8	33.2	35.8	34.9	37.2
Sikkim	32.4	36.7	25.8	27.6	27.3	26.5
Tamil Nadu	63.3	66.8	60.8	66.5	65.6	69.6
Tripura	11.1	13.1	17.1	17.5	15.2	17.9
Uttar Pradesh	23.1	23.1	26.7	28.9	29.0	31.7
West Bengal	36.2	39.8	41.6	42.0	45.4	47.2
B. OTHER AREAS						
Chandigarh	117.6	209.3	217.8	185.8	226.0	226.9
Delhi	184.4	187.6	188.4	195.0	208.2	214.9
Goa (incl. Daman & Diu Dadra & Ngr.Haveli)	416.7	290.6	401.8	414.8	368.1	425.6
Others	82.1	52.0	54.6	60.2	56.9	60.6
TOTAL ALL-INDIA @	47.9	48.2	49.5	52.0	52.8	55.5

Estimated per capita consumption of selected pertoleum products - 1979-80 to 1983-84 (incl. Bunkers).

PRODUCT	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85(P)
Naphtha	3.7	3.5	4.3	4.2	3.9	4.3
M.S.	2.3	2.3	2.3	2.5	2.6	2.8
SKO	5.9	6.3	6.9	7.5	7.7	8.1
HSDO	15.0	15.5	15.7	17.2	17.6	18.7
LDO	1.9	1.7	1.5	1.5	1.5	1.6
F.O. (Regular)	7.3	8.1	6.3	6.0	5.9	5.7
LSHS/HHS	3.5	3.1	4.2	4.4	4.7	5.0
TOTAL ALL-INDIA @ SALES CONSUMPTION	47.9	48.2	49.5	52.0	52.8	55.5

Note: i) Based on Expert Committee's popultion projections as on 1st July each year and projections on 1971 Consus basis.

ii) Includes Mogas, Kerosene, ATF, HSDO, LDO, Fuel Oils, LPG, Naphtha and Bitumen in 1979-80 and all products except (lubricants) in 1980-81 to 1982-83 but incl. lubricants in 1983-84 and 1984-85.

@ = All-India actual consumption of all products incl. Ref. Fuel & International Bunkers.

ESTIMATED SECTOR-WISE (END-USE) INDUSTRY CONSUMPTION OF LP GAS & NAPHTHA 1982-83, 1983-84 & 1984-85.

(Qty. '000' Tonnes)

SECTOR	1982-83 Consumption	1982-83 % to Total	1983-84 Consumption	1983-84 % to Total	1984-85(P) Consumption	1984-85(P) % to Total
1.	2.	3.	4.	5.	6.	7.
		L. P. GAS:				
1. Domestic	530	88.2	660	88.5	835	88.4
2. Commercial/Industry	70	11.6	86	11.5	110	11.6
3. Others	1	0.2	Neg.	Neg.	Neg.	Neg.
TOTAL:	601	100.0	746	100.0	945	100.0
		NAPHTHA.				
1. Fertilizers	2282	77.1	2134	76.1	2313	74.4
2. Petrochemicals	658	22.3	653	23.3	769	24.7
3. Others	18	0.6	17	0.6	28	0.9
TOTAL:	2958	100.0	2804	100.0	3110	100.0

ESTIMATED SECTOR-WISE (END-USE) INDUSTRY CONSUMPTION OF HSDO, LDO, FO, LSHS: 1982-83, 1983-84 & 1984-85.

(Qty. '000' Tonnes)

SECTOR	1982-83 Consumption	1982-83 % to Total	1983-84 Consumption	1983-84 % to Total	April - Dec..84(P) Consumption	April - Dec..84(P) % to Total
1.	2.	3.	4.	5.	6.	7.
		HSDO				
. Transport:						
i) Railways	1040	8.7	1105	8.8	813	8.2
ii) Water ways:						
a) Coastal & Inland Bunkers	81	0.7	86	0.7	59	0.6
b) International Bunkers	15	0.1	17	0.1	10	0.1
iii) Other transport (incl. Agr. retail trade)	9267	77.1	9841	78.1	7830	78.6
Sub - TOTAL - 1.	10403	86.6	11049	87.7	8712	87.5
. Plantation/Food (incl. processing)	114	0.9	119	0.9	105	1.0
Power Generation (Utilities)	226	1.9	145	1.2	99	1.0
Iron & Steel	51	0.4	53	0.4	40	0.4
Textile & Fibre	216	1.8	189	1.5	100	1.0
Cement	40	0.3	68	0.5	62	0.6
Ceramics & Glass	6	0.1	8	0.1	9	0.1
Chemicals & Allied	77	0.6	65	0.5	43	0.4
Aluminium	3	Neg.	3	Neg.	3	Neg.
.Sugar	42	0.4	38	0.3	19	0.2
.Mining & Quarrying	258	2.2	324	2.6	261	2.6
.Engg.(Mech. & Elec.)	104	0.9	111	0.9	78	0.8
Fertilizers	17	0.2	24	0.2	15	0.2
Other Indrstries & Construction	62	0.5	88	0.7	59	0.6
Misc. Services(incl.DGS&D)	394	3.2	316	2.5	358	3.6
TOTAL:	12013	100.0	12600	100.0	9963	100.0

ESTIMATED SECTOR-WISE (END-USE) INDUSTRY CONSUMPTION OF HSDO, LDO, FO, LSHS: 1982-83, 1983-84 & 1984-85.

(Qty. '000' Tonnes)

I T E M	1982-83 Consum-ption	1982-83 % to Total	1983-84 Consum-ption	1983-84 % to Total	April - Dec..84(P) Consum-ption	April - Dec..84(P) % to Total
1.	2.	3.	4.	5.	6.	7.
		L.D.O.				
1. Transport:						
i) Railways	6	0.6	5	0.5	4	0.5
ii) Water ways:						
a)Coastal & Inland Bunkers	48	4.5	47	4.3	44	4.9
b)International Bunkers	42	3.9	42	3.8	30	3.3
iii) Other transport (incl. Agr. retail trade)	3	0.3	8	0.7	1	0.1
Sub - T O T A L - 1:	99	9.3	102	9.3	79	8.8
2. Plantation/Food (incl. processing)	27	2.5	26	2.4	23	2.6
3. Power Generation (Utilities)	216	20.3	219	20.0	188	21.0
4. Iron & Steel	25	2.3	11	1.0	18	2.0
5. Textile & Fibre	22	2.1	24	2.2	18	2.0
6. Cement	3	0.3	3	0.3	8	0.9
7. Ceramics & Glass	28	2.6	26	2.4	25	2.8
8. Chemicals & Allied	60	5.6	73	6.6	60	6.7
9. Aluminium	1	0.1	1	0.1	1	0.1
10. Sugar	3	0.3	4	0.4	2	0.2
11. Mining & Quarrying	6	0.6	6	0.5	7	0.8
12. Engg.(Mech. & Elec.)	74	6.9	79	7.2	60	6.7
13. Fertilizers	4	0.4	4	0.4	4	0.5
14. Other Indrstries & Construction	76	7.1	68	6.2	56	6.3
15. Misc. Services(incl.DGS&D)	423	39.6	451	41.0	345	38.6
T O T A L :	1067	100.0	1097	100.0	894	100.0
		F.O. (Regular):				
1. Transport:						
i) Railways	45	1.1	52	1.2	38	1.2
ii) Water ways:						
a)Coastal & Inland Bunkers	172	4.1	142	3.4	123	3.9
b)International Bunkers	85	2.0	141	3.4	134	4.2
iii) Other transport (incl. Agr. retail trade)	15	0.4	51	1.2	50	1.6
Sub - T O T A L - 1:	317	7.6	386	9.2	345	10.9
2. Plantation/Food (incl. processing)	149	3.6	128	3.0	100	3.2
3. Power Generation(Utilities)	833	19.8	952	22.6	743	23.5
4. Iron & Steel	273	6.5	143	3.4	107	3.4
5. Textile & Fibre	241	5.7	263	6.3	178	5.6
6. Cement	31	0.7	32	0.8	45	1.4
7. Ceramics & Glass	150	3.6	132	3.0	77	2.5
8. Chemicals & Allied	619	14.7	568	13.5	511	16.2
9. Aluminium	86	2.1	80	1.9	83	2.6
10. Sugar	21	0.5	19	0.5	14	0.5

ESTIMATED SECTOR-WISE (END-USE) INDUSTRY CONSUMPTION OF HSDO, LDO, FO, LSHS: 1982-83, 1983-84 & 1984-85.

(Qty. '000' Tonnes)

ITEM	1982-83 Consumption	1982-83 % to Total	1983-84 Consumption	1983-84 % to Total	April - Dec..84(P) Consumption	April - Dec..84(P) % to Total
1.	2.	3.	4.	5.	6.	7.
		FO (Regular)				
11.Mining & Quarrying	97	2.3	39	0.9	72	2.3
12.Engg.(Mech. & Elec.)	206	4.9	191	4.5	126	4.0
13.Fertilizers	670	15.9	574	13.7	390	12.4
14.Other Indrstries & Construction	211	5.0	407	9.7	269	8.5
15.Misc. Services(incl.DGS&D)	304	7.1	293	7.0	95	3.0
Sub - TOTAL :	4208	100.0	4207	100.0	3155	100.0
		LSHS/HHS.				
1. Plantation/Food (incl. processing)	23	0.8	26	0.8	21	0.8
2.Power Generation(Utilities)	1191	38.5	1273	38.0	1039	40.1
3. Iron & Steel	260	8.4	193	5.8	163	6.3
4. Textile & Fibre	93	3.0	168	5.0	142	5.5
5. Cement	10	0.3	8	0.2	3	0.1
6. Ceramics & Glass	39	1.3	58	1.7	59	2.3
7. Chemicals & Allied	397	12.8	416	12.4	349	13.5
8. Aluminium	1	Neg.	8	0.2	4	0.2
9. Mining & Quarrying	13	0.4	87	2.6	18	0.7
10.Engg.(Mech. & Elec.)	3	0.1	10	0.3	17	0.7
11.Fertilizers	883	28.5	913	27.3	687	26.5
12.Other Indrstries & Construction	5	0.2	5	0.1	9	0.3
13.Misc. Services(incl.DGS&D)	176	5.7	186	5.6	78	3.0
TOTAL :	3094	100.0	3351	100.0	2589	100.0

GRADEWISE CONSUMPTION/SALES OF LUBES DURING 1981-82. 1982-83 & 1983-84.

(Qty. '000' Tonnes)

ITEM	1981-82 Consumption	1981-82 % to Total	1982-83 Consumption	1982-83 % to Total	1983-84 Consumption	1983-84 % to Total
1.	2.	3.	4.	5.	6.	7.
Total Lubes Oils of which:						
a) Automotive Oils:	325.9	57.5	341.6	59.3	331.9	56.2
HVI	325.8	57.5	341.5	59.3	331.9	56.2
MVI	0.1	Neg.	0.1	Neg.	Neg.	Neg.
LVI	Neg.	--	--	--	Neg.	Neg.
b) Industrial Oils:	240.7	42.5	234.7	40.7	258.5	43.8
Total (a+b):	566.6	100.0	576.3	100.0	590.4	100.0
Industrial Oils-Break-up:						
1. Spindle Oils	5.3	2.2	5.3	2.3	5.3	2.1
2. Transformer Oil	0.3	0.1	0.4	0.2	0.4	0.2
3. Rly./Other axel Oils	10.4	4.3	7.7	3.3	9.9	3.8
4. Cylinder Oil	11.2	4.7	10.2	4.3	10.2	3.9
5. Turbine/Hydraulic Oil	49.3	20.5	52.9	22.5	52.1	20.2
6. Other Spl. Oils	74.3	30.9	70.4	30.0	71.5	27.6
7. Misc. grades	89.9	37.3	87.8	37.4	109.1	42.2
TOTAL :	240.7	100.0	234.7	100.0	258.5	100.0

P = Provisional.

CONSUMPTION OF DIESEL OIL IN INDIAN RAILWAYS DURING 1960-61 TO 1984-85.

Year	No. of Diesel Locomotives Nos.	Consumption of Diesel Oil (In Kls.)	Consumption of Diesel per Locomoive (In Kls.)
1.	2.	3.	4.
1960-61	181	62771	346.8
1961-62	228	59444	260.7
1962-63	349	98481	282.2
1963-64	486	182328	375.2
1964-65	621	245633	395.5
1965-66	727	310813	427.5
1966-67	776	365582	471.1
1967-68	892	427126	478.8
1968-69	996	486084	488.0
1969-70	1091	536301	491.6
1970-71	1169	569025	486.8
1971-72	1288	626983	486.8
1972-73	1431	667414	466.4
1973-74	1610	683140	424.3
1974-75	1702	720047	423.1
1975-76	1731	797610	460.8
1976-77	1903	867330	455.8
1977-78	2025	949077	468.7
1978-79	2126	960545	451.8
1979-80	2243	992060	442.3
1980-81	2403	1067477	444.2
1981-82	2515	1179682	469.1
1982-83	2520	1227236	468.1
1983-84	2805	1313200	468.2
1984-85*	2871	1335664	465.2

* = Provisional.

Source: Railways Board.

INDUSTRY/PLANT-WISE OFFTAKE ON NAPHTHA.

(Qty.'000' Tonnes)

Category and Plant	Calendar Years			Financial Years		
	1982	1983	1984(P)	1982-83	1983-84	1984-85(P)
1.	2.	3.	5.	6.	7.	8.
I. Fertilizer Plants:						
Madras Fertilzer Ltd.	221	109	234	207	139	244
FCI, Durgapur	46	137	110	66	131	109
FCI, Gorakhpur	98	97	105	94	108	92
FCI, Sindri	26	--	--	--	--	--
FCI, Barauni	101	120	107	127	120	98
SFC, Kota	142	147	151	147	145	150
IEL, Kanpur	308	292	303	320	288	291
HSL, Rourkela	78	47	72	62	59	86
GSFC, Baroda	101	101	101	96	113	101
FACT, Cochin	126	100	135	113	110	125
ZAC, Goa	207	187	208	217	185	185
IFFCO, Phulpur	217	230	233	221	234	222
IFFCO, Kalol	54	43	55	54	41	59
IFFCO, Kandla	--	--	--	--	--	--
MCFL, Manglore	141	104	139	124	118	155
SPIC, Tuticorin	238	198	245	263	202	253
EID Parry Ltd.,Madras	6	Neg.	--	4	Neg.	--
GNFC, Bharuch	1	1	1	1	1	1
FACT, Alwaye	57	39	66	54	57	67
FCI, Bombay	55	7	--	45	--	--
Coromandal Frts.Vizag	72	76	74	66	83	72
Others	--	--	--	--	--	13
Sub-Total Fertilizer:	2295	2035	2339	2281	2134	2313
II. Petrochemical Plants:						
HCC, Rasayani	4	4	4	4	5	4
IPCL, Baroda	355	375	450	372	383	456
NOCIL, Bombay	197	189	235	200	187	233
FCI,Bombay(Mathanol)	16	16	13	16	16	14
UCIL, BOmbay	63	63	62	66	62	61
Sub-Total(Petro-Chem.)	635	647	764	658	653	768
III. Others:						
HSL, Bhilai etc.	14	14	28	19	17	29
Sub-Total(Others)	14	14	28	19	17	29
GRAND TOTAL: (I+II+III)	2944	2696	3131	2958	2804	3110

P = Provisional.

PLANT/CUSTOMER-WISE OFFTAKE OF LSHS/HHS.

(Qty. '000' Tonnes)

Category and Plant	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85(P)
1. Power:						
BPTS, Barauni	32.1	3.9	21.3	31.3	20.8	45.2
GEB, Gandhinagar	49.6	25.6	16.1	7.7	18.9	9.0
GEB, Kalol	1.3	--	--	--	--	--
GEB, Ukai	86.9	82.7	66.6	76.8	49.8	70.3
GMTP, Bhatinda	--	--	--	2.7	--	--
DPH, Dhuwaran	633.6	616.6	624.5	675.6	636.7	621.9
DTPS, Durgapur	--	--	1.3	--	--	--
OTPS, Obra	--	--	--	5.3	13.9	2.7
TTP, Tuticorin	--	--	--	5.2	41.8	13.4
Tata Thermal Bombay	601.3	397.6	382.1	348.7	394.3	565.5
AEC, Ahmedabad	57.3	29.1	23.6	15.3	21.9	26.4
ASEB, Chandrapur	26.3	26.5	--	13.9	26.4	23.3
ASEB, Gauhati	--	--	--	--	7.3	--
MSEB, Koradi	--	--	--	--	--	--
MSEB, Uran	--	--	--	--	4.0	--
MSEB, Nasik	--	--	--	--	37.6	40.6
NLC, Neyveli	--	--	--	8.4	--	--
ETP, Ennore	--	--	--	--	--	13.7
Others	--	--	--	--	--	1.7
Sub-Total-1:	1488.4	1182.0	1135.5	1190.9	1273.4	1433.7
2. FERTILIZER/PETRO-CHEMICALS						
NFL, Nangal	113.2	120.8	202.3	188.8	172.1	190.4
NFL, Bhatinda	8.7	70.7	146.1	203.2	102.9	154.0
NFL, Panipat	--	30.4	182.0	234.0	145.8	99.0
HFC, Barauni	7.6	0.7	12.3	17.1	21.5	16.4
FCI, Sindri	31.1	14.8	26.2	178.6	174.4	180.5
FCI, Talchar	--	--	--	--	1.5	13.8
IFFCO, Phulpur	--	--	1.1	8.8	17.6	27.8
IFFCO, Kalol	31.5	41.4	41.3	44.7	40.8	44.8
IPCL, Baroda(GA & GO)	87.6	100.3	152.9	191.0	166.4	224.2
GSFC, Baroda/Bajuwa	20.0	33.0	73.7	69.6	78.9	57.4
GNFC, Bharuch	--	1.4	16.3	29.1	164.7	174.4
FACT, Cochin	51.9	64.4	66.3	69.6	60.5	58.8
HOC, Rasayani	4.8	15.0	0.9	11.7	10.0	11.1
Petrochem-Bongaigaon	--	--	--	0.5	--	--
NOCIL, Bombay	--	--	--	28.8	29.6	16.0
SPIC, Tuticorin	--	--	--	27.9	33.8	50.8
MRL/MFL, Madras	--	--	--	15.7	27.7	49.6
NLC, Neyeli	--	--	--	--	71.2	37.3
Corom. Fert. Vizag	--	--	--	--	--	27.3
Others Misc.	--	--	--	--	68.6	1.1
Sub-Total-2:	356.4	492.9	921.4	1319.1	1388.0	1434.7
3. STEEL PLATS:						
TISCO, Jamshedpur	62.1	19.5	62.5	61.0	57.0	55.4
RSP, Rourkela	83.0	7.1	71.3	90.0	50.4	62.6
DSP, Durgapur	96.2	24.0	221.7	109.0	83.8	87.5
HSL, Bhilai	--	--	--	--	--	7.5
Sub-Total-3:	241.3	50.6	355.5	260.0	193.2	213.0
4. GENERAL TRADE:	198.3	342.0	466.0	323.7	496.0	549.4
GRADE TOTAL:	2284.4	2067.5	2878.4	3093.6	3350.6	3630.8

STATE-WISE FUEL CONSUMPTION AND POWER GENERATION IN GAS TURBINE AND DIESEL POWER STATIONS IN INDIA 1982-83.

(Provisional)

STATE.	Gas Station		Diesel Stations		
	Natural Gas @ (Mn.cubic Metres)	Generation (GWH)	Diesel Oil (KL)	Generation (GWH)	Average Oil Consumption (Lts/KWH)
1.	2.	3.	4.	5.	6.
Assam	259.08	552.19	--	--	--
Bihar	--	--	293	0.76	0.39
Gujarat	17.50	83.71	38	0.09	0.42
	32479(LDO)				
Himachal Pradesh	--	--	27(R)	0.04	0.68
Jammu & Kashmir			20(R)	0.07	0.29
Manipur			3985	10.81	0.37
Meghalaya			415(e)	0.59	0.70
Nagaland			93	0.31	0.30
Punjab			65(e)	0.12	0.54
Rajasthan			30	0.06	0.50
Sikkim			1050(e)	2.99	0.35
Tripura			350	1.36	0.26
Uttar Pradesh					
West Bengal	93718(LDO)	212.41	1746	4.95	0.35
Maharashtra	378.42	1061.68			
	8314(FO)				
Other Stations	262.23(LSHS)				
UNION TERRITORIES:					
A & N Islands			4304	10.78	0.40
Arunachal Pradesh			650(e)	2.32	0.28
Chandigarh			17	0.05	0.34
Lakshdweep			1009	2.20	0.46
Delhi			420(R)	1.30	0.32
Mizoram			1980(e)	5.66	0.35
All India Total :	655.00 (LDO) +126197 (FO) +8314+262.23(LSHS)	1909.99	16492	44.46	0.37

(e) = Estimated (R) = Revised

@ = Figures relating to LDO, FO & LSHS are in Kilo Litres.

SOURCE: Directorate of Central Electricity Authority.

STATEWISE CONSUMPTION OF FOSSIL FUELS FOR ELECTRICITY GENERATION FROM THERMAL POWER STATIONS IN INDIA DURING 1982-83.

(Provisional)

STATE.	Fuel Consumption in Steam Power Stations						Heat Input (K.Cal. x 10^{10})	Gross Generation (GWK.)	Average Heat Input (K.Cal./KWH)
	Coal ('000' (Tonnes)	Lignite '000' (Tonnes)	FO '000' (KL)	LDO '000' (KL)	LSHS '000' (MT)	Natural Gas (MCM)			
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Andhra Pradesh	4036		75	8			15977.68	5562	2873
Assam	12		36	Neg.	29	28.24	1460.18	344	4245
Bihar	1977		36	29	28		8957.27	2610	3432
Gujarat	4200	0.2	846	7	8	113.06	30713.81	10283	2987
J & K	5			1			36.45	5	7290
Haryana	943		35	13			4697.15	1187	3957
Madhya Pradesh	6582		717	7			27313.07	7283	3750
Maharashtra	7413		86	18	347	192240(b)	37584.88	13354	2815
Orissa	848		9	2			3490.80	1027	3399
Punjab	1527		18	5			6543.09	1967	3326
Rajasthan	27		1	1			167.03	19	8807
Tamil Nadu	2780		154	7	6		14358.26	4038	3556
Uttar Pradesh	6621		77	65	4		32351.06	8410	3847
West Bengal	3684		8	53			20381.35	5628	3621
Central Govt.Project	2911	5367	92	9			28253.81	8230	3433
DVC	4034		53	45			19816.57	5861	3381
Union Territories:									
A & N Islands		8(a)		3					
Delhi	924		33	2			57.84	2	28920
							4732.80	1387	3412
GRAND TOTAL:	48524	5367.2 8(a)	2276	275	422	141.30 +192240 (Refinery Gas)	256893.40	77197	3328

(a) Wood Fuel / (b) Refinery Gas in Metric Tonnes.

Source:- Directorate of Central Electricity Authority.

IX. FOREIGN TRADE

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS 1970 to 1984

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

Year	Crude Oil		Products		Total	
	Qty.	Value	Qty.	Value	Qty.	Value
			GROSS IMPORTS			
1970	11665	102.36	970	30.53	12635	132.89
1971	12688	139.88	1932	43.49	14620	183.37
1972	12310	144.25	3257	56.69	15567	200.94
1973	13443	244.56	3735	88.03	17178	332.59
1974	13973	899.36	2949	209.90	16922	1109.26
1975	13600	992.02	2291	199.46	15891	1191.48
1976	13883	1145.56	2293	219.70	16176	1365.26
1977	14548	1258.92	2664	272.99	17212	1531.91
1978	14892	1243.89	3916	414.13	18808	1658.02
1979	15382	1787.38	4019	727.56	19401	2514.94
1980	15976	3038.66	6800	1788.28	22776	4826.94
1981	15528	3793.83	5697	1638.58	21225	5432.41
1982	17327	4116.89	4942	1551.37	22269	5668.26
1983	15552	3471.47	4260	1246.60	19812	4718.07
1984(P)	14620	3525.15	6043	1850.28	20663	5375.43
			EXPORTS			
1970	--	--	412	5.72	412	5.72
1971	--	--	152	2.55	152	2.55
1972	--	--	109	8.94	109	8.94
1973	18	0.42	155	5.35	173	5.77
1974	--	--	202	19.37	202	19.37
1975	--	--	166	13.83	166	13.83
1976	--	--	82	7.60	82	7.60
1977	--	--	59	6.50	59	6.50
1978	--	--	43	4.20	43	4.20
1979	--	--	59	14.94	59	14.94
1980	--	--	70	17.98	70	17.98
1981	--	--	55	15.13	55	15.13
1982	4391	1044.71	648	101.23	5039	1145.94
1983	4723	1041.87	1148	286.64	5871	1328.51
1984(P)	6760	1598.55	1071	271.63	7831	1870.18
			NET IMPORTS			
1970	11665	102.36	558	24.81	12223	127.17
1971	12688	139.88	1780	40.94	14468	180.82
1972	12310	144.25	3148	47.75	15458	192.00
1973	13425	244.14	3580	82.68	17005	326.82
1974	13973	899.36	2747	190.53	16720	1089.89
1975	13600	992.02	2125	185.63	15725	1177.65
1976	13883	1145.56	2211	212.10	16094	1357.66
1977	14548	1258.92	2605	266.49	17153	1525.41
1978	14892	1243.89	3873	409.93	18765	1653.82
1979	15382	1787.38	3960	712.62	19342	2500.00
1980	15976	3038.66	6730	1770.30	22706	4808.96
1981	15528	3793.83	5642	1623.45	21170	5417.28
1982	12936	3072.18	4294	1450.14	17230	4522.32
1983	10829	2429.60	3112	959.96	13941	3389.56
1984(P)	7860	1926.60	4972	1578.65	12832	3505.25

(P) Provisional

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS
1970-71 TO 1984-85

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

Year	Crude Oil		Products		Total	
	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7
			GROSS IMPORTS			
1970-71	11683	106.72	1084	29.91	12767	136.63
1971-72	12951	147.02	2147	46.88	15098	193.90
1972-73	12084	146.37	3525	60.58	15609	206.95
1973-74	13873	416.39	3548	124.50	17421	540.89
1974-75	14016	916.99	2648	195.00	16664	1111.99
1975-76	13624	1051.76	2218	204.34	15842	1256.10
1976-77	14048	1175.91	2624	248.23	16672	1424.14
1977-78	14507	1246.20	2879	305.34	17386	1551.54
1978-79	14657	1251.17	3878	429.99	18535	1681.16
1979-80	16121	2187.53	4724	1082.39	20845	3269.92
1980-81	16248	3348.97	7289	1917.52	23537	5266.49
1981-82	15298	3736.38	4884	1453.16	20182	5189.54
1982-83	16949	4043.74	5028	1553.94	21977	5597.68
1983-84	15967	3541.05	4328	1270.75	20295	4811.80
1984-85(P)	13642	3430.34	6092	1914.88	19734	5345.22
			EXPORTS			
1970-71	--	--	332	4.67	332	4.67
1971-72	--	--	136	3.91	136	3.91
1972-73	--	--	126	8.16	126	8.16
1973-74	18	0.42	161	8.05	179	8.47
1974-75	--	--	175	17.46	175	17.46
1975-76	--	--	170	13.96	170	13.96
1976-77	--	--	74	6.89	74	6.89
1977-78	--	--	47	5.69	47	5.69
1978-79	--	--	44	4.11	44	4.11
1979-80	--	--	88	24.02	88	24.02
1980-81	--	--	36	8.41	36	8.41
1981-82	838	196.23	55	15.13	893	211.36
1982-83	4552	1063.37	795	133.79	5347	1197.16
1983-84	5522	1231.10	1472	356.96	6994	1588.06
1984-85(P)	6478	1563.16	933	255.03	7411	1818.19
			NET IMPORTS			
1970-71	11683	106.72	752	25.24	12435	131.96
1971-72	12951	147.02	2011	42.97	14962	189.99
1972-73	12084	146.37	3399	52.42	15483	198.79
1973-74	13855	415.97	3387	116.45	17242	532.42
1974-75	14016	916.99	2473	177.54	16489	1094.53
1975-76	13624	1051.76	2048	190.38	15672	1242.14
1976-77	14048	1175.91	2550	241.34	16598	1417.25
1977-78	14507	1246.20	2832	299.65	17339	1545.85
1978-79	14657	1251.17	3834	425.88	18491	1677.05
1979-80	16121	2187.53	4636	1058.37	20757	3245.90
1980-81	16248	3348.97	7253	1909.11	23501	5258.08
1981-82	14460	3540.15	4829	1438.03	19289	4978.18
1982-83	12397	2980.37	4233	1420.15	16630	4400.52
1983-84	10445	2309.95	2856	913.79	13301	3223.74
1984-85(P)	7164	1867.18	5159	1659.85	12323	3527.03

P = Provisional.

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS 1982 TO 1984

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

ITEM	1982 Qty.	1982 Value	1983 Qty.	1983 Value	1984(P) Qty.	1984(P) Value
GROSS IMPORTS						
A. Crude Oil	17327	4116.89	15552	3471.47	14620	3525.15
B. Petroleum Products						
I. Light Distillates	175	61.62	123	44.69	386	118.11
1. Naphtha	101	29.89	77	22.66	290	83.68
2. Others	74	31.73	46	22.03	96	34.43
II. Middle Distillates	4592	1424.67	4033	1144.90	5342	1620.23
1. ATF	223	71.59	223	67.13	103	35.22
2. SKO	1936	620.90	1875	554.45	2697	851.72
3. HSDO	2401	722.06	1913	518.10	2521	727.71
4. LDO	32	10.12	22	5.22	21	5.58
III. Heavy Ends	175	65.08	104	57.01	315	111.94
1. FO	23	5.22	--	---	175	39.02
2. Lubes	88	45.27	100	55.92	128	69.74
3. Waxes	4	2.92	--	---	Neg.	Neg.
4. Others	60	11.67	4	1.09	12	3.18
Total (B)	4942	1551.37	4260	1246.60	6043	1850.28
Grand Total(A+B)	22269	5668.26	19812	4718.07	20663	5375.43
EXPORTS @						
A. Crude Oil	4391	1044.71	4723	1041.87	6760	1598.55
B. Petroleum Products						
I. Light distillates	0.3	0.15	818	217.60	626	170.06
1. Naphtha	--	---	809	214.01	612	164.68
2. Others	0.3	0.15	9	3.59	14	5.38
II. Middle Distillates	22	5.63	78	26.90	127	43.99
1. HSD/LDO	22	5.63	39	13.01	69	22.93
2. Others	--	---	39	13.89	58	21.06
III. Heavy Ends	626	95.45	252	42.14	318	57.58
1. FO	626	95.45	246	40.42	314	55.78
2. Others	--	---	6	1.72	4	1.80
Total (B)	648	101.23	1148	286.64	1071	271.63
Grand Total(A+B)	5039	1145.94	5871	1328.51	7831	1870.18
NET IMPORTS						
A. Crude Oil	12936	3072.18	10829	2429.60	7860	1926.60
B. Petroleum Prod.	4294	1450.14	3112	959.96	4972	1578.65
Total (Net Imports)	17230	4522.32	13941	3389.56	12832	3505.25

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

IMPORTS/EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS 1982-83 TO 1984-85

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

ITEM	1982-83 Qty.	1982-83 Value	1983-84 Qty.	1983-84 Value	1984-85(P) Qty.	1984-85(P) Value
GROSS IMPORTS						
A. Crude Oil	16949	4043.74	15967	3541.05	13642	3430.34
B. Petroleum Products						
I. Light Distillates	178	62.68	172	57.67	470	147.03
1. Naphtha	101	29.89	129	37.34	338	99.42
2. Others	77	32.79	43	20.33	132	47.61
II. Middle Distillates	4726	1435.68	4047	1154.92	5312	1652.80
1. ATF	244	76.77	169	50.63	128	44.47
2. SKO	1881	595.89	2030	603.64	2611	844.77
3. HSDO	2582	756.91	1806	489.85	2573	763.56
4. LDO	19	6.11	42	10.80	---	---
III. Heavy Ends	124	55.59	109	58.16	310	115.05
1. FO	--	---	--	---	175	39.02
2. Lubes	105	51.05	97	54.98	135	75.97
3. Waxes	0.3	0.27	--	--	0.03	0.06
4. Others	18.4	4.27	12	3.18	---	---
Total (B)	5028	1553.94	4328	1270.75	6092	1914.88
Grand Total(A+B)	21977	5597.68	20295	4811.80	19734	5345.22
EXPORTS @						
A. Crude Oil	4552	1063.37	5522	1231.10	6478	1563.16
B. Petroleum Products						
I. Light distillates	96	24.96	914.	242.30	626	173.16
1. Naphtha	96	24.81	901	237.64	612	167.48
2. Others	Neg.	0.15	13	4.66	14	5.68
II. Middle Distillates	22	5.63	110	37.90	132	45.99
1. HSD/ LDO	22	5.63	57	19.12	71	23.53
2. Others	--	---	53	18.78	61	22.46
III. Heavy Ends	677	103.20	448	76.76	175	35.88
1. FO/LSHS	677	103.20	440	74.03	170	33.75
2. Others	--	---	8	2.73	5	2.13
Total (B)	795	133.79	1472	356.96	933	255.03
Grand Total(A+B)	5347	1197.16	6994	1588.06	7411	1818.19
NET IMPORTS						
A. Crude Oil	12397	2980.37	10445	2309.95	7164	1867.18
B. Petroleum Prod.	4233	1420.15	2856	913.79	5159	1659.85
Total (Net Imports)	16630	4400.52	13301	3223.74	12323	3527.03

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

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

(Rs./Crores)

Year	India's Overall Trade					India's Trade with OPEC Countries					% of India's trade with OPEC to India's total Trade	
	Exports	Imports	Balance of Trade	% Variation Over Preceding Year		Exports	Imports	Balance of Trade	% variation over preceding year			
				Exports	Imports				Exports	Imports	Exports	Imports
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
1970-71	1535	1634	-99	8.6	3.3	99	126	-27	-	-	6.4	7.7
1971-72	1608	1825	-217	4.8	11.3	76	182	-106	-23.2	44.4	4.7	10.7
1972-73	1971	1867	+104	22.6	2.3	94	200	-106	23.7	9.9	4.8	10.0
1973-74	2523	2955	-432	28.0	58.3	187	532	-345	98.9	166.0	7.4	18.0
1974-75	3329	4519	-1188	32.0	52.9	467	1100	-633	149.7	106.8	14.0	24.3
1975-76	4036	5265	-1229	21.2	16.5	633	1166	533	35.6	6.0	15.7	22.1
1976-77	5142	5074	+72	27.4	-3.6	707	1296	589	11.7	11.2	13.8	25.5
1977-78	5408	6020	-612	5.2	18.6	674	1340	666	4.7	3.4	12.5	22.3
1978-79	5726	6811	-1085	5.9	13.1	733	1382	649	8.8	3.1	12.8	20.3
1979-80	6418	9143	-2725	12.1	34.2	717	2410	1693	2.2	74.4	11.2	26.4
1980-81	6711	12549	-5838	3.9	37.3	745	3489	-2744	3.9	62.1	11.1	27.8
1981-82	7806	13608	-5802	16.3	8.4	899	3790	-2891	20.7	8.6	11.5	27.9
1982-83	8908	14356	-5448	14.1	5.5	858	3916	-3058	-4.6	3.3	9.6	27.3
1983-84	9872	15763	-5891	10.8	9.8	749	2941	-2192	-12.7	24.9	7.6	18.7

* = Provisional.

Source = Ministry of Commerce/Economic Survey.

INDIA'S FOREIGN EXCHANGE RESERVES. (1970-71 TO 1984-85)

Year	S.D.R's. Million	GOLD (Rs.Crores)	Foreign Exchange (Rs. Crores)
1.	2.	3.	4.
1970-71	148.9	182.53	438.12
1971-72	247.7	182.53	480.38
1972-73	246.5	182.53	478.90
1973-74	244.9	182.53	580.78
1974-75	234.9	182.53	610.50
1975-76	202.8	182.53	1491.70
1976-77	187.4	187.80	2862.99
1977-78	161.6	193.09	4499.75
1978-79	364.9	219.50	5219.86
1979-80	529.1	224.71	5163.66
1980-81	490.5	225.58	4822.12
1981-82	425.1	225.58	3354.47
1982-83	270.2	225.58	4265.26
1983-84	216.4	225.58	5497.9
1984-85*	146.5	245.76	6816.78

SOURCE : Economic Survey * = Provisional

INDIA'S POL IMPORTS AS A PROPORTION TO OVERALL EXPORTS FROM THE COUNTRY 1970-71 TO 1984-85.

Rs./Crores

Y E A R	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
1971-72	194	190	1608	1604	12.1	11.8
1972-73	207	199	1971	1963	10.5	10.1
1973-74	541	532	2523	2514	21.4	21.2
1974-75	1112	1095	3329	3312	33.4	33.1
1975-76	1256	1242	4036	4022	31.1	30.9
1976-77	1424	1417	5142	5135	27.7	27.6
1977-78	1552	1545	5408	5393	28.7	28.6
1978-79	1681	1677	5726	5722	29.4	29.3
1979-80	3270	3246	6418	6394	51.0	50.8
1980-81	5266	5258	6711	6703	78.5	78.4
1981-82	5190	4978	7806	7594	66.5	65.6
1982-83	5598	4401	8908	7711	62.8	57.1
1983-84	4812	3224	9872	8284	48.7	38.9
1984-85(P)	5345	3527	11297	9479	47.3	37.2

SOURCE : For Column 4 :- DGCI&S, Calcutta. * = Provisional

X. MAN-POWER EMPLOYED.

DIRECT EMPLOYED IN THE PETROLEUM INDUSTRY IN INDIA

(NUMBER)

CATEGORY	1970	1975	1980	1982	1983	1984	1985
1.	2.	3.	4.	5.	6.	7.	8.
1. Exploration & Production	26051	27067	31413	36089	38063	43535	48700
2. Refining*	10715	12327	15334	18359	19507	20885	23074
3. Marketing	20362	19072	19920	22858	24468	26490	27717
4. Others:-							
1. IOC(Pipeline)	487	724	1312	1445	1592	1767	1819
2. ONGC(Pipeline)	346	233	411	203	280	391	496
3. OIL(Pipeline)	443	431	492	490	538	539	586
4. I.I.P.	588	676	754	744	744	767	778
5. E.I.L.	N.A.	1940	2661	3176	3422	3558	3702
TOTAL	1864	4004	5630	6058	6576	7022	7381
GRAND TOTAL	58992	62470	72297	83364	88614	97932	106872

CATEGORY-WISE DIRECT EMPLOYED IN THE PETROLEUM INDUSTRY IN INDIA

(NUMBER)

CATEGORY	1970	1975	1980	1982	1983	1984	1985
1.	2.	3.	4.	5.	6.	7.	8.
1. Executive/ Managerial	4793	6461	9311	13027	15666	18620	21108
2. Supervisory	6205	6659	6512	7388	8221	9299	10432
3. Clerical	11457	11723	12403	13921	13626	14698	15878
4. Workmen	36437	37611	44057	48969	51023	55175	59313
5. TOTAL	58892	62454	72283	83305	88536	97792	106731
6. Expatriates/ Foreign Experts	100	16	14	59	78	140	141
GRAND TOTAL	58992	62470	72297	83364	88614	97932	106872

Note :- 1. Staff Employed as on 1st April of each year.
2. Total does not include staff Employed on contract basis.

CATEGORY-WISE DIRECT EMPLOYED @ IN VARIOUS SECTOR OF PETROLEUM INDUSTRY IN INDIA

(NUMBER)

CATEGORY	1970	1975	1980	1982	1983	1984	1985
1.	2.	3.	4.	5.	6.	7.	8.
EXPLORATION AND PRODUCTION							
1. Executive/ Managerial	1765	1967	3394	4896	6796	8450	10183
2. Supervisory	2774	3538	1994	3068	3191	4104	4537
3. Clerical	3764	3538	3795	4405	3930	4526	5438
4. Workmen	17704	18013	22216	23683	24068	26215	28401
5. TOTAL	26007	17056	31399	36052	37985	43395	48559
6. Expatriates/ Foreign Experts	44	11	14	37	78	140	141
GRAND TOTAL	26051	27067	31413	36089	38063	43535	48700
PETROLUEM REFINING*							
1. Executive/ Managerial	258	818	2055	2825	2892	3700	3878
2. Supervisory	1076	1313	1050	956	1409	1162	1648
3. Clerical	1219	1568	1791	2277	2344	2540	2728
4. Workmen	7857	8626	10438	12279	12862	13483	14820
5. TOTAL	10677	12325	15334	18337	19507	20885	23074
6. Expatriates/ Foreign Experts	38	2	----	22	----	----	----
GRAND TOTAL	10745	12327	15334	18359	19507	20885	23074
MARKETING							
1. Executive/ Managerial	2367	3519	3318	4632	5203	5599	6047
2. Supervisory	2081	910	1591	1049	1145	1384	1441
3. Clerical	6220	5870	5820	6183	6350	6488	6533
4. Workmen	9680	8770	9191	10994	17770	13019	13696
5. TOTAL	20348	19069	19920	22858	24468	26490	27717
6. Expatriates/ Foreign Experts	14	3	----	----	----	----	----
GRAND TOTAL	20362	19072	19920	22858	24468	26490	27717

@ = Data relates to the number of person directly employed by various oil companies as on 1st April of each year. Staff Employed on contract basis is not covered.

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

XI. PRICES

WHOLESALE PRICE INDICES OF Petroleum Products. Petro-based Industries & other Energy Items

(1970-71 = 100)

Items	1972-73	1973-74	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85*
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
			I. Petroleum Products					
Petrol	121.6	178.6	361.3	430.7	505.5	517.5	522.6	531.3
Diesel Oil	105.9	119.5	186.5	279.6	373.3	389.5	414.9	415.8
L.D.O.	107.8	122.0	329.8	548.1	732.5	760.8	800.1	808.4
Kerosene	114.9	113.1	266.1	277.3	315.9	328.1	343.0	347.2
F.O.	113.3	150.7	529.9	880.1	1148.5	1185.6	1228.1	1234.3
Aviation Spirit	125.4	173.9	431.7	581.8	589.6	593.4	593.4	598.2
Petroleum Crude & Natural Gas	142.0	317.1	1384.0	2041.8	2130.7	1984.8	1739.5	1738.3
			II. Petro-Based Industries					
Lubricating Oil	99.0	135.8	319.6	373.6	416.1	441.9	464.4	463.6
Nylon & Terene Mixed cloth	98.9	104.7	131.6	139.7	147.9	154.4	155.4	158.1
Benzene	106.1	125.7	480.3	709.0	758.4	769.5	769.5	769.5
Nitrogenous Fertilizers	104.7	109.5	171.7	254.7	281.0	283.1	277.0	275.0
Insecticitdes	111.6	131.6	272.2	328.6	351.8	396.2	425.9	431.9
Syn. Detergents	105.2	105.7	230.5	274.8	294.2	295.8	297.3	297.3
Polystyrene	101.0	121.8	349.8	425.8	464.8	414.1	425.1	458.9
Polyethylene Moulding Powder	105.4	122.8	228.9	291.9	303.7	284.0	276.9	290.7
PVC Compounds	104.3	132.2	222.6	309.1	323.3	323.3	323.3	323.3
PVC Sheets	98.2	129.8	196.0	224.9	228.4	231.7	231.7	238.4
Syn. Resins(nes)	99.8	121.3	199.8	219.0	232.5	249.4	275.7	269.1
Syn. Fibre	101.4	106.2	150.2	157.4	167.5	168.4	169.8	173.8
Syn. Rubber	100.0	100.0	138.3	174.4	190.1	199.6	201.2	223.2
Polythene films	108.8	131.2	248.6	296.7	301.9	301.9	301.9	301.9
Carbon black	99.6	99.6	347.4	532.7	664.0	685.5	678.6	678.4
Plasticizers	104.6	103.1	269.5	314.9	310.9	313.7	320.1	346.8
			III. Other Energy Items					
Electricity	105.7	111.3	255.6	239.0	279.6	324.6	371.8	415.6
Coke	134.7	136.4	262.8	291.7	382.8	451.4	489.1	575.2
Coal	110.8	121.7	299.5	347.6	432.1	493.3	542.3	641.9
Lignite	116.6	130.5	176.9	232.0	273.4	322.3	370.8	498.0
			IV. All commodity Index					
All commodities	116.2	139.7	217.6	257.3	281.3	288.3	315.3	338.3

Source: Monthly Bulletins of Index Numbers of Wholesale Price Indices brought out by the office of the Economic Adviser, Ministry of Industry.

* = Provisional.

Prices of Indigenous Onshore and Offshore Crude Oil of 34° API Gravity

Item	Unit	Price effective from					
		14.7.75	8.9.76	16.12.77	1.4.81	11.7.81	15.2.83
				(i) Onshore Crude Oil			
1. Base Price (as fixed by the Govt)	Rs/Bbl.	36.64*	33.30*	27.60	27.60	138.54	138.54
2. Conversion factor	Bbl./MT	7.37	7.37	7.37	7.37	7.37	7.37
3. Base Price	Rs/MT	**270.04	**245.42	203.41	203.41	1021.00	1021.00
4. Oil Development Cess	Rs/MT	@	60.00	60.00	60.00	100.00	300.00
5. Royalty	Rs/MT	@	@	42.00	61.00	61.00#	61.00#
6. Total Price (including Cess & Royalty)	Rs/MT	270.04	305.41	305.41	324.41	1182.00#	1382.00#
				(ii) Offshore Curde Oil			
1. Base Price as fixed by the Govt.	Rs/Bbl.			45.00	45.00	138.54	138.54
2. Conversion factor	Bbl/MT			7.37	7.37	7.37	7.37
3. Base Price	Rs/MT			331.65	331.65	1021.00	1021.00
4. Oil Development Cess	Rs/MT			60.00	60.00	100.00	300.00
5. Royalty	Rs/MT			42.00	61.00	61.00	61.00
6. Total Price (including Cess & Royalty)	Rs/MT			433.65	452.65	1182.00#	1382.00#

* Inclusive of royalty @ Rs. 15/MT and Oil Development Cess @ Rs. 60/MT
** Inclusive of royalty @ Rs. 42/MT
@ included in the base price
Shows price fixed by the Government inclusive of royalty and Oil Development Ce

Note: 1. The above prices are for 34° API gravity crude oil Ex central tank farm o the producer and are subject to gravity escalation @ Rs. 0.16 per degree AP upto 45° API, no limit for downward escalation has been laid down.

2. The prices are inclusive of sales tax which is the liability of the Produc

DEVELOPMENT OF BASIC CEILING SELLING PRICES OF PETROLEUM PRODUCTS (EX-STORAGE POINT BOMBAY) SINCE 17.8.1979.

(Rs./Selling Unit)

PRODUCT	Selling Unit	Prior to 17.8.79	EFFECTIVE DATE 17.8.79	8.6.80	13.1.81	11.7.81	18.3.83	17.3.85 (Current)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
ATF	KL	1377	2117	3217	3537	3872	4122	4740
MS 83/87	"	3538	3888	4538	4908	5438	5438@	6369
MS 93	"	3693	4043	4693	5063	5593	5593	6424
HSDO	"	1209	1310	1960	2330	2650	2850	3008#
SKO	"	1194	1295	1295	1395	1545	1645	1822#
LDO	"	807	1207	1857	2227	2506	2656	3054
Furnace Oil:								
For non-ferts.	"	889	1209	1859	2189	2424	2524	2903
For ferts.	"	---	829	829	1039	1274	1274	+1320
Bitumen St-Gr.								
Bulk	MT	676	1176	1826	2061	2323	2196	2524
Packed	"	961	1461	2111	2345	2608	2696	3100
Naphtha:								
For non-ferts.*	"	1012	2482	2692	2792	2792	2792	3211
For ferts.*	"	596	596	1071	1371	1723	1723	1982
JBO*	"	789	989	1679	1999	2358	2358	2712
SBP Spirit:								
64/69*	KL	1111	1861	2961	3331	3629	3629	4173
Hexane*	"	1111	1861	2961	3331	3629	3629	4173
MTO 140/205*	"	762	1124	1774	2044	2348	2348	2700
MTO Laws*	"	844	1206	1856	2126	2430	2430	2794
LPG:								
Domestic	MT	1633	1966	1966	2301	2634	2634	3028
Bulk	"	1927	2260	2260	2595	2928	2928	3978
Industrial	"	---	---	---	---	---	---	5128

NOTE : Prices have been rounded to the nearest Rupee.

* = Prices are exclusive of Customs and Excise Duties.

@ = With the introduction of MS 87, the price of the product was increased to Rs. 5538/KL w.e.f. 1.9.1983.

= Effective 26.3.1985.

+ = w.e.f. 1.9.83 the price was reduced to Rs. 1148/KL.

PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS AS ON 1.4.1985.

(Rs./K.L.)

	Bombay	Madras	Delhi	Calcutta	Kanpur
MOTOR SPIRIT 87 ON					
Ex-MI/Storage Point Price	6369.07	6369.07	6448.90	6398.94	6494.44
Bombay Octroi Surcharge/ State Surcharge	II2.00	35.00	25.00	IO.00	25.00
Entry Tax	-	-	-	20.00	-
RPO Charges	11.36	11.36	11.36	11.36	11.36
RPO Surcharge	15.00	15.00	15.00	15.00	15.00
Delivery Charges Beyond FDZ	-	-	-	2.88	-
Octroi/T.Tax/Local Levies	-	-	-	-	50.00
Sub. Total	6507.43	6430.43	6500.26	6458.18	6595.80
Sales Tax	780.89	900.26	455.02	645.82	527.66
Dealer's Commission	50.00	50.00	50.00	50.00	50.00
Total Rs./KL	7338.32	7380.69	7005.28	7154.00	7173.46
R.S.P. Rs./Litre	7.34	7.39	7.01	7.16	7.18
HIGH SPEED DIESEL OIL:					
Ex-MI/Storage Point Price	3077.55	3007.55	3089.99	3029.48	3136.67
Bombay Octroi Surcharge/ State Surcharge	76.03	35.00	25.00	I.00	5.00
Entry Tax	-	-	-	20.00	-
RPO Charges	7.27	7.27	7.27	7.27	7.27
RPO Surcharge	20.00	20.00	20.00	20.00	20.00
Delivery Charges Beyond FDZ	-	-	-	2.88	-
Octroi/T.Tax/Local Levies	-	-	4.68	-	40.00
Sub. Total	3110.85	3069.82	3146.94	3080.63	3208.94
Sales Tax	311.09	429.77	220.29	369.68	385.07
Dealer's Commission	20.00	20.00	20.00	20.00	20.00
Total Rs./KL	3441.94	3519.59	3387.23	3470.31	3614.01
R.S.P. Rs./Litre	3.45	3.52	3.39	3.48	3.62
LIGHT DIESEL OIL:					
Ex-MI/Storage Point Price	3053.97	3053.97	3151.06	3076.57	3206.30
Bombay Octroi Surcharge/ State Surcharge/Entry Tax	46.55	35.00	25.00	20.00	5.00
Octroi	-	-	4.82	-	50.00
Total	3100.52	3088.97	3180.88	3096.57	3261.30
Sales Tax	124.02	432.46	222.66	371.59	391.36
Total Rs./KL	3224.54	3521.43	3403.54	3438.16	3652.66

PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS AS ON 1.4.1985.

(Rs./K.L.)

	Bombay	Madras	Delhi	Calcutta	Kanpur
SUPERIOR KEROSENE OIL:					
Ex-MI/Storage Point Price	1821.93	1821.93	1898.51	1842.74	1937.91
Bombay Octroi Surcharge/ State Surcharge	58.05	35.00	25.00	----	5.00
Sales Tax	Exempted	74.28	57.71	92.14	163.20
Total	1879.98	1931.21	1981.22	1934.88	2106.11
Transportation	39.83	25.00	44.38	30.00	50.00
Wholesale Dealer's Comm.	30.30	8.00	7.70	30.30	8.00
BDA/Leakage etc.	19.50	31.31	--	--	15.00
Wholesale Price	1969.61	1995.52	2033.30	1995.18	2179.11
Leakage/Extra Ordinary Allo.	19.00	--	--	--	--
Retailer's Profit	39.70	80.20	69.02	39.70	50.00
Retailer's Transportation	--	--	--	22.93	20.00
Adhoc increase for retailer's Transport	——	——	——	65.00	——
Total Rs./KL	2028.31	2075.72	2102.32	2122.81	2294.11
Retail Selling Price Rs./Litre	2.03	2.08	2.11	2.12	2.25
LIQUIFIED PETROLEUM GAS(Rs 14.2 Kg.Cylinder)					
Ex-Refinery/Bottling Plant Price	43.01	43.01	44.61	45.00	45.56
Over/Under recovery	(-)0.21	(-)0.21	(-)0.22	(-)0.21	(-)0.20
Net-Rate	42.80	42.80	44.39	44.80	45.36
Bombay Octroi Surcharge/ Octroi/Entry Tax	I.24	——	0.20	0.5I	I.42
State Surcharge	--	--	0.36	--	--
Sub-Total	44.04	42.80	44.95	45.31	46.78
Local Delivery Charges	0.75	0.75	0.75	0.75	0.75
Billable rate excl. of Sales Tax	44.79	43.55	45.70	46.06	47.53
Sales Tax	1.79	3.48	2.28	6.91	3.80
Surcharge on Sales Tax	--	0.17	--	--	0.19
T.O.T./Addl. Sales Tax	--	0.17	--	--	--
Billable rate incl. of Sales Tax	46.58	47.37	47.98	52.97	5I.52
Distributor's Commission	3.37	3.37	3.37	3.37	3.37
Retail Selling Price	49.95	50.74	51.35	56.34	54.89

PRICE BUILD-UP OF SELECTED PETROLEUM PRODUCTS AS ON 1.4.1985.

(Rs./K.L.)

	Bombay	Madras	Delhi	Calcutta	Kanpur
FUEL OIL(NON-FERTILIZER)					
Ex-MI/Storage Point Price	2903.06	2903.06	3007.48	2927.37	
Bombay Octroi Surcharge/ State Surcharge/Entry Tax	73.92	35.00	25.00	20.00	
Octroi	---	---	5.18	---	
Total	2976.98	2938.06	3037.66	2947.37	
Sales Tax	119.08	323.19	212.64	235.79	
Total Rs./KL	3096.06	3261.25	3250.30	3183.16	
ATF (DOMESTIC AIRLINES)					
Ex-MI/Storage Point Price	4739.85	4739.85	4817.26	4760.24	4951.49
Bombay Octroi Surcharge/ State Surcharge/Entry Tax	103.50	——	25.00	20.00	——
Octroi	---	---	15.00	---	10.00
Airfield Charges	24.44	24.44	24.44	24.44	41.94
Sub-Total	4867.79	4764.29	4881.70	4804.68	5003.43
Sales Tax	135.76*	524.07	341.72	1201.17	400.27
Total Rs./KL	5003.55	5288.36	5223.42	6005.85	5403.70
ATF FOR INTERNATIONAL AIRLINES					
Ex-MI/Storage Point Price	4739.85	4739.85	4832.26	4760.24	
Less Refund of Basic Excise Duty	333.52	333.52	333.52	333.52	
Bonded Price	4406.33	4406.33	4498.74	4426.72	
Add Applicable Concessionl Duty	24.60	24.60	24.60	24.60	
International Airfield Charges	24.44	24.44	24.44	24.44	
Adhoc Surcharge	(1003.00)	(1003.00)	(1003.00)	(1003.00)	
Sub-Total	3452.37	3452.37	3544.78	3472.76	
Sales Tax	---	362.50	---	---	
Total Rs./KL	3452.37	3814.87	3544.78	3472.76	

* Concessional rate of Sales Tax applicable for supplies to IAC flights only in the State of Maharashtra.

NOTE: Fot Scheduled Airlines payment of Sales Tax is exempted except in the case of Madras.

Trends in Retail Selling Prices of Selected Petroleum Products in Metropolitan Towns in India

Prices as on	Bombay	Calcutta	Delhi	Madras	Kanpur
		MOTOR SPIRIT 83 (RS./Litre)			
1.1.1971	1.16	1.23	1.19	1.16	1.24
1.1.1972	1.42	1.46	1.43	1.39	1.46
1.1.1973	1.43	1.46	1.44	1.41	1.47
1.1.1974	2.82	2.82	2.78	2.69	2.73
1.1.1975	3.26	3.27	3.27	3.19	3.35
1.1.1976	3.36	3.39	3.39	3.30	3.47
1.1.1977	3.39	3.38	3.39	3.29	3.48
1.1.1978	3.38	3.38	3.39	3.29	3.48
1.1.1979	4.04	4.04	4.04	4.90	4.14
17.8.1979	4.43	4.42	4.41	4.25	4.52
8.6.1980	5.15	5.14	5.11	4.90	5.22
13.1.1981	5.56	5.54	5.50	5.29	5.62
11.7.1981	6.15	6.13	6.07	6.17	6.19
1.4.1982	6.15	6.13	6.07	6.17	6.19
15.2.1983	6.21	6.16	5.90	6.17	6.25
1.4.1983	6.21	6.31	5.99	6.16	6.15
1.4.1984(MS-87 ON)	6.32	6.24	6.09	6.44	6.26
1.6.1984	6.41	6.24	6.12	6.44	6.26
17.3.1985/1.4.1985	7.34	7.16	7.01	7.39	7.18
		HIGH SPEED DIESEL OIL (RS./Litre)			
1.1.1971	0.79	0.86	0.83	0.82	0.85
1.1.1972	0.83	0.90	0.86	0.87	0.88
1.1.1973	0.83	0.90	0.86	0.87	0.88
1.1.1974	0.81	0.87	0.84	0.88	0.87
1.1.1975	1.06	1.10	1.11	1.15	1.15
1.1.1976	1.28	1.35	1.36	1.36	1.32
1.1.1977	1.27	1.36	1.34	1.35	1.33
1.1.1978	1.27	1.36	1.34	1.35	1.33
1.4.1979	1.39	1.49	1.47	1.49	1.50
17.8.1979	1.58	1.68	1.66	1.66	1.69
11.9.1979	1.50	1.60	1.58	1.59	1.61
8.6.1980	2.21	2.25	2.28	2.24	2.34
13.1.1981	2.61	2.66	2.67	2.66	2.76
11.7.1981	2.96	3.01	3.02	3.05	3.11
1.4.1982	2.96	3.01	3.02	3.05	3.11
15.2.1983	3.21	3.31	3.18	3.27	3.46
1.4.1983	3.21	3.30	3.19	3.26	3.40
1.4.1984	3.21	3.30	3.20	3.34	3.42
1.6.1984	3.27	3.30	3.22	3.34	3.42
17.3.1985	3.52	3.35	3.47	3.60	3.70
26.3.1985/1.4.1985.	3.45	3.48	3.39	3.52	3.62

Trends in Retail Selling Prices of Selected Petroleum Products in Metropolitan Towns in India

Prices as on	Bombay	Calcutta	Delhi	Madras	Kanpur
		SUPERIOR KEROSENE (RS./Litre)			
1.1.1971	0.54	0.58	0.58	0.56	0.65
1.1.1972	0.57	0.61	0.61	0.57	0.69
1.1.1973	0.61	0.65	0.65	0.65	0.74
1.1.1974	0.82	0.84	0.82	0.85	0.86
1.1.1975	1.04	1.05	1.08	1.10	1.25
1.1.1976	1.21	1.25	1.29	1.31	1.39
1.1.1977	1.21	1.24	1.30	1.31	1.34
1.1.1978	1.18	1.24	1.30	1.31	1.34
1.4.1979	1.29	1.38	1.43	1.43	1.47
17.8.1979	1.46	1.56	1.61	1.62	1.66
11.9.1979	1.39	1.49	1.54	1.55	1.59
8.6.1980	1.39	1.49	1.54	1.55	1.59
13.1.1981	1.49	1.60	1.65	1.67	1.70
11.7.1981	1.60	1.76	1.81	1.84	1.90
1.4.1982	1.66	1.80	1.81	1.78	1.90
15.2.1983 Subsidised	1.70	1.80	1.77	1.78	1.95
Non-subsidised	3.00	3.12	3.10	3.15	3.35
18.3.1983	1.80	1.91	1.88	1,89	2.10
1.4.1983	1.80	1.90	1.88	1.88	2.05
1.4.1984	1.81	1.92	1.89	1.88	2.05
1.6.1984	1.85	1.92	1.92	1.88	2.05
17.3.1985	2.10	2.18	2.18	2.15	2.33
26.3.1985/1.4.1985	2.03	2.12	2.11	2.08	2.25
		LIQUIFIED PETROLEUM GAS (RS./Cylinders)			
	15. Kg.cyl	15 Kg. cyl	15 Kg. cyl	15 Kg.cyl	15 Kg. cyl
1.1.1971	----	23.33	22.01	23.96	22.49
1.1.1974	20.01	25.28	25.20	21.60	25.13
1.1.1975	22.10	27.79	27.36	23.94	27.61
1.1.1976	26.75@	33.31	32.61	29.36	32.85
1.1.1979	26.94@	37.06	34.98	31.90	35.42
17.8.1979	33.96@	42.93	40.23	37.32	40.82
8.6.1980	33.96@	42.93	40.23	37.81	40.82
13.1.1981	38.94@	49.09	45.53	---	46.26
11.7.1981	43.52@	54.84	50.78	48.74	53.06
1.4.1982	43.52@	54.84	50.78	48.74	53.06
1.9.1982	43.14@	51.93	44.58@	47.17	49.41
1.4.1983	43.14@	52.71	45.09@	47.17	50.41
1.4.1984	43.14@	52.71	45.09@	44.65@	47.72@
1.6.1984	44.11@	49.90@	45.47@	44.65@	48.81@
17.3.1985/1.4.1985	49.95@	56.34@	51.35@	50.74@	54.89

@ = For 14.2 Kg. Cylinder.

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

Slab of Annual Volumes of Sales (KL /Annual)	Dealers Commission effective from 1.4.77	15.7.80	1.3.81	16.8.81	1.10.82	15.2.83	1.9.83	17.3.85
MOTOR SPIRIT (Rs./KL):								
Prior to 1.7.1982:								
0-480	80*	100	107	114				
481-1080	50*	70	75	82				
Over 1080	35*	50	55	61				
Effective From 1.7.1982:								
0-360					134		135	146
361-600					98		99	108
601-1080					86		87	95
Above 1080					69		70	76
HIGH SPEED DIESEL OIL (RS./KL):								
Prior to 1.7.1982:								
0-600	50	55	58	60				
601-1200	25	30	33	35				
Above 1200	20	25	28	30				
Effective from 1.7.1982:								
0-360					79	81		82
361-600					58	60		62
601-1080					42	43		44
Above 1080					36	37		38

L.P.G. (RS./CYLINDER):

	Prior to Ist March 1982	Effective from 1.3.1983	
Per Cylinder	3.37	3.62	NIL

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

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

Sales per Annum (combined MS/HSDO Sales)	M.S. (Rs./KL.)	HSDO (Rs./KL)
Upto 360	80	50
361 to 720	35	10
721 and above	25	10

XII. EXCISE/CUSTOM DUTIES AND SALES TAX

REALISATION OF EXCISE & CUSTOM DUTIES FROM CRUDE OIL AND PETROLEUM PRODUCT DURING 1970-71 TO 1984-85(B.E.)

(Rs./Crorss)

	Products	Actuals					R.E.	B.E.
		1970-71	1975-76	1980-81	1981-82	1982-83	1983-84	1984-85
A.	EXCISE DUTIES							
1.	Mogas	173	404	493	518	559	628	666
2.	Kerosene Oil	121	161	124	150	168	179	186
3.	Refined Diesel Oil & Vaporising Oil	232	300	280	359	380	413	476
4.	Diesel Oil (Nos.)	23	21	20	19	21	19	20
5.	Furnace OIl	33	49	45	39	44	41	33
6.	Asphalt/Bitumen & Tar	9	11	16	19	36	34	35
7.	Blended or Compounded Lubes & Greases	-	45	-	-	-	-	-
8.	Petroleum Products (Nos.)	17	46	175	182	188	200	239
9.	Calcined Pet. Coke	-	3	5	7(included in item No.6 above)			
10.	Petroleum Gas	-	-	-	1	12	21	25
	TOTAL(A)	608	1040	1158	1294	1408	1535	1680
B.	CUSTOMS DUTIES							
1.	Petroleum Crude	-	13	16	16	17	14	147
2.	Mogas	5	9	8	10	6	3	4
3.	Kerosene Oil	10	37	83	87	79	109	111
4.	Batching Lubricating & Other Mineral Oils	9	21	103	92	55	59	63
5.	HSD & Vap. Oil	1	26	127	76	99	110	100
6.	Indl. Fuel Oil	5	9	17	7	neg.	7	20
	TOTAL(B)	30	115	354	288	256	302	445
	GRAND TOTAL (A+B)	638	1155	1512	1582	1664	1837	2125

Figures rounded to nearest crores.

Source: Budget Papers of the Central Government.

PERCENTAGE SHARE OF CENTRAL EXCISE ON POL TO TOTAL CENTRAL EXCISE AND TO NET NATIONAL PRODUCTS.

Year	Net National Product at current prices (.....Rs. Crores.....)	Central Excise	Central Excise on POL	Central Excise as % of NNP(%)	Central Excise on POL as % of NNP(%)	Central Excise on POL as % of Total Central Excise(%)
1.	2.	3.	4.	5.	6.	7.
1960-61	13263	416	101	3.1	0.8	24.3
1965-66	20637	898	261	4.4	1.3	29.1
1970-71	34235	1759	608	5.1	1.8	34.6
1971-72	36582	2061	708	5.6	1.9	34.4
1972-73	40317	2324	767	5.8	1.9	33.0
1973-74	50468	2602	874	5.2	1.7	33.6
1974-75	59505	3231	1011	5.4	1.7	31.3
1975-76	62154	3845	1040	6.2	1.7	27.1
1976-77	66924	4221	1110	6.3	1.7	26.3
1977-78	75674	4448	1152	5.9	1.5	25.9
1978-79	81432	5194	1290	6.4	1.6	24.0
1979-80	88927	6148	1407	6.9	1.6	22.9
1980-81	106175	6479	1158	6.1	1.1	17.9
1981-82	120806	7444	1294	6.2	1.1	17.4
1982-83	132470	8302	1408	6.3	1.1	17.0
1983-84	159598	10204	1430	6.4	0.9	14.0
1984-85(RE)	N.A.	11167	1631	N.A.	N.A.	14.6

SOURCE: i) Government of India's Economic Survey for N.N.P.
ii) Budget papers of Central Government.

COMPOSITE INCIDENCE OF EXCISE AND CUSTOM DUTIES ON PETROLEUM PRODUCTS

Y E A R	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	261	83	344	288.66
1970-71	17912	608	30	638	356.19
1971-72	20071	709	63	772	384.63
1972-73	21715	767	86	853	392.82
1973-74	22346	874	96	970	434.08
1974-75	22105	1011	96	1106	500.34
1975-76	22447	1040	115	1155	514.55
1976-77	24101	1110	112	1222	507.03
1977-78	25539	1152	127	1279	500.80
1978-79	28241	1290	190	1480	524.06
1979-80	29883	1407	213	1620	542.10
1980-81	30896	1158	354	1512	489.38
1981-82	32523	1294	288	1582	486.42
1982-83	34657	1408	256	1664	480.13
1983-84	35841	1430	219	1649	460.1
1984-85	38504	1631	449	2080	540.2

ROYALTY AND OIL DEVELOPMENT CESS PAID BY OIL COMPANIES ON PRODUCTION OF CRUDE OIL AND NATURAL GAS SINCE 1970-71

(Rs./Lakhs)

YEAR	ROYALTY ON CRUDE OIL				ROYALTY ON NATURAL GAS				OIL DEVELP-EMENT CESS.
	Gujarat	Assam	B.High	Total	Gujarat	Assam	B.Hight	Total	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
1970-71	501	352	-	853	21	4	-	25	-
1971-72	439	372	-	811	26	4	-	30	-
1972-73	581	570	-	1151	27	5	-	32	-
1973-74	560	558	-	1118	24	5	-	29	-
1974-75	611	566	-	1177	34	8	-	42	3081
1975-76	658	649	-	1307	42	26	-	68	5007
1976-77	1325	1097	156	2578	45	59	-	104	5289
1977-78	1791	1903	1008	4702	48	49	-	97	6375
1978-79	1832	1716	1335	4883	48	66	-	114	6889
1979-80	1610	1793	1357	4760	42	65	-	107	6970
1980-81	1884	533	2424	4841	45	36	-	81	6040
1981-82	2106	2696	3118	7920	44	69	-	113	13897
1982-83	1926	3498	7505	12929	169	123	593	885	26884
1983-84	2177	3055	10305	15537	183	108	948	1239	81279
1984-85	2367	3035	11932	17334	183	126	2071	2380	84434

NOTE: 1. Royalty figures in respect of Oil prior to 1981-82 pertain to calendar years and there-after to Financial years.
2. Oil Development cess was levied w.e.f. 23.7.1974.

EXCISE DUTY ELEMENT INCLUDED IN SELLING PRICES OF BULK REFINED PETROLEUM PRODUCTS.

(Rupees/Selling Unit)

PRODUCTS.	Selling Unit	w.e.f. 1.3.79	w.e.f. 17.8.79	w.e.f. 11.9.79	w.e.f. 8.6.80	w.e.f. 13.1.81	w.e.f. 11.7.81	w.e.f. 15.2.83	w.e.f. 1.4.83	w.e.f. 1.9.83	w.e.f. 1.4.84
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
1. Avgas 100/130	KL	2702.43	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89	2214.89
2. Avgas 115/145	KL	2700.50	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32	2213.32
3. Avgas 73	KL	2701.60	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21	2214.21
4. M.S. 87@@	KL	2703.25	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56	2215.56
5. M.S. 93	KL	2704.90	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92	2216.92
6. A.T.F.	KL	493.10	402.56	402.56	333.52@	333.52	333.52	333.52	333.52	333.52	333.52
7. S.K.O.	KL	493.10	402.63	333.59	333.59@	333.59	333.59	333.59	333.59	333.59	333.59
8. H.S.D.O.	KL	493.95	399.15	330.00	330.00@	330.00	330.00	330.00	330.00	330.00	330.00
9. L.D.O.	KL	74.15	153.96	153.96	153.96	153.96	153.96	153.96	153.96	153.96	153.96
10. F.O. (Fert. Use)	KL	125.82	125.82	125.82	125.82	125.82	125.82	125.82	125.82	125.82	---
11. F.O. (Non-Ferts.Use)	KL	125.82	125.82	125.82	125.82	125.82	125.82	125.82	125.82	125.82	125.82
12. Bitumen (Bulk)	MT	157.55	110.30	110.30	110.30	110.30	110.30	110.30	110.30	110.30	110.30
13. Bitumen (Packed)	MT	157.55	157.55	157.55	157.55	157.55	157.55	157.55	157.55	157.55	157.55
14. LPG(Domestic)(Packed)	MT	400.00	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50
15. LPG(Inuustrial)Bulk	MT	400.00	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50
16. Naphtha*(Fert.Use)	KL	4.50	4.50	4.36	4.36	4.36	4.36	---	---	4.40	4.40
17. Naphtha*(For Non-Fert.Use)	KL	26.50	26.50	26.50	26.50	26.50	26.50	----	----	26.25	26.25

* Duty at 15 Degree C.

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

@ Revision effective from 11.9.1979.

NOTE: No Custom/Excise Duty is chargeable on FO when used as feed stock,the duty @ Rs. 63.46/KL only is chargeable whe used in fetrilizer industry for purposes other then feed stock.

EXCISE AND CUSTOM DUTIES IN THE BASIC CEILING SELLING PRICES (BCSP) OF POL PRODUCTS EX-STORAGE POINT EFFECTIVE FROM 17.3.1985.

Rs./Selling Unit

PRODUCT	Selling Unit	Price Ex-Storage Point @ (Bombay)	Excise/Custom Duties (Rs.)	Col. 4 as % of Col. 3
(1)	(2)	(3)	(4)	(5)
A.T.F.	KL	4739.85	333.52	7.0%
Motor Spirit 87	KL	6369.07	2215.56	34.8%
Motor Spirit 93	KL	6424.48	2216.92	34.5%
H.S.D.O.	KL	3007.55**	330.00	10.9%
S.K.O	KL	1821.93**	333.59	18.3%
L.D.O.	KL	3053.97	153.96	5.0%
F.O. (Non-Fertilizers)	KL	2903.06	125.82	4.3%
F.O. (Fertilizers)	KL	1320.24	$	--
Bitumen St.Grade (Bulk)	MT	2524.85	110.30	4.4%
Bitumen St.Grade (Packed)	MT	3099.91	157.55	5.1%
Naphtha for non-Ferts.*	MT	3211.10		
Naphtha for ferts.*	MT	1982.31		
J.B.O.*	MT	2712.42		
SBP Spirit 55/115*	KL	3972.56		
SBP Spirit 64/69*	KL	4173.36		
Solvent 1425*	KL	3972.56		
Hexane*	KL	4173.36		
M.T.O. 140/205*	KL	2700.26		
M.T.O. (Laws)*	KL	2793.96		
L.P.G.(Domestic)(Packed)	MT	3028.98	262.50	8.7%
L.P.G.(Industrial) (Bulk Essential)	MT	3977.79	262.50	6.6%
L.P.G. Industrial Bulk Non-Essential	MT	5127.79	262.50	5.1%

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

@ = Based on the Basic ceiling selling prices for all refinery points (Primary pricing points) applicable as at Bombay w.e.f. 17.3.1985.

** = Prices are effective from 26.3.1985.

$ =No excise duty is chargable when used as feed stock. Excise duty @ Rs.63.46/KL only chargeable when used in fertilizer industry,other then feed stock. This is applicable w.e.f. 17.3.1985.

SALES TAX RATES APPLICABLE ON OIL, GAS AND PETROLEUM PRODUCTS AS ON 1.4.1985.

S.NO.	Products	Andhra Pradesh	Assam	Bihar	Chandi-garh	Delhi	Goa, Daman & Diu	Gujarat
A.	OIL & GAS:							
	Crude Oil	4%	4%	4%	--	--	--	4%
	Natural Gas	7%	--	--	--	--	--	10%+10%SC on ST
B.	PETROLEUM PRODUCTS:							
1.	Aviation Sprit	16%	10%	16%	15P/L	7%	12%	Bonded 30% & Duty Paid 9%
2.	Avition Turbine Fuel	13.1%	10%	16%	15P/L	7%	12%	Bonded 30% & Duty Paid 23%
3.	Motor Spirit	16%	10%	9%	15P/L	7%	12%	12%
4.	H.S.D.	14.5%	11%	14%	10P/L	7%	12%	12%
5.	L.D.O.	14.5%	11%	14%	6%	7%	12%	5%
6.	M.L.O.	14.5%	7%	9%	6%	7%	6%	5%
7.	S.K.O.	5.2%	2%	6%	6%	3%	4%	3%
8.	I.K.O.	5.2%	2%	5%	6%	3%	4%	3%
9.	F.O.	5.2%	7%	8%	6%	7%	12%	4%
10.	M.T.O.	5.2%	7%	4%	6%	7%	6%	5%
11.	Lubes	9%	9%	9%	6%	7%	6%	6%
12.	Greases	9%	9%	9%	6%	7%	6%	6%
13.	Petroleum Naphtha	7.7%	7%	9%	6%	7%	6%	5%
14.	Bitumen	6.5%	7%	9%	6%	7%	6%	5%
15.	Petroleum Coke	4.00%	4%	4%	--	4%	4%	4%
16.	Indane(LPG)	6.5%	7%	9%	6%	5%	12%	12%
17.	Transformer Oil	5.2%	7%	4%	6%	7%	6%	5%
18.	H.B. Fluid	6.5%	9%	4%	6%	7%	6%	6%

SALES TAX RATES APPLICABLE ON OIL, GAS AND PETROLEUM PRODUCTS AS ON 1.4.1985. (Contd...)

S.NO.	Products	Haryana	Himachal Pradesh	Jammu & Kashmir	Kerala	Madhya Pradesh	Maharash-tra	Karna-taka
A.	OIL & GAS:							
	Crude Oil	4%	4%	--	4%	4%	4%	4%
	Natural Gas	--	--	--	--	--	4%	--
B.	PETROLEUM PRODUCTS:							
1.	Aviation Sprit	6%	3.5%	8%	12%	12%	Bonded 23% Duty paid 9%	15%
2.	Avition Tur-bine Fuel	6%	3.5%	8%	8%	12%	Bonded 30% Duty paid 23%	15%
3.	Motor Spirit	6%	3.5%	4%	15%	13.50%	12%	15%
4.	H.S.D.	6%	3.5%	8%	20%	13.50%	10%	14%
5.	L.D.O.	8%	7%	8%	20%	13.50%	4%	14%
6.	M.L.O.	8%	7%	8%	5%	10%	4%	5%
7.	S.K.O.	8%	7%	2%	4%	2%	Exempted	4%
8.	I.K.O.	8%	7%	2%	4%	2%	Exempted	4%
9.	F.O.	8%	7%	8%	5%	12%	4%	10%
10.	M.T.O.	8%	7%	8%	7%	10%	4%	10%
11.	Lubes	8%	7%	8%	7%	10%	6%	10%
12.	Greases	8%	7%	8%	7%	10%	6%	10%
13.	Petroleum Naphtha	8%	7%	8%	5%	10%	4%	5%
14.	Bitumen	8%	7%	5%	8%	10%	4%	8%
15.	Petroleum Coke	4%	4%	—	4%	4%	4%	4%
16.	Indane(LPG)	8%	7%	Exempted	15%	12%	4%	8%
17.	Transformer Oil	8%	7%	8%	7%	10%	4%	10%
18.	H.B. Fluid	8%	7%	8%	7%	10%	10%	8%

SALES TAX RATES APPLICABLE ON OIL, GAS AND PETROLEUM PRODUCTS AS ON 1.4.1985. (Contd...)

S.NO.	Products	Meghalaya	Manipur	Nagaland	Mizoram	Orissa	Pondicherry
A.	OIL & GAS:						
	Crude Oil	--	2 PPL	4%	4%	4%	3%
	Natural Gas	7%	6%	6%			
B.	PETROLEUM PRODUCTS:						
1.	Aviation Sprit		20 PPL	8 PPL		16%	3%
2.	Avition Turbine Fuel		20 PPL	8 PPL		10%	3%
3.	Motor Spirit	20 PPL+2SC	20 PPL	8 PPL	7 PPL	10%	4%
4.	H.S.D.	11 PPL+1%SC	15 PPL	7 PPL	5 PPL	13%	4%
5.	L.D.O.	-do-	15 PPL	7 PPL	5 PPL	13%	3%
6.	M.L.O.		6%	5%		7%	3%
7.	S.K.O.	3 PPL	3%	3 PPL		8%	Abolished
8.	I.K.O.		3%	2 PPL		Exempt	Abolished
9.	F.O.		6%	5%		8%	3%
10.	M.T.O.		6%	--		7%	--
11.	Lubes	10 PPL+1%SC	15 PPL	9 PPL	8 PPL	12%	3%
12.	Greases	10 PP +1%SC	15 PPL	9PPL	8 PPL	12%	3%
13.	Petroleum Naphtha		6%	--		7%	--
14.	Bitumen		6%	5%		7%	--
15.	Petroleum Coke		4%	4%		4%	3%
16.	Indane(LPG)		6%	5%		8%	--
17.	Transformer Oil		--	--		--	--
18.	H.B. Fluid		--	--		--	--

SALES TAX RATES APPLICABLE ON OIL, GAS AND PETROLEUM PRODUCTS AS ON 1.4.1985. (Contd...)

S.NO.	Products	Punjab	Rajasthan	Tripura	Tamilnadu	U.Pradesh	W.Bengal.
A.	OIL & GAS:						
	Crude Oil Natural Gas	4%	4% 12%	4%	4%	4%	4%
B.	PETROLEUM PRODUCTS:						
1.	Aviation Sprit	15 PPL	12%	5%	10%	8%	9%
2.	Avition Turbine Fuel	7.14%	12%	5%	10%	8%	25%
3.	Motor Spirit	15 PPL	15%	8%	14%	8%	9.9%
4.	H.S.D.	10 PPL	12.5%	5%	14%	12%	12%
5.	L.D.O.	7.14%	12.5%	5%	14%	12%	12%
6.	M.L.O.	7.14%	8%	5%	10%	4%	8.02%
7.	S.K.O.	7.14%	8%	5%	4%	8%	5%
8.	I.K.O.	7.14%	8%	5%	4%	8%	Exempted
9.	F.O.	7.14%	8%	5%	10%	4%	8%
10.	M.T.O.	7.14%	8%	5%	10%	10%	8.02%
11.	Lubes	7.14%	8%	8%	10%	8%	11%
12.	Greases	7.14%	8%	8%	10%	8%	11%
13.	Petroleum Naphtha	7.14%	8%	5%	10%	8%	8.02%
14.	Bitumen	7.14%	8%	5%	8%	8%	8.02%
15.	Petroleum Coke	4%	4%	12%	4%	4%	4%
16.	Indane(LPG)	7.14%	8%	5%	8%	8%	15%
17.	Transformer Oil	7.14%	8%	5%	4%	8%	8.02%
18.	H.B. Fluid	7.14%	8%	5%	8%	8%	8.02%

IN ADDITION TO THE SALES TAX PAYABLE THE FOLLOWING TAX AMOUNTS ARE ALSO PAYABLE/RECOVERABLE.

1.	Andhra Pradesh	Surcharge at 0.5% per rupee as taxable turnover. This applies to all products. This is included in the sales tax rates indicated and it is recoverable. Also surcharge @ 10% on tax. Already included in S.T. Rates.
2.	Bihar	5% surcharge on tax. This is non-recoverable. 1% addl. Tax on gross turnover recoverable (Not on MS, ATF, AVN Sprits, HSD, LDO, SKO etc.) off. 1.4.81.
3.	Chandigarh	2% Addl. Tax on tax. It is recoverable.
4.	Goa, Daman & Diu	Addl. S. Tax % 10% of Sales Tax is payable which is not recoverable on our sales.
5.	Gujarat	Addl. Sales Tax at 10% on Sales Tax in respect of products under Gujarat Sales Tax Act, and on MST Act. This is recoverable.
6.	Haryana	Surcharge at 2% on Sales Tax on all products undersales tax Act is payable. This recoverabale.
7.	Himachal Pradesh	10% surcharge recoverable under GST Act.
8.	Jammu & Kashmir	Surcharge at 5% of Sales Tax is payable and the same is recoverable from the market. This does not apply to MST products.
9.	Karnataka	1. Surcharge at 10% on tax (recoverable on the Invoice) is also payable w.e.f. 1.4.79 not on kerosene.

IN ADDITION TO THE SALES TAX PAYABLE THE FOLLOWING

TAX AMOUNTS ARE ALSO PAYABLE/RECOVERABLE.

2. 0.5% turnover tax on value of oil is non recoverable w.e.f. 1.4.82.

3. Entry tax @ 1% on oil value of Pet. products under "the Karnataka Tax on entry of goods into local areas forconsumption use or sale therin 1979" (Not applicavle for LPG, Kerosene, Naphtha for use in manufacture of fertiliser).

4. 10% Rural Dev. Cess eff. 1.4.1984.

10. Kerla — Surcharge at 8% of Sales Tax is payable, but the same is not recoverable from the market. Addl. sales Tax @ 20% of Sales Tax is also payable which is recoverable on our sales.

11. Madhya Pradesh — The Sales Tax rates are inclusive or turnover tax levies. surcharge @ 7% on tax is also recoverable.

12. Maharashtra — Addl. Sales Tax @ 12% of tax is payable under the Sales Tax Act but the same is not recoverable from the market. This does not apply to Kerosene and declared goods.

13. Orissa — Addl. Sales Tax at 0.5% of Invoice value is payable on all products. This is recoverable.

14. Punjab — Addl. Tax at 2% of the Sales Tax on products under General Sales Tax Act is payable and is recoverable. This has already been included in ST Rates.

15. Tamil Nadu — Surchargee at 5.0% on tax is payable on all products which is recoverable, in specified area. Addl. turnover tax at 1.25% on taxable turnover under Sales Tax Act is also payable which has to be borne by seller. Addl. S/C @ 5% on tax is payable but not applicable for Petrol. HSD, SKO, LDO effective 10.6.81. This applies to Sales within Madras City and its suburban area within 32 Kilomiters.

16. Uttar Pradesh — 5% Addl. Tax on Tax. This is recoverable.

17. W. Bengal — Turnover Tax @ 1% of the gross turnover of the bill is payable. This is non-recoverable.

.....

Sales Tax Payments (inclusive of MST and CST) on Crude Oil/Condensates, Natural Gas & Petroleum Products made by the Oil Companies to State/Union Territory Governments during the year 1979-80 to 1984-85.

(Rs. in lakhs)

S T A T E	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85
1. Crude Oil						
Assam	396	193	1707	2226	2752	2723
Gujarat	471	476	1228	1467	1911	2056
Arunachal Pradesh	—	1	1	1	8	34
Maharashtra	--	--	--	—	3487	3795
Total (1)	867	670	2936	3694	8158	8608
2. Natural Gas						
Assam	69	56	84	113	98	128
Gujarat	185	214	227	232	259	264
Maharashtra (Bombay High)	—	—	—	862	602	1190
Total (2)	254	270	311	1207	959	1582
3. POL Products						
(a) States						
Andhra Pradesh	2831	4727	5865	6193	7525	9084
Assam	720	798	965	1189	1614	1911
Bihar	2143	2992	4702	4166	5366	6131
Gujarat	4798	7254	9323	10712	11408	12498
Harayana	590	678	870	1093	1459	1692
Himachal Pradesh	17	20	22	24	43	53
Jammu & Kashmir	189	264	336	342	372	411
Karnataka	2711	4034	4652	5697	6043	8258
Kerala	3466	4854	6409	6830	8074	7965
Madhya Pradesh	1700	2760	3014	3525	3935	4368
Maharashtra	6383	9342	11672	12300	14501	15153
Manipur	33	29	32	29	29	30
Meghalaya	neg.	1	1	1	Neg.	Neg.
Nagaland	neg.	neg.	neg.	neg.	Neg.	Neg.
Orissa	528	748	1027	1061	1410	1467
Punjab	1085	1220	1383	1534	1811	2067
Rajasthan	1666	2244	3055	3439	3799	4226
Tamil Nadu	8398	8407	10292	11296	12230	16416
Tripura	21	38	61	72	72	75
Uttar Pradesh	3584	4637	6641	8226	9317	11144
West Bengal	3474	4366	5459	7413	7926	8716
(b) Union Territories						
Chandigarh	34	34	32	35	37	38
Delhi	1291	1859	2243	2384	2689	3258
Goa	502	558	887	1054	1101	1144
Total (3)	46164	61864	78943	88615	100761	116105
GRAND TOTAL	47285	62804	82190	93516	109878	126295

XIII. TRANSPORTATION

Tonnage of Indian Tankers Fleet (DWT in '000').

Year*	Oil Tanker		Ore/Oil Carrier		Total	
	No. of Tankers	DW Tonnage	No. of Ships	DW Tonnage	No. of Ships	DW Tonnage
1.	2.	3.	4.	5.	6.	7.
		(A) Coastal Tankers				
1970	5	74.1	--	—	5	74.1
1975	9	137.6	--	--	9	137.6
1976@	9	137.6	—	--	9	137.6
1977@	9	137.2	--	--	9	137.2
1978@	8	126.8	--	--	8	126.8
1979@	9	132.9	--	--	9	132.9
1980@	10	158.5	--	—	10	158.5
1981@	16	247.7	--	--	16	247.7
1982@	18	300.6	--	—	18	300.6
1983@	18	300.6	--	--	18	300.6
1984@	18	300.6	—	—	18	300.6
		(B) Overseas Tankers				
1970	7	409.9	9	381.5	16	791.4
1975	20	1542.8	11	877.2	31	2420.0
1976	22	1840.6	14	1237.4	36	3078.0
1977@	23	1871.1	14	1237.8	37	3108.9
1978@	23	1871.1	17	1573.4	40	3444.5
1979@	22	1850.6	17	1573.4	39	3424.0
1980@	22	1850.6	16	1484.7	38	3335.3
1981@	23	1879.3	16	1484.7	39	3364.0
1982@	26	2034.1	16	1484.7	42	3518.8
1983@	25	1997.4	16	1484.7	41	3482.1
1984@	32	2426.9	17	1549.7	49	3976.6
		(C) All Tankers.				
1970	12	484.0	9	381.5	21	865.5
1975	29	1680.4	11	877.2	40	2557.6
1976	31	1978.2	14	1237.8	45	3215.6
1977@	32	2008.3	14	1237.8	46	3246.1
1978@	31	1997.9	17	1573.4	48	3571.3
1979@	31	1983.5	17	1573.4	48	3556.9
1980@	32	2009.1	16	1484.7	48	3493.8
1981@	39	2127.0	16	1484.7	55	3611.7
1982@	44	2334.7	16	1484.7	60	3819.4
1983@	43	2298.0	16	1484.7	59	3782.7
1984@	50	2727.5	17	1549.7	67	4277.2

* = As on 31st December of each year.
@ = DWT in Metric Tonnes.
Source:- Ministry of Shipping & Transport.

INDIAN TANKER FLEET AS ON 31.12.1984.

Owner/Name of the Ship	Coastal/ Overseas	DWT (Tonnes)	Year of the Built
1.	2.	3.	4.
A. SHIPPING CORP. OF INDIA			
1. Maharishi Dayanand*	Overseas	123450	1978
2. Vishvesvaraya	Coastal	16450	1973
3. Sarojni Naidu	Coastal	16440	1975
4. Bhagat Singh	Coastal	16540	1974
5. R.A. Kidwai	Coastal	24439	1975
6. J.N. Vyas	Coastal	24529	1975
7. Aurobindo	Overseas	24411	1976
8. Kolandia	Overseas	24490	1976
9. Lala Lajpat Rai	Overseas	49337	1965
10. Gargi	Overseas	58739	1963
11. Jawahar Lal Nehru	Overseas	87170	1969
12. Lal Bahadur Shastri	Overseas	87170	1970
13. Satya Murti	Overseas	89351	1975
14. Vivekananda	Overseas	89371	1974
15. Netaji Subhash Bose	Overseas	89392	1973
16. Lokmanya Tilak	Overseas	89411	1975
17. B.R. Ambedkar	Overseas	89454	1974
18. Chhatra Pati Shivaji	Overseas	89490	1974
19. Dr. Rajendra Prashad	Overseas	115723	1975
20. Dr. Zakir Husain	Overseas	115853	1975
21. Kanchanjunga	Overseas	276755	1975
22. Koyali	Overseas	276800	1976
23. Dada Bhai Naroji	Overseas	24400	1977
24. Bhaskara*	Overseas	21941	1965
25. Chankya*	Overseas	21962	1965
26. Leelavati*	Overseas	21962	1965
27. Bailadila*	Overseas	86890	1971
28. Ballary*	Overseas	86959	1970
29. Barauni*	Overseas	87200	1970
30. Vallabh Bhai Patel*	Overseas	113920	1977
31. Moti Lal Nehru*	Overseas	114086	1973
32. Vallathol*	Overseas	114152	1976
33. Abul Kalam Azad*	Overseas	114340	1974
34. Maharishi Karve*	Overseas	123450	1978
35. C.V. Raman	Coastal	41123	1981
36. Homi Bhaba	Coastal	41123	1982
37. Subedar Joginder Singh PVC	Overseas	61775	1984
38. Major Dhan Singh Thapa PVC	Overseas	61792	1984
39. Naik Jadunath Singh PVC	Overseas	61801	1984
40. Coy. Havaldar Major Piru Singh PVC	Overseas	61801	1984
41. Capt. Gurubachan Singh Salaria PVC	Overseas	61806	1984
42. L/NK Karan Singh PVC	Overseas	61807	1984
43. Major Somnath Sharma PVC	Overseas	61864	1984
44. Lt. Rama Raghoba Rana PVC	Overseas	61865	1984

* = Ore/Oil Bulk Carriers.

Indian Tanker Fleet as on 31.12.1984 (Contd...)

Owner/Name of the Ship	Coastal/ Overseas	DWT (Tonnes)	Year of the Built
1.	2.	3.	4.
B. GREAT EASTERN SHIPPING CO.			
1. Jag Ladki	Overseas	103124	1972
2. Jag Laxmi*	Overseas	121423	1976
3. Jag Leela*	Overseas	125085	1976
4. Jag Jyoti	Overseas	17892	1968
5. Jag Prakash	Overseas	25480	1974
6. Jag Priya	Overseas	32878	1975
7. Jag Preeti	Overseas	28679	1981
8. Jag Pari	Overseas	29139	1982
C. VARUN SHIPPING CO. LTD.:			
1. Meghdoot	Coastal	6102	1973
2. Premdoot	Coastal	6145	1972
3. Pavandoot	Coastal	26042	1971
D. EASSAR BULK CARRIERS LTD.:			
1. Nand Kala	Coastal	6703	1972
2. Nand Kavita	Coastal	25604	1970
3. Nand Kishore	Coastal	19500	1981
4. Nand Hari	Coastal	19604	1981
5. Nand Smiti	Coastal	6700	1982
6. Nand Shiv chand*	Overseas	65000	1982
E. SAGAR LINES PVT.:			
1. Sagar Tarni	Coastal	712	1965
F. SCINDIA STRAM NAVIGATION CO:			
1. Wal Chand*	Overseas	104750	1973
G. RATNAKAR SHIPPING CO.:			
1. Ratna Jayashree	Overseas	60252	1966
2. Ratna Abha	Overseas	60725	1982
H. RAJ LINES LTD. CALCUTTA:			
1. Raj Sewak	Coastal	1356	1966
2. Raj Lok	Coastal	1446	1966

* Ore/Oil Bulk Carriers.

SHARE OF TRAFFIC IN PETROLEUM PRODUCTS IN THE TOTAL TRAFFIC HANDLED AT MAJOR PORTS DURING 1965-66 TO 1984-85.

(Million Tonnes)

Name of the Port	Year	Total Traffic	POL Traffic	POL as %age of total traffic at the port
1.	2.	3.	4.	5.
Calcutta/Haldia*	1965-66	9.84	1.53	15.6
	1969-70	6.89	1.53	22.5
	1973-74	6.33	1.97	31.1
	1977-78	7.55	3.41	42.2
	1979-80	8.56	4.58	53.5
	1981-82	9.75	4.55	46.7
	1982-83	10.5	4.59	43.7
	1983-84	10.28	4.75	46.2
	1984-85	10.19	5.02	49.3
Bombay	1965-66	18.12	9.35	51.6
	1969-70	15.04	8.60	57.2
	1973-74	18.46	11.05	59.9
	1977-78	16.90	9.86	58.3
	1979-80	16.57	7.84	47.3
	1981-82	19.63	10.37	52.8
	1982-83	24.85	16.91	68.0
	1983-84	24.74	16.65	67.3
	1984-85	25.20	16.93	67.2
Madras	1965-66	4.87	0.93	19.1
	1969-70	6.44	2.24	34.8
	1973-74	7.75	3.47	44.8
	1977-78	8.07	3.47	43.0
	1979-80	9.99	3.73	37.3
	1981-82	11.41	4.59	40.2
	1982-83	12.41	5.81	46.8
	1983-84	13.32	6.58	49.4
	1984-85	15.01	6.93	46.2
Cochin	1965-66	2.87	1.04	36.2
	1969-70	4.79	3.56	74.3
	1973-74	3.72	2.50	67.2
	1977-78	5.17	3.81	73.7
	1979-80	5.47	3.87	70.8
	1981-82	5.51	4.18	75.9
	1982-83	5.72	4.33	75.7
	1983-84	5.13	3.80	74.1
	1984-85	3.92	2.63	67.1
Kandla	1965-66	2.51	0.93	37.1
	1969-70	2.11	0.98	46.4
	1973-74	3.12	1.50	51.3
	1977-78	3.82	2.75	72.0
	1979-80	7.27	5.45	75.0
	1981-82	9.53	7.16	75.1
	1982-83	12.65	10.74	84.9
	1983-84	14.16	11.36	80.2
	1984-85	15.75	11.94	75.8

* = Kandla POL traffic includes traffic handled at vadinar.

SHARE OF TRAFFIC IN PETROLEUM PRODUCTS IN THE TOTAL TRAFFIC HANDLED AT MAJOR PORTS DURING 1965-66 TO 1984-85.

(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.
Vishakapatnam	1965-66	4.38	2.01	45.9
	1969-70	8.30	1.94	23.4
	1973-74	7.95	1.93	24.3
	1977-78	9.69	1.74	18.0
	1979-80	10.23	1.94	19.0
	1981-82	10.85	2.11	19.4
	1982-83	10.18	2.10	20.6
	1983-84	11.35	4.03	35.5
	1984-85	12.87	4.47	34.7
Mormugao	1965-66	7.86	0.09	1.1
	1969-70	9.03	0.15	1.1
	1973-74	14.34	0.55	4.5
	1977-78	11.28	0.62	5.5
	1979-80	14.80	0.73	4.9
	1981-82	14.89	0.66	4.4
	1982-83	12.76	0.78	6.1
	1983-84	13.22	1.02	7.7
	1984-85	14.51	0.90	6.2
Paradip	1965-66	—	--	--
	1969-70	1.75	--	--
	1973-74	2.29	--	--
	1977-78	2.74	--	--
	1979-80	2.31	--	--
	1981-82	1.17	--	--
	1982-83	1.81	--	--
	1983-84	1.59	--	--
	1984-85	2.14	--	--
Port of Tuticorin	1977-78	0.63	0.35	55.6
	1979-80	2.41	0.44	18.3
	1981-82	2.69	0.47	17.5
	1982-83	3.23	0.52	16.1
	1983-84	3.55	0.43	13.5
	1984-85	3.77	0.51	13.5
New Mangalore	1977-78	0.38	0.20	52.6
	1979-80	0.90	0.21	23.3
	1981-82	1.64	0.36	22.0
	1982-83	2.27	0.35	15.4
	1983-84	2.84	0.35	12.3
	1984-85	3.38	0.44	13.0
GRAND TOTAL	1965-66	50.46	15.88	31.5
	1969-70	54.35	19.02	35.0
	1973-74	63.96	23.07	36.1
	1977-78	66.23	26.21	39.6
	1979-80	78.49	28.78	36.7
	1981-82	88.06	34.44	39.1
	1982-83	96.12	46.16	48.0
	1983-84	100.18	48.97	48.9
	1984-85	106.74	49.77	46.6

SOURCE: Ministry of Shipping & Transport.

ESTIMATED FREIGHT PAID ON IMPORTS@ OF CRUDE OIL/POL PRODUCTS TRANSPORTED BY INDIAN/FOREIGN FLAG TANKERS DURING THE YEARS 1982 TO 1984

Fraight in Rs./Crores. Qty. in Million Tonns

Products/Tankers	1982		1983		1984	
	Qty.	Fraight	Qty.	Fraight	Qty.	Fraight
A. Crude Oil						
Indian Tankers	10.82	87.91	13.26	90.18	14.22	87.94
Foreign tankers	5.76	24.17	2.26	12.69	0.84	4.54
Total (A)	16.58	112.08	15.52	102.87	15.06	92.48
B. POL Products						
Indian Tankers	1.18	24.70	0.94	21.63	1.02	24.19
Foreign tankers	3.77	20.53	3.25	27.04	4.35	26.37
Total (B)	4.95	45.23	4.19	48.67	5.37	50.56
C. Crude Oil/POL Products						
Indian Tankers	12.00	112.61	14.20	111.81	15.24	112.13
Foreign tankers	9.53	44.70	5.51	39.73	5.19	30.91
Total (C)	21.53	157.31	19.71	151.54	20.43	143.04

@ Quantity as per Bill of lading.

COASTAL MOVEMENT OF PETROLEUM PRODUCTS
(Quantity moved to Indian Ports)

Year	Quantity carried (in Thousand Tonns) By			Freight paid (Estimated) (Rs. Million)
	Indian Flag Vessels	Foreign Flag Vessels	Total	
1968	754.71	2442.61	3197.32	60.04
1969	1089.76	1941.68	3031.44	54.20
1970	1131.23	1695.36	2826.59	65.79
1971	1190.04	1656.50	2846.54	82.79
1972	1452.89	1138.18	2591.07	75.50
1973	1477.73	1168.25	2645.98	86.97
1974	1640.71	1055.65	2696.35	136.59
1975	2191.35	177.62	2368.97	117.52
1976	2060.77	20.65	2081.42	84.63
1977	2342.19	--	2342.19	101.37
1978	2823.67	--	2823.67	146.06
1979	2889.00	--	2889.00	194.61
1980	2713.78	--	2713.78	254.60
1981	3200.63	--	3200.63	309.86
1982	2671.27	--	3061.28	306.13
1983	3312.44	--	3312.44	339.70

* Includes freight paid on demurrage and dead freight paid.

MOVEMENT OF POL TRAFFIC ON RAILWAYS SINCE-1970-71

YEAR	Tonnes Originating ('000'MTS)	Earnings ('000'Rs.)	Average lead (Kms)	Earnings (Paise/ Tonnes Kms)	Average Fraight (Col. 3 divided 2 by Col. 2 (tonnes/Rs.)
1.	2.	3.	4.	5.	6.
1970-71	8857	464081	594	9.1	52.40
1971-72	10063	523049	593	8.8	51.98
1972-73	10181	550982	614	8.8	54.12
1973-74	9994	555560	638	8.7	55.59
1974-75	10751	723192	642	10.5	67.27
1975-76	11663	860925	605	12.2	73.82
1976-77	12395	1038462	609	13.8	83.78
1977-78	13062	1120693	631	13.6	85.80
1978-79	14301	1324332	698	13.3	92.60
1979-80	14266	1497510	729	14.4	104.97
1980-81	14954	1835693	780	15.7	122.76
1981-82	16555	2848050	731	23.5	172.04
1982-83	17342	3588169	647	32.0	206.91
1983-84	17949	4052635	597	37.8	225.79

RAIL FREIGHT IN RESPECT OF PETROLEUM PRODUCTS;

RS/KL

Distance. Kms.	1.4.1980		1.4.1981		14.8.1981		From 1.1.82 Onwards	
	Non dangerous POL	Dangerous POL	Non dangerous POL	Dangerous POL	Non Dangerous POL	Dangerous POL	Non Dangerous POL	Dangerous POL
1.	2.	3.	4.	5.	6.	7.	8.	9.
100	24.40	38.20	34.30	56.60	42.40	64.90	46.60	71.40
300	47.70	76.20	67.20	113.40	83.80	130.30	92.20	143.30
500	68.50	110.10	96.70	164.00	121.30	188.70	133.40	207.60
800	111.80	181.10	158.10	270.00	198.70	310.60	228.50	357.20
1000	132.90	215.50	187.80	321.40	236.40	370.00	271.90	425.50
1500	181.60	295.50	257.10	441.10	323.80	508.20	372.40	584.40
2000	223.50	364.40	316.60	544.20	399.40	627.10	459.30	721.20
2500	256.30	418.30	362.70	624.60	457.90	720.09	526.60	828.00

Non-dangerous POL:- Include HSDO, LDO and other Petroleum and Hydro-carbons Oil (Except Kerosene Oil).

Dangerous POL :- Include Motor Spirit, Benzene and other dangerous mineral oils.

SOURCE :- Ministry of Railways.

Crude Oil & Product Pipelines in India as on 1.4.1985

Pipelines	Owned by	Length in KMS	Diametre in inches
1.	2.	3.	4.
1. CRUDE PIPELINES (ONSHORE)			
Ankleshwar - Koyali (Baroda)	ONGC	94.77	16"
Kalol - Nawagam	ONGC	48.90	12 3/4"
Nawagam Koyali	ONGC	77.63	14"
Sanand - Kalol	ONGC	12.52	8 5/8"
Sobhashan - North Kadi	ONGC	35.59	12 3/4
North Kadi - Kalol	ONGC	20.23	8 5/8"
Jhalora - Sanand	ONGC	9.36	8 5/8''
Lakwa - Moran	ONGC	17.50	12 3/4"
Rudrasagar - Lakwa	ONGC	38.00	8 5/8''
Geleki - Dikhow	ONGC	18.90	8 5/8''
Geleki - Jorhat	ONGC	48.40	14"
Borhollah - Jorhat pipeline	ONGC	42.80	12 3/4"
Digboi oilfield-Digboi Refinery	OIL	12.50	6"
Digboi oilfield-Digboi Refinery	OIL	10.4	4"
Nahorkatiya-Digboi	OIL	35.0	8"
Nahorkatiya-Gauhati loopline	OIL	100.0	16"
Nahorkatiya-Gauhati	OIL	401.0	16"
Gauhati-Barauni	OIL	757.0	14"
Gauhati-Barauni loopline	OIL	112.0	16"
Nararabet to Salaya tank	IOC	5.70 each	42"
Farm (2 lines)			
Salaya-Viramgam	IOC	275.00	28"
Viramgam-Koyali	IOC	141.00	18"
Viramgam-Mathura	IOC	803.00	24"
North Kalol. GGS-I to S. Kadi	ONGC	5.10	12 3/4
Santhol to North Kadi	ONGC	4.32	12 3/4
Jotana to Santhol	ONGC	2.73	4 1/2
Viraj to South Kadi	ONGC	5.83	8 5/8"
Total Onshore		3140.88	

Crude Oil & Product Pipelines in India as on 1.4.1985. (Contd...)

Pipelines	Owned by	length (in KMS)	Diametre (in inches)
1.	2.	3.	4.
II. CRUDE PIPELINES (OFFSHORE)		236.67	
BH (platform 'F') to Uran	ONGC	203.00	30"
Uran-Trombay	ONGC	24.00	36"
Trombay-Butcher	ONGC	4.40	36"
SBM to Nararabet	IOC	5.27	42"
Total Crude Pipelines (I+II)		3377.55	
PRODUCT PIPELINES			
Gauhati-Siliguri	IOC	435.0	8 5/8"
Digboi-Tinsukia	IOC	38.35	6"
Digboi-Tinsukia	IOC	35.12	6"
Digboi-Tinsukia	IOC	34.39	4"
Koyali-Ahmedabad	IOC	115.70	8 5/8"
Barauni-Kanpur	IOC	668.78	12 3/4"
Haldia-Mourigram-Rajbandh	IOC	268.58	12 3/4"
Haldia-Barauni	IOC	524.83	12 3/4"
Mathura-Delhi	IOC	147.00	16"
Delhi-Ambala	IOC	202.00	14"
Ambala-Jullunder	IOC	164.00	12 3/4"
Ernakulam Ins. to FACT	BPCL	13.00	4"
BPCL (R) to Wadibunder Ins.	BPCL	22.00	12"
HPCL (R) to BPCL (R)	BPCL	3.00	8"
BPCL (R) to HPCL (R)	BPCL	1.50	8"
BPCL (R) to Pirpau	BPCL	4.50	14"
Total Product Pipeline		2677.75	
III. GAS PIPELINES (OFFSHORE)			
BH (Platform 'F') to Uran	ONGC	203.00	30"
Uran-Trombay	ONGC	24.00	18"
Uran-MSEB	ONGC	6.00	12"
Uran-Thal	ONGC	21.00	26"
Total (Offshore)		254.00	

Crude Oil & Product Pipelines in India as on 1.4.1985. (Contd...)

Pipelines	Owned by	length (in KMS)	Diametre (in inches)
1.	2.	3.	4.
IV. GAS PIPELINES (ONSHORE)		352.42	
Cambay-Dhuwaran	ONGC	25.00	14"
Ankleshwar-Uttaran	ONGC	38.25	16"
Ankleshwer-Baroda	ONGC	96.55	14"
Nawagam-Calico Mills	ONGC	24.50	8 5/8"
Sanand-Kalol	ONGC	12.67	8 5/8"
Kalol-IFFCO (FG)	ONGC	2.51	8 5/8"
Kalol-IFFCO (AS)	ONGC	2.51	12 3/4"
Sobhashan-Dudh Sagar	ONGC	9.20	8 5/8"
Dabka-Saraswani Platform	ONGC	10.50	4-1/2"
North Kadi to S. Kadi	ONGC	16.40	8 5/8"
Jhalora to Sanand	ONGC	9.27	8 5/8"
Jotna Santhal-N. Kadi	ONGC	7.17	8 5/8"
Motwan to Ankleshwer	ONGC	2.89	8 5/8"
Kalol-Kadi GIDC	ONGC	19.40	8 5/8"
Ramol-Nawagam	ONGC	17.45	6 5/8"
ASEB Gas Pipeline From Lakwa to Maibella	ONGC	16.15	12 3/4"
Digboi-Duliajan	OIL	42.00	10"
Total Gas Pipelines (III+IV)		606.42	
V. LPG Pipelines (OFFSHORE) Uran-Trombay	ONGC	24.00	8"
VI. NGL Pipeline (OFFSHORE)			
Uran-Trombay	ONGC	24.00	8"
Grand Total (I to VI)		6709.72	

XIV. MARKETING NET WORK

Retail outlets in India as on 1st January of each year

(Number)

Year	Nos.	B/Shell/ BPCL	ESSO/ HPCL	CALTEX/ HPCL(VMU)	IOC	IBP	AOC/ AOD	TOTAL
1.	2.	3.	4.	5.	6.	7.	8.	9.
1968	Nos.	3683	1955	1437	1516	229	119	8939
	%	41.2	21.9	16.1	16.9	2.6	1.3	100
1969	Nos.	3700	1948	1396	2131	223	124	9522
	%	38.8	20.5	14.7	22.4	2.3	1.3	100
1970	Nos.	3577	1922	1392	2655	233	129	9908
	%	16.1	19.3	14.0	26.8	2.4	1.4	100
1971	Nos.	3583	1928	1384	2967	249	144	10255
	%	35.0	18.8	13.5	28.9	2.4	1.4	100
1972	Nos.	3535	1923	1384	3129	297	150	10418
	%	33.9	18.5	13.3	30.0	2.9	1.4	100
1973	Nos.	3478	1920	1372	3274	440	155	10639
	%	32.7	18.0	12.9	30.8	4.1	1.5	100
1974	Nos.	3262	1887	1359	3349	487	164	10508
	%	31.0	18.0	12.9	31.9	4.6	1.6	100
1975	Nos.	3173	1867	1206	3546	525	163	10480
	%	30.3	17.8	11.5	33.8	5.0	1.6	100
1976	Nos.	3157	1872	1201	3583	619	164	10596
	%	29.8	17.7	11.3	33.8	5.8	1.6	100
1977	Nos.	3183	1916	1200	3804	717	166	10986
	%	29.0	17.5	10.9	34.6	6.5	1.5	100
1978	Nos.	3241	1965	1198	4051	850	168	11473
	%	28.3	17.1	10.4	35.3	7.4	1.5	100
1979	Nos.	3288	1966	1201	4150	998	173	11806
	%	27.8	16.9	10.2	35.2	8.4	1.5	100
1980	Nos.	3296	3198@		4231	975	173	11873
	%	27.8	26.9		35.6	8.2	1.5	100
1981	Nos.	3308	3225@		4333	1001	175	12042
	%	27.5	26.8		36.0	8.3	1.4	100
1982	Nos.	3314	3247@		4413	1019	178	12171
	%	27.2	26.7		36.2	8.4	1.5	100
1983	Nos.	3232	3124@		4504	1024	186	12070
	%	26.8	25.9		37.3	8.5	1.5	100
1984	Nos.	3378	3391@		4654	1051	190	12664
	%	26.7	26.8		36.7	8.3	1.5	100
1985	Nos.	3442	3451@		4707	1062	202	12864
	%	26.7	26.8		36.6	8.3	1.6	100

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

STATE-WISE NUMBER OF RETAIL OUTLETS, MPDCs/FFCs, LDO/SKO DEALERS AND LPG DISTRIBUTORS AS ON 1.4.1985

(Numbers)

State/Union Territories		Retail outlets	MPDC/ FFC	LDO/SKO dealers	LPG distributors
1.		2.	3.	4.	5.
	STATES				
1.	Andhra Pradesh	1054	54	573	225
2.	Arunachal Pradesh	16	-	12	2
3.	Assam	261	8	310	42
4.	Bihar	756	30	316	76
5.	Bhutan	8	-	2	-
6.	Gujarat	845	25	346	187
7.	Haryana	425	29	129	51
8.	Himachal Pradesh	57	3	16	10
9.	Jammu & Kashmir	99	1	25	22
10.	Karnatka	805	22	270	145
11.	Kerala	621	8	229	70
12.	Madhya Pradesh	761	37	308	128
13.	Maharashtra	1361	64	541	373
14.	Manipur	12	-	25	3
15.	Meghalaya	32	-	25	6
16.	Mizoram	7	-	9	2
17.	Nagaland	17	-	11	6
18.	Orissa	274	14	165	45
19.	Punjab	849	34	216	79
20.	Rajasthan	686	50	213	65
21.	Sikkim	7	-	7	1
22.	Tamil Nadu	1227	31	433	190
23.	Tripura	27	-	37	3
24.	Uttar Pradesh	1610	107	575	202
25.	West Bengal	905	26	382	127
	UNION TERRITORIES:				
26.	A.N. Islands	1	-	1	-
27.	Chandigarh	17	-	9	14
28.	D.N. Haveli	1	-	-	1
29.	Delhi	230	1	65	126
30.	Goa, Daman & Diu	63	1	19	18
31.	Pondicherry	23	-	7	4
	GRAND TOTAL:	13057	545	5276	2223

STATE-WISE NUMBER OF LPG DOMESTIC CUSTOMERS AS ON 1.4.1985

(Number)

STATE/UTS	AOD	IOC	HPCL	BPCL	TOTAL
STATES					
1. Andhra Pradesh	—	237534	390187	85000	712721
2. Assam	61400	86827	--	—	148227
3. Bihar	--	252326	15050	--	267376
4. Gujarat	—	557338	142614	190000	889952
5. Haryana	--	129790	17560	39000	186350
6. Himachal	--	35458	300	—	35758
7. Jammu & Kashmir	--	9177	39556	--	48733
8. Karnataka	--	172202	212628	93000	477830
9. Kerala	--	173655	14241	42500	230396
10. Madhya Pradesh	--	299333	158010	61700	519043
11. Maharashtra	4800	--	866153	940500	1811453
12. Manipur	5200	--	—	--	5200
13. Meghalaya	--	--	--	--	--
14. Mizoram	4900	--	--	--	4900
15. Nagaland	2950	--	--	--	2950
16. Orissa	—	49315	40491	—	89806
17. Punjab	--	182600	31828	73000	287428
18. Rajasthan	—	141945	56960	50700	249605
19. Sikkim	--	3069	--	--	3069
20. Tamil Nadu	—	761264	37927	72500	871691
21. Tripura	3750	--	--	--	3750
22. Uttar Pradesh	—	699206	37654	116300	853160
23. West Bengal	--	322636	74614	--	397250
UNION TERRITORIES:					
24. A & N Island	—	--	--	--	--
25. Arunachal Pradesh	--	--	--	--	--
26. Bhutan	--	--	--	--	--
27. Chandigarh	--	52511	16862	900	70273
28. D.N. Haveli	--	--	1660	--	1660
29. Delhi	--	466741	80031	146600	693372
30. Goa, Daman & Diu	—	--	32124	28700	60824
31. Lakshadeep	--	--	--	--	--
32. Pondicherry	—	17305	--	800	18105
TOTAL:	83000	4650232	2266450	1941200	8940882

XVI - GENERAL

Contribution of Petroleum Sector to Net National Product (at Current Prices)

(Rs./Crores)

Year	Petroleum & Natural Gas	Petroleum Refining	Total	N.N.P. at current price	% of (Col.4 to (Col. 5)
1.	2.	3.	4.	5.	6.
1970-71	27.72	47.84	75.56	34235	0.22
1971-72	32.43	59.33	91.76	36582	0.25
1972-73	32.12	N.A.		40317	
1973-74	44.63	43.97	88.60	50468	0.18
1974-75	87.10	84.47	171.57	59505	0.29
1975-76	92.14	89.78	181.92	62302	0.29
1976-77	118.25	153.35	271.60	66924	0.41
1977-78	166.26	194.06	360.32	75674	0.48
1978-79	221.10	113.77	334.87	81432	0.41
1979-80	259.62	134.64	394.26	88927	0.44
1980-81	174.48	159.66	334.14	106175	0.31
1981-82	1167.00	N.A.	N.A.	120806	
1982-83	2003.01	N.A.	N.A.	132470	
1983-84	2976.28	N.A.	N.A.	159598	

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

(Rs. Lakhs)

Year	Crude Petroleum & Natural Gas	Coal & Lignite
1976-77	18978	51671
1977-78	27278	51504
1978-79	33148	50615
1979-80	37221	75908
1980-81	33177	103357
1981-82	136979	122695
1982-83	234249	143634
1983-84	345007	157515

GROSS PRODUCTIONS OF ENERGY BY VARIOUS SOURCES IN INDIA

Year	Coal & Lignite			Hydro-carbon			Power Million (KWH)			
	Coal (M.T.)	Lignite (M.T.)	Total (M.T.)	Natural Gas(Mn. Cubic metres	Crude Petroleum '000' Tonnes	Petroleum Products @ '000' Tonnes	Thermal	Hydel.	Nuclear	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1960-61	55.67	0.05	55.72	---	448	6077	9100	7837	---	16937
1965-66	67.73	2.57	70.30	507	3473	10081	19641	16734	---	36375
1970-71	72.95	3.39	76.34	1445	6822	18333	28162	25248	2417	55827
1971-72	72.42	3.72	76.14	1535	7299	19867	31713	28024	1189	60926
1972-73	77.22	2.89	80.11	1565	7321	19092	36217	27196	1133	64546
1973-74	78.17	3.32	81.49	1713	7189	20724	35321	28972	2396	66689
1974-75	88.41	2.94	91.35	2041	7684	20800	40109	27875	2206	70190
1975-76	99.68	3.03	102.71	2368	8448	22055	43303	33302	2626	79231
1976-77	104.02	4.01	105.03	2428	8898	22732	50245	34836	3252	88333
1977-78	101.00	3.59	104.59	2839	10763	24670	52495	37961	1740	92196
1978-79	101.97	3.27	105.24	2811	11633	25671	53420	47138	2770	103328
1979-80	103.90	3.05	106.95	2767	11766	27228	57155	45494	2876	105525
1980-81	114.01	4.80	118.81	2358	10507	25436	61301	46542	3001	110844
1981-82	124.23	5.88	130.11	3851	16194	29717	69392	49597	3021	122010
1982-83	130.50	6.40	136.90	4936	21063	32761	79880	48309	2022	130211
1983-84	138.28	6.64	144.92	5961	26020	34793	86535	49867	3494	139896
1984-85*	147.43	7.11	154.54	7241	28990	35161	98770	53785	4078	156633

* = Provisional @ = Includes RBF

Source:- I) Central Electricity Authority and Economic Survey.
II) Coal Statistics - Coal Controller's Organisation, Department of Coal.

XVII. INTERNATIONAL PETROLEUM STATISTICS

World Proved Reserves of Oil and Natural Gas at End 1984

Country	Crude oil			Natural Gas		
	Reserves (Billion Tonnes)	Percentage share of total	R/P ratio **	Reserves (Trillion cubic metres)	Percentage share of total	R/P ratio **
1.	2.	3.	4.	5.	6.	7.
North America USA	4.4	4.9	8.9	5.6	5.8	11.5
Canada	1.1	1.2	14.6	2.6	2.7	36.1
Total N. America	5.5	6.1	9.7	8.2	8.5	14.7
Latin America Argentina	0.3	0.3	12.0	0.7	0.7	69.2
Brazil	0.3	0.3	11.0	@	@	
Ecuador	0.2	0.2	14.9	0.1	0.1	*
Mexico	6.8	6.9	45.2	2.2	2.3	61.2
Venezuela	3.7	3.6	37.9	1.6	1.6	94.8
Others	0.4	0.5	14.7	0.7	0.7	
Total Latin America	11.7	11.8	34.5	5.3	5.4	66.4
Western Europe Norway	1.1	1.2	31.9	2.5	2.6	86.3
United Kingdom	1.8	1.9	14.4	0.7	0.8	20.7
Others	0.4	0.4	15.6	2.6	2.7	
Total W.Europe	3.3	3.5	17.9	5.8	6.1	34.3
Middle East Abu Dhabi	4.0	4.3	*	0.6	0.6	91.3
Dubai	0.2	0.2	11.0	0.1	0.1	*
Iran	6.6	6.9	60.5	13.6	14.1	*
Iraq	6.0	6.3	*	0.8	0.9	*
Kuwait	12.4	12.7	*	0.9	1.0	*
Neutral Zone	0.8	0.8	35.7	@	@	
Oman	0.5	0.5	22.9	@	@	
Qatar	0.4	0.5	21.6	4.2	4.4	*
Saudi Arabia	23.0	23.9	*	3.5	3.6	*
Syria	0.2	0.2	25.1	@	@	
Others	0.1	0.1	28.7	0.9	0.9	*
Total Middle East	54.2	56.4	93.8	24.6	25.6	*
Africa Algeria	1.2	1.3	26.7	3.1	3.2	*
Angola	0.3	0.3	26.3	@	@	
Egypt	0.4	0.5	9.8	0.2	0.2	63.9
Libya	2.8	3.0	52.1	0.6	0.6	*
Nigeria	2.3	2.4	32.8	1.9	1.1	*
Tunisia	0.2	0.2	34.6	@	@	
Others	0.3	0.3	13.8	0.4	0.4	*
Total Africa	7.5	8.0	29.8	5.3	5.5	*
Asia & Australasia Japan	+	+	18.0	+	+	12.8
Brunei	0.2	0.2	23.8	0.2	0.2	22.5
Indonesia	1.2	1.2	16.8	1.1	1.2	62.2
Malaysia	0.4	0.4	16.3	1.4	1.5	*
Other S.E.Asia	+	+	20.8	0.2	0.2	*
India	0.5	0.5	17.0	0.4	0.4	*
Other South Asia	+	+	6.4	0.6	0.7	69.2
Australia	0.2	0.2	7.6	0.5	0.5	33.5
New Zealand	+	+	23.5	0.2	0.2	58.0
Total Asia & Australasia	2.5	2.5	15.6	4.6	4.9	62.3
Total NCW	84.7	88.3	40.7	53.8	56.0	56.4
Centrally Planned Economies(CPEs)						
China	2.6	2.7	22.8	0.9	0.9	68.4
USSR	8.6	8.8	14.0	41.1	42.7	70.3
Others	0.2	0.2	12.2	0.4	0.4	9.3
Total CPEs	11.4	11.7	15.3	42.4	44.0	65.5
TOTAL WORLD	96.1	100.0	34.0	96.2	100.0	60.0
of which OPEC	64.8	67.2	72.0	28.8	29.9	*

* Over 100 years. + Less than 0.05. @ Included under others, if any.

** Reserves/Production (R/P)ratio reflects oil reserves remaining at the end of any year divided by the production in that year.The ratio shows the length of time that those remaining reserves would last if production were to continue at the then-current level.

Source: B.P. Statistical review of world energy, June 1985.

WORLD ESTIMATED CRUDE OIL PRODUCTION 1981-1984

(Million Tonnes)

Country	1981	1982	1983	1984	Percentage Change 1984 over 1983	Percentage Share of Total 1984
1.	2.	3.	4.	5.	6.	7.
North America						
USA	482.8	484.5	486.8	494.0	+ 1.5	17.5
Canada	72.9	70.0	71.7	73.7	+ 2.9	2.6
Total N. America	555.7	554.5	558.5	567.7	+ 1.7	20.1
Latin America						
Argentina	25.5	25.6	24.9	24.3	- 2.5	0.9
Brazil	10.7	13.4	17.4	23.8	+36.8	0.8
Colombia	6.8	7.4	7.8	8.6	+ 9.0	0.3
Ecuador	10.3	10.4	11.9	12.6	+ 6.3	0.4
Mexico	128.3	149.4	146.6	150.0	+ 2.3	5.3
Trinidad	10.1	8.9	8.0	8.4	+ 5.3	0.3
Venezuela	112.5	101.3	97.0	97.5	+ 0.4	3.4
Others	13.3	14.1	12.4	12.8	+ 3.2	0.5
Total Latin America	317.5	330.5	326.0	338.0	+ 3.7	11.9
Western Europe						
Austria	1.4	1.3	1.3	1.2	- 4.2	+
Denmark	0.8	1.7	2.2	2.3	+ 6.9	0.1
France	1.7	2.4	2.3	2.7	+16.3	0.1
Italy	1.5	1.8	2.2	2.3	+ 6.2	0.1
Norway	24.9	24.6	30.5	35.0	+15.0	1.2
Turkey	2.4	2.3	2.2	2.1	- 4.7	0.1
United Kingdom	89.4	103.4	114.9	125.9	+ 9.6	4.5
West Germany	4.5	4.3	4.1	4.0	- 2.9	0.1
Yugoslavia	4.3	4.3	4.2	4.0	- 4.2	0.1
Others	3.0	4.6	7.2	7.0	- 2.7	0.2
Total W.Europe	133.9	150.7	171.1	186.5	+ 9.1	6.5
Middle East						
Abu Dhabi	54.5	42.5	40.8	39.8	- 2.3	1.4
Dubai	17.8	17.8	16.9	17.8	+ 5.3	0.6
Iran	65.8	119.8	122.4	109.3	-10.7	3.9
Iraq	44.0	49.6	54.1	57.5	+ 6.3	2.0
Kuwait	48.2	34.9	44.7	48.9	+ 9.5	1.7
Neutral Zone	19.4	16.4	16.2	21.9	+35.5	0.8
Oman	16.4	16.2	19.6	21.0	+ 7.3	0.7
Qatar	20.2	16.3	14.7	20.1	+36.8	0.7
Saudi Arabia	491.3	327.9	255.8	229.6	-10.2	8.1
Others	11.6	10.8	10.9	11.8	+ 7.5	0.4
Total Middle East	789.2	652.2	596.1	577.7	- 3.1	20.3
Africa						
Algeria	46.3	45.8	42.3	43.2	+ 2.1	1.5
Egypt	34.1	34.9	38.3	45.2	+18.0	1.6
Libya	58.7	54.7	54.4	53.5	- 1.8	1.9
Other North Africa	5.5	5.0	5.4	5.6	+ 3.7	0.2
Gabon	7.6	7.7	7.6	7.8	+ 2.3	0.3
Nigeria	71.0	63.5	61.0	69.4	+13.9	2.5
Other West Africa	16.5	18.1	21.2	24.1	+13.8	0.9
Total Africa	239.7	229.7	230.2	248.8	+ 8.1	8.9

WORLD ESTIMATED CRUDE OIL PRODUCTION* 1981-1984 (Contd...)

(Million Tonnes)

Country	1981	1982	1983	1984	Percentage change 1984 over 1983	Percentage share of total 1984
1.	2.	3.	4.	5.	6.	7.
Asia & Australasia						
Japan	0.4	0.4	0.4	0.4	+ 5.0	+
Brunei	8.6	8.6	8.6	8.0	- 8.0	0.3
Indonesia	82.2	69.0	65.3	70.0	+ 7.2	2.5
Malaysia	12.4	14.6	20.2	24.8	+22.6	0.9
Other S.E.Asia	0.6	0.7	1.3	1.5	+13.3	0.1
South Asia	16.9	21.8	27.2	30.3	+11.6	1.1
of which India	14.9	19.7	25.1	27.9	+11.2	9.9
Australasia	19.0	19.5	21.8	25.5	+17.3	0.9
Total Asia & Austral.	140.1	134.1	144.8	160.5	+10.9	5.8
Total NCW	2176.1	2051.7	2026.7	2079.2	+ 2.6	73.5
Centrally Planned Economies(CPEs)						
China	101.0	101.7	106.0	114.5	+ 8.1	4.1
USSR	609.0	612.2	6166.3	613.0	- 0.5	21.7
Others	17.6	20.3	19.7	19.4	- 1.2	0.7
Total CPEs	727.6	734.2	742.0	746.9	+ 0.7	26.5
TOTAL WORLD	2903.7	2785.9	2768.7	2826.1	+ 2.1	100.0
of which OPEC	1150.3	977.9	905.4	899.8	- 0.6	31.8

* Includes crude oil, oil sands and NGLS(natural gas liquids-the liquid content of natural gas where this is recovered sparately). Excludes liquid fuels from other sources such as coal derivatives.

+ Less than 0.05.

Note: Figures for India Inserted. SOURCE:BP Statistical Review of World Energy.

CURDE OIL PRODUCTION BY OPEC MEMBER COUNTRIES 1973-84

(Million Tonnes)

OPEC Countries	1973	1975	1978	1979	1980	1981	1982	1983	1984(P)
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Algeria	51	48	57	59	52	46	46	42	43
Ecuador	10	8	10	11	10	10	10	12	13
Gabon	8	11	11	10	9	8	8	.8	8
Indonesia	66	65	81	79	78	82	69	65	70
Iran	293	268	262	158	74	66	120	122	109
Iraq	99	11	126	171	130	44	50	54	58
Kuwait	140	94	97	113	72	48	35	45	49
Libya	105	71	96	101	88	59	55	54	54
Nigeria	100	89	94	114	102	71	64	61	70
Qatar	27	21	24	25	23	20	16	15	20
Saudi Arabia	368	344	410	470	493	491	328	256	230
U.A.E.	102	107	112	117	111	92	76	74	80
Venezuela	179	125	115	125	116	113	101	97	96
Total	1548	1362	1495	1553	1358	1150	978	905	900

P = Provisional.

WORLD PRODUCTION OF NATURAL GAS 1981-1984

(Million Tonnes Oil equivalent)

Country	1981	1982	1983	1984	Percentage change 1984 over 1983	Percentage share of total 1984
1.	2.	3.	4.	5.	6.	7.
North America						
USA	489.3	453.0	409.0	439.4	+ 7.4	30.4
Canada	67.4	66.5	62.6	65.6	+ 4.2	4.5
Total N. America	556.7	519.5	471.6	504.6	+ 7.0	34.9
Latin America						
Argentina	7.5	8.7	9.3	9.1	- 2.7	0.6
Mexico	31.3	32.7	31.4	32.1	+ 2.3	2.2
Venezuela	15.0	14.7	15.6	14.9	- 4.4	1.0
Others	11.5	12.4	13.9	15.0	+ 7.9	1.7
Total Latin America	65.3	68.5	70.2	71.1	17.2	5.5
Western Europe						
France	6.6	6.2	5.5	5.3	- 3.6	0.4
Italy	11.6	12.7	11.1	11.7	+ 5.6	0.8
Netherlands	67.6	58.3	61.1	61.5	+ 0.7	4.3
Norway	25.2	24.4	24.4	26.3	+ 7.8	1.8
United Kingdom	31.9	30.5	30.6	31.5	+ 2.7	2.2
West Germany	14.4	12.6	13.1	13.1	+ 0.1	0.9
Others	3.0	3.0	2.9	2.9	+ 2.3	0.2
Total W.Europe	160.3	147.7	148.7	152.3	+ 2.5	10.6
Middle East						
Abu Dhabi	5.4	5.5	5.6	5.8	+ 3.5	0.4
Iran	6.5	6.5	8.5	7.5	-11.9	0.5
Kuwait	4.8	4.2	4.6	4.9	+ 5.5	0.3
Saudi Arabia	13.2	13.1	11.5	10.6	- 8.1	0.7
Others	8.4	8.5	8.3	9.6	+15.5	0.7
Total Middle East	38.3	37.8	38.5	38.4	- 0.5	2.6
Africa						
Algeria	22.1	23.0	20.6	18.3	-11.2	1.3
Libya	3.6	3.6	3.0	3.2	+ 7.0	0.2
Nigeria	1.6	1.1	1.3	1.5	+13.9	0.1
Others	1.8	2.8	3.2	3.6	+12.8	0.3
Total Africa	29.1	30.5	28.1	26.6	- 5.4	1.9
Asia & Australasia						
Japan	2.2	1.6	1.4	1.4	-	0.1
Indonesia	17.3	17.5	14.8	16.4	+10.6	1.1
Other S.E.Asia	10.9	10.9	10.5	11.0	+ 5.3	0.8
Pakistan	6.1	7.9	8.6	12.1	+41.7	0.8
Other South Asia	6.6	9.1	10.3	11.1	+ 8.4	0.8
Of which India	3.5	4.7	5.8	6.8	+17.2	0.5
Australasia	11.9	12.6	13.6	16.0	+17.5	1.1
Total Asia & Austra.	55.0	59.6	59.2	68.0	+15.1	4.7
Total NCW	904.7	863.6	816.3	861.0	+ 5.5	59.6
Centrally Planned Economies(CPEs)						
China	11.6	10.0	10.8	11.5	+ 7.1	0.8
USSR	411.8	451.3	482.4	526.5	+ 9.1	36.5
Others	46.3	46.5	45.2	45.4	+ 0.4	3.1
Total CPEs	469.7	507.8	538.4	583.4	+ 8.4	40.4
TOTAL WORLD	1374.4	1371.4	1354.7	1444.4	+ 6.6	100.0

* Excluding gas flared or recycled. + Less than 0.05.

SOURCE: BP Statisstical Review of World Energy.

Note : Figures for India Inserted.

WORLD CONSUMPTION OF NATURAL GAS 1981-1984

(Million Tonnes Oil equivalent)

Country	1981	1982	1983	1984	Percentage change 1984 over 1983	Percentage share of total 1984
1.	2.	3.	4.	5.	6.	7.
North America						
USA	495.1	459.2	435.5	458.0	+ 5.2	32.5
Canada	47.8	48.9	47.3	47.8	+ 1.1	3.4
Total N. America	542.9	508.1	482.8	505.8	+ 4.8	35.9
Western Europe						
Austria	3.9	3.8	3.8	4.3	+13.0	0.3
Belgium & Luxembourg	9.5	7.8	8.2	8.4	+ 2.9	0.6
Denmark	-	-	+	0.2	*	+
Finland	0.6	0.6	0.6	0.7	+13.7	+
France	24.5	24.0	22.2	23.5	+ 5.9	1.7
Greece	-	-	-	-	-	-
Iceland	-	-	-	-	-	-
Republic of Ireland	0.9	1.4	1.6	1.6	+ 1.1	0.1
Italy	22.8	22.0	22.6	26.5	+17.3	1.9
Netherlands	30.0	30.4	29.5	31.2	+ 5.7	2.2
Norway	-	-	-	-	-	-
Portugal	-	-	-	-	-	-
Spain	2.1	2.3	2.5	2.4	- 0.7	0.2
Sweden	-	-	-	-	-	-
Switzerland	0.8	0.8	0.9	1.0	+12.1	0.1
Turkey	-	-	-	-	-	-
United Kingdom	42.4	42.2	44.0	45.2	+ 2.7	3.2
West Germany	41.4	38.0	39.1	41.1	+ 5.1	2.9
Yugoslavia	3.7	3.8	3.9	4.0	+ 2.6	0.3
Cyprus/Gibraltar/Malta	-	-	-	-	-	-
Total W.Europe	182.6	177.1	178.9	190.1	+ 6.3	13.5
Middle East	35.3	37.8	38.5	39.6	+ 2.9	2.8
Africa	19.9	17.7	17.1	17.8	+ 3.6	1.2
Japan	24.2	24.7	25.2	33.1	+31.3	2.3
South East Asia	7.4	7.6	6.9	7.3	+ 4.6	0.5
Australasia	11.6	12.2	13.3	14.4	+ 8.4	1.0
South Asia	8.9	11.8	12.7	13.0	+ 2.7	0.9
Of which India	2.0	2.6	3.0	3.5	+16.7	0.2
Total NCW	887.2	855.9	835.3	882.7	+ 5.7	62.5
Centrally Planned Economies(CPEs)						
China	10.4	9.5	10.7	10.8	+ 0.9	0.8
USSR	353.7	380.0	405.0	439.4	+ 8.5	31.2
Others	69.4	70.1	74.5	77.0	+ 3.4	5.5
Total CPEs	433.5	459.6	490.2	527.2	+ 7.5	37.5
TOTAL WORLD	1320.7	1315.5	1325.5	1409.9	+ 6.4	100.0

\+ Less than 0.05. * Greater than 300%.

Source: BP STatistical Review of World Energy. June 1985.

Note : Figure for India Inserted.

PRODUCTIVITY OF PRODUCING WELLS IN SELECTED FIELDS IN THE WORLD-1984

COUNTRY/FIELD	Discovery date	Depth (Metres)	WELLS Flowing	WELLS Pumping	Daily AV-first Six months 1984('000'bbls)	APIdegree Gravity	t/w/d
1.	2.	3.	4.	5.	6.	7.	8.
ALGERIA:							
All fields since	1956	458-3834	N.A.	N.A.	617	43.5@	N.A.
LIBYA:							
BU Attifel	1968	4362	30	-	161	41.0	698
Intiser D	1967	2867	18	4	59	39.0	353
Nasser	1959	1678-2318	N.A.	N.A.	N.A.	38.0	N.A.
Oasis Group Since	1959	671-3050	-	491	337	36.5	92
IRAN:							
On-shore since	1923	488-2721		- 361 -			
Off-shore since	1960	854-3355		- N.A. -	2164	32.0@	N.A.
IRAQ:							
All fields since	1909	854-3813	N.A.	N.A.	1152	33.5@	N.A.
KUWAIT:							
All fields since	1938	1464-3050	530	-	983	32.0@	255
SAUDI ARABIA:							
All fields since	1938	1464-2849	N.A.	N.A.	4951	31.5	N.A.
BURMA:							
All fields since	1902	30-2135	170	275	30	37.0	9
INDIA:							
On-shore fields since	1902	92-3902					
Off-shore fields since	1974	1382-1412	N.A.	N.A.	487	29.0	N.A.
INDONESIA:							
On-shore fields since	1893	61-4423	493	3548	978	35.0@	33
Off-shore fields since	1970	702-3401	369	426	542	31.5@	94

t/w/d = Tonne/Well/Day.
@ = Average
N.A. = Not available.
SOURCE = Oil & Gas journal, December 31, 1984.

WORLD OIL REFINING CAPACITIES AT YEAR END 1981 TO 1984

(Million Tonnes Per Annum)

COUNTRY/AREA.	1981	1982	1983	1984	Percentage change 1984 over 1983	Percentage share of total 1984
1.	2.	3.	4.	5.	6.	7.
North America	1022	956	894	857	- 4.1	23.0
USA	914	843	793	756	- 4.7	20.3
Canada	108	113	101	101	-	2.7
Latin America	445	432	410	397	- 3.2	10.5
Argentina	35	35	35	35	-	0.9
Brazil	76	76	70	65	- 7.1	1.7
Mexico	76	76	76	76	-	2.0
Netherlands Antilles	39	39	39	37	- 5.1	1.0
Trinidad	23	19	19	16	-15.8	0.4
Venezuela	70	68	61	61	-	1.6
Others	126	119	110	107	- 2.7	2.9
Western Europe	1000	905	851	791	- 7.1	21.2
Belgium	48	36	36	36	-	1.0
France	161	137	118	110	- 6.8	2.9
Italy	199	175	168	137	-18.4	3.7
Netherlands	89	80	81	75	- 7.4	2.0
Spain	78	78	72	72	-	1.9
United Kingdom	118	107	105	99	- 5.7	2.7
West Germany	148	126	114	105	- 7.9	2.8
Others	159	166	157	157	-	4.2
Middle East	162	178	178	181	+ 1.7	4.9
Bahrain	13	13	13	13	-	0.3
Iran	31	31	30	26	-13.3	0.7
Iraq	13	13	10	15	+50.0	0.4
Kuwait	26	27	30	30	-	0.8
Saudi Arabia	33	43	43	43	-	1.2
Others	46	51	52	54	+ 3.8	1.5
Africa	102	118	117	127	+ 8.5	3.4
Asia & Australasia:	543	539	527	535	+ 1.5	14.3
Japan	284	275	249	249	-	6.6
Indonesia	26	26	38	45	+18.4	1.2
Singapore	51	51	51	51	-	1.4
Other South East Asia	97	97	97	98	+ 1.0	2.6
South Asia	44	50	51	51	-	1.4
Of which India*	31.8	36.7	37.8	37.8	-	1.0
Australasia	41	41	41	41	-	1.1
Total NCW	3274	3128	2977	2888	- 3.0	77.3
Total Centrally Planned Economies(CPEs)	810	827	842	847	+ 0.6	22.7
TOTAL WORLD	4084	3955	3819	3735	- 2.2	100.0

Conversion Factor:1 Million Tonnes of oil per annum=20,000 barrel per day approx.
* = As on Ist April each year.
SOURCE: BP Statistical Review of World Energy: 1984.

WORLD REFINERY CRUDE THROUGHPUT : 1981 TO 1984.

(Million Tonnes Per Annum)

COUNTRY/AREA.	1981	1982	1983	1984	Percentage change 1984 over 1983	Percentage share of total 1984
1.	2.	3.	4.	5.	6.	7.
U.S.A	624	589	584	603	+ 3.2	21.5
Canada	97	82	79	80	+ 1.3	2.8
Latin America	329	304	291	291	-	10.4
Western Europe	595	574	546	551	+ 0.9	19.6
Middle East	110	112	126	133	+ 5.6	4.8
Africa	76	87	96	99	+ 3.1	3.5
Japan	181	168	163	168	+ 3.1	6.0
South East Asia	124	117	119	121	+ 1.7	4.3
South Asia	40	42	44	44	-	1.6
Of Which India	29.5	32.1	34.5	35.2	+ 2.0	1.3
Australasia	33	31	30	38	+26.7	1.3
Total NCW	2209	2106	2078	2128	+ 2.4	75.8
Centrally Planned Economies (CPEs)	671	679	684	680	- 0.6	24.2
TOTAL WORLD:	2880	2785	2762	2808	+ 1.7	100.0

NCW = Non Communist World. Coversion Factor used:1 million of oil per annum 20,000 barrel per day approx.

PATTERN OF REFINERY PRODUCTION IN MAIN CONSUMING COUNTRIES OF THE WORLD:1983

Products	Percentage by Weight			Percentage by Volume		
	North America	Western Europe	Japan	North America	Western Europe	Japan
1.	2.	3.	4.	5.	6.	7.
Gasoline	50.0	30.0	29.5	50.0	29.5	20.0
Middle Distillates	30.0	30.0	30.5	20.0	30.5	40.0
Fuel Oil	10.0	20.0	30.0	10.0	20.0	30.0
Other products (incl.Refinery fuel and loss)	10.0	20.0	10.0	20.0	20.0	10.0
TOTAL :	100.0	100.0	100.0	100.0	100.0	100.0

SOURCE: BP Statistical Review of the World Energy, 1983.

Country-wise World Oil Consumption*

(Million Tonnes)

Country	1981	1982	1983	1984	Percentage change 1984 over 1983	Percentage share of total 1984
1.	2.	3.	4.	5.	6.	7.
North America						
USA	746.0	705.5	704.9	723.9	+ 2.7	25.5
Canada	81.7	72.9	68.2	67.5	- 1.0	2.4
Total N. America	827.7	778.4	773.1	791.4	+ 2.4	27.9
Latin America	212.9	223.5	217.3	217.7	+ 0.2	7.7
Western Europe						
Austria	11.0	10.5	10.1	9.8	- 2.7	0.4
Belgium & Luxembourg	24.5	23.3	21.1	20.6	- 2.6	0.7
Denmark	12.8	11.0	10.4	10.4	- 0.1	0.4
Finland	12.3	11.3	10.5	10.6	+ 1.4	0.4
France	99.0	91.5	89.4	86.2	- 3.5	3.0
Greece	11.9	11.9	11.4	11.7	+ 2.3	0.4
Iceland	0.5	0.5	0.5	0.5	+ 2.5	+
Republic of Ireland	5.1	4.6	4.2	4.1	- 2.3	0.1
Italy	95.7	90.7	89.2	84.7	- 5.0	3.0
Netherlands	35.7	31.0	29.1	28.9	- 0.7	1.0
Norway	8.7	8.3	8.3	8.3	+ 0.4	0.3
Portugal	8.8	9.5	9.5	9.1	- 4.0	0.3
Spain	50.4	47.8	47.8	44.2	- 7.5	1.6
Sweden	21.8	21.8	18.2	17.1	- 5.8	0.6
Switzerland	11.9	11.2	12.3	11.8	- 3.6	0.4
Turkey	15.4	16.5	16.2	17.2	+ 5.9	0.6
United Kingdom	74.7	75.6	72.5	88.7	+22.3	3.1
West Germany	117.6	112.2	110.8	110.9	+ 0.2	3.9
Yugoslavia	14.4	14.1	13.5	14.5	+ 7.4	0.5
Cyprus/Gibraltar/Malta	1.5	1.6	1.6	1.7	+ 2.2	0.1
Total W.Europe	633.7	604.9	586.6	591.0	+ 0.8	20.8
Middle East	84.7	87.9	90.5	94.9	+ 4.9	3.3
Africa	75.9	78.3	79.3	82.4	+ 3.9	2.9
Japan	223.9	207.8	207.2	214.6	+ 3.6	7.5
South East Asia	115.6	113.5	114.5	117.6	+ 2.7	4.1
South Asia	43.4	45.6	46.4	49.2	+ 5.9	1.7
Of which India	34.0	35.4	37.2	39.8	+ 7.0	1.4
Australasia	35.8	34.9	33.7	35.5	+ 5.4	1.3
Total NCW	2253.6	2174.8	2148.6	2194.3	+ 2.1	77.2
Centrally Planned Economies(CPEs)						
China	84.8	82.4	84.7	85.8	+ 1.4	3.0
USSR	444.1	448.5	450.5	447.8	- 0.6	15.7
Others	120.3	119.1	117.6	116.6	- 0.9	4.1
Total CPEs	649.2	650.0	652.8	650.2	- 0.4	22.8
TOTAL WORLD	2902.8	2824.8	2801.4	2844.5	+ 1.5	100.0

* Inland demand plus international aviation and marine bunkers and refinery fuel and loss. + Less than 0.05.

Source: BP STatistical Review of World Energy. June 1985.

Note : Figure for India Inserted.

Product-wise Consumption of Main Petroleum Products in the Non-Communist World (NCW) During 1981-84

(Million Tonnes)

Country	1981	1982	1983	1984	Percentage Change 1984 Over 1983	Percentage Share of Total 1984
1.	2.	3.	4.	5.	6.	7.
USA						
Gasoline	297.9	294.4	298.4	304.1	+ 1.9	42.2
Middle distillates	199.2	186.6	189.0	201.0	+ 6.4	27.8
Fuel oil	110.6	90.8	78.6	75.7	- 3.7	10.5
Other	138.3	133.7	138.9	143.1	+ 2.9	19.7
Total USA	746.0	705.5	704.9	723.9	+ 2.7	100.0
Canada						
Gasoline	31.3	28.4	27.3	27.1	- 0.7	40.2
Middle distillates	25.0	23.1	21.6	21.1	- 2.3	31.3
Fuel oil	11.2	9.8	7.7	7.7	+ 0.5	11.4
Other	14.2	11.6	11.6	11.6	- 0.2	17.1
Total Canada	81.7	72.9	68.2	67.5	- 1.0	100.0
Western Europe						
Gasoline	133.5	134.2	137.3	137.5	+ 0.1	23.2
Middle distillates	224.6	215.5	216.8	219.0	+ 1.0	37.1
Fuel oil	186.6	165.4	142.1	141.9	- 0.3	24.0
Others	89.0	89.8	90.4	92.6	+ 3.0	15.7
Total Western Europe	633.7	604.9	586.6	591.0	+ 0.8	100.0
Japan						
Gasoline	39.8	38.6	39.5	40.6	+ 2.7	18.9
Middle distillates	60.6	58.0	59.6	64.7	+ 8.5	30.2
Fuel oil	91.2	78.8	76.4	76.2	- 0.2	35.5
Others	32.3	32.4	31.7	33.1	+ 4.4	15.4
Total Japan	223.9	207.8	207.2	214.6	+ 3.6	100.0
Australasia						
Gasoline	13.6	13.9	13.6	14.0	+ 2.4	39.4
Middle distillates	10.0	10.3	9.8	10.4	+ 6.3	29.2
Fuel oil	7.5	6.3	5.7	5.8	+ 1.5	16.3
Others	4.7	4.4	4.6	5.3	+17.1	15.1
Total Australasia	35.8	34.9	33.7	35.5	+ 5.4	100.0
Rest of NCW						
Gasoline	95.2	100.4	100.9	102.6	+ 1.8	18.3
Middle distillates	177.0	184.5	184.3	189.8	+ 2.9	33.8
Fuel oil	186.2	188.8	187.5	192.5	+ 2.7	34.3
Others	74.1	75.1	75.3	76.9	+ 2.2	13.6
Totar Rest of NCW	532.5	548.8	548.0	561.8	+ 2.5	100.0
Total NCW						
Gasolines	611.3	609.9	617.0	625.9	+ 1.4	28.5
Middle distillates	696.4	678.0	681.1	706.0	+ 3.6	32.2
Fuel oil	593.3	539.9	498.0	499.8	+ 0.3	22.8
Others	352.6	347.0	352.5	362.6	+ 3.0	16.5
Total NCW	2253.6	2174.8	2148.6	2194.3	+ 2.1	100.0

Note: 'Gasolines' consists of aviation and motor gasolines and LDF(light distillate feedstock.)
'Middle distillates' consists of jet and burning kerosene and gas and diesel oils (including marine bunkers).
'Fuel Oil' includes marine bunkers.
'Others consists of refinery gas, LPGs, solvents, petroleum coke, lubricants, bitumen, wax, refinery fuel and loss.

Source: BP Statistical Review of World Energy, June 1985.

WORLD OIL PRODUCTION, CONSUMPTION AND RELATIVE DEFICIT/SURPLUS. IN EACH REGION/COUNTERY DURING 1984 & 1973.

(Million Tonnes)

COUNTRY/REGION	1984				1973			
	Production	Consumption	Deficit Surplus	% extent of dependence	Production	Consumption	Deficit Surplus	% extent of dependence
1.	2.	3.	4.	5.	6.	7.	8.	9.
North America (Including Canada)	567.7	791.4	-223.7	-28.3	621.3	901.7	-280.4	-31.1
Latin America	338.0	217.7	+120.3	+55.3	272.0	160.3	+111.7	+69.7
West Europe	186.5	591.0	-404.5	-68.4	22.5	748.9	-726.4	-97.0
Middle East	577.7	94.9	+482.8	+508.7	1052.5	62.2	+990.3	+1592.1
Africa	248.8	82.4	+166.4	+201.9	290.0	49.5	+240.5	+485.9
South & South East Asia(excluding India)	106.7	127.0	-20.3	-16.0	84.3	19.9	+4.4	+5.5
India	27.9	39.8	-11.9	-29.9	7.2	23.7	-16.5	-69.6
Japan	0.4	214.6	-214.2	-99.8	0.7	269.1	-268.4	-99.7
Australasia	25.5	35.5	-10.0	-28.2	18.5	34.8	-16.3	+46.8
U.S.S.R.	613.0	447.8	+165.2	+36.9	429.0	325.7	+103.3	+31.7
Eastern Europe	19.4	116.6	-97.2	-83.4	18.8	88.4	-69.6	-78.7
China	114.5	85.8	+28.7	+33.4	54.8	53.8	+1.0	+1.9
T O T A L :	2826.1	2844.5	-18.4	-0.6	2871.6	2798.0	+73.6	+2.6

SOURCE: B.P. Statistical Review of World Energy - June, 1985.

WORLD CRUDE OIL & PETROLEUM PRODUCTS IMPORTS/EXPORTS - 1984

(Million Tonnes)

Country/Area	IMPORTS		EXPORTS	
	Crude	Products	Crude	Products
1.	2.	3.	4.	5.
U.S.A	169.7	94.7	9.2	30.1
Canada	13.3	3.9	18.3	13.9
Latin America	78.5	11.6	128.9	73.5
Western Europe	337.7	90.2	26.7	15.5
Middle East	2.1	7.0	441.2	48.2
North Africa	1.3	3.2	93.4	20.3
West Africa	1.0	1.3	79.9	3.4
East & Southern Africa	19.0	4.2	-	0.8
South Asia	14.5	9.0	1.3	1.5
South East Asia	84.1	17.8	54.7	24.5
Japan	183.4	31.2	-	0.7
Australasia	6.0	5.5	1.8	1.0
U.S.S.R., East Europe & China	14.8	7.2	78.4	62.7
Destination not known*	8.4	9.3	-	-
Total World	933.8	296.1	933.8	296.1

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

(i) Bunkers are not included as exports.

(ii) Regional descriptions are geographical.

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

SOURCE: BP Statistical Review of World Energy-June, 1985.

EXPORTS OF CRUDE OIL REFINED PRODUCTS FROM OPEC MEMBER COUNTRIES.

(Millon Tonnes)

	1973	1975	1980	1981	1982	1983	1984(P)
1.	2.	3.	4.	5.	6.	7.	8.
(a) CRUDE OIL:							
Algeria	49.7	43.9	35.8	26.1	11.4	13.0	9.1
Ecuador	9.8	7.3	5.5	5.3	4.5	6.3	7.4
Gabon	6.0	10.3	7.6	6.2	6.0	6.0	7.0
Indonesia	50.6	49.7	49.4	49.6	40.9	42.9	43.8
Iran, IR	263.8	233.5	39.8	35.7	81.2	85.9	74.4
Iraq	96.3	102.9	122.9	37.3	40.6	36.3	42.8
Kuwait	132.1	90.2	64.8	40.7	18.4	27.2	30.3
Libya	108.7	71.6	84.6	53.1	48.7	46.9	45.6
Nigeria	98.9	85.7	98.0	61.4	49.1	46.8	54.7
Qatar	28.5	21.4	23.3	19.6	16.1	13.4	17.8
Saudi Arabia	350.7	330.0	461.2	450.9	282.0	185.1	157.8
U.A.E.	76.1	83.1	84.9	72.0	58.3	53.9	51.8
Venezuela	106.2	73.6	64.4	63.3	52.9	48.1	49.5
TOTAL	1377.4	1203.2	1142.2	921.2	710.1	611.8	592.0
(b) Refined Petroleum Products							
Algeria	1.8	3.1	7.4	10.1	20.2	14.6	21.7
Ecuador	0.1	Neg.	1.2	0.9	0.8	0.6	1.0
Gabon	0.7	0.3	0.5	0.7	0.7	0.6	0.6
Indonesia	7.7	5.0	8.1	7.8	6.1	6.5	9.6
Iran, IR	7.4	10.8	7.8	4.7	4.7	4.9	4.9
Iraq	0.4	1.9	1.8	2.7	2.5	3.1	3.1
Kuwait	10.3	7.0	17.2	14.0	18.5	20.7	20.9
Libya	1.7	2.4	3.6	3.1	3.9	3.9	3.8
Nigeria	0.7	0.3	3.7	2.2	0.5	0.8	1.0
Qatar	-	-	-	0.6	0.6	0.8	1.1
Saudi Arabia	16.6	16.5	20.3	24.0	26.9	24.8	24.8
U.A.E.	-	-	1.0	1.9	2.3	3.0	3.0
Venezuela	51.3	30.7	28.3	24.0	23.9	25.7	25.9
TOTAL	98.7	78.0	100.9	96.7	111.6	110.0	121.4

P = Provisional/estimated.

SOURCE: OPEC Annual Statistical Bulletins.
Conversion factor used : 20,000 barrels/day = 1 millon tonnes/year approx.

CRUDE OIL IMPORTS FROM OPEC MEMBER COUNTRIES BY REGIONS 1960-1984

(MILLION TONNES)

Import Region	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984(P)
North America	61.0	65.9	68.5	171.0	274.9	279.8	278.7	212.6	153.2	81.8	69.2	68.9
Of which USA	43.9	49.6	46.7	136.3	253.5	255.6	255.1	189.8	136.7	72.5	63.6	57.0
Latin America	55.9	71.5	96.9	145.2	171.5	128.7	137.0	115.3	90.6	70.6	64.0	59.3
Western Europe	157.5	315.1	564.5	519.2	531.0	517.8	521.2	454.6	354.5	277.0	241.8	234.6
Of which:												
France	31.8	63.2	107.3	104.6	108.5	109.0	114.5	100.2	71.9	57.2	44.5	40.1
Germany	21.2	45.5	69.0	62.6	75.0	64.6	74.7	66.1	47.5	40.7	33.1	26.6
Italy	24.8	59.9	109.5	87.0	90.4	92.9	94.7	67.8	64.7	60.9	53.4	49.3
U.K.	43.1	74.7	107.4	80.0	63.4	56.0	43.9	34.6	24.3	18.8	12.7	9.4
Middle East	17.0	16.7	20.3	15.6	25.2	18.9	21.2	21.9	21.7	23.4	15.8	14.0
Africa	1.5	13.0	23.8	31.4	28.3	22.7	18.7	16.2	14.7	10.6	8.4	9.1
Asia and Far East	34.4	88.6	215.5	280.0	314.0	306.5	309.5	287.5	267.4	227.9	199.5	193.0
Of which:												
Japan	24.4	66.3	162.6	199.8	205.6	196.7	195.5	177.9	155.5	140.9	135.5	135.0
Oceania	10.1	15.4	15.2	8.9	11.3	10.3	10.6	10.7	10.5	9.1	5.4	4.6
CPEs	-	-	2.4	15.2	20.1	19.7	23.9	17.1	8.5	8.6	6.1	7.3
Unspecified	-	2.2	4.1	16.7	5.8	Neg.	18.9	6.3	0.1	1.1	1.6	1.2
OECD AREA	-	462.7	810.8	898.9	1022.8	1004.6	1006.0	855.8	673.7	508.8	451.9	443.1
TOTAL WORLD:	337.4	588.4	1011.2	1203.2	1382.1	1304.4	1339.7	1142.2	921.2	710.1	611.8	592.0

P = Provisional/estimated.

SOURCE: OPEC Annual Statistical Bulletin- 1983 and OPEC Data Services Deptt.
Note : Figures converted to million tonnes using the Conversion factor : 20,000 barrels/day = 1 millon tonnes/year approx.

COUNTRY-WISE OPEC CRUDE OIL EXPORT BY REGIONS : 1984.

(Qty.'000' Barrel/day)

Country/Region	Developed Countries (OECD)					Developing Countries							
	North America	Western Europe	Ocea-nia	Japan	Total OECD or Developed World	Latin Amer-rica	Asia & Far East (Excl. Japan)	Middle East	Africa	Total Develop-ing Countires	CPES	Un-Sp-ecified	Grand Total
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
1. Algeria	30.2	130.8	-	-	161.0	10.4	-	0.8	-	11.2	9.4	-	181.6
2. Ecuador	65.0	-	-	-	65.0	46.7	35.4	-	-	82.1	-	-	147.1
3. Gabon	50.4	59.1	-	-	109.5	14.6	10.1	-	5.0	29.7	-	-	139.2
4. Indonesia	208.8	12.0	14.4	422.4	657.6	118.7	100.0	-	-	218.7	-	-	876.3
5. Iran, IR	66.7	825.1	-	257.8	1149.6	14.0	64.2	160.0	15.0	253.2	85.0	-	1487.8
6. Iraq	10.0	594.0	-	14.0	618.0	196.0	-	2.0	24.0	222.0	16.0	-	856.0
7. Kuwait	24.3	120.5	9.4	181.5	335.7	20.0	250.5	-	-	270.5	-	-	606.2
8. S.P. Libyan, A	5.4	829.8	-	-	835.2	15.0	-	20.0	7.0	42.0	35.0	-	912.2
9. Nigeria	173.2	790.8	-	-	964.0	88.8	-	-	41.3	130.1	-	-	1094.1
10. Qatar	4.1	105.8	3.4	220.0	333.3	12.0	10.0	-	1.5	23.5	-	-	356.8
11. Saudi Arabia	311.2	750.0	53.9	1062.6	2177.7	180.0	637.4	90.0	70.0	977.4	-	-	3155.1
12. U.A.E.	97.2	273.5	11.5	542.5	922.7	35.0	54.5	6.5	18.0	144.0	-	-	1036.7
13. Venezuela	331.8	200.6	-	-	532.4	434.5	-	-	-	434.5	-	24.0	990.9
TOTAL :	1378.3	4692.0	92.6	2698.8	8861.7 74.8%	1185.7	1162.1	279.3	181.8	2808.9 23.7%	145.4 1.2%	24.0 0.3%	11840.0 100.0

SOURCE : OPEC Data Services Deptt.

OIL REVENUES OF OPEC MEMBER COUNTRIES : 1974-84.

(Billon US $)

OPEC MEMBER COUNTRIES	1974	1977	1978	1979	1980	1981	1982(r)	1983	1984(P)
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Algeria	3.30	4.25	4.59	7.52	12.50	10.70	8.50	9.70	9.70
Ecuador	0.41	0.50	0.40r	0.80	1.39	1.56	1.18	1.10	1.60
Gabon	0.17	0.60	0.50r	0.90	1.80	1.60	1.50	1.50	1.40
Indonesia	1.37	4.69	5.20	8.10	12.86	14.39	12.70	9.66	10.40
Iran,	17.82	21.21	19.30	20.50	13.50	9.30	17.60r	20.00	16.70
Iraq	5.70	9.63	10.20	21.29	26.10	10.40	9.50	8.40	10.40
Kuwait	6.54	7.62	7.95	16.86	17.90	14.90	9.48	9.90	10.80
Libya	6.00	8.85	8.40	15.22	22.60	15.60	14.00	11.20	10.40
Nigeria	6.66	9.60	7.90	15.90	23.41	16.72r	13.09	10.10	12.40
Qatar	1.45r	1.99	2.20	3.08	4.80	4.72	3.15	3.00	4.40
Saudi Arabia	22.57	36.54	32.23	57.52	102.21	113.20	76.00	46.10	43.70
U.A.E.	5.54	9.03	8.20	10.86	19.50	18.70	16.00	12.80	13.00
Venezuela	9.27	8.11	7.32	11.96	16.34	17.40	13.54	13.50	13.70
TOTAL	86.80	122.62	114.39	192.51	274.91	249.19	196.24	156.96	158.60

VALUE OF PETROLEUM EXPORTS FROM OPEC MEMBER COUNTRIES : 1974-1983.

(Billion U/S $)

OPEC MEMBER COUNTRIES	1974	1977	1978	1979	1980	1981	1982	1983
Algeria	4.27	5.56	5.86	8.75	12.65	12.99	11.10	9.76
Ecuador	0.69	0.48	0.52	1.03	1.39	1.56	1.19	1.47
Gabon	0.65	0.99	0.92	1.28	1.96	1.79	1.69	1.45
Indonesia	5.21	7.30	7.44	8.87	15.59	18.16	15.49	13.48
Iran, IR	20.91	23.60	21.68	19.19	13.29	12.07	16.10	19.07
Iraq	6.51	9.50	10.85	21.29	26.14	10.39	10.10	9.65
Kuwait	10.39	8.78	9.42	16.78	17.68	13.79	7.59	8.72
Libya	8.18	11.17	9.68	15.72	21.92	15.33	13.94	11.08
Nigeria	9.02	10.93	9.50	16.65	25.61	18.33	15.60	10.76
Qatar	1.98	1.99	2.30	3.59	5.39	5.32	3.99	3.11
Saudi Arabia	31.17	41.12	37.86	57.51	102.26	113.42	76.25	47.82
U.A.E.	6.31	9.24	8.66	12.86	19.46	18.76	15.46	12.58
Venezuela	10.55	9.11	8.74	13.63	18.25	19.04	15.62	13.84
TOTAL :	115.84	139.77	133.43	197.15	281.59	260.95	204.12	162.79

r = Revised. P = Provisional/estimated.

SOURCE: i) OPEC Annual Statistical Bulletins for 1974 to 1983.
ii) OPEC Data Services Deptt. for 1984.

OFFCIAL DEVELOPMENT ASSITSTANCE FROM OECD AND OPEC MEMBERS: 1980-1983

COUNTRIES	AMOUNT (Million of US.$)				As percentage of donor G.N.P.			
	1980	1981	1982	1983	1980	1981	1982	1983(P)
	2.	3.	4.	5.	6.	7.	8.	9.
OECD:								
Itlay	683	666	814	827	.17	.19	.24	.24
New Zealand	72	68	65	61	.33	.29	.28	.28
United Kingdom	1852	2191	1792	1601	.35	.43	.37	.36
Japan	3353	3171	3023	3761	.32	.28	.29	.33
Austria	178	314	354	157	.23	.48	.53	.23
Finland	111	135	144	153	.22	.28	.30	.33
Australia	667	650	882	754	.48	.41	.57	.49
Canada	1075	1189	1197	1424	.43	.43	.42	.47
Netherlands	1630	1510	1474	1195	1.03	1.08	1.08	.91
Belgium	595	575	501	477	.50	.59	.60	.59
France	4162	4177	4028	3915	.64	.73	.75	.76
United States	7138	5782	8202	7950	.27	.20	.27	.24
Denmark	481	403	415	394	.74	.73	.77	.73
Germany(FR)	3567	3181	3163	3181	.44	.47	.48	.48
Norway	486	467	559	584	.85	.82	.99	1.10
Sweden	962	919	980	779	.79	.83	1.02	.88
Switzerland	253	237	252	318	.24	.24	.25	.31
T O T A L :	27265	25635	27845	27531				
OPEC								
Nigeria	33	141	58		.04	.20	.08	
Iran	-90	-157	-178		--	--	--	
Iraq	876	148	--		2.39	.40	--	
Algeria	103	97	128		.26	.24	.29	
Venezuela	125	67	216		.21	.10	.32	
Libya	382	293	43		1.18	1.11	.18	
Saudi Arabia	5943	5664	4428		5.09	3.58	2.82	
Kuwait	1140	1154	1295		3.40	3.55	4.86	
U.A.E.	909	811	563		3.30	2.88	2.06	
Qatar	269	248	251		4.03	3.75	3.80	
TOTAL OAPEC:	9622	8415	6708		3.44	2.87	2.42	
TOTAL OPEC:	9690	8466	6804		2.21	1.93	1.65	

P = Provisional.

SOURCE: World Development Report-1984.

LOAN ASSISTANCE FROM OPEC AND OTHER OIL SUPPLYING NATIONS : 1975-76 TO 1984-85

(Rs. Crores)

	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
I. U.S.S.R.:										
Authorisation	--	--	208.3	—	—	485.7	--	--	144.6	--
Utilisation	26.9	26.3	25.7	21.6	34.0	32.9	22.6	40.0	74.7	150.0
II. OPEC:										
1. Abu Dhabi Fund:										
Authorisation	--	--	--	--	--	--	--	--	--	--
Utilisation	--	--	5.8	—	6.5	2.0	--	--	--	--
2. OPEC Fund Loans										
Authorisation	--	19.7	12.1	—	16.3	39.8	--	29.3	23.4	--
Utilisation	—	—	18.4	11.5	—	3.4	9.2	37.4	6.5	10.2
3. U.A.E. Loans:										
Authorisation	17.5	--	--	--	--	--	--	--	--	--
Utilisation	44.1	17.9	--	--	--	--	--	--	--	--
4. Saudi Arab Fund: for Devep.										
Authorisation	--	--	86.4	—	--	—	29.2	--	30.7	--
Utilisation	--	--	--	3.2	41.1	13.0	6.0	12.4	2.4	8.9
5. Kuwait Fund: for Arab Economic Devep.										
Authorisation	46.3	--	--	29.0	—	--	77.5	--	52.1	--
Utilisation	--	20.0	13.3	12.3	--	8.6	10.1	25.5	18.0	55.7
6. Iraq-Loans:										
Authorisation	33.0	32.1	--	--	--	82.9	--	--	--	--
Utilisation	31.3	33.4	3.9	3.8	1.4	0.7	--	--	--	--
7. Iran-Loans:										
Authorisation	923.7	73.8	--	--	--	--	--	--	--	--
Utilisation	326.5	174.3	166.7	70.1	12.6	17.3	--	--	--	--
III. TOTAL OPEC ASSISTANCE:										
Authorisation	1020.5	125.6	98.5	29.0	16.3	122.7	106.7	29.3	106.2	--
Utilisation	401.9	245.6	208.1	100.9	61.6	45.0	25.3	75.3	26.9	74.8
IV. International Fund for Economic Devlp.										
Authorisation	--	--	--	--	80.6	13.9	--	24.5	36.7	--
Utilisation	--	--	--	--	--	--	--	--	--	--
GRAND TOTAL:										
Authorisation	1020.5	125.6	306.8	29.0	96.9	622.3	106.7	53.8**	287.5**	--**
Utilisation	428.8	271.9	233.8	122.5	95.6	77.9	47.9	115.3	101.6	224.8*

* = Estimated

** = April - September, 1984.

SOURCE = Economic Survey, 1984-85.

OFFICIAL SELLING PRICES OF KEY OPEC CRUDES/SINCE 1974

($/bbl)

CRUDE	Grav-ity	EFFECTIVE DATES 1974 Nov.1	1975 Jan.1	1975 Oct.1	1976 Feb.14	1976 June 1	1976 July 1	1976 Oct.1	1977 Jan.1	1977 July 1	1978 Jan.1	1978 Apr.1
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
ARABIAN/PERSIAN GULF CRUDES												
Saudi Arabia:												
Arab. Light	34	10.463		10.510					12.090	12.704		
Arab. Berri	39	11.114		11.874					12.480	13.225		
Arab.Madium	31	10.380		11.331		11.280			11.690	12.323		
Arab. Heavy	27	10.268		11.140		11.040			11.370	12.016		
Iran:												
Iran Light	34	10.67		11.62					12.81			
Iran.Heavy	31	10.45		11.49	11.40	11.33b)			12.49			
Kuwait:												
Kuwait	31	10.365		11.300		11.230			12.370		12.270	
Abu Dhabi:-												
Umm Shaif	37	10.868	10.645	11.695					12.280	13.040		
Murban	39	11.379	10.868	11.918					12.500	13.260		
Zakum	40	11.313	10.775	11.825					12.410	13.170		
Iraq												
Basrah	35	10.48		11.53			11.43		12.58			
Qatar:												
Marine	36	10.80		11.66					13.00			
Dukhan	40	11.17		11.85					13.19			
Oman:												
Oman Blend	34											
MEDITERRANEAN & AFRICAN CRUDES.												
Iraq:												
Kirkuk	36						11.65		12.77			
Libya:												
Brega	40			12.32			12.62		13.92	14.20	13.97	13.85
Nigeria:												
Bonny Light	37			12.70			13.10	13.25	14.31	14.61c)	14.31	14.10
Bonny Medium	26						12.55	12.52	13.71		13.66	13.55
INDONESIAN CRUDE												
Indonesia:												
Minas	34	12.60		12.80					13.55			
VENEZUELAN CRUDES												
Venezuela:												
Tia Zuana	26				11.12a)	11.22c)	11.32	11.65	12.72	12.82e)	12.70	
Tia Zuana	31				12.30a)			12.35	13.54			
Oficina	35				12.80a)				13.99			

a) = Effective Jan., 1. b) = Effective June, 9.
c) = Effective Apr., 1. e) = Effective Oct., 1.

OFFICIAL SELLING PRICES OF KEY OPEC CRUDES SINCE 1974 (Contd...)

($/bbl)

CRUDE	Gravity	EFFECTIVE DATES 1 Jan.1	Feb.1	9 April1	May 17	7 June 1	9 Jul.1	Oct.20	Nov.1	Dec.17
1.	2.	3.	4.	5. 6.	7.	8.	9.	10.	11.	12.
ARABIAN/PERSIAN GULF CRUDES										
Saudi Arabia:										
Arab. Light	34	13.339		14.546		18.000			24.000	
Arab. Berri	39	14.060		16.470	17.870d)	21.324			24.721	
Arab.Medium	31	12.886		14.052		17.547			23.547	
Arab.Heavy	27	12.511		13.643		17.172			23.172	
Iran:										
Iran Light	34	13.45		16.57	17.17d)	18.47	22.00	23.50i)		28.50m)
Iran.Heavy	31	13.06		16.04	16.64d)	17.74	19.90	22.77i)		27.77m)
Kuwait:										
Kuwait	31	12.830	14.030a)	15.800	16.40d)		19.490	21.43i)	25.500	
Abu Dhabi:-										
Umm Shaif	37	13.780	14.620	16.880	17.68		21.360		27.360	
Murban	39	14.100	15.120	17.100	17.90		21.560		27.560	
Zakum	40	14.010	15.030	17.010	17.81		21.460		27.460	
Iraq:										
Basrah	35	13.21		15.60	16.20c)	16.94	19.96	21.96	23.96	25.96m)
Qatar:										
Marine	36	13.77	14.71	16.85	17.65		21.23		27.23	
Dukhan	40	14.03	15.05	17.04	17.84		21.42		27.42	
Oman:										
Oman Blend	34	13.94								
MEDITERRANEAN & AFRICAN CRUDES.										
Iraq:										
Kirkuk	36	13.41		15.82	16.42c)	17.16	21.25	22.18	24.18	26.18m)
Libya:										
Brega	40	14.69	15.37b) 16.07x)	18.25	18.95e)	21.26f)	23.45	26.22j)		29.95n)
Nigeria:										
Bonny Light	37	14.80		18.50	20.96e)		23.47		26.24k)	29.97
Bonny Medium	26	14.23		17.50	20.00e)		22.00		24.77k)	28.70
INDONESIAN CRUDE										
Indonesia:										
Minas	34	13.90		15.65	16.15e)	18.25g)	21.12		23.50L)	25.50
VENEZUELAN CRUDES										
Venezuela:										
Tia Zuana	26	13.36		15.76	16.36e)		19.31	19.48i)		23.48p)
Tia Zuana	31	14.22		16.70	17.30e)		20.90			24.90p)
Oficina	35	14.69		17.21	17.81		22.45			26.75p)

a) = Effective Feb., 20 b) = Effective Feb.21. c) = Effective May, 1. d) Effective May,15.
e) = Effective May 16. f) = Effective May,27 g) = Effective June,15.h) Effective Jul.15
i) = Effective Oct.,1. j) = Effective Oct.,15.k) = Effective Nov.,6 1) Effective Nov,17
m) = Effective Dec.,1 n) = Effective Dec.,13 p) = Effective Dec.,14.x) Effective March,3.

OFFICIAL SELLING PRICES OF KEY OPEC CRUDES SINCE 1974 (Contd...)

($ /Barrel)

CRUDE	Gravity	EFFECTIVE DATES 1 9 8 0 Jan.1	Feb.1	April 1	May 1	July 1	Aug.1	Sept.1	Nov.1
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
ARABIAN/PERSIAN GULF CRUDES.									
Saudi Arabia:									
Arab. Light	34	26.000		28.00			30.00		32.00
Arab. Berri	39	27.520		29.52			31.52		33.52
Arab.Medium	31	25.454		27.454			29.454		21.454
Arab.Heavy	27	25.000		27.00			29.00		31.00
Iran:									
Iran Light	34	30.00	31.00	35.37					
Iran.Heavy	31	29.27	30.27	34.37					
Kuwait:									
Kuwait	31	27.500			29.50	31.50			
Abu Dhabi:-									
Umm Shaif	37	29.360			31.36			33.36	
Murban	39	29.560			31.56			33.56	
Zakum	40	29.460			31.46			33.46	
Iraq:									
Basrah	35	27.96			29.96	31.96			
Qatar:									
Marine	36	29.23			31.23	33.23			
Dukhan	40	29.42			31.42	33.42			
Oman:									
Oman Blend	34					33.20c)	33.40		
MEDITERRANEAN & AFRICAN CRUDES.									
Iraq:									
Kirkuk	36	28.18			30.18	32.18			
Libya:									
Brega	40	34.67			36.67	37.00			
Nigeria:									
Bonny Light	37		34.18e)	34.69	36.69b)	37.00			
Bonny Medium	26		32.91e)	33.42	35.42b)	35.73			
INDONESIAN CRUDE									
Indonesia:									
Minas	34	27.50			31.50d)				
VENEZUELAN CRUDES									
Venezula:									
Tia Zuana	26	25.20	26.70a)		29.28d)	29.88			
Tia Zuana	31	26.90	28.90a)		32.40d)	33.00			
Oficina	35	28.75	30.75a)		34.25d)	34.85			

a) = Effective Feb., 6 b) = Effective May,22. c) = Effective June,30
d) = Effective May,26. e) = Effecitve Feb.,4.

OFFICIAL SELLING PRICES OF KEY OPEC CRUDES SINCE 1974 (Contd...)

(EFFECTIVE DATES) ($/Barrel)

CRUDE	TYPE	1981 Jan.1	1981 Jul.1	1981 Oct.1	1981 Nov.1	1982 Jan1	1982 Feb.12	1982 Feb23	1982 Mar.20	1982 Aor.1	1982 Jul.1	1982 Aug.1
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
ARABIAN/PERSIAN GULF CRUDES.												
Saudi Arabia:												
Arab. Light	34			34.00		34.00			34.00			
Arab. Berri	39			35.60		35.40			34.52			
Arab.Madium	31			33.00		32.40			32.40			
Arab.Heavy	27			31.50		31.00			31.00			
Iran:												
Iran Light	34	37.00			34.60	34.20	32.20	30.20			31.20	
Iran.Heavy	31	36.00			33.40	32.30	30.30	28.30			29.30	
Kuwait												
Kuwait	31	35.50			33.00	32.30						
Abu Dhabi:-												
Umm Shaif	37	36.36			35.50	35.30			34.36			
Murban	39	36.56			35.70	35.50			34.56			
Zakum	40	36.46			35.60	35.40			34.46			
Iraq:												
Basrah	35	35.96		33.96	34.71	33.46			34.21			
Qatar:												
Marine	36	37.23			35.50	35.30			34.30			
Dukhan	40	37.42			35.65	35.45			34.49			
Oman:												
Oman Blend	34	39.50	35.50 36.00*	34.00 34.50*		35.00		32.00c)	34.30			34.00
MEDITERRANEAN & AFRICAN CRUDES.												
Iraq:												
Kirkuk	36	36.18		34.18		34.18			34.18			
Libya:												
Brega	40	41.00	40.00		37.50	37.00				35.50		
Nigeria:												
Bonny Light	37	40.00		36.00a)	36.50b)	36.50			35.50			
Bonny Medium	26	38.70		34.70a)	35.20b)	33.75			33.50			
INDONESIAN CRUDE												
Indonesia:												
Minas	34	35.00										
VENEZUELAN CRUDES												
Venezuela:												
Tia Zuana	26	32.88			32.88							
Tia Zuana	31	36.00			35.00							
Oficina	35	38.06			37.06							

* = Lower price is for buy-back crude, higher is GSP for equity crude.

a) = Effective Aug.,26. b) = Effective Oct. 1. c) = Effective March,1.

OFFICIAL SELLING PRICES OF KEY OPEC CRUDES SINCE 1974 (Contd....)

($ /Barrel)

CRUDE	TYPE	EFFECTIVE DATES 1983 Feb.1	1983 March.1	1983 March 15	1983 Aug. 10	1984 Oct.18	1984 Dec.28	1985 Feb.1
1.	2.	3.	4.	5.	6.	7.	8.	9.
ARABIAN/PERSIAN GULF CRUDES.								
Saudi Arabia:								
Arab. Light	34		29.00					28.00
Arab. Berri	39		29.52					28.11
Arab.Medium	31		27.40					27.40
Arab.Heavy	27		26.00					26.50
Iran:								
Iran Light	34			28.00			26.30	28.05
Iran.Heavy	31			26.90	27.10		26.20	27.35
Kuwait:								
Kuwait	31		27.30					
Abu Dhabi :-								
Umm Shaif	37		29.36					28.05
Murban	39		29.56				28.76	28.15
Zakum	40		29.46				28.96	28.10
Iraq:								
Basrah	35			29.21				27.96
Qatar:								
Marine	36		29.30					28.05
Dukhan	40		29.49					28.10
Oman:								
Oman Blend	34			29.00				28.00
MEDITERRANEAN & AFRICAN CRUDES.								
Iraq:								
Kirkuk	36			29.83				28.18
Libya:								
Brega	40	30.40a)						
Nigeria:								
Bonny Light	37	30.00b)				28.00		28.65
Bonny Medium	26	28.00b)				27.00		27.60
INDONESIAN CRUDE								
Indonesia:								
Minas	34	29.53a)						
Venezuela:								
Tia Zuana	26			27.88				27.60c)
Tia Zuana	31			29.84				28.25c)
Oficina	35			31.09				28.80c)

a) w.e.f. Feb. 23.
b) Harbor fee of 2cts/bbl not included.
c) w.e.f. Feb. 20.

Short-term trend in weighted * average Official Prices of OPEC CRUDE Vs. their Spot Assessment since June. 1980

($/bbL)

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assessment	DIFFERENCE (+) Premium (-) Discount
19.6.80	30.83	34.80	+ 3.97
3.7.80	31.30	34.34	+ 3.04
2.10.80	31.97	31.32	+ 1.15
7.11.80	31.76	38.78	+ 7.02
9.1.81	34.26	38.93	+ 4.67
6.2.81	34.83	37.02	+ 2.19
6.3.81	34.83	36.72	+ 1.89
3.4.81	34.83	35.90	+ 1.07
1.5.81	34.82	33.90	- 0.92
5.6.81	34.75	31.84	- 2.91
2.7.81	34.77	31.04	- 3.73
4.9.81	34.66 (34.32)	31.48	- 3.18
2.10.81	34.64 (34.32)	31.58	- 3.06
6.11.81	33.95	32.88	- 1.11
4.12.81	33.96	33.12	- 0.84
8.1.82	33.74	33.28	- 0.46
5.2.82	33.68	30.74	- 2.94
5.3.82	33.36	28.69	- 4.67
2.4.82	33.24	27.92	- 5.32
7.5.82	33.16	31.69	- 1.47
4.6.82	33.14	32.10	- 1.04
2.7.82	33.23	31.33	- 1.90
6.8.82	33.18	30.87	- 2.31
3.9.82	33.18	31.60	- 1.58
1.10.82	33.18	32.41	- 0.77
5.11.82	33.18	32.10	- 1.08
3.12.82	33.17	29.73	- 3.43
7.1.83	33.17	29.90	- 3.27
14.1.83	33.17	29.90	- 3.27
21.1.83	33.17	30.48	- 2.69
28.1.83	33.17	29.44	- 3.73
4.2.83	33.17	28.78	- 4.39
11.2.83	33.17	28.78	- 4.39
18.2.83	33.17	28.74	- 4.43
25.2.83	32.87	27.87	- 5.00
4.3.83	32.83	27.56	- 5.27
11.3.83	32.83	27.56	- 5.37
18.3.83	32.83	27.41	- 5.42
25.3.83	23.87	27.35	- 1.52
1.4.83	28.87	27.37	- 1.50
8.4.83	28.51	27.78	- 0.73
15.4.83	28.49	28.07	- 0.42
22.4.83	28.49	28.19	- 0.30
29.4.83	28.49	28.23	- 0.26
6.5.83	28.49	28.13	- 0.36
13.5.83	28.44	27.92	- 0.52
20.5.83	28.44	27.84	- 0.60
27.5.83	28.44	27.99	- 0.45

*=The weightings given are based on each nation's production relative to OPEC total

Short-term trend in weighted @ average Official Prices of OPEC CRUDE Vs. their Spot Assesment since June. 1980 (Contd..)

($/bbL)

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assesment	DIFFERENCE (+) Premium (-) Discount
3.6.83	28.44	28.05	- 0.39
10.6.83	28.44	28.04	- 0.40
17.6.83	28.44	28.14	- 0.30
24.6.83	28.44	28.22	- 0.22
1.7.83	28.44	28.20	- 0.24
8.7.83	28.44	28.20	- 0.24
15.7.83	28.44	28.40	- 0.04
22.7.83	28.44	28.42	- 0.02
29.7.83	28.46	28.46	--
5.8.83	28.46	28.54	+ 0.08
12.8.83	28.47	28.53	+ 0.06
19.8.83	28.48	28.49	+ 0.01
26.8.83	28.48	28.42	- 0.06
2.9.83	28.48	28.40	- 0.08
9.9.83	28.48	28.37	- 0.11
16.9.83	28.48	28.27	- 0.21
23.9.83	28.48	28.33	- 0.15
30.9.83	28.48	28.22	- 0.26
7.10.83	28.48	28.03	- 0.45
14.10.83	28.48	28.28	- 0.20
21.10.83	28.48	28.26	- 0.22
28.10.83	28.48	28.19	- 0.29
4.11.83	28.48	28.08	- 0.40
11.11.83	28.48	28.00	- 0.48
18.11.83	28.48	27.90	- 0.58
23.11.83	28.48	27.79	- 0.69
2.12.83	28.48	27.93	- 0.55
9.12.83	28.48	27.87	- 0.61
16.12.83	28.48	27.78	- 0.70
23.12.83	28.48	27.74	- 0.74
30.12.83	28.48	27.83	- 0.65
6.1.84	28.48	27.91	- 0.57
13.1.84	28.48	27.95	- 0.53
20.1.84	28.48	27.97	- 0.51
27.1.84	28.48	28.06	- 0.42
3.2.84	28.48	28.08	- 0.40
10.2.84	28.48	28.03	- 0.45
17.2.84	28.48	28.02	- 0.46
24.2.84	28.48	28.03	- 0.45
2.3.84	28.48	28.06	- 0.42
9.3.84	28.48	28.12	- 0.36
16.3.84	28.48	28.04	- 0.44
23.3.84	28.48	28.02	- 0.46
30.3.84	28.48	28.04	- 0.44

Short-term trend in weighted @ average Official Prices of OPEC CRUDE Vs. thair Spot Assessment since June, 1980 .) (Contd...)($/bbL)

WEEK ENDING	OPEC'S WEIGHTED AVERAGE OFFICIAL PRICE	Spot Assessment	DIFFERENCE (+) Premium (-) Discount
6.1.84	28.48	27.91	- 0.57
13.1.84	28.48	27.95	- 0.53
20.1.84	28.48	27.97	- 0.51
27.1.84	28.48	28.06	- 0.42
3.2.84	28.48	28.08	- 0.40
10.2.84	28.48	28.03	- 0.45
17.2.84	28.48	28.02	- 0.46
24.2.84	28.48	28.03	- 0.45
7.3.84	28.48	28.03	- 0.45
16.3.84	28.48	28.02	- 0.46
23.3.84	28.48	28.04	- 0.44
6.4.84	28.48	28.06	- 0.42
13.4.84	28.48	28.08	- 0.40
19.4.84	28.48	28.15	- 0.33
27.4.84	28.48	28.12	- 0.36
4.5.84	28.48	28.08	- 0.40
18.5.84	28.48	28.14	- 0.34
25.5.84	28.48	28.06	- 0.42
1.6.84	28.48	27.41	- 1.07
8.6.84	28.48	27.51	- 0.97
15.6.84	28.48	27.30	- 1.18
22.6.84	28.48	27.09	- 1.39
29.6.84	28.48	27.94	- 1.54
6.7.84	28.48	27.08	- 1.40
13.7.84	28.48	27.06	- 1.42
20.7.84	28.48	26.91	- 1.57
27.7.84	28.48	26.59	- 1.89
3 .8.84	28.48	26.70	- 1.78
10.8.84	28.48	26.98	- 1.50
17.8.84	28.48	27.03	- 1.45
24.8.84	28.48	27.20	- 1.28
7.9.84	28.48	27.36	- 1.12
14.9.84	28.48	27.43	- 1.05
21.9.84	28.48	27.49	- 0.99
28.9.84	28.48	27.62	- 0.86
5.10.84	28.48	27.38	- 1.10
12.10.84	28.48	27.41	- 1.07
19.10.84	28.18	26.81	- 1.37
26.10.84	28.18	27.57	- 0.61
2.11.84	27.92	27.47	- 0.44
9.11.84	27.89	27.33	- 0.56
16.11.84	27.89	27.16	- 0.73
21.11.84	27.88	27.08	- 0.80
30.11.84	27.88	26.84	- 1.04
7.12.84	27.88	26.93	- 0.94
14.12.84	27.88	26.79	- 1.09
21.12.84	27.88	26.77	- 1.10
28.12.84	27.88	26.96	- 0.92
4.1.85	27.98	26.95	- 1.03
11.1.85	28.05	27.06	- 0.99
18.1.85	27.87	26.95	- 0.92
25.1.85	27.87	26.88	- 0.99
1.2.85	27.59	26.85	- 0.74
8.2.85	27.67	27.11	- 0.56
15.2.85	27.67	27.14	- 0.53
22.2.85	27.66	27.11	- 0.55
1.3.85	27.66	27.08	- 0.58
8.3.85	27.67	27.08	- 0.54
15.3.85	27.62	27.13	- 0.55
22.3.85	27.54	27.07	- 0.47
29.3.85	27.53	27.03	0.50

DEVELOPMENT OF LOWEST POSTED PRICES OF POL PRODUCTS AT BANDAR MAHSHAR/QUOIN ISLAND

PRICE AS ON	U.S. Cent/U.S. Gallon						US $/ Barrel	
	Naphtha Whole (A-316)	Octane 93	Octane 87	Octane 83	Turbine Fuel	Kerosene Diesel Index	Indl. Diesel	Light Fuel
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
1.1.70	-	9.0	7.9	7.1	9.5	8.9	6.6	2.62	1.42
1.1.71	-	9.0	7.9	7.1	9.5	8.9	6.6	2.70	1.50
1.1.72	-	9.9	8.7	8.0	10.4	9.8	7.5	3.20	1.95
1.1.73	-	10.2	8.9	8.3	10.7	10.1	7.8	3.32	2.07
1.1.74	-	17.3	N.R.	15.4	18.6	18.3	15.7	6.16	3.75
1.1.75	-	35.9	N.R.	34.0	33.7	33.4	30.8	12.11	10.05
1.1.76	-	38.3	N.R.	36.4	36.7	36.4	33.6	12.86	10.80
1.1.77	-	38.3	N.R.	36.4	36.7	36.4	33.6	12.86	10.50
1.1.78	-	41.2	N.R.	39.0	39.6	39.2	36.5	14.35	11.85
1.1.79	-	44.0	41.5	40.5	43.5	42.5	40.5	-	11.15
1.1.80	91.5*	79.3	77.0	76.0	77.5	76.5	73.0	-	22.35
1.1.81	87.0**	106.3	104.0	102.5	110.0	105.0	102.0	-	31.04
1.1.82	86.0**	107.8	105.5	104.0	113.5	112.5	106.5	-	32.95
1.1.83	83.0**	100.8	98.5	97.0	110.0	107.0	103.0	-	31.25
1.1.84	71.5**	91.0	86.0	85.0	88.0	87.5	83.0	-	28.35
1.1.85	62.5	88.5	84.0	83.0	87.0	-	77.0	-	27.85
15.7.85	62.5	87.5	83.0	82.0	82.0	-	74.0	-	27.50

* = Ex-Ras Tanura
** = Ex-Kuwait
NR = Not Reported
SOURCE: Platt's Oil Grams.

QUARTERLY DEVELOPMENT OF SPOT PRICES OF MAJOR PETROLEUM PRODUCTS DURING 1984 AND 1985 IN KEY TRADING CENTRES/COUNTRIES.

Product/Type	Unit	1984* Jan.	1984* April	1984* July	1984* Oct.	1985 Jan.	1985 Apr.(P)
1.	2.	3.	4.	5.	6.	7.	8.
I. NAPHTHA:	US ¢/US Gallon						
1. N.W. Europe	"	69.2	71.4	65.4	65.6	62.5@	69.7
2. Mediterranean	"	67.8	68.8	63.7	64.0	61.3@	67.2
3. Caribbean	"	71.9	77.5	69.2	70.6	64.4@	71.5
4. Arabian/P.Gulf	"	67.0	70.0	63.0	64.0	60.5	64.0
5. Singapore	"	69.0	71.0	67.0	64.0	62.5	66.5
II. REGULAR GASOLINE:	US¢/US Gallon						
1. N.W. Europe	"	71.9	75.6	70.9	69.1	66.1@	73.9
2. Mediterranean	"	69.1	73.2	68.3	66.9	63.5@	72.8
3. Caribbean	"	73.5	76.8	69.5	70.6	65.2@	72.3
4. Arabian/P.Gulf	"	73.0	76.0	70.0	70.0	66.0	70.0
5. Singapore	"	79.0	79.0	74.0	72.0	71.0	73.5
III. JET KEROSINE:	US¢/US Gallon						
1. N.W. Europe	"	81.1	79.3	76.6	73.9	75.3@	77.6
2. Mediterranean	"	81.1	78.9	76.5	73.4	75.0@	78.0
3. Caribbean	"	-	-	-	-	-	-
4. Arabian/P.Gulf	"	85.5	84.0	78.0	76.0	78.0	75.0
5. Singapore	"	84.5	83.0	79.5	77.0	78.0	76.0
IV. GAS OIL:	US¢/US Gallon						
1. N.W. Europe	"	79.1	77.5	70.3	72.9	70.3@	73.5
2. Mediterranean	"	79.9	77.1	69.9	72.7	70.0@	73.3
3. Caribbean	"	86.4	76.9	72.8	76.4	73.6@	74.8
4. Arabian/P.Gulf	"	77.5	77.0	74.5	72.0	74.5	71.5
5. Singapore	"	75.0	77.0	76.5	71.0	78.0	70.0
V. FUEL OIL	$/Barrel						
1. N.W. Europe(1% Sulfer)	"	27.47	27.98	26.69	27.69	27.39@	24.75
2. Mediterranean(1% Sulfer)	"	26.88	27.98	27.03	27.47	27.18@	23.64
3. Caribbean (1% Sulfer)	"	28.65	28.03	27.65	27.51	27.36@	25.92
4. Arabian/P.Gulf(3.5%Sulfer)	"	25.15	26.81	26.36	26.13	25.38	24.40
5. Singapore(3.5% Sulfer)	"	25.75	27.71	27.41	27.48	25.98	25.30

* = Revised. @ = December Prices.
P = Provisional.
SOURCE: Petroleum Intelligence Weekly.

RETAIL PRICES INCLUDING DUTY AND TAXES OF SOME SELECTED PRODUCTS IN DIFFERENT COUNTRIES AS ON 1.1.1984.

US $/USG

COUNTRY	REGULAR GASOLINE			HOUSE HOLD KEROSENE		
	Consumer Price	Tax (1)	Custom Duty(2)	Consumer Price	Tax (1)	Custom Duty (2)
1.	2.	3.	4.	5.	6.	7.
NORTH AMERICA:						
Canada	1.33	0.38		1.35	0	
Mexico	0.69	0.40		0.29	0.04	
United States	1.13	x		1.07	x	
CENTRAL SOUTH AMERICA AND CARIBBEAN						
Argentina	1.40	0.84	21%	0.73	0.24	21%
Brazil	2.00	x		1.41	x	
Venezuela	0.26	0.04		0.09	Ngl.	
EUROPE:						
Austria	2.16	8%+20%VAT	0.05	3.58	20% VAT	0.02
Belgium	2.17	1.19		1.11	0.16	
Denmark	2.37	1.32		1.35	0.24	
France	2.08	1.13		x	x	
West Germany	1.80	0.68+14%VAT	6.0%	x	x	x
Italy	2.85	1.92	6.0%	1.45	0.43	6.0%
Netherlands	2.24	0.19	0.90	x	x	x
U.Kingdom(London)	x	x		x	x	
Yugoslavia	2.05	0.45		1.20	0.11	
MIDDLE EAST:						
S.Arabia	0.17	0		0.15	0	
Israel	x	x		x	x	
Turkey	1.70	0.06	Ngl.	1.18	0.06	Ngl.
AFRICA						
Ethiopia	2.18	0.23		1.20	0	
Ghana	0.85	0.01	0	0.56	0	0
South Africa	2.50	0.59	0.48	1.58	0.25	Ngl.
ASIA:						
India*	2.59	x	x	0.74	x	x
Indonesia	1.33	x		0.63	x	
Japan	2.38	0.87+3.5%	0.03	1.27	3.5%	0.01
Pakistan	1.69	0.25	0.25	0.78	0	0
Philippines	1.70	0.59		1.20	0.02	
Singapore	2.12	1.06	1.06	1.15	0.02	0.02
Sri Lanka	x	x	x	1.02	4%	5%
Thailand	1.77	0.75	0.48	1.01	0.15	0.01
AUSTALASIA:						
Australia	2.00	0.33	0.33	1.54	0.03	0.03

x = Not reported or unknown. * = Ex-Bombay price as on 1.4.84.
Ngl = Negligible, less than .5 US cents.
1. = Tax includes value added tax whenever applicable.
2. = Custom duty value is nil unless amount is given.
SOURCE: International Energy Annual, 1983.

RETAIL PRICES INCLUDING DUTY AND TAXES OF SOME SELECTED PRODUCTS IN DIFFERENT COUNTRIES AS ON 1.1.1984.

(US $/Barrel)

COUNTRY	DISTILLATE FUEL OIL			MEDIUM FUEL OIL		
	Consumer Price	Tax (1)	Custom Duty(2)	Consumer Price	Tax (1)	Custom Duty (2)
1.	2.	3.	4.	5.	6.	7.
NORTH AMERICA:						
Canada	x	x		x	x	
Mexico	18.37	10.70		7.71	1.01	
United States	38.30	x		34.48	x	
CENTRAL SOUTH AMERICA AND CARIBBEAN:						
Argentina	27.51	13.96	21%	18.69	9.81	21%
Brazil	27.04	x		33.26	x	
Venezuela	2.40	x		x	x	
EUROPE:						
Austria	x	x	x	42.28	20% VAT	0.01
Belgium	45.43	6.60		49.86	5.43	
Denmark	56.10	16.57		43.52	14.15	
France	45.90	10.30		x	x	
West Germany	36.02	24.83+14%VAT	x	x	x	x
Italy	57.47	17.81	3.5%	x	x	x
Netherlands	x	x	x	x	x	x
U.Kingdom(London)	x	x		x	x	x
Yugoslavia	28.13	1.90		26.61	0.89	
MIDDLE EAST:						
S.Arabia	x	x		x	x	
Israel	x	x		x	x	
Turkey	48.15	2.35	Neg.	35.49	1.71	Ngl.
AFRICA						
Ethiopia	46.58	6.53		41.48	0	
Ghana	19.58	0	0	x	x	x
South Africa	78.27	23.81	2.65	78.02	23.62	2.65
ASIA:						
Burma	x	x		x	x	
India*	47.72	x	x	45.44	x	x
Indonesia	38.24	x		31.99	x	
Japan	63.60	16.44+3.5%VAT	1.28	42.62	3.5%	3.5%
Pakistan	x	x	x	x	x	x
Philippines	48.00	2.16	-	38.66	0.91	
Singapore	45.75	Ngl.	Ngl.	32.25	Ngl.	Ngl.
Sri Lanka	60.58	4%	7.5%	31.90	4%	0
Thailand	46.21	7.04	2.21	25.35	0.01	0.01
AUSTALASIA:						
Australia	63.32	13.87	13.87	41.56	2.88	2.88

x = Not reported or unknown. * = Ex-Bombay price as on 1.4.84.
Ngl = Negligible, less than .5 US cents.
1. = Tax includes value added tax whenever applicable.
2. = Custom duty value is nil unless amount is given.
SOURCE: International Energy Annual, 1983.

RETAIL PRICES INCLUDING DUTY AND TAXES OF SOME SELECTED PRODUCTS IN DIFFERENT COUNTRIES AS ON 1.1.1984.

US $/USG

COUNTRY	AUTO DIESEL OIL			L.P. GAS		
	Consumer Price	Tax (1)	Custom Duty(2)	Consumer Price	Tax (1)	Custom Duty (2)
1.	2.	3.	4.	5.	6.	7.
NORTH AMERICA:						
Canada	1.38	0.37		x	x	
Mexico	0.44	0.26		0.14	0.02	
United States	0.96	x		0.77	x	
CENTRAL SOUTH AMERICA AND CARIBBEAN:						
Argentina	0.66	0.33	21%	0.66	x	10%
Brazil	1.38	x		1.03	x	
Venezuela	0.27	Ngl.		1.40	x	
EUROPE:						
Austria	2.04	8%+18%VAT	.03	0.93	20%VAT	0.40%
Belgium	1.71	0.69		1.35	0.20	
Denmark	1.44	0.41		1.16	0.31	
France	1.67	0.71		1.14	0.15	
West Germany	1.74	0.59+14%VAT	6.0%	0.70	14%VAT	0
Italy	1.41	0.43	3.5%	1.63	0.63	1.5%
Netherlands	1.50	0.19	0.25	0.98	0.19	X
U.Kingdom(London)	1.84	0.77	-	X	X	
Yugoslavia	1.51	0.37		1.29	0.19	
MIDDLE EAST:						
S.Arabia	0.08	0		0.34	0	
Israel	x	x		x	x	
Turkey	1.15	0.06	Ngl.	0.79	0.07	0.10
AFRICA						
Ethiopia	1.44	0.16		1.29	0.12	
Ghana	0.67	0.01	0	0.57	0	0
South Africa	2.60	0.60	0.48	1.90	0.25	Ngl.
ASIA:						
Burma	x	x	x	x	x	x
India*	1.31	x	x	0.70	x	x
Indonesia	0.84	x		0.68	x	
Japan	1.72	0.39+3.5VAT	0.03	2.18	0.15	0.01
Pakistan	1.13	0.07	0.07	0.52	0	0
Philippines	1.20	0.05		1.16	0.07	
Singapore	1.02	0.11	0.11	1.46	0.07	0.07
Sri Lanka	1.26	4%	7.5%	0.69	4%	0
Thailand	1.00	0.17	0.09	0.89	0.04	Ngl.
AUSTALASIA:						
Australia	2.10	0.33	0.33	0.58	0	0

x = Not reported or unknown. * = Ex-Bombay price as on 1.4.84.

Ngl = Negligible, less than .5 US cents.

1. = Tax includes value added tax whenever applicable.

2. = Custom duty value is nil unless amount is given.

SOURCE: International Energy Annual, 1983.

Consumer/Retail Prices of Petroleum Products in Selected Developed and Developing countries during Jan-March 1985

Country	Motor Spirit	Kero-sene	HSDO	LDO	F.O.	ATF	LPG (domestic)	Exchange rate adopted/used
	(. . . . . Rs. Per Litre . . . . . .)						(Rs/KGM.)	
I. Developed/Industrialised Countries								
1. USA	2.90	3.28	2.90	2.61	2.17	2.67	3.88	1 US $ = Rs. 12.50
2. Canada	3.89	3.63	3.51	-	2.97	3.12	-	1 C $ = Rs. 7.93
3. W. Germany	5.74	-	5.32	2.70	2.16	-	4.74	=D.Mark = Rs. 3.97
4. Switzerland	5.76	-	6.38	3.19	2.95	3.67	10.47	1 Swiss France = Rs.4.76
5. Yugoslavia	8.08	4.96	6.26	-	-	7.47	7.08	1 Re. = N.Dinar 13.98
6. U.K.	5.97	2.96	5.79	3.09	2.54	3.95	8.08	1 £ = Rs. 14.35
7. France	4.75	11.07	3.58	-	1.68	2.05	10.21	1 F.Franc= Rs. 0.82
8. Japan	7.18	-	3.01	5.06	4.12	-	11.35	1 Yen = Rs. 0.048
9. Australia	4.56	-	4.71	-	-	4.84	-	
10. Newzealand	4.97	-	3.91	-	2.25	3.26	-	1 N.Z. Dollar = Rs. 5.72
	(5.38)	(4.98)	(4.54)	(3.33)	(2.61)	(3.88)	(7.97)	
Range of Prices	2.90	2.63	2.90	2.61-	1.68	2.67	3.88	
	-8.08	-11.07	-6.38	-506	-4.12	-7.47	-10.47	
II. Developing Countries								
1. Argentina	6.47	2.48	2.46	-	1.45	2.60	-	
2. Brazil	5.82	4.21	4.07	-	1.98	3.10	3.30	1 Cruseric = Rs. 2.60
3. Tanzania	10.10	4.45	5.12	4.73	3.49	5.77	6.45	1 T.Schilling = Re, 0.636
4. Bangla Desh	8.01	3.56	3.56	3.32	2.58	4.66	4.21	1 Re. = 2.09 B.Taka
5. Srilanka	6.40	3.12	3.85	3.71	2.24	-	5.29	1 S.L. Re. = Re. 0.474
6. India	7.01	2.11	3.39	3.40	3.25	3.54(I) 5.22(D)	3.62	
7. Pakistan	5.39	2.49	3.52	2.49	1.43	4.15	-	1 Re. = 1.205 Pak Re.
8. Afganistan	3.37	2.32	2.32	2.32	-	-	6.63	1 Afgs. = Re. 0.1658
9. Philippines	5.77	4.48	4.53	-	3.24	5.66	7.21	1 P $ = Re.0.625
10. Thailand	5.49	2.87	3.15	3.05	2.27	-	5.46	1 Baht = Re. 0.4695
11. Korea	9.11	4.02	3.96	3.82	-	2.90	10.20	1 Re. = 72.40 Won
12. Malaysia	5.33	3.15	2.91	2.79	2.69	3.81	6.73	1 Re. = 0.2006 M Dollar
Range of prices	3.37	2.11	2.46	2.32	1.43	2.60	3.30	
	-10.10	-4.48	-4.53	-4.73	-3.49	-5.77	-10.20	
Estd. CIF unit prices (excl. taxes/duties etc.)	3..30	2.90	2.70	2.50	2.20	2.90	3.60	
	-3.40	-3.20	-3.10	-2.80	-2.40	-3.20	-4.00	

Figures in brackets indicate average prices. (I) = International. (D) = Domestic.

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

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

Countries/Port	Prices of Jet A.I. Fuel as on 1st April						
	1979	1980	1981	1982	1983	1984	1985
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Australia							
Perth	63.00	114.88	142.61	140.82	127.53	140.50	114.02
Sydney	63.00	114.88	142.61	140.82	127.53	140.50	114.02
Bahrain	76.50	153.40	167.68	165.03	148.42	148.46	148.46
Belgium							
Brussels	76.00	159.00	174.00	174.00	164.00	135.00	128.00
Egypt							
Cairo	120.00	155.20	162.77	162.77	121.13	121.13	121.13
Ethiopia							
Addisababa	80.00	156.06	182.24	183.41	176.38	151.45	150.32
France							
Paris	72.03	147.90	150.00	145.00	145.00	128.00	117.24
Germany							
Frankfurt	120.00	147.32	142.31	136.78	146.50	135.00	107.69
Holland							
Amsterdam	84.47	142.60	159.80	138.00	126.00	124.13	115.00
Italy							
Rome	110.00	165.00	155.00	145.00	153.00	135.00	135.00
Kenya							
Nairobi	78.00	144.00	175.00	180.00	168.10	168.10	168.10
Lebanon							
Beirut	80.00	185.00	185.00	185.00	185.00	165.00	165.00
Malaysia							
Kualalumpur	67.00	137.00	155.00	145.00	145.00	135.00	135.00
Mauritius							
Plaisance	72.00	140.00	150.00	150.00	145.00	145.00	126.00
Singapore							
Paya lebar /changi	65.00	137.00	152.50	151.00	141.00	128.50	128.50
Switzerland							
Geneva	98.60	155.73	155.51	144.20	132.40	129.76	105.58
U.A.E.							
Abu Dhabi	79.98	154.88	172.09	169.40	110.00	106.61	100.45
Sharjah/Dubai	76.50	154.88	172.09	169.40	147.64	147.60	147.58
UNITED KINGDOM							
London (H)	140.00	154.76	177.92	173.17	151.66	150.14	129.89
Kerachi	79.24	123.28	173.76	175.50	175.80	175.50	175.50
Kuwait	56.29	113.96	135.11	132.60	112.76	106.07	98.15
New York (2)	65.00	112.00	108.19	96.90	87.25	83.50	77.75
Tehran (1)	62.00	100.96	137.89	132.13	122.13	122.13	122.13
Tokyo							
Narita	72.00	118.96	128.00	128.05	114.45	97.00	95.00
Bombay	74.78	145.22	159.80	140.51	131.87	121.92	106.07
Delhi							
Palam	79.85	150.22	166.83	149.43	134.09	124.71	108.92

* = Less rebate 2.00 $ USG. (1) Monopoly Price (2) Air India Contract Price.

Wholesale Prices of OPEC's Represntative Crudes in Current And Constant(1980) $

Period	Wholesale Price @ of OPEC's representative crudes in current ($/bbl.)			Index of consumer Prices indl. countries (1980=100)	Price of crude oil 1980 $ ($/bbl.)		
	S.Arabia (Ras Tanura)	Libya (Es Sider)	Venezuela (Tia Juana)		S.Arabia (Ras Tanura)	Libya (Es Sider)	Venezuela (Tia Juana)
1.	2.	3.	4.	5.	6.	7.	8.
1970	1.30	2.58	1.73	43.6	2.98	5.92	3.97
1971	1.65	3.17	2.21	45.9	3.59	6.91	4.81
1972	1.90	3.37	2.37	48.0	3.96	7.02	4.94
1973	2.70	4.80	3.56	57.7	4.68	8.32	6.17
1974	9.76	13.84	10.24	58.6	16.66	23.62	17.47
1975	10.72	11.59	10.89	65.1	16.47	17.80	16.73
1976	11.51	12.31	11.28	70.5	16.33	17.46	16.00
1977	12.40	13.87	12.42	76.4	16.23	18.15	16.26
1978	12.70	13.71	12.42	81.9	15.51	16.74	15.16
1979	17.26	21.06	16.77	89.4	19.31	23.56	18.76
1980	28.67	35.87	27.60	100.0	28.67	35.87	27.60
1981	32.50	39.83	32.03	109.9	29.57	36.24	29.14
1982	33.47	35.49	32.03	118.1	28.34	30.05	27.12
1983	29.31	30.89	28.05	124.1	23.62	24.89	22.60
1984	28.47	30.15	27.03*	130.0	21.90	23.19	20.79
1984 Ist Qr.	28.50	30.15	27.03	128.0	22.27	23.55	21.12
IInd Qr.	28.60	30.15	27.03	129.5	22.08	23.28	20.87
IIIrd Qr.	28.53	30.15	27.03	130.6	21.85	23.09	20.70
IVth Qr.	28.23	30.15	27.03*	132.0	21.39	22.84	20.48

* = Estimated.

@ Source: International Financial Statistics.

Wholesale Price of OPEC's Representatives Crudes in Terms of SDRs.

Period	Wholesale Price @ of OPEC's representative crudes in current ($/bbl.) S.Arabia (Ras Tanura)	Libya (Es Sider)	Venezuela (Tia Juana)	SDR/US $ exchange rates	Price in SDR /bbl. S.Arabia (Ras Tanura)	Libya (Es Sider)	Venezuela (Tia Juana)
1.	2.	3.	4.	5.	6.	7.	8.
1970	1.30	2.58	1.73	1.00000	1.30	2.58	1.73
1971	1.65	3.17	2.21	0.99702	1.65	3.16	2.20
1972	1.90	3.37	2.37	0.92105	1.75	3.10	2.18
1973	2.70	4.80	3.56	0.83883	2.26	4.03	2.99
1974	9.76	13.84	10.24	0.83150	8.12	11.51	8.52
1975	10.72	11.59	10.89	0.82362	8.83	9.55	8.97
1976	11.51	12.31	11.28	0.86616	9.97	10.66	9.77
1977	12.40	13.87	12.42	0.85652	10.62	11.88	10.64
1978	12.70	13.71	12.42	0.79872	10.14	10.95	9.92
1979	17.26	21.06	16.77	0.77399	13.36	16.30	12.98
1980	28.67	35.87	27.60	0.76833	22.03	27.56	21.21
1981	32.50	39.83	32.03	0.84806	27.56	33.78	27.16
1982	33.47	35.49	32.03	0.90579	30.32	32.15	29.02
1983	29.31	30.89	28.05	0.93545	27.42	28.90	26.24
1984	28.47	30.15	27.03	0.97560	27.78	29.41	26.37
1984 Ist Qr.	28.50	30.15	27.03*	0.95350	27.18	28.75	25.77
IInd Qr.	28.60	30.15	27.03	0.95611	27.34	28.83	25.84
IIIrd Qr.	28.53	30.15	27.03	0.98803	28.19	29.79	26.71
IVth Qr.	28.23	30.15	27.03*	1.00577	28.39	30.32	27.19

* = Estimated.

@ Source: International Financial Statistics.

WORLD TANKER FLEET BY FLAG 1981 TO 1984

(Million dwt)

FLAG	1981	1982	1983	1984	Percentages Change 1984 over 1983	Percentage 1985 Share of Total
Liberia	91.6	84.4	76.4	71.8	- 6.0	26.6
Panama	14.4	15.9	15.0	14.9	- 0.7	5.5
USA	16.4	16.8	16.5	15.6	- 5.5	5.8
France	13.2	11.6	10.4	8.9	-14.4	3.3
Greece	27.0	23.7	21.1	19.1	- 9.5	7.1
Norway	24.4	21.2	18.9	15.7	-16.9	5.8
United Kingdom	21.3	17.6	15.3	13.3	-13.1	4.9
Other Western Europe	36.6	35.4	34.9	36.5	+ 4.6	13.6
Japan	29.7	28.5	26.3	24.9	- 5.3	9.2
Others	35.4	39.0	39.1	38.5	- 1.5	14.3
Total NCW	310.0	294.1	273.9	259.2	- 5.4	96.1
Centrally-Planned Economies (CPEs)	10.2	9.6	9.3	10.5	+12.9	3.9
Total World	320.2	303.7	283.2	269.7	- 4.8	100.0

SOURCE: B.P. Statistical Review of the World Energy.

WORLD TANKER FLEET BY SIZE 1981 TO 1984

(Million dwt)

Size of Tanker	1981	1982	1983	1984	Percentages Change 1984 over 1983	Percentage1984 Share of Total
10-25 000 dwt	13.8	13.5	13.0	12.8	- 1.5	4.7
25-45 000 dwt	26.0	27.2	27.4	26.3	- 4.0	9.8
45-65 000 dwt	16.6	16.1	15.3	15.7	+ 2.6	5.8
65-125 000 dwt	55.4	51.8	48.4	46.2	- 4.5	17.1
125-200 000 dwt	31.2	30.2	28.8	28.9	+ 0.3	10.7
200-320 000 dwt	146.5	134.5	120.4	111.6	- 7.3	41.4
320 000 dwt and over	30.7	30.4	29.9	28.2	- 5.7	10.5
Total World	320.2	303.7	283.2	269.7	- 4.8	100.0

WORLD TANKER FLEET TONNAGE SCRAPPED 1981 TO 1984

(Million dwt)

Size of Tanker	1981	1982	1983	1984	Percentages Change 1984 over 1983	Percentage 1984 Share of Total
10-25 000 dwt	0.5	0.9	0.8	0.9	+12.5	5.1
25-45 000 dwt	0.8	1.2	1.1	1.5	+36.4	8.5
45-65 000 dwt	0.9	3.6	4.2	2.6	-38.1	14.8
80-100 000 dwt	0.3	1.6	1.2	0.9	-25.0	5.1
100-160 000 dwt	0.7	1.6	1.0	0.6	-40.0	3.4
160 000 dwt and over	8.8	12.7	15.2	11.1	-27.0	63.1
Total World	12.0	21.6	23.5	17.6	-25.1	100.0

SOURCE: B.P. Statistical Review of the World Energy.

INTER-AREA TOTAL OIL MOVEMENTS 1984

(Million Tonnes)

	U.S.A.	Canada	Latin America	Western Europe	Africa	South East Asia
1.	2.	3.	4.	5.	6.	7.
USA	-	4.7	13.2	11.4	0.5	3.8
Canada	30.5	-	-	0.1	-	-
Latin America	110.7	6.2	20.9	43.3	3.3	-
Western Europe	30.5	1.1	1.9	-	3.9	-
Middle East	30.3	3.5	34.8	151.6	16.9	77.4
North Africa	15.5	1.4	4.1	82.1	1.6	-
West Africa	22.1	0.3	5.2	48.2	2.7	-
East & Southern Africa	-	-	-	-	0.3	-
South Asia	-	-	-	0.9	0.3	0.6
South East Asia	18.7	-	-	1.6	0.5	-
Japan	-	-	-	-	-	0.5
Australasia	1.8	-	-	-	-	0.7
USSR, E.Europe & China	4.3	-	10.0	88.7	-	18.9
Total Imports	264.4	17.2	90.1	427.9	30.0	101.9

(Million Tonnes)

	Japan	Austra-lasia	Rest of World	Desti-nation not known*	Total
	8.	9.	10.	11.	12.
USA	5.2	0.3	0.2	-	39.3
Canada	0.3	-	-	1.3	32.2
Latin America	9.2	0.1	6.0	2.7	202.4
Western Europe	-	0.3	3.7	0.8	42.2
Middle East	140.8	5.4	25.9	2.8	489.4
North Africa	1.2	-	7.8	-	113.7
West Africa	-	-	2.0	2.8	83.3
East & Southern Africa	-	0.1	-	0.4	0.8
South Asia	0.7	-	-	0.3	2.8
South East Asia	43.6	5.2	3.2	6.4	79.2
Japan	-	-	-	0.2	0.7
Australasia	0.3	-	-	-	2.8
USSR, E.Europe & China	13.3	0.1	5.8	-	141.1
Total Imports	214.6	11.5	54.6	17.7	1229.9

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

WORLD PRIMARY ENERGY CONSUMPTION BY FUEL - 1984*.

Country/Area	(Million Tonnes Oil Equivalent)					
	Oil	Natural Gas	Coal	Hydro-Electric	Nuclear Energy	Total
1.	2.	3.	4.	5.	6.	7.
NORTH AMERICA						
USA	723.9	458.0	433.9	95.3	89.4	1800.5
Canada	67.5	47.8	32.3	59.3	11.9	218.8
Total North America	791.4	505.8	466.2	154.6	101.3	2019.3
Latin America	217.7	61.6	17.8	62.0	1.7	360.8
WESTERN EUROPE:						
Austria	9.8	4.3	3.7	7.1	-	24.9
Belgium & Luxembourg	20.6	8.4	11.1	0.1	6.1	46.3
Denmark	10.4	0.2	6.3	-	-	16.9
Finland	10.6	0.7	2.7	3.3	4.4	21.7
France	86.2	23.5	25.2	13.7	38.4	187.0
Greece	11.7	-	5.2	1.2	-	18.1
Iceland	0.5	-	-	1.0	-	1.5
Republic of Ireland	4.1	1.6	2.3	0.2	-	8.2
Italy	84.7	26.5	15.3	11.3	2.4	140.2
Netherlands	28.9	31.2	5.7	-	0.9	66.7
Norway	8.3	-	0.5	23.8	-	32.6
Portugal	9.1	-	0.4	2.5	-	12.0
Spain	44.2	2.4	19.5	7.9	5.6	79.6
Sweden	17.1	-	2.3	11.7	8.8	39.9
Switzerland	11.8	1.0	0.5	8.0	4.5	25.8
Turkey	17.2	-	10.1	3.4	-	30.7
United Kingdom	88.7	45.2	45.3	1.2	11.5	191.9
West Germany	110.9	41.1	83.3	4.7	20.9	260.9
Yugoslavia	14.5	4.0	17.3	5.9	1.1	42.8
Cyrus/Gibraltar/Malta	1.7	-	+	-	-	1.7
Total Western Europe	591.0	190.1	256.7	107.0	104.6	1249.4
Middle East	94.9	39.6	+	2.2	-	136.7
Africa	82.4	17.8	76.9	17.4	1.0	195.5
Japan	214.6	33.1	64.0	19.8	30.6	362.1
South East Asia	117.6	7.3	26.9	4.1	9.4	165.3
South Asia @	49.2	13.0	99.0	17.5	1.1	179.8
Of which India	40.6	3.7	95.7	3.7	0.3	144.0
Australasia	35.5	14.4	34.6	9.3	-	93.8
Total NCW	2194.3	882.7	1042.1	393.9	249.7	4762.7
Centrally-Planned Economies(CPEs):						
China	85.8	10.8	466.5	23.5	-	586.6
USSR	447.8	439.4	357.0	53.0	25.0	1322.2
Others	116.6	77.0	314.0	15.0	7.5	530.1
Total CPEs	650.2	527.2	1137.5	91.5	32.5	2438.9
Total World	2844.5	1409.9	2179.6	485.4	282.2	7201.6

@ Based on provisional figures of production of oil and despatches of coal for 1984-85.

\+ Less than 0.05

* 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.

SOURCE: BP Statistical Review of World energy.

NOTE : Figures for India inserted.





ESTIMATED PER CAPITA PRIMARY ENERGY CONSUMPTION-SOME INTERNATIONAL COMPARISONS (1984).

(Kgm.Oil Equivalent)

COUNTRY/AREA	Oil	Natural Gas	Coal	WATER POWER	Nuclear Energy	Total
1.	2.	3.	4.	5.	6.	7.
1. WESTERN HEMISPHERE: Of which	1538	865	738	330	157	3628
NORTH AMERICA	3039	1943	1790	594	389	7755
U.S.A.	3077	1946	1844	405	380	7652
Canada	2689	1904	1287	2363	474	8717
2. EASTERN HEMISPHERE:	451	120	212	67	56	906
a) Western Europe of which	1391	447	604	252	246	2940
Austria	1225	538	462	888	-	3113
Belgium & Luxembourg	2060	840	1110	10	610	4630
Italy	1513	473	273	202	43	2504
Netherlands	2064	2229	407	-	64	4764
Norway	2075	-	125	5950	-	8150
Portugal	910	-	40	250	-	1200
Spain	1163	63	513	208	147	2094
Sweden	2138	-	288	1462	1100	4988
Switzerland	1967	167	83	1333	750	4300
Turkey	351	-	206	69	-	626
U.K.	1584	807	809	22	205	3427
Germany West	1789	663	1344	76	337	4209
Yugoslavia	622	172	742	253	47	1836
b) Middle East	840	350	Neg.	20	-	1210
c) Africa	157	34	146	33	2	372
d) South Asia of	50	13	100	18	1	182
which india	55	5	131	(5)		196
e) South East Asia	272	17	62	9	22	382
f) Japan	1803	278	538	167	257	3043
g) Australasia	1614	654	1573	423	-	4264
3. Centrally Planned Economies(CPEs):	459	372	803	64	23	1721
h) U.S.S.R.	1634	1604	1303	193	91	4825
i) China	83	11	454	23	-	571
j) Others	1014	670	2731	130	65	4610
4. WORLD (Excl.CPEs):	666	268	316	120	76	1446
5. WORLD (Incl.CPEs):	604	299	463	103	60	1529

SOURCE: i) BP Statistical Review of the World June,1985.Figures for India Inserted.
ii) World Development Report, 1984 and International Financial Statistics, May, 1985 for population.

ESTIMATED PER CAPITA CONSUMPTION OF MAIN PETROLEUM PRODUCTS-SOME INTERNATIONAL COMPARISONS (1984)

kg./per capita

Country/Area	Gasoline	Middle Distillates	Fuel	Others*	Total
1.	2.	3.	4.	5.	6.
U.S.A.	1292	854	322	608	3076
Canada	1080	841	307	462	2690
W.Europe	324	515	334	218	1391
Japan	341	544	640	278	1803
Australia	636	473	264	241	1614
India	3	31	11	11	55
Rest of the World (Excl.USSR, E. Europe & China)	31	58	59	23	171
World (Excl. USSR, East Europe & China)	190	214	152	110	666

* = Includes refinery gas, LPG, solvents, petroleum Coke, bitumen and refinery fuel and loss.

Sources: 1. BP Statistical Review of World Energy-June, 1985.
2. World Development Report, 1984 for population.

Note : Figures for India Inserted.

TRENDS IN WORLD PRIMARY ENERGY/CONSUMPTION

(Million Tonnes Oil Equivalent)

YEAR	Oil	Natural Gas	Solid Fuels	Hydro-Electricity	Nuclear Energy	Total
1.	2.	3.	4.	5.	6.	7.
1970	2281.7	928.7	1635.4	305.4	19.8	5171.0
1971	2413.0	996.7	1631.6	317.6	28.0	5386.9
1972	2592.4	1045.0	1629.4	323.3	38.4	5628.5
1973	2798.0	1068.1	1668.4	331.5	49.4	5913.4
1974	2760.3	1088.1	1691.2	343.7	62.4	5945.7
1975	2724.8	1079.4	1709.1	353.3	86.1	5952.7
1976	2894.6	1139.8	1786.7	358.0	105.1	6284.2
1977	2985.9	1161.9	1830.1	371.9	130.4	6480.2
1978	3083.0	1206.2	1863.0	403.1	149.5	6704.8
1979	3125.0	1273.4	1975.7	413.4	153.0	6940.5
1980	3002.0	1296.8	2006.4	421.6	169.4	6896.2
1981	2902.8	1320.7	2002.9	431.6	199.0	6857.0
1982	2824.8	1315.5	2047.1	451.6	218.7	6857.7
1983	2801.4	1325.5	2101.0	475.0	240.3	6943.2
1984	2844.5	1409.9	2179.6	485.4	282.2	7201.6

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

PRIMARY ENERGY/CONSUMPTION IN SELECTED COUNTRIES/AREAS OF THE WORLD - 1970, 1975, 1980, 1983 AND 1984.

(Million Tonnes Oil eqvt.)

COUNTRY/AREA	1970	1975	1980	1983	1984	% Share of total 1984
1.	2.	3.	4.	5.	6.	7.
NORTH AMERICA						
USA	1659.8	1711.8	1842.0	1718.9	1800.5	25.0
Canada	162.7	195.0	226.1	212.0	218.8	3.0
Total North America	1822.5	1906.8	2068.1	1930.9	2019.3	28.0
Latin America	189.9	254.8	330.0	352.5	360.8	5.0
WESTERN EUROPE:						
Austria	21.1	23.4	26.5	24.2	24.9	0.3
Belgium & Luxembourg	48.8	46.7	50.4	44.1	46.3	0.6
Denmark	20.4	18.2	19.5	15.8	16.9	0.2
Finland	15.8	17.4	21.6	21.4	21.7	0.3
France	157.7	171.1	189.3	181.9	187.0	2.6
Greece	10.0	17.0	17.4	17.4	18.1	0.3
Iceland	1.6	2.0	1.9	1.5	1.5	+
Republic of Ireland	6.5	7.1	8.5	8.2	8.2	0.1
Italy	121.9	132.9	145.8	138.5	140.2	2.0
Netherlands	60.5	71.3	73.8	64.8	66.7	0.9
Norway	24.2	28.8	30.4	30.9	32.6	0.5
Portugal	6.6	8.8	11.4	12.0	12.0	0.2
Spain	44.2	61.9	76.5	79.2	79.6	1.1
Sweden	38.3	39.2	41.1	38.3	39.9	0.6
Switzerland	21.4	23.5	26.5	26.6	25.8	0.4
Turkey	12.7	19.7	24.5	28.2	30.7	0.4
United Kingdom	215.3	204.3	203.8	194.2	191.9	2.7
West Germany	236.7	242.6	270.5	251.0	260.9	3.6
Yugoslavia	21.5	32.0	39.9	41.1	42.8	0.6
Cyrus/Gibraltar/Malta	1.0	1.1	1.5	1.6	1.7	+
Total Western Europe	1086.2	1169.0	1280.8	1220.9	1249.4	17.4
Middle East	69.2	94.6	117.1	131.0	136.7	1.9
Africa	91.5	106.2	164.7	188.1	195.5	2.7
Japan	285.1	330.5	359.6	342.4	362.1	5.0
South East Asia	68.8	97.0	147.3	157.6	165.3	2.3
South Asia	91.9	105.7	142.9	173.7	179.8	2.5
Of which India*	64.2	89.4	109.0	134.2	144.0	2.0
Australasia	58.7	71.5	85.9	88.8	93.8	1.3
Total NCW	3763.8	4136.1	4696.4	4585.9	4762.7	66.1
Centrally-Planned Economies(CPEs):						
China	289.7	410.4	518.0	553.3	586.6	8.1
USSR	748.9	969.8	1169.0	1286.5	1322.2	18.4
Others	365.0	436.4	512.8	517.5	530.1	7.4
Total CPEs	1403.6	1816.6	2199.8	2357.3	2438.9	33.9
Total World	5167.4	5952.7	6896.2	6943.2	7201.6	100.0

* = Estimated on the basis of Financial year data (dispatches for coal and oil products), using conversion factors as given in "BP Statistical Review of World Energy-June,1985."

\+ = Less than 0.05.

SOURCE: BP Statistical Review of World Energy.

NOTE : Figure for India Inserted.

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

(Million b/d of oil Equivalent)

COUNTRY	1970		1980		1995	
	Production	Consumption	Production	Consumption	Production	Consumption
1.	2.	3.	4.	5.	6.	7.
I. Industrial Market Economics	43.2	63.1	49.9	74.2	69.1	92.0
Petroleum	12.6	32.1	14.1	36.8	13.5	34.1
Natural Gas	13.1	13.0	13.6	14.6	14.0	17.5
Solid Fuels	12.8	13.3	14.0	14.6	24.9	23.7
Primary Electricity	4.7	4.7	8.2	8.2	16.7	16.7
II. Non-Market Industrial Economics	28.0	27.2	45.0	43.2	63.2	62.5
Petroleum	8.1	7.8	14.8	13.9	15.7	16.3
Natural Gas	3.9	3.9	8.4	8.0	15.9	14.8
Solid Fuels	15.0	14.5	19.7	19.2	25.9	25.7
Primary Electricity	1.0	1.0	2.1	2.1	5.7	5.7
III. Capital Surplus Oil Exporters.	11.8	0.7	17.4	1.6	15.7	3.0
Petroleum	11.7	0.6	16.5	0.9	14.2	1.8
Natural Gas	0.1	0.1	0.9	0.7	1.5	1.2
Solid Fuels	-	-	-	-	-	-
Primary Electricity	-	-	-	-	-	-
IV. Developing Countries	18.0	9.0	22.5	15.9	42.5	33.1
i) Oil Exporters	14.6	2.9	16.9	5.1	29.0	11.1
Petroleum	13.6	2.0	15.0	3.6	21.9	5.9
Natural Gas	0.7	0.6	1.5	1.1	5.7	3.6
Solid Fuels	0.1	0.1	0.1	0.1	0.4	0.6
Primary Electricity	0.2	0.2	0.3	0.3	1.0	1.0
ii) Oil Importers	3.4	6.1	5.6	10.8	13.5	22.0
Petroleum	1.1	3.7	1.0	6.2	1.8	9.0
Natural Gas	0.2	0.2	0.4	0.4	1.5	1.6
Solid Fuels	1.5	1.6	2.6	2.6	5.2	6.4
Primary Electricity	0.6	0.6	1.6	1.6	5.0	5.0
TOTAL WORLD	101.0	100.0	134.8	134.9	190.5	190.6
Petroleum	47.1	46.2	61.4	61.4	67.1	67.1
Natural Gas	18.0	17.8	24.8	24.8	38.6	38.7
Solid Fuels	29.4	29.5	36.4	36.5	56.4	56.4
Primary Electricity	6.5	6.5	12.2	12.2	28.4	28.4
Bunkers & Others						

Average. Annual Growth Rate of World Supplies (%)

	1970-80	1980-85
Total World	2.9	2.3
Petroleum	2.7	0.6
Natural Gas	3.3	3.0
Solid Fuels	2.2	3.0
Primary Electricity	6.5	5.8

SOURCE: World Bank Development Report-1983.

PART—II
PETRO-CHEMICALS
STATISTICS

I. Important Events in the Development of Indian Petro-chemicals Industry During 1984-85

A. ORGANIC INTERMEDIATES

(i) Durgapur Chemicals Ltd.

1984-85 Because of the high prices of the raw material naphthalene, preparation of feasibility reports was entrused to Engineers India Ltd., to examine the possibily of (i) conversion of the existing 3300 TPY 'PAN' naphthalene reactor to orthoxylene feedstock and (ii) setting up a 6600 TPY 'PAN' reactor alongwith balancing equipments using naphthalene/ortho-xylene as feedstocks.

(ii) Herdillia chemicals Limited

1984-85 In April, an in-house computer was commissioned.

In October, two 80 tonnes capacity Ammonia refrigeration units were installed for recovery project.

(iii) Hindustan Polymers Ltd./Mc Dowell Co. Ltd. (Polymer Division)

1984: A Fluidised bed boiler with installed capacity of 45 tons/hr was commissioned.

1985: A Project for improving the quality of Polystyrene by reducing the monomer content was commissioned.

(iv) Indian Petrochemicals Corporation Ltd.

1984: In April, production of four major Acrylates, viz., Methyl Acrylates, Ethyl Acrylates, 2 Hexyl Acrylates and Butyl Acrylates, was commenced on regular basis.

In May, National Safety Council of the United States of America conferred the "Award of Honor" to IPCL for its excellent safety performance shown by accident-free functioning for more than three million man hours. Vinyl Chloride Monomer (VCM) plant was also commissioned during the same month.

In July, Polyvinyl Chloride(PVC) plant with capacity of 55,000 MTA was commissioned.

In September, production of petroleum resins was commenced.

1985: In February, the Seventh National Symposium on Catalysis was organised by the Catalysis Society of India.

Implementation of a Gas Cracker Complex with a capital outlay of Rs.1167 crores at Nagothane in Maharashtra was entrusted by the Govt. of India to IPCL.

(v) The Sirsilk Limited

1984: The Company declared a lock-out and asked for permission to clsoe down the plant due to short supply of power and stoppage of supplies of the basic raw material alcohol by the State Government owing to shortfall in production and higher requirements for potable purposes.

(vi) Mysore Petro-chemicals Ltd.

1984: After some modification, the production capacity for Phthalic Anhydride was increased to 10230 tonnes per annum.

(vii) National Organic Chemical Industries Ltd.

1984: In April, a new safety permit procedure was introduced at the Thane plant.

(viii) Polvchem Limited

1984: The company received the ICAM Award for Forward Development of Technology for 1983.

1985: In March, a letter of intent for setting up a plant for the manufacture of various formulations of Polyvinyl Alcohol (2000 MTPA) and Polyvinyl Acetate (4000 MTPA) for captive consumption was received.

(ix) Union Carbide India Limited

1985: It was decided to sell the Chemicals and Plastics business together with the related technology to Messrs Reliance Textiles Industries subject to statutory approvals.

(x) Bongaigaon Refinery & Petrochemicals Ltd., Assam

1984-85: Xylene and DMT Plants of the petrochemicals complex were mechanically completed and test run was undertaken.

(xi) Somaiya Organics (India) Ltd.

1984: An additional Acetaldehyde plant based on oxidation process was installed and commissioned.

Butanol Balancing Equipment was also installed and commissioned during the year.

B. PLASTIC RAW MATERIALS

(i) Alkali & Chemicals Corporation Industries Ltd./Indian Explosives Limited

1984: The company was amalgamated with Indian Explosives Ltd. alongwith the company Chemicals & Fibres of India Ltd. and the activities of the company were taken over by the Chemicals Division of the company Indian Explosives Ltd.

(ii) Bakelite Hylam Limited

1984: A new brand of thin low priced decorative laminate 'Decolite' was successfully launched by the company.

(iii) Chemicals & Plastics India Ltd.

1984: On 11th November, shore terminal facility for handling imported EDC, including EDC storage tank of 7500 tonnes capacity and 3.5 KM long pipelines, was commissioned at Tuticorin.

(iv) Plastic Resins & Chemicals Ltd.

1984: The plant was working at the full rated capacity.

(v) Indian Plastics Limited

1984: A special foundry resin, an import substitute to ACME resin was developed and commercialised for Wheel and Axle Plant. Some new rubber grade resins were also introduced during the year.

(vi) Polyolefins Industries Limited

1984: Foreign collaboration with MONSANTO Co. of USA, for manufacture of N (Cyclohexylthio) Phthalimide (PVI) upto 500 tonnes per annum, was approved by the Government.

Letter of intent for increasing the production capacity of HDPE Plant from 30,000 MTA to 50,000 MTA, was issued by the Government.

(vii) The Industrial Plastics Corporation Ltd./BM. Thakkar & Co. Private Ltd.

1985: On 8th February, M/s The Industrial Plastics Corporation Pvt. Ltd.(Tipco) was amalgamated with B.M. Thakkar & Company Private Ltd.

(viii)The Mysore Acetate & Chemicals Company Ltd.

1984 For the first time the company made a profit by achieving highest turnover of around Rs. 8 crores leading to a profit of about Rs. 5 lakhs.

(C) SYNTHETIC FIBRES

(i) Calico Polyster Fibre Division

1984: The Polycondensation unit of the Batch plant was reconstructed and recommissioned.

Imported equipment for the Doubling plant was received from M/s Zimmer of Germany.

(ii) Baroda Rayon Corporation Ltd.

1984: Industrial licence for expansion of Nylon Industrial Yarn/Tyre Cord (including Tyre Fabric) capacity from 2000 tonnes to 4000 tonnes per annum was received.

(iii) Century Enka Limited

1984: A letter of intent for setting up a 1700 tonnes per annum capacity plant for the manufacture of Tyre Cord fabric was received.

Approval for import of two Diesel Generating sets of 5000 KVA each was received from the Government.

(iv) Chemicals and Fibres of India Ltd.

1984: The amalgamation of the company with Indian Explosives Ltd. and Alkali & Chemicals Corporation Ltd. was completed.

(v) Garware Nylon Ltd.

1984-85: An import licence for import of capital goods for Nylon industrial/tyre cord project was received.

A letter of intent, Government's approval and the MRTP clearance for setting up Industrial Tyre Fabric Plant of 1700 tonnes per annum capacity at Sarole was received.

(vi) Indian Organic Chemicals Ltd.

1985: Letters of intent for the manufacture of 35000 tonnes per annum of Polyester Filament Yarn and to increase the capacity of Polyester Staple Fibre to 30,000 tonnes per annum, were received.

(vii) J.K. Synthetics Limited

1984: Clearance for import of capital goods for Nylon Tyre Cord expansion project was received and technical collaboration contract with M/s Tongyang Nylon Co., Korea for the manufacture of Nylon Tyre Yarn and Nylon Tyre Cord fabrics was taken on record.

Received letter of intent for manufacture of wind generators for an annual capacity of 50 MW and solar plate collectors for an annual capacity of 25,000 units.

Industrial licence for expansion of Nylon Filament Yarn capacity up to 6000 tpa, was received.

1985: Industrial licence for expansion of Acrylic Fibre capacity upto 16,000 tpa, was received.

(viii) Modipon Limited

1984: Applied for re-endorsement of the licensed capacity for Nylon Filament Yarn from 4760 MT per annum to 6947 MT per annum as per the Re-endorsement Scheme announced by Govt. of India.

Applied for re-endorsement of the licensed capacity for Polyester Filament Yarn from 1723 MT per annum to 5332 MT per annum as per the re-endorsement Scheme announced by Govt. of India.

1985: Merger of Indofil Chemicals with Modipon Limited which was sanctioned by Company Law Board, was pending for approval with the Controller of Capital Issues and High Courts.

(ix) Nirlon synthetic Fibres & Chemicals Ltd.

1984: Industrial licence for expansion of Nylon Tyre Cord fabric capacity from 1860 tonnes to 4000 tonnes per annum was received.

Government's approval for import of Technical know-how for Nylon Tyre Cord was also received.

1985: Industrial licence for expansion of Nylon capacity from 5308 tonnes to 6000 tonnes and that of Nylon Tyre Cord from 4000 tonnes to 5000 tonnes per annum, was received.

Government's approval for technical collaboration with Zimmer A.G. West Germany for Nylon Tyre Cord through spin-draw process, was also obtained.

(x) Shriram Fibres

1984: Additional facilities for expansion of Nylon Fabric and Tyre Cord/Industrial Yarn fabrics were installed.

1985: In February, letter of intent for manufacture of 2000 MTA of Polyester Industrial Yarn was received.

(xi) Shree Synthetics Limited

1984: Expansion scheme for increasing the Nylon Yarn production capacity from 3452 tonnes to 6000 tonnes per annum was taken in hand.

MRTP clearance for increasing the licenced capacity of Polyester Yarn from 576 tonnes to 2056 tonnes per annum was received.

(xii) Swedeshi Polytex Limited

1984: The company entered into foreign collaboration with Chemtex Fibres Inc. USA for acquiring ICI technology for implementing its expansion project for increasing production capacity of Polyester Staple Fibre from 6100 MT to 12,200 MT per annum.

(xiii)Petrofils Cooperative Limited

1984: Five of the two for one uptwisters were erected, and commissioned in August-September.

1985: Five of the two for one remaining uptwisters were erected and 3 of them were commissioned in March.

(D) SYNTHETIC RUBBER

(i) Synthetic And Ghemicals Ltd.

1984: An application for IDBI soft loan for modernisation/revamping of the plant was submitted to Central Financial Institutions.

Industrial licence applications were submitted to the Govt. for the following projects :

a) SBR expansion from 30,000 MTPA to 70,000 MTPA.
b) Manufacture of 18,000 MTPA of Polystyrene.
c) Manufacture of 40,000 MTPA of HDPE/LDPE.
d) Manufacture of 30 million litres/year of Ethyl-alcohol.
e) Automatic growth @ 25% for SBR.

1985: The scheme for the import of foreign consultancy under TDF scheme for revamping of Styrene Plant was approved by the Government.

Action for import of petro-butadiene to supplement short supplies of alcohol was initiated.

II. CAPACITY

Licensed/Installed Capacity of Selected Petro-chemicals in India as on 1.4.1985.

(Tonnes Per Annum)

PRODUCT	Licensed Capacity		Installed Capacity	
	No.of Units	Capacity	No.of Units	Capacity
ORGANIC CHEMICALS:				
Benzene	12	199060	11	138060
Butadiene	3	54400	3	54400
Butyl Acetate	4	8790	4	8790
Butyl alcohol(Butanol)	4	14190	4	14190
Diacetone Alcohol	2	7800	2	7800
Diethylene Glyool	2	3200	1	700
Dichlore Ethane	1	3000	1	3000
Dripolene A+B	1	5000	1	5000
2 Ethyl Hexanol	2	11600	2	11600
Ethylene Oxide	2	19000	2	19000
Monoethylene Glycol	2	30000	2	30000
Methyl Isobutyl Ketone	1	3700	1	3700
Isopropanol	1	2500	1	2500
Phthaltic Anhydride	6	41800	6	35800
Polyethylene Glycol	2	1750	1	1500
Propylene	3	120300	3	120300
Styrene	3	38936	3	38936
Toluene	10	41755	9	25755
D.M.T.	3	125000	3	125000
Ortho-xylene	2	27000	1	21000
Para-xylene	2	43000	1	17000
Mixed-xylene	1	2500	1	2500
Vinyl Chloride(M)	5	14200	5	92600
Caprolactum	1	20000	1	20000
Ethylene	3	213000	3	213000
CBFS	1	17900	1	17900
Acrylonitrile	1	24000	1	24000
Linear Alkyl Benzene	1	30000	1	30000
SYNTHETIC FIBRES:				
Nylon Filament Yarn	10	44064	9	30030
Nylon tyre Cord	7	27535	5	15490
Polyester Filament Yarn	11	57161	10	36711
Polyester Staple Fibre	8	112500	5	36925
Acrylic Staple Fibre	2	28000	2	16000
Synthetic Rubber:				
Synthetic Rubber	-	-	-	-
Plastic Raw Material Thermosets:				
M.F. Moulding Powder	4	1740	4	1740
P.F. Moulding Powder	3	6861	3	6861
U.F. Moulding Powder	7	7296	7	7296
C.A. Moulding Powder	2	7200	2	7200
Thermo-Plastics:				
Polyethylene H.D.	1	30000	1	30000
Polyethylene L.D.	3	121906	3	121906
Polystyrene	2	26156	2	26156
PVC Resin	6	197000	6	139400
Poly Propylene	1	30000	1	30000

III. PRODUCTION

PRODUCTION OF SELECTED PETRO-CHEMICALS IN INDIA 1970 - 1984

(Tonnes)

PRODUCT	1970	1975	1980	1982	1983	1984*
1.	2.	3.	4.	5.	6.	7.
ORGANIC CHEMICALS:						
Benzene	49228	70737	83030	92524	101311	112853
Butadiene	18482	15154	15061	23112	23540	30112
Butyl Acetate	2529	3781	3684	3822	3983	3617
Butyl alcohol	3445	5582	8521	9719	11256	11728
Diethylene Glycol	411	732	4167	3800	4117	4237
Diacecetone Alcohol	2418	2336	241	382	369	559
Dichlore Ethane	634	29361	27079	33150	33737	40186
Dripolene A+B	4423	3615	4375	3992	4250	4617
2 Ethyl Hexanol	6380	7822	6891	6713	3911	9297
Ethylene	52068	66326	121330	163949	164753	194449
Ethylene Oxide	1403	10340	10482	13497	15472	20199
Monoethylene Glycol	4998	7719	9375	16375	17414	21893
Methyl Isobutyl Ketone	1131	866	495	702	1277	1780
Isopropanol	1594	1352	2140	2238	3239	2360
Phthalic Anhydride	7256	5653	22605	27242	31696	32823
Polyethylene Glycol	543	860	870	917	929	1037
Propylene	5494	33299	62608	84056	86283	100079
Styrene	-	15691	19976	19600	26146	27527
Toluene	7838	13407	21271	20121	24279	23504
D.M.T.	-	15553	25305	23242	26397	24923
Ortho-Xylene	-	3933	18379	12382	18838	17587
Para-Xylene	-	9919	14470	9994	13595	13057
Mixed-Xylene	-	3962	2497	5064	3228	3314
Vinyl Chloride(M)	-	16071	14592	18697	23437	26257
Caprolactum	-	13832	13943	10622	15270	16242
CBFS	-	-	4515	8291	8294	11063
Acrylonitrile	-	-	6808	16941	15736	21508
Linear Alkyl Benzene	-	-	16772	26969	24367	24873
SYNTHETIC FIBRES:						
Acrylic Fibre	-	174	7674	16246	14623	20498
Nylon Filament Yarn	9797	13581	19994	26494	27311	32135
Nylon Indl.Yarn/Tyre Cord	68	3831	11113	16130	15962	19308
Polyester Staple Fibres	5333	14315	22664	28314	25832	34693
Polyester Filament Yarn	574	2233	9246	19074	44587	54210
Synthetic Rubber:						
Styrene Butadiene Rubber	30339	22958	16361	14420	18892	21584
Polybutadiene Rubber	-	-	6264	14652	12536	16219
Plastic Raw Material and Thesmoplastics						
C.A. Moulding Powder	1003	1003	256	592	751	869
M.F. Moulding Powder	83	106	221	367	438	577
P.F. Moulding Powder	3237	3592	4657	4293	4568	4669
U.F. Moulding Powder	1589	1764	2891	2924	3338	3217
Polyethylene L.D.	23215	27835	77014	105248	98312	109317
Polyethylene H.D.	18346	2297	20943	30983	33419	38805
Polystyrene	8708	9091	10527	10396	15025	16227
PVC Resin	38552	42884	37068	39796	55363	79699
Poly Propylene	-	-	12074	23556	23839	27403

* Provisional.

PRODUCTION OF SELECTED PETRO-CHEMICALS IN INDIA 1970-71 - 1984-85

(Tonnes)

PRODUCT	1970-71	1975-76	1980-81	1982-83	1983-84	1984-85*
1.	2.	3.	4.	5.	6.	7.
ORGANIC CHEMICALS:						
Benzene	53190	71224	79726	100093	103468	112197
Butadiene	18183	16323	18070	25408	24851	29209
Butyl Acetate	2691	3703	3860	3910	4084	3287
Butyl alcohol	4231	5587	8844	10740	11076	11965
Diethylene Glycol	527	681	249	425	381	624
Diacetone Alcohol	2572	2351	4099	3971	4246	4245
Dichlore Ethane	642	24557	31150	33853	35352	36724
Dripolene A+B	4476	3730	4852	4119	4372	4961
2 Ethyl Hexanol	7938	8340	6610	7881	3994	8211
Ethylene	58668	64257	139846	170274	172600	193013
Ethylene Oxide	1513	9921	11787	14677	16807	20561
Monoethylene Glycol	4500	7287	11989	17361	18018	23101
Methyl Isobutyl Ketone	1236	960	460	1033	1358	1845
Isopropanol	1650	1346	2501	2623	2927	2764
Phthalic Anhydride	7984	6429	23081	29934	30721	34422
Polyethylene Glycol	563	872	2227	962	938	1059
Propylene	5663	32766	72691	89152	89530	97957
Styrene	-	16436	19524	21664	27560	26845
Toluene	8385	15292	19012	19799	22968	26708
D.M.T.	-	19018	23136	22835	25063	26564
Ortho-Xylene	-	7888	18059	13632	18462	17430
Para-Xylene	-	12412	13221	10486	13124	12879
Mixed-Xylene	-	4336	2844	4115	3824	3764
Vinyl Chloride(M)	-	13816	16759	19766	25402	23723
Caprolactum	-	13270	13089	13247	15857	16272
CBFS	-	-	5881	8682	8617	11316
Acrylonitrile	-	-	9326	17961	16477	19500
Linear Alkyl Benzene	-	-	17062	27788	17527	29517
SYNTHETIC FIBRES:						
Acrylic Fibre	-	-	10275	16157	16589	20962
Nylon Filament Yarn	9338	14037	20822	25675	30298	32736
Nylon Indl.Yarn/Tyre Cord	440	4000	11766	15507	16775	20150
Polyester Staple Fibres	5423	16018	22381	25970	26862	38968
Polyester Filament Yarn	602	2297	10707	24360	48453	55692
Synthetic Rubber:						
Styrene Butadiene Rubber	29791	25195	18968	14580	21109	21500
Polybutadiene Rubber	-	-	6469	16176	11468	16603
Plastic Raw Materials and Thermo-plastics						
C.A. Moulding Powder	1084	1133	324	692	720	850
M.F. Moulding Powder	78	120	214	386	456	650
P.F. Moulding Powder	3286	3665	4794	4290	4793	4620
U.F. Moulding Powder	1735	1887	2845	2938	3303	3260
Polyethylene L.D.	24437	27635	87154	106148	99687	107149
Polyethylene H.D.	21153	20018	24293	32702	36215	38918
Polystyrene	8925	9203	10205	12580	15308	15838
PVC Resins	41472	43818	42050	41648	64002	83157
Poly-Propylene	-	-	16729	24048	24348	27303

* Provisional.

IV. S A L E S / C O N S U M P T I O N.

Estimated/Consumption of Selected Petro-chemicals.

(Qty. Tonnes)

P R O D U C T S	1970-71	1979-80	1980-81	1981-82	1982-83
1.	2.	3.	4.	5.	6.
Benzene	53209	95909	79746	81677	100093
Butadiene	18183	21766	18070	22720	25408
Diethylene Glycol	527	411	249	339	425
Diehlore Ethane	642	33528	31150	23604	33853
Ethylene	58668	126537	139846	147754	170274
Ethylene Oxide	1513	22134	11787	11426	14677
Ethylene Glycol	4805	13647	13230	16908	19758
2 Ethyl Hexnol	7938	8564	6610	6959	7881
Isopropanol	1650	2077	2504	1823	2623
M.I. Ketone	1236	712	7732	1498	1329
Phthalic Anhydride	13275	24041	26040	12309	30175
Propylene	5663	6608	72091	67638	89152
Polyethylene Glycol	563	1181	1227	712	962
Styrene	-	27781	19514	15963	21664
Toluene	8327	23894	19084	25365	19802
Plastics Raw Materials.					
M.F. Moulding Powder	78	245	214	328	386
P.F. Moulding Powder	3367	4753	5214	4718	4610
U.F. Moulding Powder	1663	3071	2870	3246	2932
C.A. Moulding Powder	1170	689	5387	435	735
Polyethylene L.D.	22988	73631	90544	96413	107240
Polyethylene H.D.	13590	62706	59624	57686	73945
Polystyrene	8189	12457	10552	9504	12580
PVC Resins	41452	81953	107768	101505	104978
Synthetic Fibre					
Acrylic Fibre	195	5748	20936	13715	17569
Nylon Filament Yarn	9338	19858	2289	27768	27345
Nylon Indl.Yarn/Tyre Cord	440	11194	11768	14423	15507
Nylon Polymides/staple Fib	117	129	-	415	-
Polyester Staple Fibre	602	17783	17763	35039	43093
Polyester Filament Yarn	14166	33039	26399	32277	34923
Synthetic Rubber*	21731	47969	40093	59359	55913

NOTE: Estimated Consumption = production + imports - exports.

* Includes imports and exports of Natural & reclaimed rubber also.

V. PRICES

Trends in Ex-Factory Prices of Caprolactum DMT Mono-Ethylene Glycol.

(Rs./Tonnes)

Years	Months	Ex-Factory Prices (Exclusive of Duties & Taxes)				
		Caprolactum		Mono-Ethylene Glycol		
		Used for Filament upto 225 Denier	Used for Tyre Cord & Nylon Yarn (above 225 Denier)	DMT	Bulk	Packed
1975	April	22000	22000	16000	7100	7900
	December	21334	21334			
1976	January				7750	8350
1977	January			12000		
	April			11000		
	October	17147	17147			
1978	January	16000	16000			
	March				7650	8450
	September	16000	13500			
1979	April	17000	16000			
	May	21334	20026	15000		
	June				7650-7750	8750
	August	22174	20813	16000	10900-11000	11900-12000
	August 17	23900	22431			
1980	January	25900	25900			
	April					12300
	June	26480	26480		12000-12700	13400-14100
	Agust 5	22000	22000			
1981	January				12800-13300	14100-14700
	September	23850	23850		13800-14050	15300-15500
1982	April	24162	24162			
	September				13800-14350	15300-15850
	November	24475	24475			
1983	April			16500	14500-14650	15800-16300
	September	25000	25000			
	October			17000		
	December					
1984	April			17500		
1985	March	29000	29000	19000	15500-15650	16800-17300

SOURCE: Hand Book of Statistics on Man-made/Synthetic Fibre/Yarn Industry brought out by Association of Synthetic Fibre Industry.

Ex-works Prices of Selected Petro-chemicals Excluding Excise Duty

(Rs./MT)

ITEM	Manufacture	Grade	1-4-81	1-4-82	1-4-83	1-4-84	1-4-85
1.	2.	3.	4.	5.	6.	7.	8.
1. Dioctyl Phthalate (DOP)	IOC		17880	16630	18240	18720	23520
	HCL		20900	19900	18900	19400	24000
2. Dibutyl Phthalate	IOC		20770	18580	20240	20270	26310
3. Ethylene Oxide	NOCIL*		N.A.	18400	18600	18600	19600
4. Ethylene Glycol	NOCIL*		N.A.	14050	14350	14650	15850
5. 2-Ethyl-Hexanol	NOCIL*		N.A.	18750	18750	18750	19750
	UCI		19250	25600	2280		
6. High Density Polythylene	Polyolefins Industries Ltd.	Natural Colour	15078	14289	13389	15722	17734
			15949	15949	14587	17367	19379
7. Low Density Polythylene(LDP)	UCI@	Colour Grade	22000	22000	21700	21700	24900
	ACCI@		22000	18250	N.A.	18750	
8. Phthalic Anhydride	Durgapur chemicals		11700	11300	12900	13000	13200
	HCL		12350	13150	14100	14100	15300
9. PVC Resin	NOCIL*		N.A.	9000	9500	11000	12700
10. PVC Suspension Resin	Chemical & Plastics Ltd.		15500	12000	13000	10969	12797
	ILAC		9400	9400	N.A.	11000	
11. PVC Compound	NOCIL*		N.A.	19850	22550	22550	24500
12. PVC Plastic Resin	Chemicals & Plastics		19000	17750	18750	15174	16819
	ILAC		12400	12400	N.A.	16000	
13. PVC Copolymer Resin	Chemicals & Plastics Ltd.		17500	17500	19000	15722	
14. Polystyrene	Polychem	General purpose	N.A.	20250	20250	21000	29250
	HPL@	-do-	26300	26800	21700	23800	28500
15. Polystyrene	HPL@	High impact	27500	28000	24900	25400	30100
16. Styrene Butadiene Rubber	S&CL	S-1502	17500	18400	18400	20240	23500
		S-1712	15600	16400	16400	18150	21100
		S-1958	21800	22150	22150	23900	27250

@ = Prices are inclusive of the Excise Duty.
* = Prices are inclusive of Marketing charges.

AVERAGE BOMBAY MARKET PRICE QUOTATION OF SYNTHETIC FIBRES/YARN

(Rs/Kg)

Denier	1975	1980	1981	1982	1983	1984	1985(Jan-March)
1.	2.	3.	4.	5.	6.	7.	8.
1. NYLON FILAMENT YARN							
12-1-0-SD	139.76	166.73	184.17	172.46	-	-	-
20-1-0-SD	134.24	146.07	157.98	157.25	188.29	158.49	177.19
30-10-0-SD	131.41	158.34	149.79	157.50	-	-	-
40-10-0-SD	124.77	134.50	145.79	137.32	156.90	143.48	156.91
111-24-0-SD	102.19	107.87	117.90	110.59	122.44	111.41	125.92
2. POLYESTER FILAMENT YARN							
76-24-0	197.53	142.65	168.90	156.35	169.92	179.30	194.79
76-34-0	199.12	141.85	169.16	154.20	166.43	-	-
76-36-0	194.61	143.30	172.02	159.18	169.32	-	-
150-36-0	N.A.	121.95	144.32	126.83	132.21	-	-
3. POLYESTER STAPLE FIBRE							
1.2 D	74.55	77.37	87.12	85.98	87.77	87.79	91.75
1.5 D	74.27	76.12	87.92	86.74	86.37	87.14	91.33
2.0 D	72.33	75.42	86.49	85.56	86.76	86.46	91.47

SOURCE: Hand Book of Statistics on Man-made/Synthetic Fibre/Yarn Industry brought out by Association of Synthetic Fibre Industry.

VI. EXCISE AND CUSTOMS DUTIES

REALISATION OF EXCISE & CUSTOM DUTIES FROM PETRO-CHEMICALS AND PETRO-BASED ITEMS

(Rs/Crores)

PRODUCTS	ACTUALS					1984-85	1985-86
	1979-80	1980-81	1981-82	1982-83	1983-84	(RE)	(BE)
1.	2.	3.	4.	5.	6.	7.	8.
EXCISE DUTIES:							
1. Plastics	110	123	138	140	157	197	229
2. Synthetic Ornanic Dyestuffs	42	42	43	48	51	57	62
3. Carbon Black	7	10	12	15	18	19	22
4. Man-made Fabrics	5	6	9	11	13	13	14
5. Man-made Fibre and Yarn including Man-made Filament Yarn	363	425	527	556	870	1036	1118
6. Synthetic Rubber	2	4	4	6	7	9	9
T O T A L (A):	529	610	733	776	1116	1331	1454
CUSTOM DUTIES:							
7. Artificial resins, Plastic materials and articles thereof	108	142	178	226	231	280	320
8. Yarn of man-made fibres	98	160	217	246	141	107	115
9. Man-made fibres and filament tow	97	92	103	145	105	75	90
T O T A L (B):	303	394	498	617	477	462	525
GRAND TOTAL (A+B):	832	1004	1231	1393	1593	1793	1979

Figures rounded to nearest crores.

SOURCE: Budget Papers of the Central Government.

EXCISE DUTY RATES FOR SELECTED PETRO-CHEMICALS AS ON 16.3.1985/1.4.1985.

PRODUCT	Unit	Basic Duty	Spel. Duty	Addl. Duty	Total
A. ORGANIC CHEMICALS					
Acrylonitrile	Adv.	12%	--	--	12%
Di octyl Phthalate (DOP)	Adv.	12%	--	--	12%
Di-Butyl Phthalate (DBP)	Adv.	12%	--	--	12%
Butadiene	Adv.	12%	--	--	12%
Ehtylene *	Adv.	12%	--	--	12%
Ethylene Oxide*	Adv.	--	--	--	--
Linear Alkyl Benzene*	Rs./KL	450	--	--	450
Monoethylene Glycol*	Adv.	12%	--	--	12%
Polyethylene Glycol*	Adv.	12%	--	--	12%
Polystyrene*	Adv.	15%	5%	--	15.75%
Propylene(PG&CG)*	Adv.	12%	--	--	12%
Para/orthoxylene*	Rs./KL	450	--	--	450
Caprolectum	Adv.	15%	--	--	15%
Ethylene Glycol	Adv.	12%	--	--	12%
2 Ethyl Hexanol	Adv.	--	--	--	--
Pathalic Anhydride	Adv.	12%	--	--	12%
Styrene Monomer	Adv.	12%	--	--	12%
B. SYNTHETIC FIBRES					
Acrylic Fibre	Rs./Kg.	17.50	--	--	17.50
Nylon Filment Yarn					
750 Denier & below	Rs./Kg.	70.00	--	--	70.00
Above 750 Denier	Rs./Kg.	8.13	--	--	8.13
Polyester Filment Yarn					
All Deniers (including P.O.Y.)	Rs./Kg.	83.75	--	--	83.75
Polyester Texturised Yarn					
All Deniers	Rs./Kg.	83.75	--	--	83.75
Polyamide (Nylon) Texturised Yarn					
750 Denier & below	Rs./Kg.	70.00	--	--	70.00
Above 750 Denier	Rs./Kg.	8.13	--	--	8.13
Polyester Staple Fibre					
i) General	Rs./Kg.	45.00	--	--	45.00
ii) if produced from D.M.T. recovered by the process of recyling of wastes.	Rs./Kg.	33.75	--	--	33.75
C. PLASTIC RAW MATERIALS & THERMOSETS					
M.F. Moulding Powder	Adv.	15%	5%	--	15.75%
PF Moulding Powder	Adv.	15%	5%	--	15.75%
UF Moulding Powder	Adv.	15%	5%	--	15.75%
CA Moulding Powder	Adv.	10%	5%	--	10.50%
Polyethylene L.D.	Adv.	30%	5%	--	31.5%
Polyethylene H.D.	Adv.	35%	5%	--	36.75%
Polystyrene	Adv.	15%	5%	--	15.75%
PVC Resins	Adv.	35%	5%	--	36.75%
Polypropylene	Adv.	27%	5%	--	28.35%
D. SYNTHETIC RUBBER					
Polybutadience Rubber	Adv.	10%	10%	--	11%
Styrene Rubber	Adv.	10%	10%	--	11%

* Represents duty rates as applicable to IPCL

@ It manufactured from duty paid raw naphtas or chemical derived there from.

Note:- The specific rates are at 15° C.

Customs Duty Rates For Selected Petro-chemicals as on 16.3.1985/ 1.4.1985

PRODUCT	Basic Duty	Auxilary Duty	Counter Vailing Duty			TOTAL
			Basic	Special % of Basic	Others CVD	
1.	2.	3.	4.	5.	6.	7.
			ORGNANIC CHEMICALS			
Acrylonitrile	70%	40%	12%	--	--	135.2%
Caprolactum	75%	15%	15%	--	--	118.5%
Di-Octyl Phthalate	70%	40%	12%	--	--	135.2%
DMT	100%	40%	--	--	--	140%
Mono-Ethylene Glycol	70%	40%	12%	--	--	131%
Linear Alkyl Benzene	70%	25%	Rs.450/KL	--	--	100%+Rs.450/KL
Ortho-xylene	40%	30%	Rs.450/KL	--	--	70%+Rs.450/KL
Para-xylene	40%	30%	Rs.450/KL	--	--	70%+Rs.450/KL
Phthalic anhydride	70%	40%	12%	--	--	135.2%
TPA	100%	40%	--	--	--	140%
			SYNTHETIC FIBRES			
Acrylic Fibre	110%+Rs.12.50/Kg.	30%	Rs.17.50/Kg.	--	--	140%+Rs.30/Kg.
Acrylic Filament Yarn	100%+Rs30/Kg	30%	--	--	--	130%+Rs.30/Kg.
Nylon Filament Yarn	100%	40%	@	--	--	
Nylon Tyre Yarn	100%+11/Kg.	30%	@	--	--	
Polyester Filament Yarn	200% + Rs.15Kg.	25%	@@	--	--	
Polyester Staple Fibre	145% + Rs.9/Kg	30%	Rs.45/Kg.	--	--	125%+Rs.54/Kg.
			PLASTIC RAW MATERIALS			
M.F. Moulding Powder	150%	40%	15%	5%	--	235.68%
PF Moulding Powder	150%	40%	15%	5%	--	235.68%
Nylon Moulding Powder	150%	40%	15%	5%	--	235.68%
UF Moulding Powder	150%	40%	15%	5%	--	235.68%
CA Moulding Powder	100%	40%	40%	5%	--	240.80%
LDPE	100%	30%	40%	5%	--	226.60%
HDPE	50%	30%	40%	5%	--	155.60%
Polystyrene						
i) Preferred Sources	75%	40%	15%	5%	--	148.86%
ii) Non preferred Sources	150%	40%	15%	5%	--	235.67%
Polypropylene	65%	35%	27%	5%	--	156.70%
PVC Resins						
i) Preferred Source	75%	--	35%	5%	--	139.31%
ii) Non preferred Source	150%	--	35%	5%	--	241.88%
			SYNTHETIC RUBBER			
Polybutadiene Rubber	40%	30%	10%	10%	--	88.70%

@ = As per excise duty rates.
$ = 32.50% when imported from Yugoslavia or UAR.
@@ = Upto 750 Denier C.V.D. is same as of Excise Duty and above 750 Denier Rs.18.75 per Kg.
* = When imported from countries like Korea, Yugoslavia, Paraguay, Uraguay Spain etc.

VII. IMPORTS/EXPORTS

IMPORTS OF SELECTED PETRO-CHEMICALS

(Qty. Tonnes: Value Rs. in Lakh)

Products	1975-76		1980-81		1981-82		1982-83	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty	Value
1	2	3	4	5	6	7	8	9
A. Organic Chemicals								
Acrylonitrile	-	-	38	5	-	-	-	-
Benezene	1191	48.2	40	9	17	2	-	-
Butyl Alcohol	28	2.7	30	4	83	9	232	24
Butyl Acetate	161	14.5	57	7	119	13	50	6
DMT	248	13.0	84	7	2	1	4114	419
Epsilon Caprolactum	1985	200.2	21395	3210	16108	3471	28917	3976
Ethylene Glycol	157	13.7	1250	105	1417	108	2397	175
Ethylene Alcohol Undenatured	Neg.	0.1	12	1	-	-	-	-
Methyl Isobutyl Ketone	-	-	272	26	1060	96	296	33
Ethyl Alcohol denatured	1	0.3	36	5	6134	238	14	2
Phthalic Anhydride	6502	207.8	2959	154	1658	99	241	21
Toluene	4	0.3	69	5	-	-	3	1
B. Plastic Raw Materials								
C.A. Moulding Powder	332	30.3	63	6	144	14	43	4
P.F. Moulding Powder	1	0.5	421	34	162	12	320	28
Polyethylene L.D.	7376	311.9	4063	314	2121	192	1099	96
Polyethylene H.D.	1512	84.0	36939	2785	25963	1770	41249	3238
Polystyrene Moulding Powder	416	27.0	347	32	1863	156	2975	303
PVC Resins	405	26.9	66355	4203	64490	3741	63331	3431
UF Moulding Powder	83	3.9	25	4	3	1	-	-
C. SYNTHETIC FIBRES								
Acrylic Fibre	3163	380.2	661	102	123	24	1412	246
Acrylic Filament Yarn	-	-	7	2	2	2	5	6
Nylon Filment Yarn	2853	587.0	1481	483	4461	897	1677	493
Polymide Fibres	356	60.9	87	17	415	77	128	39
Polyester Filament Yarn	2159	274.0	11072	2151	19670	4309	18733	4483
Syn. & Regenerated Fibre	-	-	63427	8859	103464	15542	79409	11771
Polyester Staple Fibre	541	66.9	4018	568	2570	421	8953	1267
D. Synthetic Rubber								
Crude & Syn. Rubber	6391	651.6	16635	2140	30487	3953	25174	3800

Neg. = Negligible.

Source: Directorate General of Commerical Intellegence & Statistics, Calcutta.

EXPORTS OF SELECTED PETRO-CHEMICALS

(Qty. Tonnes:Value Rs.in Lakh)

Products	1975-76		1980-81		1981-82		1982-83	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty	Value
1	2	3	4	5	6	7	8	9
A. Organic Chemicals								
Benzene	3	0.1	-	-	-	-	-	-
Ethyl Alcohol (Undenatured)	-	-	-	-	-	-	-	-
B. Plastic Materials								
PF Moulding Powder	5	0.3	-	-	-	-	-	-
Polyethylene LD	-	-	-	-	1	1	7	3
Polyethylene HD	51	5.6	-	-	9	3	6	1
Polystyrene Moulding Powder	9	2.8	-	-	1	1	16	4
PVC Resins	-	-	1	1	22	4	-	-
UF Moulding Powder	31	1.6	-	-	7	1	6	1
C. Synthetic Fibres								
Nylon Tyre Card	-	-	-	-	-	-	-	-
Nylon Filament Yarn	-	-	16	5	76	31	7	11
Acrylic Filament Yarn	-	-	1	1	5	4	24	13
Syn. & Regenerated Fibre	15	0.6	-	-	154	17	2	2
D. Synthetic Rubber								
Crude & Syn. Rubber	-	0.3	4	1	-	-	17	6

Source: Directorate General of Commerical Intellegence & Statistics, Calcutta.

VIII. INTERNATIONAL STATISTICS

WORLD PRODUCTION ON OF TEXTILE FIBRES

('000' Million Tonnes)

YEAR	MAN-MADE FIBRES						MAN MADE FIBRES TOTAL	RAW COTTON	RAW WOOL	RAW SILK	GRAND TOTAL
	CELLULOSIC			SYNTHETIC							
	Yarn	Staple	Total	Yarn	Staple	Total					
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
1950	874	738	1612	54	15	69	1681	6647	1057	- 19	9404
1955	1042	1236	2278	184	82	266	2544	9492	1265	- 29	13330
1960	1131	1476	2607	417	285	702	3309	10113	1463	- 31	14916
1970	1393	2043	3436	2363	2337	4700	8136	11782	1602	- 41	21561
1975	1136	1823	2959	3763	3590	7353	10312	11757	1538	- 47	23654
1976	1188	2022	3210	4128	4473	8601	11811	12480	1487	- 48	25826
1977	1172	2109	3281	4312	4837	9149	12430	13841	1488	- 49	27808
1978	1167	2151	3318	4603	5431	10034	13352	12897	1528	- 51	27828
1979	1176	2195	3371	4889	5712	10601	13972	14080	1576	- 55	29683
1980	1161	2081	3242	4732	5744	10476	13718	13991	1604	- 56	29369
1981	1104	2100	3204	4809	6018	10827	14031	15343	1625	- 57	31056
1982	1025	1917	2942	4486	5654	10140	13082	14641	1623	- 55	29401
1983	1038	1975	3013	4868	6234	11102	14115	14525	1606	55	30301
1984(Production Capacity)	1277	2307	3584	6465	7955	14420	18004	-	-	-	-
1985(Production Capacity)	1283	2487	3770	6796	8579	15375	19145	-	-	-	-

Source:- Hand Book of Statistics of Man-made/Synthetic Fibre/Yarn Industry brought out by Association of Synthetic Fibre Industry.

Production of Plastics & Resins in Selected Countries of the World - 1971-81.

('000'Metric Tonnes)

Country or Area and Product	1971	1975	1978	1979	1980	1981
1.	2.	3.	4.	5.	6.	7.
Australia (Total)	255.6	362.4	494.4	618.0	709.2	
Belgium						
Condensation	40.6	42.0	-	-	-	-
Polymerization	410.4	615.6	-	-	-	-
Others	21.2	20.9	-	-	-	-
Czechoslovakia(Total)	270.0	427.2	810.0	853.2	894.0	913.2
Condensation	14.0	25.2	28.0	29.9	31.2	32.2
Alkyd Resins						
Amino Plastics	2.3	2.0	2.2	2.1	2.2	2.5
Phonoplasts	15.6	18.5	18.5	18.8	19.2	17.9
Polymerization						
Polyethylene	29.4	30.6	139.9	152.8	164.2	141.2
Polypropylene	-	31.3	105.6	111.6	101.5	109.4
Polystyrene	25.7	42.6	50.2	54.6	61.2	63.0
Polyvinyl Chloride	43.4	82.9	188.5	193.4	204.2	200.3
Others						
Regen. Cellulose	17.0	17.7	18.4	18.2	18.2	17.4
Canada(Total)	387.0	722.4	-	-	-	
Condensation						
Alkyd Resins	-	-	-	-	27.4	26.4
Polymerization	179.7	246.1	477.5	628.2	641.7	673.3
Polyethylene						
Polystyrene	60.4	59.3	98.7	123.8	109.8	122.6
Polyvinyl Chloride	78.0	69.9	127.8	149.4	190.4	222.1
France						
Condensation	372.0	480.0	486.0	521.4	460.0	420.0
Alkyd Resins	28.5	38.4	47.4	41.9	41.7	37.1
Amino Plastics	91.9	203.9	173.4	191.0	168.5	142.4
Phenoplasts	46.2	61.1	57.2	63.7	57.8	48.5
Polymerization	1327.2	1479.0	2420.0	2784.0	2552.0	2480.0
Polypropylene	503.5	622.6	980.9	1173.3	1074.5	883.5
Polystyrene	149.3	160.6	239.9	268.5	254.2	262.2
Polyvinyl Chloride	457.6	473.6	664.6	784.8	725.4	710.4
Others	69.6	57.0	-	-	-	-
Polypropylene	-	49.3	145.3	206.6	211.0	298.0
Germany Dem. Rep.						
Total	420.0	604.8	762.0	778.8	859.2	998.4

Source: U.N. Statistical year book.
* = Provisional.

Production of Plastics & Resins in Selected Countries of the World 1971-81

('000' Million Tons)

Country or Area and product	1971	1975	1978	1979	1980	1981*
Germany Fed. Rep. of						
Condensation	1502.4	1611.6	2055.6	2228.4	2174.2	2176.0
Alkyd Resins	111.9	88.7	113.5	115.4	121.4	127.2
Amino Plastics	644.3	717.2	792.4	854.0	804.9	738.8
Polymerization	3162.0	3278.4	4521.6	4842.0	4408.8	4242.0
Polyethylene	928.2	1068.4	1521.6	1578.0	1399.9	1199.6
Polypropylene	-	-	298.0	318.0	287.0	323.0
Polyvinyl Chloride	846.4	833.3	1006.3	1084.8	953.2	918.6
Others	175.2	156.0	177.6	184.8	187.2	-
India (Total)	103.2	82.8	120.0	156.0	145.5	153.6
Polythylene	51.5	50.8	71.7	99.8	97.9	128.1
Polystyrene	11.0	9.1	12.7	13.5	10.5	7.8
Polyvinyl chloride	42.9	41.5	59.1	59.2	37.1	40.9
Italy						
Condensation	234.0	208.8	250.8	241.2	236.4	241.2
Alkyd Resins	29.1	27.5	31.1	31.8	29.1	25.4
Phenoplastic	39.4	31.8	39.9	40.9	42.7	43.3
Polymerization	1602.0	1816.8	2188.8	2284.8	2192.4	1887.6
Polyethylene	515.8	626.0	696.5	731.4	747.6	555.8
Polypropylene	181.9	211.0	277.2	264.7	324.7	289.4
Polyvinyl Chloride	483.2	555.2	673.1	694.5	672.5	589.7
Polypropylene	35.2	27.0	26.9	36.0	34.8	25.2
Others	-	100.0	256.6	279.7	230.6	218.5
Japan						
Condensation	1128.0	1014.0	1347.6	1464.0	1426.8	1336.2
Alkyd Resins	229.6	217.3	310.2	345.2	316.5	312.7
Amino Plastics	647.9	573.7	706.5	733.8	716.1	629.2
Phenoplastic	217.6	195.6	267.5	300.4	303.7	299.4
Polymerization	4033.2	3358.8	4357.2	5307.6	4792.8	4364.4
Polyethylene	1340.0	1290.6	1766.6	2165.3	1860.2	1670.7
Polypropylene	627.2	594.5	744.1	1022.7	927.2	958.6
Polystyrene	694.9	690.0	1031.8	1226.9	1128.8	1183.4
Polyvinyl Chloride	1034.5	1125.4	1204.8	1502.1	1429.3	1129.5
Netherlands						
Condensation	302.4	397.2	603.6	628.8	548.4	718.8
Alkyd Resins	49.3	52.5	58.6	65.6	65.6	61.9
Amino Plastics	123.0	126.0	150.0	145.0	131.0	114.0
Phenoplastics	-	2.5	3.5	5.1	4.2	6.0
Polypropylene	-	-	-	-	-	-
Polystyrene	-	175.0	-	-	-	-
Polyvinyl Chloride	-	220.0	-	-	-	-
Other	-	39.7	49.4	54.0	55.2	54.0

Source: U.N. Statistical Year Book.

* = Provisional.

Production of Plastics & Resins in Selected Countries of the World 1971-81

('000' Metric Tons)

Country or Area and product	1971	1975	1978	1979	1980	1981*
Poland (Total)Cond-ensation	256.8	538.8	596.4	571.2	667.2	558.0
Amino Plastics	4.1	7.4	12.9	12.4	12.2	9.5
Phenoplasts	18.8	19.6	9.3	10.0	10.0	7.5
Polymerization						
Polythylene	18.9	47.8	46.3	113.1	110.8	113.0
Polystyrene	22.1	32.0	33.9	32.9	33.9	22.6
Polyvinyl Chloride	93.8	124.4	125.5	101.9	118.6	92.9
Sweeden						
Condensation	148.0	236.0	266.0	255.6	238.0	215.0
Alkyd resins	27.7	31.2	34.2	31.2	29.8	48.0
Amino Plastics	74.7	106.4	-	-	114.1	-
Phenoplasts	38.4	48.2	51.9	56.6	51.8	-
Polymerization	210.9	280.0	343.1	-	375.0	375.0
Polyethylene	104.0	147.6	190.6	234.4	219.5	-
Polystyrene	16.1	7.3	8.3	11.0	20.1	-
Polyvinyl Chloride	79.8	118.0	129.4	137.3	114.5	-
Others	10.8	13.0	-	-	-	-
Regen. Cellulose	-	0.8	1.5	1.9	2.0	1.8
U.S.S.R. Total	1860.0	2844.0	3516.0	3504.0	3636.0	-
United Kingdom						
Condensation	327.6	710.4	897.6	882.0	746.4	666.0
Alkyd resins	71.0	112.2	123.5	129.8	118.7	102.1
Amino Plastics	138.0	121.9	167.5	164.5	164.8	155.1
Phenoplasts	55.0	46.7	53.0	54.7	41.1	39.1
Polymerization	1059.6	1238.4	1755.6	1655.6	1416.0	1293.6
Polyethlene	378.4	382.9	428.2	483.6	434.8	454.4
Polypropylene	92.0	169.7	292.3	263.4	190.4	197.5
Polystyrene	161.0	184.6	209.2	216.5	169.3	229.0
Polyvinyl Chloride	314.0	334.0	490.7	440.2	343.2	314.8
Others	93.6	108.0	111.6	99.6	97.2	91.2
Regen. Cellulose	-	64.6	79.8	73.8	78.8	76.7
United States						
Condensation	1130.4	799.2	910.8	907.2	765.6	-
Alkyd resins	246.2	305.7	341.9	342.4	318.8	-
Amino Plastics	349.1	479.4	727.5	727.5	-	-
Phenoplasts	535.5	578.2	873.6	806.7	647.0	675.4
Polymerization	6870.0	7618.8	8937.6	10194.0	9193.2	-
Polypropylene	607.4	863.2	1285.6	1734.2	1516.6	1789.9
Polyethylene	2894.0	3302.1	5151.7	507.4	5178.6	5442.7
Polyvinyl Chloride	1558.9	1634.5	2665.8	2816.5	2496.1	2569.0
Others	1873.2	1788.0	2330.0	2764.4	2458.8	-
Regen. Cellulose	631.7	339.8	-	-	-	-
Polystyrene	1809.7	1757.3	2715.9	2869.4	2051.4	2191.8

Source: U.N. Statistical Year Book.
* = Provisional.

Production of Synthetic and Reclaimed Rubber - 1971-1982

('000' Metric Tons)

Country or Area and product	1971	1975	1978	1979	1980	1981	1982*
		A. SYNTHETIC RUBBER					
World Total	5230	5210	6885	7225	6515	6355	5735
of which:							
Argentina*	42.5	40.0	34.0	37.0	33.0	30.2	45.9
Australia	43.4	37.6	43.5	42.8	46.0	43.0	43.0
Belgium*	60.0	65.0	124.0	125.0	125.0	108.0	100.0
Brazil	78.2	128.8	206.1	223.8	249.1	222.9	228.1
Bulgaria	11.9	18.9	25.0	30.0	30.0		
Canada	197.4	173.3	248.3	282.5	252.8	263.3	181.7
Czechoslovakia	52.2	56.7	58.9	59.3	60.0	63.2	66.2
France	323.1	350.4	491.5	541.4	510.8	487.3	479.4
Germany Dem. Rep.	129.3	143.9	145.0	165.0	150.0	195.0	155.0
Germany Fed. Rep.	306.4	315.9	407.0	418.5	389.0	396.8	383.8
India	33.0	23.0	28.0	32.1	22.5	28.7	28.7
Italy*	160.0	200.0	250.0	270.0	250.0	235.0	210.0
Japan	179.8	788.7	1028.9	1107.2	1094.1	1010.3	930.2
Korea Rep. of	24.2	35.3	61.8	60.3	75.5	82.1	64.0
Mexico	48.7	60.0	80.3	90.0	90.8	105.0	115.0
Netherlands	191.0	215.9	222.8	238.4	211.7	210.8	202.7
Poland	66.2	107.9	125.6	129.4	117.9	111.1	99.9
Romania	71.0	98.9	147.5	148.8	150.4	145.7	145.0
South Africa	29.7	31.8	31.8	31.2	38.7	36.5	32.4
Spain	45.4	66.1	86.3	86.8	81.1	60.0	65.0
Sweden	6.5	8.3	15.4	4.5	12.6	17.1	18.8
United Kingdom	285.4	260.8	293.7	277.7	211.8	189.8	190.2
United States	2277.0	1989.5	2661.7	2720.3	2214.8	2234.2	1832.0
Turkey	7.5	18.7	15.9	23.0	23.0	20.0	20.0
		B. RECLAIMED RUBBER					
World Total	555	300	300	2.90	255	215.0	102.0
of which							
Australia	9.0	5.8	0.9	0.6	0.2	0.2	0.1
Brazil	22.0	28.5	32.6	32.5	37.7	26.0	23.5
Bulgaria	2.8	2.0	-	-	-	-	-
Canada	13.6	3.9	3.8	5.2	3.0	3.0	4.2
Czechoslovakia	14.7	15.1	19.8	19.8	19.3	20.3	20.1
France	24.7	22.4	20.0	17.5	17.3	15.5	-
Germany Fed. Rep.	14.9	10.8	11.9	-	-	-	-
Hungary	2.7	1.7	-	-	-	-	-
Japan	59.5	47.8	59.6	63.3	67.2	56.6	54.5
Korea Rep. of	4.2	3.7	-	-	-	-	-
Sweden	8.3	5.9	0.5	0.3	0.6	-	-
United Kingdom	30.0	24.6	20.7	19.9	15.4	-	-
United States	202.4	120.6	123.6	123.7	86.9	84.8	-
Yugoslavia	6.0	6.4	7.5	6.5	7.4	7.8	-

Source: U.N. Statistical Year Book.
* Provisional.

Production of Basic Organics Chemicals in Selected Countries of the World 1971-81

('000' Metric Tons)

Country or Area and product	1971	1975	1978	1979	1980	1981*
Bulgaria						
Ethylane	53.0	75.8	81.2	95.3	150.0	192.9
Propylene	45.6	59.2	62.1	63.0	79.4	110.5
Acetylene	7.3	14.7	13.1	11.9	12.8	11.2
Benzene	41.8	54.4	-	-	-	-
Tolune	44.5	52.1	56.0	52.4	54.4	59.2
Xylenes	30.4	34.7	32.4	33.2	30.1	30.2
Methyl Alcohol	26.1	27.5	24.3	25.7	27.2	28.1
Ethylene Oxide	7.4	9.6	10.4	9.9	10.9	12.5
Canada						
Ethylene	421.0	430.0	826.0	1014.0	1197.0	1330.0
Acetylene	8.7	8.6	7.5	-	-	-
Benzene	263.9	248.0	559.0	493.0	560.0	567.0
Toluene	132.8	54.0	283.0	341.0	470.0	480.0
Xylenes	51.1	76.0	352.0	-	403.0	410.0
Ethylene Oxide	396.0	233.0	-	-	-	-
Propylene	-	-	310.0	-	540.0	677.0
Czechoslovakia						
Ethylane	127.8	75.0	229.0	252.0	323.0	479.0
Propylene	62.9	36.0	108.0	116.0	151.0	221.0
Acetylene	14.1	15.0	16.0	16.0	16.0	17.0
Benzene	114.5	152.0	203.0	178.0	184.0	240.0
Toluene	40.8	39.0	49.0	44.0	49.0	46.0
Xylenes	20.8	88.0	115.0	111.0	114.0	138.0
Methyl Alcohol	83.9	93.0	110.0	112.0	105.0	106.0
Ethyl Alcohol	171.9	1330.0	1130.0	1138.0	1140.0	-
Ethylene Oxide	5.9	8.0	11.0	11.0	13.0	13.0
France Ethylene	-	1235.0	1922.0	2248.0	2073.0	1859.0
Propylene	567.0	647.0	1063.0	1156.0	988.0	1006.0
Acetylene	114.0	15.4	14.0	13.9	14.5	138.0
Benzene	371.7	295.0	519.0	595.0	547.0	500.0
Toluene	90.5	58.0	54.0	84.0	64.0	56.0
Xylenes	49.4	47.0	111.0	103.0	78.0	-
Methyl Alcohol	225.2	287.0	347.0	353.0	345.0	348.0
Ethyl Alcohol	70.0	10549.0	8300.0	8983.0	10737.0	-
Ethylene Oxide	91.0	153.0	-	-	-	-
German Dem. Rep.						
Methyl Alcohol	172.4	240.0	249.0	227.0	249.0	243.0
Ethyl Alcohol	359.0	358.0	359.0	359.0	368.0	-

Source: U.N. Statistical Year Book.
* Provisional.

Production of Basic Organic Chemicals in Selected Countries of the World 1971-81

('000' Metric Tons)

Country or Area and product	1971	1975	1977	1978	1979	1980	1981*
Germany Fed.Rep. of							
Ethylene	2004.7	2140.0	2999.0	3219.0	3544.0	3065.0	2890.0
Propylene	903.2	1019.0	1536.0	1704.0	1844.0	1592.0	1613.0
Acetylene	335.1	260.0	204.0	209.0	224.0	219.0	109.0
Benzene	814.5	691.0	824.0	894.0	1007.0	979.0	922.0
Toluene	181.2	176.0	243.0	226.0	299.0	261.0	263.0
Xylenes	278.9	350.0	456.0	412.0	493.0	356.0	487.0
Methyl Alcohol	876.7	771.0	887.0	800.0	871.0	823.0	693.0
Ethyl Alcohol	2189.0	1829.0	2116.0	1823.0	1821.0	2179.0	1178.0
Ethylene Oxide	232.8	271.0	295.0	361.0	434.0	385.0	434.0
Italy							
Ethylene	1016.3	1128.0	1414.0	1225.0	1181.0	1074.0	914.0
Propylene	617.5	704.0	830.0	748.0	678.0	648.0	492.0
Acetylene	203.7	158.0	164.0	122.0	108.0	92.0	67.0
Benzene	481.3	467.0	594.0	522.0	530.0	450.0	424.0
Toluene	388.4	375.0	425.0	358.0	367.0	287.0	279.0
Xylenes	385.0	322.0	342.0	312.0	403.0	284.0	257.0
Methyl Alcohol	277.9	230.0	233.0	156.0	172.0	-	
Ethyl Alcohol	1851.0	235.0	-	-	-	136.9	-
Ethylene Oxide	69.3	75.0	79.0	76.0	78.0	82.0	-
Japan							
Ethylene	3536.8	3399.0	3979.0	4387.0	4784.0	4175.0	3655.0
Propylene	2455.0	2314.0	2716.0	2964.0	3113.0	2637.0	2538.0
Acetylene	73.5	62.0	54.0	51.0	33.0	18.0	12.0
Benzene	1689.0	1608.0	1951.0	2015.0	2179.0	2060.0	1899.0
Toluene	790.5	657.0	892.0	884.0	962.0	908.0	843.0
Xylenes	855.6	895.0	1213.0	1249.0	1318.0	1195.0	1202.0
Methyl Alcohol	1010.7	719.0	762.0	907.0	940.0	836.0	734.0
Ethylene Oxide	333.8	509.0	538.0	631.0	593.0	529.0	478.0
Ethyl Alcohol	2289.0	2080.0	2219.0	2278.0	2179.0	2107.0	-
Mexico							
Ethylene	68.7	213.0	230.0	258.0	343.0	366.0	378.0
Propylene	70.6	93.0	138.0	138.0	160.0	137.0	156.0
Benzene	74.6	90.0	74.0	79.0	71.0	79.0	77.0
Toluene	92.9	116.0	116.0	124.0	108.0	125.0	132.0
Xylenes	58.5	99.0	112.0	130.0	118.0	133.0	142.0
Methyl Alcohol	17.4	32.0	33.0	103.0	174.0	174.0	180.0
Ethylene Oxide	-	27.0	27.0	26.0	24.0	30.0	48.0
Ethyl Alcohol	596.0	586.0	763.0	785.0	924.0	905.0	-
Netherlands							
Ethylene	-	1406.0	1780.0	1958.0	2199.0	1906.0	1747.0
Propylene	-	764.0	905.0	1023.0	1149.0	984.0	944.0
Benzene	280.2	729.0	610.0	910.0	715.0	732.0	-
Toluene	105.6	56.0	-	-	-	-	-
Xylenes	147.6	192.0	-	-	-	-	-
Ethylene Oxide	1074.0	1351.0	1448.0	1378.0	1474.0	-	-
Ethyl Alcohol	89.0	225.0	200.0	235.0	239.0	290.0	-

Source: U.N. Statistical Year Book.

* Provisional.

Production of Basic Organic Chemicals in Selected Countries of the World 1971-81

('000' Metric Tons)

Country or Area and product	1971	1975	1977	1978	1979	1980	1981*
Poland							
Ethylene	35.3	95.0	96.5	98.3	98.4	184.7	182.1
Propylene	25.3	58.6	83.7	96.3	85.0	128.6	121.5
Acetylene	11.7	14.0	16.8	15.5	15.6	16.6	14.4
Methyl Alcohol	86.3	149.0	194.0	196.0	193.0	188.0	185.0
Toluene	82.2	99.0	95.5	92.7	92.6	92.6	89.2
Xylenes	79.0	75.1	91.8	93.2	83.6	83.6	71.8
Ethyl Alcohol	2265.0	3297.0	3235.0	2366.0	2703.0	2703.0	-
Romania							
Ethylene	-	155.0	263.0	280.0	243.0	267.0	266.0
Propylene	-	121.0	170.0	182.0	142.0	160.0	196.0
Benzene	109.0	125.0	162.0	157.0	125.0	122.0	150.0
Toluene	125.0	117.0	157.0	149.0	128.0	138.0	168.0
Xylenes	137.0	180.0	221.0	195.0	170.0	203.0	224.0
Methyl Alcohol	93.9	107.0	228.0	273.0	275.0	295.0	287.0
Ethyl Alcohol	608.0	810.0	820.0	823.0	886.0	877.0	906.0
Ethylene Oxide	-	-	36.2	35.7	30.4	34.9	-
Acetylene	-	-	77.8	71.7	70.0	67.3	-
Spain							
Ethylene	110.3	232.0	301.0	432.0	610.0	609.0	569.0
Propylene	65.7	121.0	157.0	202.0	268.0	279.0	263.0
Acetylene	31.3	22.9	23.9	-	-	-	-
Benzene	151.9	197.0	191.0	174.0	212.0	212.0	205.0
Toluene	90.2	37.1	67.0	63.0	74.0	69.7	82.6
Xylenes	115.6	21.9	77.6	34.0	44.0	43.4	40.3
Methyl Alcohol	41.0	2.8	69.5	99.0	147.7	72.2	61.5
Ethyl Alcohol	1593.0	2406.0	-	-	-	-	-
Ethylene Oxide	16.5	23.1	25.5	27.3	75.9	57.4	54.9
United Kingdom							
Ethylene	1040.0	950.0	1138.0	1096.0	1234.0	1095.0	1236.0
Propylene	506.0	566.0	660.0	671.0	766.0	573.0	749.0
Benzene	550.0	582.0	845.0	791.0	1056.0	826.0	752.0
Toluene	263.0	184.0	213.0	200.0	294.0	170.0	179.0
Ethyl Alcohol	1672.0	1982.0	2717.0	2973.0	2799.0	1805.0	1823.0
Ethylene Oxide	192.0	-	-	-	-	-	-
United States							
Ethylene	8367.2	8971.0	11533.0	1276.0	13239.0	13003.0	13103.0
Propylene	3125.3	3446.0	6046.0	6520.0	6486.0	6203.0	1617.0
Acetylene	386.2	102.0	91.0	149.0	180.0	172.0	161.0
Benzene	3562.0	3459.0	4787.0	5037.0	5729.0	6497.0	4343.0
Toluene	2861.3	2649.0	3346.0	4190.0	5346.0	3302.0	2786.0
Xylenes	2027.2	2330.5	2667.0	2909.0	3347.0	3127.0	2116.0
Methyl Alcohol	2244.9	2348.0	2927.0	2885.0	3362.0	3245.0	3811.0
Ethyl Alcohol	1575.0	21993.0	18860.0	-	14297.0	14083.0	14000.0
Ethylene Oxide	1631.5	1786.0	1980.0	2174.0	2570.0	2368.0	2240.0

Source: U.N. Statistical Year Book.

* Provisional.

PART–III
PLAN STATISTICS

I. SIXTH PLAN

Sixth Five Year Plan Outlay/Actual Expenditure for the Ministry of Petroleum.

(Rs./Crores)

UNDERTAKING	Sixth Plan Outlay		
	Origional	Revised	Actual
(1)	(2)	(3)	(4)
(A) EXPLORATION & PRODUCTION:			
1. Oil & Natural Gas Commission	2546.20	7143.00	6227.66
2. Oil India Ltd.	327.38	576.71	404.19
3. Gas Authority of India Ltd.	-	-	6.70
4. Deptt. of Petroleum	-	-	12.00
Sub Total (A) :	2873.58	7719.71	6650.55
(B) REFINING & MARKETING:			
1. Indian & Corporation Ltd.	706.94	941.03	707.35
2. Bharat Petroleum Corp. Ltd.	147.86	315.45	274.60
3. Hindustan Petroleum Corp. Ltd.	208.80	488.00	417.73
4. Madras Refineries Ltd.	85.82	240.83	210.86
5. Cochin Refineries Ltd.	62.14	166.80	166.64
6. Bongaigaon Refinery & Petrochemicals Ltd.	14.59	38.84	20.63
7. Lubrizol India Ltd.	7.52	10.83	11.41
8. IBP Co. Ltd.	42.91	45.75	34.81
9. Deptt. of Petroleum	178.55	120.00	--
Sub total (B) :	1455.13	2367.53	1844.03
(C) PETROCHEMICALS:			
1. Indian Petrochemicals Corp. Ltd.	160.13	264.45	290.02
2. Petrofils Coop. Ltd.	1.00	1.00	0.50
3. Bongaigaon Refinery & Petrochemicals Ltd.	166.56	213.04	199.03
4. Bharat Petroleum Corp. Ltd.	13.12	39.50	39.00
5. Cochin Refineries Ltd.	--	41.00	0.05
6. Deptt. of Petroleum	549.00	375.00	-
Sub Total (C) :	889.81	934.99	447.60
(D) CONSULTANCY & ENGGS.:			
1. Engineers India Ltd.	7.20	17.52	16.45
2. C.I.P.E.T.	2.28	1.87	2.29
Sub Total (D) :	9.48	19.39	18.74
GRAND TOTAL (A+B+C+D) :	5228.00	11041.62	8960.92

YEARWISE ACTUAL PLAN EXPENDITURE OF PUBLIC SECTOR UNDERTAKINGS UNDER THE PURVIEW OF MINISTRY OF PETROLEUM DURING THE SIXTH FIVE YEAR PLAN PERIOD.

(Rs.Crores)

UNDERTAKING	ACTUAL EXPENDITURES					
	1980-81	1981-82	1982-83	1983-84	1984-85 *	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
(A) EXPLORATION & PRODUCTION:						
1. Oil & Natural Gas Commission	469	888	1422	1580	1869	6228
2. Oil India Ltd.	41	36	73	105	149	404
3. Gas Authority of India Ltd.	-	-	-	-	7	7
4. Deptt. of Petroleum	-	-	-	-	12	12
Sub Total (A) :	510	924	1495	1685	2037	6651
(B) REFINING & MARKETING:						
1. Indian & Corporation Ltd.	156	156	120	139	136	707
2. Bharat Petroleum Corp. Ltd.	21	27	40	93	94	275
3. Hindustan Petroleum Corp. Ltd.	25	40	89	132	132	418
4. Madras Refineries Ltd.	8	25	53	76	49	211
5. Cochin Refineries Ltd.	10	20	37	64	36	167
6. Bongaigaon Refinery & Petrochemicals ltd.	4	8	6	1	2	21
7. Lubrizol India Ltd.	1	1	2	3	5	12
8. IBP Co. Ltd.	4	6	7	9	8	34
Sub total (B) :	229	283	354	517	462	1845
(C) PETROCHEMICALS:						
1. Indian Petrochemicals Corp. Ltd.	20	26	45	56	62	209
2. Petrofils Coop. Ltd.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
3. Bongaigaon Refinery & Petrochemicals Ltd.	20	31	37	47	64	199
4. Bharat Petroleum Corp. Ltd.	-	Neg.	5	13	21	39
5. Cochin Refineries Ltd.	-	-	-	-	-	-
Sub Total (C) :	40	57	87	116	147	447
(D) CONSULTANCY & ENGGS.:						
1. Engineers India Ltd.	1	5	3	4	3	16
2. C.I.P.E.T.	-	Neg.	Neg.	1	1	2
Sub Total (D) :	1	5	3	5	4	18
GRAND TOTAL (A+B+C+D) :	780	1269	1939	2323	2650	8961

* Provisional

Sixth Plan Physical Performance Targets And Actual Achievements of Petroleum Sector

(Million Tonnes)

		1979-80 Actual	1984-85 Sixth Plan Projection	1984-85 Midterm Plan Estimates	1984-85 Actual Achievement
(1)		(2)	(3)	(4)	(5)
1.	Production of Crude Oil:				
(a)	Onshore:				
(i)	Western Region				
	ONGC	3.77	2.80	2.80	3.91
(ii)	Eastern Region				
	ONGC	1.32	3.00	3.00	2.21
	OIL	2.26	2.60	2.60	2.73
	TOTAL:	3.58	5.60	5.60	4.94
	Total Onshore	7.35	8.40	8.40	8.85
(b)	Offshore(ONGC)	4.42	13.20	19.12	20.14
(c)	Grand Total	11.77	21.6	27.52	28.99
2.	Refining:				
(i)	Refining Capacity	31.80	45.55	45.55	45.55
(ii)	Crude throughput	27.47	38.00	N.A.	35.56
(iii)	Production of Petroleum Products:				
(a)	Light Distiliates	4.46	7.69	N.A.	6.32
(b)	Middle Distiliates	13.08	19.43	N.A.	17.22
(c)	Heavy Ends	8.25	8.22	N.A.	9.69
	TOTAL :	25.79	35.34	N.A.	33.23
3.	Net Imports:				
(a)	Crude Oil	16.12	16.40	N.A.	7.16
(b)	Petroleum Products:				
(i)	Light Distiliates	0.10	(0.64)*	N.A.	(0.16)*
(ii)	Middle Distiliates	3.68	6.49	N.A.	5.18
(iii)	Heavy Ends	0.86	4.31	N.A.	0.14
	TOTAL (Products):	4.64	10.16	N.A.	5.16
(c)	Grand Total :	20.76	26.56	N.A.	12.32
4.	Demand/Consumption of Petroleum Products:				
(i)	Light Distiliates	4.46	7.05	N.A.	6.29
(ii)	Middle Distiliates	16.32	25.92	N.A.	22.35
(iii)	Heavy Ends	9.10	12.53	N.A.	9.86
	TOTAL	29.88	45.50	39.70	38.50

* Export

SIXTH PLAN PHYSICAL PERFORMANCE TARGETS AND ACTUAL ACHIEVEMENTS OF THE PETRO-CHEMICALS SECTORS.

INDUSTRY	UNITS	1979-80		1984 - 1985					
		Capacity	Prodn. (Actuals)	Six Plan Projections		Mid-Term Estimates		Actual Achievement	
				Capacity	Prodn.	Capacity	Prodn.	Capacity	Prodn.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
1. Thermo Plastics & Synthetic Rubber:									
1. L.D. Polyethylene	'000'(Tonnes)	112	71.3	112	100	112	105	122	107
2. H.D. Polyethylene	"	30	25.4	30	27	30	35	30	39
3. Polyvinyl Chloride	"	77.9	49.9	173	128	175	120	139	83
4. Polypropylene	"	30	13.4	30	27	30	27	30	27
5. Polystyrene	"	23.5	12.0	23.5	20	23.5	15	26	16
Synthetic Rubber									
6. Styrene Butadiene	"	30	21.6	30	27	30	30	30	21.5
7. Polybutadiene Rubber	"	20	8.7	20	18	20	18	20	16.6
2. Petro-chemicals Intermediates:									
1. Acrylonitrile	"	24	3.7	24	20	24	20	24	19.5
2. D.M.T.	"	24	27.9	66	56	135	65	125	26.7
3. Caprolactam	"	20	13.5	20	18	20	18	20	16.3
3. Man-made Fibres:									
1. Nylon Filament Yarn	"	21	17.7	31.4	28	31.4	28	30	32.7
2. Nylon Tyre Cord & Indl. Yarn	"	12.1	11.2	13.5	13.5	13.5	16	15.5	20.2
3. Polyester Staple Fibres	"	30.4	23.6	58.6	55	46.5	40	36.9	39.0
4. Polyester Filament Yarn	"	8	9.0	18	18	37.9	35	36.7	55.7
5. Acrylic Fibres	"	16	3.4	16	14	16	16	30	21.0

SIXTH PLAN PERIOD - SALIENT STATISTICS RELATING TO PETROLEUM SECTOR

(1980-81 - 1984-85)

I T E M	Units	1980-81	1981-82	1982-83	1983-84	1984-85*	Total 5 year
1. Net imports of crude oil							
Quantity	MMT	16.2	14.5	12.4	10.4	7.2	60.7
Value	(Rs/Crores)	3349	3540	2980	2310	1867	14046
2. Production of Crude oil	MMT	10.5	16.2	21.1	26.0	29.0	102.8
3. Total crude availability(1+2)	MMT	26.7	30.7	33.5	36.4	36.2	163.5
4. Production of petroleum producs	MMT	24.1	28.2	31.1	32.9	33.2	149.5
5. Net imports of petroleum products							
Quantity	MMT	7.2	4.8	4.2	2.9	5.1	24.2
Value	(Rs/Crores)	1909	1438	1420	914	1660	7341
6. Contribution to Centre/ State Resources							
(i) Contribution to Centre Resources:	(Rs/Crores)						
(a) Generation of Internal Resources	"	367	714	855	1594	1826	5356
(b) Excise/Customs Duties	"	1512	1582	1664	1649	2080#	8487
(c) Corporate Tax	"	75	370	707	1018	999	3169
(d) Royalty	"	24	31	81	113	140	389
(e) Cess	"	60	139	269	813	844	2125
TOTAL:	"	2038	2836	3576	5187	5889	19526
(ii) Contribution to State Resources:	(Rs./Crores)						
(a) Royalty	"	25	55	57	55	57	249
(b) Sales Tax on@ POL	"	628	822	935	1099	1263	4747
TOTAL:	"	653	877	992	1154	1320	4996
(iii) Contribution to both Centre and State resources(i+ii)	"	2691	3713	4568	6341	7209	24522
7. Sixth Plan Expenditure							
(i) Exploration & Prodn.	"	510	924	1495	1685	2037	6651
(ii) Refining, Marketing etc. excluding Petrochemicals	"	230	288	357	522	466	1863
TOTAL:	"	740	1212	1852	2207	2503	8514

* Provisional. # RBE. @ Including CST.

II. SEVENTH PLAN.

Annual Plan Outlay For Ministry of Petroleum For 1985-86.

(Rs./Crores)

Undertaking	Plan Outlay 1985-86
(A) Exploration & Production:	2630
1. Oil & Natural Gas Commission	2250
2. Oil India Ltd.	280
3. Gas Authority of India Ltd./ Department of Petroleum.	100
(B) Refining & Marketing:	462
4. Indian Oil Corporation Ltd.	136
5. Bharat Petroleum Corporation Ltd.	90
6. Hindustan Petroleum Corporation Ltd.	157
7. IBP Co. Ltd.	20
8. Madras Refineries Ltd.	18
9. Cochin Refineries Ltd.	13
10. Lubrizol India Ltd.	5
11. Bongaigaon Refinery & Petrochemicals Ltd.	2
Deptt. of Petroleum	21
(C) Petrochemicals:	154
12. Indian Petrochemicals Corp. Ltd.	87
13. Bongaigaon Refinery & Petrochemicals Ltd.	43
14. Petrofils Coop. Ltd.	--
15. Bharat Petroleum Corporation Ltd.	13
16. Cochin Refineries Ltd.	8
Department of Petroleum/ (Maharashtra Gas Crackers Complex)	3
(D) Consultancy & Engineering:	15
17. Engineers India Ltd.	14
18. Central Institute of Plastic Engineering & Tools	1
GRAND TOTAL (A+B+C+D):	3261

Annual Plan Targets for Production of Crude oil and Refinery Throughput for 1985-86.

I T E M	Target For 1985-86
1. Crude Oil Production	
(i) Onshore	9.53
(ii) Offshore	20.61
TOTAL :	30.14
2. Crude Throughput	42.14

PART–IV
FINANCIAL PERFORMANCE/ STRUCTURE AND QUICK REVIEW

PART–IV
FINANCIAL PERFORMANCE/ STRUCTURE AND QUICK REVIEW

FINANCIAL REVIEW/STRUCTURE OF THE PUBLIC/JOINT SECTOR UNDERTAKINGS UNDER THE PURVIEW OF MINISTRY OF PETROLEUM DURING 1983-84 AND QUICK REVIEW DURING 1984-85.

FINANCIAL STRUCTURE/REVIEW 1983-84:

The finaancial structure of the Public/Joint Sector Undertakings as per their annual published accounts/data submitted by them for three years ending 1983-84 has been given in the attached statements. The glossary of the terms has been given at the end. The public sector undertakings have been divided into four broad catagories viz.(A) Oil Exploration and Production, (B) Refining & Marketing, (C) Petrochemicals and Other down stream units, (D) Engineering & other servicing units. In the review/analysis that follows, consolidated financial position of all the undertakings has been given followed by an analysis of the consolidated position under each of the above mentioned categories.

OVER-ALL FINANCIAL POSITION:

A consolidated picture of over-all financial structure and performance of the public sector undertakings during three years viz. 1981-82, 1982-83 and 1983-84 is provided in the tables I to 3. The following is the summary of the results:-

Rs./Crores.

	1981-82	1982-83	1983-84
1.1 Ordinary share capital	883.66	884.13	912.21
1.2 Preference share capital	0.50	0.50	0.50
Total Paid-up Capital(Equity)	884.16	884.63	912.71
2. Reserves & Surpluses	1494.94	2428.15	3444.12
3. Loans	1590.59	2449.28	3319.49
4. Net Worth	2315.54	3246.89	4312.98
5. Capital Employed:	3751.56	4420.78	5619.89
5.1 Net Fixed Assets	2414.32	3184.23	3970.96
5.2 Working Capital	1337.24	1236.55	1648.93
6. Sales Turnover	15636.48	19175.41	21160.85
7. Adjusted Gross Profit	1307.30	2000.85	2375.99
8. Adjusted Net Profit	654.36	1037.65	1025.48
9. Dividend Paid	56.30	56.70	61.41
10. Corporate Tax	370.16	707.47	1018.21

An alalysis of the individual items is briefly discussed as under neath.

CAPITAL INVESTMENT: The capital investment defined as the sum-total of the paid-up capital and loans registered an increase of 26.9% from Rs. 3,333.91 crores in 1982-83 to Rs. 4,232.20 crores in 1983-84. The corresponding increase during 1982-83 over 1981-82 was 34.7%. The increase in the capital investment in 1983-84 over 1982-83 was on account of increase in paid-up capital from Rs. 884.63 crores to Rs. 912.71 crores and also increase in the loans from Rs. 2,449.28 crores, to Rs.3,319.49 crores, the increase in the loans being of the order of 35.5%. The break-up of increase in equity and loans in 1983-84 over 1982-83 is as under:-

A - Equity

(Rs./Crores)

Name of the Undertaking			
1. Bharat Petroleum Corporation	14.54	16.57	13.9%
2. Hindustan Petroleum corporation	15.20	40.20	164.5%
3. Petrofils Cooperative Ltd.	14.89	14.94	0.3%
4. Bridge & Roof Co.(India) Ltd.	4.24	5.24	23.6%

B - Loans

1. Oil & Natural Gas Commission	1613.04	1880.46	16.6%
2. Oil India Ltd.	48.47	57.30	18.2%
3. Indian Oil Corporation	295.30	481.85	63.2%
4. Bharat Petroleum Corporation	21.20	65.36	208.3%
5. Hindustan Petroleum Corporation	100.43	223.90	122.9%
6. Cochin Refineries Ltd.	56.33	143.70	155.1%
7. Madras Refineries Ltd.	89.53	216.65	141.9%
8. Petrofils	9.94	11.72	17.9%
9. BRPL	99.16	146.47	47.7%
10.Balmer Lawrie Ltd.	2.86	3.61	26.2%
11.Biecco Lawrie	10.91	13.25	21.4%

The position of the foreign loans during the three years viz. 1981-82 to 1983-84 is given below:-

(Rs./Crores)

	1981-82	1982-83	1984-85
Foreign loans	267.78	898.53	1089.45
Total loans	1590.59	2449.28	3319.49
%age of Foreign loans to total loans	16.8%	36.7%	32.8%

ONGC's foreign loans were the highest of all the undertakings.

With the increase in equity and loans the equity/loans ratio declined from 0.36 in 1982-83 to 0.27 in 1982-84.

CAPITAL EMPLOYED:

Capital employed defined as the sum total of net fixed assets and working capital of the public sector undertakings went-up by 27.1% from Rs. 4,420.78 crores in 1982-83 to Rs. 5,619.89 crores in 1983-84. The corresponding increase in the preceding year was of the order of 17.8%. The break-up of the figures has revealed that the major increase in the capital employed was on account of increase in the fixed assests in respect of under noted companies:

Name of the Company	Net Fixed Assets Rs./Crores		
	1982-83	1983-84	%age increase
1. ONGC	1930.72	2641.36	36.8%
2. OIL	77.35	85.20	10.1%
3. BPCL	50.38	66.64	32.2%
4. HPCL	93.48	120.01	28.4%
5. MRL	11.89	32.38	172.4%
6. Lubrizol	4.52	6.03	33.4%
7. IPCL	200.58	210.12	4.8%
8. Petrofils	28.09	34.42	22.5%

SALES TURNOVER: Sales turnover of all the companies put toghether increased by 10.4% from Rs. 19,175.41 crores in 1982-83 to Rs. 21,160.85 crores in 1983-84. The Corresponding increase in the preceding year was of the order of 22.6%. The increase in the Sales turnover contributed to an increase in the gross profit. The gross profit expressed as a %age of sales turnover increased to 11.2% in 1983-84 from 10.4% in 1982-83. Out of the total sales achieved in 1983-84, the share of the companies having large chunk in sales in the oil sector is as under:-

1. ONGC	16.4%
2. IOC	48.6%
3. BPCL	8.8%
4. HPCL	11.6%
5. Others	14.6%
	100.0%

PROFITABILITY: A rising trend is perceptible in the over-all profitability of the public sector undertakings under the Ministry of Petroleum. The adjusted gross profits have shown an improvement of 18.8% from Rs.2000.85 crores in 1982-83 to Rs.2,375.99 crores in 1983-84. The corresponding increase in the preceding year was 53%. But the adjusted net profit showed a decline from Rs.1,037.65 crores in 1982-83 to Rs.1,025.48 crores in 1983-84. The adjusted net profits expressed as a %age of paid-up capital and net worth stood at 112.3% and 23.8%in 1983-84 as against 117.3% and 31.9% in 1982-83. The return on capital employed measured in terms of gross profit before interest and taxes on capital employed went down from 45.2% in 1982-83 to 42.2% in 1983-84.

DIVIDENDS:There has been an increase in the quantum od dividend in respect od the public sector undertakings over the three years. The dividend which stood at Rs. 56.30 crores in 1981-82 went-up to Rs. 56.70 crores in 1982-83 and further to Rs. 61.41 crores in 1983-84. The highest amount of dividend declared in absloute terms was in respect of ONGC which stood at 30.86 crores followed by IOC with an amount of Rs. 17.26 crores. IPCL, BRPL, Biecco Lawrie and Bridge & Roof did not declare any dividend during 1983-84.

CORPORATE TAX: The contribution made by Public Sector Undertakings to the National Exchequer by way of taxes during 1983-84 stood at Rs. 1,018.21 crores. The amounts of taxes paid in 1981-82 and 1982-83 were Rs. 370.16 crores and 707.47 crores respectively.

EXPLORATION & PRODUCTION.

This category includes the following three enterprises and the data in respect of individual companies is given in the tables No. 5 to 7, while the consolidated position is provided in Table No. 4.

1. Oil & Natural Gas Commission (ONGC)
2. Hydro Carbons India Ltd. (HIL)
3. Oil India Limited (OIL)

Summary of the results of these undertakings for the last three years is as under:-

Rs./Crores.

	1981-82	1982-83	1983-84
1. Equity	395.85	395.85	395.85
2. Loans	1010.59	1661.51	1937.76
3. Net Worth	1018.97	1738.50	2615.36
4. Capital Employed:	1795.37	2343.64	3109.53
4.1 Net fixed assets	1446.08	2010.45	2726.56
4.2 Working Capital	349.29	333.19	382.97
5. Sales turnover	1607.84	2753.41	3879.17
6. Adjusted Gross Profit	889.26	1550.54	1974.26
7. Adjusted Net Profit	475.77	799.06	865.39
8. Dividend	25.62	31.63	35.06
9. Tax	306.91	635.99	934.79

Salient points of the analysis are given as under:

CAPITAL INVESTMENT: There has been an increase in the investment of capital from Rs. 2,057.36 crores in 1982-83 to Rs. 2,333.61 crores in 1983-84 by registering growth of 13.4%. The corresponding increase in the preceding year was of the order of 46.3%. The increase in the capital investment was on account of increase in the loans of ONGC from Rs. 1,613.04 crores in 1982-83 to Rs. 1,880.46 crores in 1983-84. As a result of increase in loans the equity/loans ratio came down from 0.39 in 1981-82 to 0.24 in 1982-83 and then to 0.20 in 1983-84. Thus a declining trend is discernible in the equity/loan ratio.

I. CAPITAL EMPLOYED: The capital employed increased from 2,343.64 crores in 1982-83 to Rs. 3,109.53 crores in 1983-84, thereby showing an increase of 32.7%. The corresponding increase in the preceding year was 30.5%. The increase in the capital employed comprised of increase in net fixed assets of ONGC and OIL from

Rs. 1,930.72 crores and 77.35 crores in 1982-83 to Rs. 2,641.36 crores and 85.20 crores in 1983-84 respectively. Similarly there was increase in the requirement of working capital in 1983-84 as compared with 1982-83.

(c) Sales Turnover: The sales turnover under this category increased by 40.9% from Rs. 2,753.41 crores in 1982-83 to Rs. 3,879.17 crores in 1983-84. The corresponding increase in the preceding year was of the order of 71.2%. Gross profit expressed as a %age of sales turnover declined from 56.3% in 1982-83 to 50.9% in 1983-84. The outstanding feature was the increase in sales in respect of ONGC from Rs. 2,401.63 crores in 1982-83 to Rs. 3,472.82 crores in 1983-84. There was also increase in the sales turnover of OIL from Rs. 351.78 crores in 1982-83 to Rs. 406.35 crores in 1983-84.

(d) Profitability: The adjusted gross profit increased by 27.3% from Rs. 1,550.54 crores in 1982-83 to Rs. 1,974.26 crores in 1983-84. The ratio of gross profit to capital employed declined from 66.2% in 1982-83 to 63.5% in 1983-84. The adjusted net profits increased from Rs. 799.06 crores in 1982-83 to Rs. 865.39 crores in 1983-84, the improvement being of the order of 8.3%. The ratio of net profit to equity went up from 201.9% in 1982-83 to 218.6% in 1983-84, but there was a decline in the ratio of net profit to Net Worth from 46.0% to 33.1% in the same period.

(e) Dividend: The total dividend declared by ONGC and OIL has been going-up consistently from Rs. 25.62 crores in 1981-82 to Rs. 31.63 crores in 1982-83 and to Rs. 35.06 crores in 1983-84.

(f) Corporate Tax: The contributions made by the undertakings by way of payment of taxes to National Exchequer have increased by 85% from Rs. 635.99 crores in 1982-83 to Rs. 934.79 crores in 1983-84.

Refining and Marketing.

Financial structure and performance of the individual companies have been provided in the table No. 9 to 16, while the consolidated summary of refining and marketing companies has been given in the table No. 8. Summary of the results of the undertakings under this category for the three years is as under:

(Rs./Crores)

	1981-82	1982-83	1983-84
1. Equity	180.99	180.99	208.02
2. Loans	376.61	564.46	1134.44
3. Net Worth	842.63	984.68	1125.54
4. Capital Employed:	1412.77	1502.84	1901.14
4.1 Net Fixed Assets	639.89	857.77	894.71
4.2 Working Capital	772.88	645.07	1006.43
5. Sales Turnover	13363.57	15629.74	16409.06
6. Adjusted Gross Profit	315.42	349.18	305.65
7. Adjusted Net Profit	106.36	169.38	111.09
8. Dividends	29.41	23.84	25.06
9. Corporate Tax	59.93	65.84	69.60

An analysis of the salient features is as under :

Capital Investment: The capital investment under this category increased by 80.0% from Rs. 745.45 crores in 1982-83 to Rs. 1,342.46 crores in 1983-84. The corresponding increase in the preceding year was 33.7%. The paid-up capitals of the following companies were increased as indicated below:

Rs/Crors.

	1982-83	1983-84	%age increase
1. BPCL	14.54	16.57	13.9%
2. HPCL	15.20	40.20	164.5%

The loans have substantially increased and the extent of increase is as under:

Rs./Crores.

	1982-83	1983-84	%age increase
1. IOC	295.30	481.85	63.2%
2. BPCL	21.20	65.36	208.3%
3. HPCL	100.43	223.90	122.9
4. CRL	56.33	143.70	155.1%
5. MRL	89.53	216.65	142.0%
6. Lubrizol	1.67	2.98	78.4%

As a result of change/increases both in equity and loans the equity/loans ratio came down from 0.32 in 1982-83 to 0.18 in 1983-84.

(b) Capital Employed: The capital employed by Refining and Marketing companies increased by 26.5% from Rs. 1,502.84 crores in 1982-83 to Rs. 1,901.14 crores in 1983-84. The corresponding increase in the preceding year was of the order of 6.4%. This increase was made up of the increases in the net fixed assets and working capital (bracketed together) as indicated below:

Rs./Crores.

	1982-83	1983-84	%age increase
1. IOC	1098.49	1284.99	16.9%
2. BPCL	132.75	187.59	41.3%
3. HPCL	174.32	226.38	29.8%
4. CRL	30.25	56.67	87.3%
5. MRL	41.16	112.97	174.5%
6. IRP Co. Ltd.	8.64	10.60	22.6%
7. Lubrizol	14.81	19.40	30.9%
8. Indian Oil Blending	2.42	2.54	4.9%
T O T A L :	1502.84	1901.14	26.5%

(c) Sales Turnover: The sales turnoer increased by 5% from Rs. 15,629.74 crores in 1982-83 to Rs. 16,409.06 crores in 1983-84. Though there was an increase in the sales effected, yet the adjusted gross profit declined by 12.5% and these expressed as %age of sales stood at 1.9% in 1983-84 as compared with 2.2% in 1982-83.

(d) Profitability: The adjusted gross profits and net profits declined in 1983-84 as compared with 1982-83 figures. The %age of net profit to equity and Net Worth which stood at 93.8% & 17.2% at the close of 1982-83 accounts, declined to 53.4% and 9.8% respectively in 1983-84. The return on capital employed also came down from 23.2% in 1982-83 to 16.0% in 1983-84.

Dividend: During 1983-84, all the companies except BPCL paid out a total dividend of Rs. 25.06 crores and this was higher than the amount of Rs. 23.84 crores paid out in 1982-83. The amount paid in 1981-82 was Rs. 29.41 crores.

Corporate Tax: The taxes paid out to National Exchequer increased by 5.7% from Rs. 65.84 crores in 1982-83 to Rs. 69.60 crores in 1983-84. The taxes paid in 1981-82 amounted to Rs. 59.83 crores.

Petrochemicals & Other down stream units.

There are three companies under this category :

(1) Indian Petrochemicals Corporation Ltd. (IPCL),
(2) Petrofils Cooperative Limited (PCL),
(3) Bongaigaon Refinery & Petrochemicals Ltd.(BRPL).

The combined financial structure of the three companies for the three years has been given in table No. 17, while those of the indivisual companies have been provided in table Nos. 18 to 20.

Summary of the results of the three undertakings for the three years is as under:

(Rs/Crores)

	1981-82	1982-83	1983-84
1. Equity	299.35	299.39	299.44
2. Loans	185.60	198.62	220.41
3. Net Worth	435.16	497.85	537.56
4. Capital Eployed	501.56	522.46	540.53
4.1 Net Fixed assets	316.54	300.94	321.82
4.2 Working Capital	185.02	221.52	218.71
5. Sales turnover	560.75	652.82	715.66
6. Adjusted Gross Profit	92.08	84.95	74.42
7. Adjusted Net Profit	68.65	62.32	40.86
8. Dividend	0.89	0.89	0.89
9. Corporate Tax	---	1.09	5.70

(a) Capital Investment: The total capital investment of the three companies increased by 4.4% from Rs. 498.01 crores in 1982-83 to Rs. 519.85 crores in 1983-84. As a result of increase/change in loans, the equity/loans ratio declined from 1.51 in 1982-83 to 1.36 in 1983-84.

(b) Capital Employed: The capital employed by this category of companies increased by 3.5% from Rs. 522.46 crores in 1982-83 to Rs. 540.53 crores in 1983-84. The corresponding increase in the preceding year was 4.2%. The net fixed assets and working capital during two years have been as under:

A. Net Fixed Assets. (Rs./Crores)

Name of the Company	1982.83	1983.84	%age +Increase -Decrease
1. IPCL	200.58	210.12	+ 4.8
2. Petrofils	28.09	34.42	+22.5
3. BRPL	72.27	77.28	+6.9
T O T A L :	300.94	321.82	6.9%

B. Working Capital.

1. IPCL	189.43	168.57	-11.1
2. Petrofils	14.66	20.58	-40.4
3. BRPL	17.43	29.56	+69.5
T O T A L :	221.52	218.71	-1.3%

(c) Sales Turnover: The sales turnover increased by 9.6% from Rs. 652.82 crores in 1982-83 to Rs. 715.66 crores in 1983-84. The corresponding increase in the preceding year was 16.4%. Though there was an increase in the sales turnover yet the adjusted gross profits showed a decline. The %age of gross profit to sales which stood at 13% at the close of 1982-83, came down to 10.4% in 1983-84.

(d) Profitability: The adjusted gross profit decreased by 12.4% from Rs. 84.95 crores in 1982-83 to Rs. 74.42 crores in 1983-84. Likewise the adjusted net profit, also went down from Rs. 62.32 crores in 1982-83 to Rs. 40.86 crores in 1983-84. The return on capital emloyed decreased from 16.3% in 1982-83 to 13.8% in 1983-84. The ratio of net profit to paid-up capital and net worth decreased in the period under review.

(e) Dividend: Out of three companies only Petrofils has declared a dividend of Rs. 89 lakhs in 1983-84. These amounts were declared in 1981-82 and 1982-83 also.

(f) Corporate Tax: The contribution made by this category of companies viz. IPCL & Petrofils by way of Taxes was Rs. 570 lakhs in 1983-84 as against Rs. 109 lakhs in 1982-83.

Engineering Units.

There are 4 companies under this category viz. :

(1) Engineers India Ltd. (EIL),
(2) Balmer Lawrie Ltd., (BL),
(3) Bieeco Lawrie Ltd., (BL),
(4) Bridge & Roof Co. (India) Ltd. (B&R)

The consolidated position of the 4 companies has been given in table No. 21 while those of individual companies have been provided in table Nos. 22 to 25.

Summary of the results of the 4 companies for the three years is as under: (Rs./Crores)

	1981-82	1982-83	1983-84
1. Equity	7.97	8.40	9.40
2. Loans	17.79	24.69	24.68
3. Net Worth	18.78	25.86	34.52
4. Capital Employed:	41.86	51.84	68.69
4.1 Net Fixed Assets	11.81	15.07	27.87
4.2 Working Capital	30.05	36.77	40.82
5. Sales turnover	106.28	139.44	156.96
6. Adjusted Gross Profit	10.54	16.18	21.66
7. Adjusted Net Profit	3.58	6.89	8.14
8. Dividends	0.38	0.34	0.40
9. Corporate Tax	3.32	4.55	8.12

The salient points of the analysis are as under:

Capital Investment: The Capital Investment under this category has increased by 3% from Rs. 33.09 crores in 1982-83 to Rs. 34.08 crores in 1983-84. The corresponding increase during the proceding year was 28.4%. There was an increase of Rs. 100 lakhs in the paid-up capital of Bridge & Roof Co. The loans have contributed to the increase of capital investment also.

(b) Capital Employed: The capital employed by the Engineering and servicing units has incrased by 32.5% from Rs. 51.84 crores in 1982-83 to Rs. 68.69 crores in 1983-84. The corresponding increase in the preceding year was 23.8%. The net fixed assets and working capital are as under :

A. Net Fixed Assets (Rs./Crores)

	1982-83	1983-84	%age+Increase -Decrease
1. Engineers India Ltd.	5.38	16.73	210.9
2. Balmer Lawrie	5.98	6.89	15.2
3. Bieeco Lawrie	0.94	1.01	7.5
4. Bridge & Roof Co.(India)	2.77	3.24	16.9
TOTAL:	15.07	27.87	84.9

B. Working Capital (Rs./Crores)

1. Engineers India Ltd.	13.91	13.93	0.1
2. Balmer Lawrie	13.39	14.47	8.0
3. Bieeco Lawrie	1.80	2.43	35.0
4. Bridge & Roof	7.67	9.99	30.2
TOTAL:	36.77	40.82	11.0

Sales Turnover: The sales turnover increased by 12.6% from Rs. 139.44 crores in 1982-83 to Rs.156.96 crores in 1983-84. The corresponding increase in the preceding year was 31.2%. With the increase in the sales turnover, there has also been an increase in the adjusted gross profit. The ratio of adjusted gross profit to sales which stood at 11.6% at the close of 1982-83, increased to 13.8% at the end of 1983-84.

Profitability: The adjusted gross profits have increased by 33.9% from Rs. 16.18 crores in 1982-83 to Rs. 21.66 crores in 1983-84. Similarly, the adjusted net profits have increased by 18. 1% from Rs. 6. 89 crores

in 1982-83 to Rs. 8.14 crores in 1983-84. The return on capital employed increased from 31.2% in 1982-83 to 31.5% in 1983-84. The ratio of net profit to Equity increased from 82.0% in 1982-83 to 86.6% in 1983-84 but that of net profit to Net Worth came down from 26.6% to 23.6% in the same period

(e) Dividend: The total dividend declared by EIL & Balmer Lawrie amounted to Rs. 40 lakhs in 1983-84 as compared to Rs. 34 lakhs in 1982-83. Bieeco Lawrie Ltd. and Bridge & Roof Co.(India) did not declare any dividend in 1983-84.

(f) Corporate Tax: Contribution made by the undertakings in this category to National Exchequer by way of taxes was Rs. 8.12 crores in 1983-84 as compared to Rs. 4.55 crores in 1982-83.

QUICK REVIEW OF FINANCIAL STRUCTURE - 1984-85.

During 1984-85, there were altogether 18 running enterprises under the purview of Ministry of Petroleum three under the category "Exploration & Production", eight under "Refining & Marketing", three under Petrochemicals and four under engineering & Other Servicing units. This also includes Petrofils which is in cooperative sector.

According to provisional figures on the financial position/performance of these enterprises available in the Division, the 18 enterprises together employed a total capital of Rs. 6,975.81 crores and held a paid-up capital of Rs. 1,032.05 crores as per details of enterprises-wise financial performance in Annexure I. During 1984-85, these enterprises had an annual sales turnover of Rs. 22,899.87 crores and they earned a gross profit or Rs. 2,427.29 crores the corresponding figures in the year 1983-84 being Rs. 21,160.85 crores and Rs. 2,322.84 crores respectively. Thus while the sales turnover registered an increase of 8.2% the gross profit went-up by 4.5%. The net profit after tax and interest amounted to Rs. 1,099.27 crores in 1984-85 as against a net profit of Rs. 1,054.34 crores. The ratio of net profit to Equity and Net Worth worked out to 106.5% and 20.3% respectively compared with the figures of 115.5% and 24.5% achieved during 1983-84.

The over-all financial position/results for the year 1984-85 under each of the above mentioned categories are summarized below

(Rs./Crores)

Remain	Exploration & Production	Refining & Marketing	Petrochemi- cal & other Units	Engineering Units	Total
1. Equity	395.85	293.39	333.41	9.40	1032.05
2. Loans	2334.11	1478.73	204.64	29.96	4077.44
3. Net Worth	3443.51	1290.22	635.55	40.39	5409.67
4. Capital Emp.	4188.31	2171.15	537.89	78.46	6975.81
5. Sales Turnover	4415.19	17402.34	889.73	192.61	22899.87
6. Gross Profit	1978.97	327.99	97.49	22.84	2427.29
7. Net Profit	910.99	116.28	64.90	7.10	1099.27
8. Corporate Tax	916.72	49.94	23.38	9.43	999.47
9. Dividend	38.49	37.01	0.90	0.40	76.80

	% age of	Exploration & Production	Refining & Marketing	Petrochemi-cal & other Units	Engineering Units	Total
1.	Net Profit to paid-up capital	230.1	39.6	19.5	75.5	106.5
2.	Net Profit to Net Worth	26.5	9.0	10.2	17.6	20.3
3.	Gross Profit to Capital Employed	47.3	15.1	18.4	29.1	34.8
4.	Sales to Capital Employed	105.4	801.5	165.4	245.5	328.3
5.	Equity to Loan Ratio	0.17	0.20	1.63	0.31	0.25
6.	Gross Profit to Sales Turnover	44.8	1.9	10.9	11.8	10.6

It will be seen that from the Annexure I that with the exception of Bieeco Lawrie, all the companies under the purview of Ministry of Petroleum have made profit. ONGC has made the highest gross profit of Rs. 1.791.59 crores with IOC stending as second with Rs. 193.99 crores OIL has made a gross profit of Rs. 182.92 crores. Like wise ONGC earned the highest net profit after tax & interest amounting to Rs. 822.18 crores followed by OIL with a net profit of Rs. 86.78 crores. The third to earn net profit was IOC with a profit of Rs. 63.14 crores.

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FINANCIAL STRUCTURE & PROFITABILITY OF THE UNDERTAKINGS UNDER THE PURVIEW OF MINISTRY OF PETROLEUM DURING 1984-85. (Provisional) (Rs./Lakhs) ANNEXURE-I.

Name of the Undertaking	Paid-up Capital	Loans	Net Worth	Capital Employed	Sales/ Operating Income	Gross Profit Before Interest & Tax	Net Profit after Tax & Interest	Dividend	Corporate Tax	% age of Net Profit to paid up Capital	% age of Net Profit to Net Worth	% age of Gross Profit to Capital Employed
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
A. Exploration & Production	39585	233411	344351	418831	441519	197897	91099	3849	91672	230.1	26.5	47.3
1. ONGC	34285	227094	310558	390185	398662	179159	82218	3429	82405	239.8	26.5	48.9
2. HIL	2500	----	4700	4700	----	446	203	----	243	8.1	4.3	9.5
3. OIL	2800	6317	29093	23946	42857	18292	8678	420	9024	309.9	29.8	76.4
B. Refining & Marketing:	29339	147873	129022	217115	1740234	32799	11628	3701	4994	39.6	9.0	15.1
4. IOC	12327	48534	80604	101022	1096902	19399	6314	1726	4506	51.2	7.8	19.2
5. BPCL	1657	11013	12308	33440	214253	3477	1692	232	----	102.1	13.7	10.4
6. HPCL	4020	42410	16792	43447	262500	4653	903	402	----	22.5	5.4	10.7
7. CRL	700	19895	2631	7158	16208	625	120	---	----	17.1	4.6	8.7
8. HRL	9825	25514	12881	28062	86882	3396	1965	1200	NIL	20.0	15.3	12.1
9. IBP Co. Ltd.	290	----	1726	1242	54000	570	292	46	238	100.7	16.9	45.9
10. LIL	480	507	1805	2442	9052	580	301	91	195	62.7	16.7	23.7
11. IOB	40	----	275	302	437	98	41	4	55	102.5	14.8	32.8
C. Petrochemical & Other Down Stream Units:	33341	20464	63555	53789	88973	9749	6490	90	2338	19.5	10.2	18.4
12. IPCL	18600	3791	43090	37937	57911	6611	5062	--	938	27.2	11.7	17.4
13. PCL	1499	213	6512	6726	15494	3217	1757	90	1400	117.2	27.0	47.8
14. BRPL	13242	16460	13953	9126	15568	-79	-329	--	----	-2.5	-2.4	-0.9
D. Engineering & Other Servicing Units:	940	2996	4039	7846	19261	2284	710	40	943	75.5	17.6	29.1
15. EIL	50	----	3933	3332	4480	1500	700	8	800	1400.0	17.8	45.0
16. Balmer Lawrie Ltd.	189	428	1025	2732	9277	537	158	32	143	83.6	15.4	19.7
17. Biecoo Lawrie Ltd.	177	1633	-1357	367	650	-56	-276	--	---	Neg.	Neg.	Neg.
18. Bridge & Roof Co.	524	935	438	1415	4854	303	128	--	---	24.4	29.2	21.4
TOTAL :	103205	407744	540967	697581	2289987	242729	109927	7680	99947	106.5	20.3	34.8

NOTE: The Paid-up Capital of IBP Co. Ltd. includes preference share capital also.

TABLE NO.1

CONSOLIDATED FINANCIAL STRUCTURE. 1983-84

NAME OF THE COMPANY: ALL CATEGORIES Rs./Lakhs.

ITEM	Emplora-tion & Pr-oduction.	Refin - ing & M-arketing	Petro-chemic-al & Other Down st-ream Units.	Engine-ering & Other Servicing Units.	Total
(1)	(2)	(3)	(4)	(5)	(6)
1. Authorised Capital	8000	43320	42000	1450	94770
2. i) Paid-up Capital	39585	20752	29944	940	91221
ii) Preference Capital	NIL	50	NIL	NIL	50
iii) Reserve & Surpluses	224286	92296	23840	3390	344412
3. i) Total Loans	193776	113444	22041	2688	331949
ii) Of which Foreign	106896	1835	214	NIL	108945
4. Cash Credits/Advances from Banks/Others	3615	49244	1311	1311	55481
5. Net Worth	261536	112554	53756	3452	431298
6. i) Net Fixed Assets	272656	89471	32182	2787	397096
ii) Working Capital	38297	100643	21871	4082	164893
iii) Capital Empl.(i+ii)	310953	190114	54053	6869	561989
7. Sales/Operating Income	387917	1640906	71566	15696	2116085
8. i) Total Emoluments (incl. perks)	14274	14772	2608	4936	36590
ii) Of which Bonus	884	1094	127	73	2178
iii) Average Emoluments per person	0.36	0.30	0.27	0.26	0.29
9. Inventories	52839	192823	15431	4048	265141
10. Adjusted Gross Profit	197426	30565	7442	2166	237599
11. Adjusted Net Profit	86539	11109	4086	814	102548
12. Dividends Declared	3506	2506	89	40	6141
13. Corporate Tax	93479	6960	570	812	101821
% Age of:-					
a) Net Profit to Equity	218.6	53.4	13.7	86.6	112.3
b) Net Profit to Net Worth	33.1	9.8	7.6	23.6	23.8
c) Gross Profit to Capital Emp.	63.5	16.0	13.8	31.5	42.2
d) Sales to Capital Emp.	124.8	863.1	132.4	228.5	376.5
e) Gross Profit to Sales	50.9	1.9	10.4	13.8	11.2
f) Equity Loan Ratio	0.20	0.18	1.36	0.38	0.27

Source : 1. Annual Reports of the Companies.
2. There is no authorised Capital in respect of ONGC.

TABLE NO.2

CONSOLIDATED FINANCIAL STRUCTURE. 1982-83

NAME OF THE COMPANY: ALL CATEGORIES Rs./Lakhs.

I T E M	Emplora-tion & Pr-oduction.	Refin-ing & M-arketing	Petro-chemic-al Other Down st-eam Units.	Engine-ering & Other Servicing Units.	Total
(1)	(2)	(3)	(4)	(5)	(6)
1. Authorised Capital	8000	23245	32000	1450	64695
2. i) Paid-up Capital	39585	18049	29939	840	88413
ii) Preference Capital	---	50	--	--	50
iii) Reserve & Surpluses	138865	80905	19854	3191	242815
3. i) Total Loans	166151	56446	19862	2469	244928
ii) Of which Foreign	89792	4	57	---	89853
4. Cash Credits/Advances from Banks/Others	---	46038	2257	1265	49560
5. Net Worth	173850	98468	49785	2586	324689
6. i) Net Fixed Assets	201045	85777	30094	1507	318423
ii) Working Capital	33319	64507	22152	3677	123655
iii) Capital Empl.(i+ii)	234364	150284	52246	5184	442078
7. Sales/Operating Income	275341	1562974	65282	13944	1917541
8. i) Total Emoluments (incl. perks)	10206	12574	2056	3961	28797
ii) Of which Bonus	937	1016	133	71	2157
iii) Average Emoluments per person p.a.	0.24	0.28	0.24	0.23	0.25
9. Inventories	46194	160019	16428	2805	225446
10. Adjusted Gross Profit	155054	34918	8495	1618	200085
11. Adjusted Net Profit	79906	16938	6232	689	103765
12. Dividends Declared	3163	2384	89	34	5670
13. Corporate Tax	63599	6584	109	455	70747
% Age of:-					
a) Net Profit to Equity	201.9	93.8	20.8	82.0	117.3
b) Net Profit to Net Worth	46.0	17.2	12.5	26.6	31.9
c) Gross Profit to Capital Emp.	66.2	23.2	16.3	31.2	45.2
d) Sales to Capital Emp.	117.5	1040.0	125.0	268.9	433.8
e) Gross Profit to Sales	56.3	2.2	13.0	11.6	10.4
f) Equity Loan Ratio	0.24	0.32	1.51	0.34	0.36

Source : 1. Annual Reports of the Companies.
2. There is no authorised Capital in respect of ONGC in exploration & production category

TABLE NO.3

CONSOLIDATED FINANCIAL STRUCTURE. 1981-82

NAME OF THE COMPANY: ALL CATEGORIES Rs./Lakhs.

I T E M	Exploration & Production.	Refining & Marketing	Petrochemical Other Down stream Units.	Engineering & Other Servicing Units.	Total
(1)	(2)	(3)	(4)	(5)	(6)
1. Authorised Capital	8000	23245	32000	1450	64695
2. i) Paid-up Capital	39585	18049	29935	797	88366
ii) Preference Capital	---	50	---	---	50
iii) Reserve & Surpluses	66725	66681	13592	2496	149494
3. i) Total Loans	101059	37661	18560	1779	159059
ii) Of which Foreign	26595	36	147	---	26778
4. Cash Credits/Advances from Banks/Others	---	69738	1015	995	71748
5. Net Worth	101897	84263	43516	1878	231554
6. i) Net Fixed Assets	144608	63989	31654	1181	241432
ii) Working Capital	34929	77288	18502	3005	133724
iii) Capital Empl.(i+ii)	179537	141277	50156	4186	375156
7. Sales/Operating Income	160588	1336357	56075	10628	1563648
8. i) Total Emoluments (incl. perks)	6781	9645	1780	3147	21353
ii) Of which Bonus	538	518	72	67	1195
iii) Average Emoluments per person p.a.	0.19	0.24	0.21	0.20	0.21
9. Inventories	34538	173903	14288	2697	225426
10. Adjusted Gross Profit	88926	31542	9208	1054	130730
11. Adjusted Net Profit	47577	10636	6865	358	65436
12. Dividends Declared	2562	2941	89	38	5630
13. Corporate Tax	30691	5993	NIL	332	37016
% Age of:-					
a) Net Profit to Equity	120.2	58.8	22.9	44.9	74.0
b) Net Profit to Net Worth	46.7	12.6	15.8	19.0	28.3
c) Gross Profit to Capital Emp.	49.5	22.3	18.4	25.2	34.8
d) Sales to Capital Emp.	89.4	945.9	111.8	253.9	416.8
e) Gross Profit to Sales	55.4	2.4	16.4	9.9	8.4
f) Equity Loan Ratio	0.39	0.48	1.61	0.45	0.56

Source : 1. Annual Reports of the Companies.
2. There is no authorised Capital in respect of ONGC in exploration & production category

TABLE NO.4

CONSOLIDATED FINANCIAL STRUCTURE OF EXPLORATION & PRODUCTION

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	8000	8000	8000
2. i) Paid-up Capital	39585	39585	39585
ii) Preference Capital	---	---	NIL
iii) Reserve & Surpluse	66725	138865	224286
3. i) Total Loans	101059	166151	193776
ii) Of which Foreign	26595	89792	106896
4. Cash Credits/Advances from Banks/Others	---	---	3615
5. Net Worth	101897	173850	261536
6. i) Net Fixed Assets	144608	201045	272656
ii) Working Capital	34929	33319	38297
iii) Capital Empl.(i+ii)	179537	234364	310953
7. Sales/Operating Income	160784	275341	387917
8. i) Total Emoluments (incl. perks)	6781	10206	14274
ii) Of which Bonus	538	937	884
iii) Average Emoluments per person p.a.	0.19	0.24	0.36
9. Inventories	34538	46194	52839
10. Adjusted Gross Profit	88926	155054	197426
11. Adjusted Net Profit	47577	79906	86539
12. Dividends Declared	2562	3163	3506
13. Corporate Tax	30691	63599	93479
% Age of:-			
a) Net Profit to Equity	120.2	201.9	218.6
b) Net Profit to Net Worth	46.7	46.0	33.1
c) Gross Profit to Capital Emp.	49.5	66.2	63.5
d) Sales to Capital Emp.	89.4	117.5	124.8
e) Gross Profit to Sales	55.4	56.3	50.9
f) Equity Loan Ratio	0.39	0.24	0.20

Source : 1. Annual Reports of the Undertaking.
2. There is no authorised Capital in respect of ONGC.

TABLE NO. 5

FINANCIAL STRUCTURE

NAME OF THE COMPANY : OIL AND NATURAL GAS COMMISSION.

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	There is no	authorised capital in	respect of ONGC.
2. i) Paid-up Capital	34285	34285	34285
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluse	60230	126762	204242
3. i) Total Loans	95757	161304	188046
ii) Of which Foreign	26574	89775	105623
4. Cash Credits/Advances from Banks/Others	NIL	NIL	3615
5. Net Worth	90561	156803	236192
6. i) Net Fixed Assets	132102	193072	264136
ii) Working Capital	30797	25579	25271
iii) Capital Empl.(i+ii)	162899	218651	289407
7. Sales/Operating Income	134849	240113	347282
8. i) Total Emoluments (incl. perks)	5966	9095	12687
ii) Of which Bonus	457	851	782
iii) Average Emoluments per person	0.19	0.28	0.34
9. Inventories	30115	39680	46247
10. Adjusted Gross Profit	69521	132631	177010
11. Adjusted Net Profit	41238	71812	79934
12. Dividends Declared	2142	2743	3086
13. Corporate Tax	19750	49000	80200
% Age of:-			
a) Net Profit to Equity	120.3	209.4	233.2
b) Net Profit to Net Worth	45.5	45.8	33.8
c) Gross Profit to Capital Emp.	42.7	60.6	61.2
d) Sales to Capital Emp.	82.8	109.8	120.0
e) Gross Profit to Sales	51.5	55.2	51.0
f) Equity Loan Ratio	0.36	0.21	0.18

Source : 1. Annual Reports of the Companies.
2. There is no authorised Capital in respect of ONGC.

TABLE NO. 6

FINANCIAL STRUCTURE

NAME OF THE COMPANY : HYDROCARBONS INDIA LIMITED

Rs./Lakhs.

ITEM	1981	1982	1983
(1)	(2)	(3)	(4)
1. Authorised Capital	3000	3000	3000
2. i) Paid-up Capital	2500	2500	2500
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluse	279	266	2009
3. i) Total Loans	NIL	NIL	NIL
ii) Of which Foreign	NIL	NIL	NIL
4. Cash Credits/Advances from Banks/Others	NIL	NIL	NIL
5. Net Worth	2320	2408	4509
6. i) Net Fixed Assets	275	238	NIL
ii) Working Capital	2045	2169	4508
iii) Capital Empl.(i+ii)	2320	2407	4508
7. Sales/Operating Income	NIL	NIL	NIL
8. i) Total Emoluments (incl. perks)	2	2	3
ii) Of which Bonus	Neg.	Neg.	Neg.
iii) Average Emoluments per person	0.23	0.26	0.38
9. Inventories	NIL	NIL	NIL
10. Gross Profit	35	63	93
11. Net Profit	-43	-13	-10
12. Dividends Declared	NIL	NIL	NIL
13. Corporate Tax	78	76	103
% Age of:-			
a) Net Profit to Equity	LOSS	LOSS	Negative
b) Net Profit to Net Worth	LOSS	LOSS	Negative
c) Gross Profit to Capital Emp.	1.5	2.6	2.0
d) Sales to Capital Emp.	NIL	NIL	NIL
e) Gross Profit to Sales	NIL	NIL	NIL
f) Equity Loan Ratio	NIL	NIL	NIL

Source : 1. Annual Reports of the Company.
2. Figurs in respect of HIL are as on 31st December of each year mentioned above.

TABLE NO. 7

FINANCIAL STRUCTURE

NAME OF THE COMPANY : OIL INDIA LIMITED.

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	5000	5000	5000
2. i) Paid-up Capital	2800	2800	2800
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluses	6216	11837	18035
3. i) Total Loans	5302	4847	5730
ii) Of which Foreign	21	17	1273
4. Cash Credits/Advances from Banks/Others	NIL	NIL	NIL
5. Net Worth	9016	14637	20835
6. i) Net Fixed Assets	12231	7735	8520
ii) Working Capital	2087	5571	8518
iii) Capital Empl.(i+ii)	14318	13306	17038
7. Sales/Operating Income	25739	35178	40635
8. i) Total Emoluments (incl. perks)	813	1109	1584
ii) Of which Bonus	81	86	102
iii) Average Emoluments per person	0.16	0.17	0.35
9. Inventories	4423	6514	6592
10. Adjusted Gross Profit	19370	22360	20323
11. Adjusted Net Profit	6382	8107	6615
12. Dividends Declared	420	420	420
13. Corporate Tax	10863	14523	13176
% Age of:-			
a) Net Profit to Equity	227.9	289.5	236.3
b) Net Profit to Net Worth	70.8	55.4	31.8
c) Gross Profit to Capital Emp.	135.3	168.0	119.3
d) Sales to Capital Emp.	179.8	264.3	238.5
e) Gross Profit to Sales	75.2	63.6	50.0
f) Equity Loan Ratio	0.53	0.58	0.49

Source : 1. Annual Reports of the Company.

TABLE NO. 8

CONSOLIDATED FINANCIAL STRUCTURE

NAME OF THE COMPANY : REFINING AND MARKETING

Rs./Lakhs.

ITEM	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	23245	23245	43320
2. i) Paid-up Capital	18049	18049	20752
ii) Preference Capital	50	50	50
iii) Reserve & Surpluse	66681	80905	92296
3. i) Total Loans	37661	56446	113444
ii) Of which Foreign	36	4	1835
4. Cash Credits/Advances from Banks/Others	69738	46038	49244
5. Net Worth	84263	98468	112554
6. i) Net Fixed Assets	63989	85777	89471
ii) Working Capital	77288	64507	100643
iii) Capital Empl.(i+ii)	141277	150284	190114
7. Sales/Operating Income	1336357	1562974	1640906
8. i) Total Emoluments (incl. perks)	9645	12574	14772
ii) Of which Bonus	518	1016	1094
iii) Average Emoluments per person	0.24	0.28	0.30
9. Inventories	173903	160019	192823
10. Adjusted Gross Profit	31542	34918	30565
11. Adjusted Net Profit	10636	16938	11109
12. Dividends Declared	2941	2384	2506
13. Corporate Tax	5993	6584	6960
% Age of:-			
a) Net Profit to Equity	58.8	93.8	53.4
b) Net Profit to Net Worth	12.6	17.2	9.8
c) Gross Profit to Capital Emp.	22.3	23.2	16.0
d) Sales to Capital Emp.	945.9	1040.0	863.1
e) Gross Profit to Sales	2.4	2.2	1.9
f) Equity Loan Ratio	0.48	0.32	0.18

Source : 1. Annual Reports of the Company.

TABLE NO. 9

FINANCIAL STRUCTURE

NAME OF THE COMPANY : INDIAN OIL CORPORATION LIMITED.

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	15000	15000	15000
2. i) Paid-up Capital	12327	12327	12327
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluses	47201	57160	63689
3. i) Total Loans	27135	29530	48185
ii) Of which Foreign	36	4	NIL
4. Cash Credits/Advances from Banks/Others	43326	26158	22861
5. Net Worth	59528	69487	76016
6. i) Net Fixed Assets	50167	67801	64908
ii) Working Capital	48462	42048	63591
iii) Capital Empl.(i+ii)	98629	109849	128499
7. Sales/Operating Income	794005	978683	1028182
8. i) Total Emoluments (incl. perks)	6180	8296	9778
ii) Of which Bonus	353	673	715
iii) Average Emoluments per person	0.24	0.30	0.34
9. Inventories	102409	107514	132214
10. Adjusted Gross Profit	17696	23159	22020
11. Adjusted Net Profit	7589	12593	7896
12. Dividends Declared	1726	1726	1726
13. Corporate Tax	750	3323	6150
% Age of:-			
a) Net Profit to Equity	61.6	102.2	64.0
b) Net Profit to Net Worth	12.7	18.1	10.4
c) Gross Profit to Capital Emp.	17.9	21.1	17.1
d) Sales to Capital Emp.	805.0	890.9	800.2
e) Gross Profit to Sales	2.2	2.4	2.1
f) Equity Loan Ratio	0.45	0.42	0.26

Source : 1. Annual Reports of the Company.

TABLE NO. 10

FINANCIAL STRUCTURE

NAME OF THE COMPANY : BHARAT PETROLEUM CORPORATION LIMITED.

Rs./Lakhs.

ITEM	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	2500	2500	2500
2. i) Paid-up Capital	1454	1454	1657
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluses	6182	7577	9191
3. i) Total Loans	NIL	2120	6536
ii) Of which Foreign	NIL	NIL	1835
4. Cash Credits/Advances from Banks/Others	8261	10554	17563
5. Net Worth	7635	9031	10848
6. i) Net Fixed Assets	4143	5038	6664
ii) Working Capital	8536	8237	12095
iii) Capital Empl.(i+ii)	12679	13275	18759
7. Sales/Operating Income	151542	172409	187106
8. i) Total Emoluments (incl. perks)	1427	1815	2105
ii) Of which Bonus	63	148	177
iii) Average Emoluments per person	0.20	0.30	0.30
9. Inventories	26972	13379	16202
10. Adjusted Gross Profit	3063	2695	2260
11. Adjusted Net Profit	836	85	579
12. Dividends Declared	204	NIL	NIL
13. Corporate Tax	1554	1650	350
% Age of:-			
a) Net Profit to Equity	57.5	5.9	34.9
b) Net Profit to Net Worth	10.9	0.9	5.3
c) Gross Profit to Capital Emp.	24.1	20.3	12.0
d) Sales to Capital Emp.	1195.2	1298.8	997.4
e) Gross Profit to Sales	2.0	1.6	1.2
f) Equity Loan Ratio	NIL	0.69	0.25

Source : 1. Annual Reports of the Company.

TABLE NO. 11

FINANCIAL STRUCTURE

NAME OF THE COMPANY : HINDUSTAN PETROLEUM CORPORATION LIMITED.

Rs./Lakhs.

ITEM	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	2075	2075	10000
2. i) Paid-up Capital	1520	1520	4020
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluse	9719	11335	12812
3. i) Total Loans	4732	10043	22390
ii) Of which Foreign	NIL	NIL	NIL
4. Cash Credits/Advances from Banks/Others	9477	6834	6919
5. Net Worth	10734	12325	16291
6. i) Net Fixed Assets	6993	9348	12001
ii) Working Capital	13137	8084	10637
iii) Capital Empl.(i+ii)	20130	17432	22638
7. Sales/Operating Income	197813	219044	246079
8. i) Total Emoluments (incl. perks)	1344	1627	1887
ii) Of which Bonus	58	136	143
iii) Average Emoluments per person	0.23	0.26	0.27
9. Inventories	27754	24121	29672
10. Adjusted Gross Profit	4481	5018	2965
11. Adjusted Net Profit	697	1728	901
12. Dividends Declared	213	213	311
13. Corporate Tax	1599	831	23
% Age of:-			
a) Net Profit to Equity	45.8	113.7	22.4
b) Net Profit to Net Worth	6.5	14.0	5.5
c) Gross Profit to Capital Emp.	22.3	28.8	13.1
d) Sales to Capital Emp.	982.7	1256.6	1087.0
e) Gross Profit to Sales	2.3	2.3	1.2
f) Equity Loan Ratio	0.32	0.15	0.18

Source : 1. Annual Reports of the Company.

TABLE NO. 12

FINANCIAL STRUCTURE

NAME OF THE COMPANY : COCHIN REFINERIES LIMITED.

Rs./Lakhs.

ITEM	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	1500	1500	1500
2. i) Paid-up Capital	700	700	700
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluse	443	1004	1810
3. i) Total Loans	2842	5633	14370
ii) Of which Foreign	NIL	NIL	NIL
4. Cash Credits/Advances from Banks/Others	3759	2104	1530
5. Net Worth	1143	1704	2511
6. i) Net Fixed Assets	744	1040	985
ii) Working Capital	3831	1985	4682
iii) Capital Empl.(i+ii)	4575	3025	5667
7. Sales/Operating Income	76803	70212	58066
8. i) Total Emoluments (incl. perks)	118	121	140
ii) Of which Bonus	6	6	7
iii) Average Emoluments per person	0.25	0.24	0.22
9. Inventories	6290	7685	2761
10. Adjusted Gross Profit	3010	1787	1370
11. Adjusted Net Profit	584	1275	883
12. Dividends Declared	507	140	140
13. Corporate Tax	968	78	NIL
% Age of:-			
a) Net Profit to Equity	83.4	182.1	126.1
b) Net Profit to Net Worth	51.1	74.8	35.2
c) Gross Profit to Capital Emp.	65.8	59.1	24.2
d) Sales to Capital Emp.	1678.8	2321.1	1024.6
e) Gross Profit to Sales	3.9	2.6	2.4
f) Equity Loan Ratio	0.25	0.12	0.05

Source : 1. Annual Reports of the Company.

TABLE NO. 13

FINANCIAL STRUCTURE

NAME OF THE COMPANY : MADRAS REFINERIES LIMITED.

Rs./Lakhs.

ITEM	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	1350	1350	13500
2. i) Paid-up Capital	1288	1288	1288
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluse	1620	1834	2294
3. i) Total Loans	2932	8953	21665
ii) Of which Foreign	NIL	NIL	NIL
4. Cash Credits/Advances from Banks/Others	4069	NIL	NIL
5. Net Worth	2896	3116	3578
6. i) Net Fixed Assets	819	1189	3238
ii) Working Capital	1872	2927	8059
iii) Capital Empl.(i+ii)	2691	4116	11297
7. Sales/Operating Income	73280	71429	62522
8. i) Total Emoluments (incl. perks)	115	142	171
ii) Of which Bonus	7	14	16
iii) Average Emoluments per person	0.22	0.24	0.25
9. Inventories	8961	5590	9952
10. Adjusted Gross Profit	2752	1122	882
11. Adjusted Net Profit	659	716	172
12. Dividends Declared	193	193	193
13. Corporate Tax	906	199	3
% Age of:-			
a) Net Profit to Equity	51.2	55.6	13.4
b) Net Profit to Net Worth	22.8	23.0	4.8
c) Gross Profit to Capital Emp.	102.3	27.3	7.8
d) Sales to Capital Emp.	2723.2	1735.4	553.4
e) Gross Profit to Sales	3.8	1.6	1.4
f) Equity Loan Ratio	0.44	0.14	0.06

Source : 1. Annual Reports of the Company.

TABLE NO. 14

FINANCIAL STRUCTURE

NAME OF THE COMPANY : IBP CO. LIMITED.

Rs./Lakhs.

ITEM	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	300	300	300
2. i) Paid-up Capital	240	240	240
ii) Preference Capital	50	50	50
iii) Reserve & Surpluse	642	889	1190
3. i) Total Loans	NIL	NIL	NIL
ii) Of which Foreign	NIL	NIL	NIL
4. Cash Credits/Advances from Banks/Others	701	364	180
5. Net Worth	933	1179	1480
6. i) Net Fixed Assets	644	740	912
ii) Working Capital	393	124	148
iii) Capital Empl.(i+ii)	1037	864	1060
7. Sales/Operating Income	38253	44941	50819
8. i) Total Emoluments (incl. perks)	234	303	356
ii) Of which Bonus	19	19	19
iii) Average Emoluments per person	0.18	0.22	0.23
9. Inventories	423	457	600
10. Adjusted Gross Profit	404	528	543
11. Adjusted Net Profit	197	242	297
12. Dividends Declared	41	41	46
13. Corporate Tax	176	238	230
% Age of:-			
a) Net Profit to Equity	67.9	83.5	102.4
b) Net Profit to Net Worth	21.1	20.5	20.0
c) Gross Profit to Capital Emp.	38.9	61.1	51.2
d) Sales to Capital Emp.	3688.9	5201.5	4794.3
e) Gross Profit to Sales	1.1	1.2	1.0
f) Equity Loan Ratio	NIL	NIL	NIL

Source : 1. Annual Reports of the Company.

TABLE NO. 15

FINANCIAL STRUCTURE

NAME OF THE COMPANY : LUBRIZOL INDIA LIMITED.

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	480	480	480
2. i) Paid-up Capital	480	480	480
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluse	730	926	1116
3. i) Total Loans	20	167	298
ii) Of which Foreign	NIL	NIL	NIL
4. Cash Credits/Advances from Banks/Others	123	NIL	168
5. Net Worth	1210	1406	1596
6. i) Net Fixed Assets	318	452	603
ii) Working Capital	1012	1029	1337
iii) Capital Empl.(i+ii)	1330	1481	1940
7. Sales/Operating Income	4396	5951	7796
8. i) Total Emoluments (incl. perks)	95	117	152
ii) Of which Bonus	4	5	4
iii) Average Emoluments per person	0.33	0.36	0.43
9. Inventories	1081	1257	1409
10. Adjusted Gross Profit	87	545	487
11. Adjusted Net Profit	51	263	275
12. Dividends Declared	53	67	86
13. Corporate Tax	16	240	183
% Age of:-			
a) Net Profit to Equity	10.6	54.8	57.3
b) Net Profit to Net Worth	4.2	18.7	17.2
c) Gross Profit to Capital Emp.	6.5	36.8	25.1
d) Sales to Capital Emp.	330.5	401.8	401.9
e) Gross Profit to Sales	1.9	9.2	6.3
f) Equity Loan Ratio	24.0	2.87	1.6

Source : 1. Annual Reports of the Company.

TABLE NO. 16

FINANCIAL STRUCTURE

NAME OF THE COMPANY : INDIAN OIL BLENDING LIMITED.

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	40	40	40
2. i) Paid-up Capital	40	40	40
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluse	144	180	194
3. i) Total Loans	NIL	NIL	NIL
ii) Of which Foreign	NIL	NIL	NIL
4. Cash Credits/Advances from Banks/Others	22	24	23
5. Net Worth	184	220	234
6. i) Net Fixed Assets	161	169	160
ii) Working Capital	45	73	94
iii) Capital Empl.(i+ii)	206	242	254
7. Sales/Operating Income	265	305	336
8. i) Total Emoluments (incl. perks)	132	153	183
ii) Of which Bonus	8	15	13
iii) Average Emoluments per person	0.26	0.30	0.35
9. Inventories	13	16	13
10. Adjusted Gross Profit	49	64	38
11. Adjusted Net Profit	23	36	16
12. Dividends Declared	4	4	4
13. Corporate Tax	24	25	21
% Age of:-			
a) Net Profit to Equity	57.5	90.0	40.0
b) Net Profit to Net Worth	12.5	16.4	6.8
c) Gross Profit to Capital Emp.	23.8	26.5	15.0
d) Sales to Capital Emp.	128.6	126.0	132.2
e) Gross Profit to Sales	18.5	20.9	11.3
f) Equity Loan Ratio	NIL	NIL	NIL

Source : 1. Annual Reports of the Company.

TABLE NO. 17

"CONSOLIDATED FINANCIAL STRUCTURE OF PETROCHEMICALS & OTHER DOWN STREAM UNITS"

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	32000	32000	42000
2. i) Paid-up Capital	29935	29939	29944
ii) Preference Capital	---	--	NIL
iii) Reserve & Surpluse	13592	19854	23840
3. i) Total Loans	18560	19862	22041
ii) Of which Foreign	147	57	214
4. Cash Credits/Advances from Banks/Others	1015	2257	1311
5. Net Worth	43516	49785	53756
6. i) Net Fixed Assets	31654	30094	32182
ii) Working Capital	18502	22152	21871
iii) Capital Empl.(i+ii)	50156	52246	54053
7. Sales/Operating Income	56075	65282	71566
8. i) Total Emoluments (incl. perks)	1780	2056	2608
ii) Of which Bonus	72	133	127
iii) Average Emoluments per person	0.21	0.24	0.27
9. Inventories	14288	16428	15431
10. Adjusted Gross Profit	9208	8495	7442
11. Adjusted Net Profit	6865	6232	4086
12. Dividends Declared	89	89	89
13. Corporate Tax	NIL	109	570
% Age of:-			
a) Net Profit to Equity	22.9	20.8	13.6
b) Net Profit to Net Worth	15.8	12.5	7.6
c) Gross Profit to Capital Emp.	18.4	16.3	13.8
d) Sales to Capital Emp.	111.8	125.0	132.4
e) Gross Profit to Sales	16.4	13.0	10.4
f) Equity Loan Ratio	1.61	1.51	1.36

Source : 1. Annual Reports of the Companies.

TABLE NO. 18

FINANCIAL STRUCTURE

NAME OF THE COMPANY : INDIAN PETRO CHEMICAL CORPORATION LIMITED.

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	20000	20000	20000
2. i) Paid-up Capital	18600	18600	18600
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluse	11174	16263	19428
3. i) Total Loans	10052	8952	6222
ii) Of which Foreign	147	57	22
4. Cash Credits/Advances from Banks/Others	758	1364	145
5. Net Worth	29774	34863	38028
6. i) Net Fixed Assets	20842	20058	21012
ii) Working Capital	15832	18943	16857
iii) Capital Empl.(i+ii)	36674	39001	37869
7. Sales/Operating Income	40622	44269	47231
8. i) Total Emoluments (incl. perks)	1365	1558	1989
ii) Of which Bonus	53	111	105
iii) Average Emoluments per person	0.24	0.29	0.33
9. Inventories	10756	12418	10062
10. Adjusted Gross Profit	7104	6377	4733
11. Adjusted Net Profit	5511	5136	3181
12. Dividends Declared	NIL	NIL	NIL
13. Corporate Tax	NIL	NIL	515
% Age of:-			
a) Net Profit to Equity	29.6	27.6	17.1
b) Net Profit to Net Worth	18.5	14.7	8.4
c) Gross Profit to Capital Emp.	19.3	16.4	12.5
d) Sales to Capital Emp.	110.8	113.5	124.7
e) Gross Profit to Sales	17.5	14.4	10.0
f) Equity Loan Ratio	1.85	2.08	2.99

Source : 1. Annual Reports of the Company.

TABLE NO. 19

FINANCIAL STRUCTURE

NAME OF THE COMPANY : PETROFILS COOPERATIVES LIMITED.

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	2000	2000	2000
2. i) Paid-up Capital	1485	1489	1494
ii) Preference Capital	NIL	NIL	NIL
iii) Reserves & Surpluses	2241	2777	3346
3. i) Total Loans	996	994	1172
ii) Of which Foreign	NIL	NIL	NIL
4. Cash Credits/Advances from Banks/Others	142	232	68
5. Net Worth	3726	4267	4840
6. i) Net Fixed Assets	3101	2809	3442
ii) Working Capital	1348	1466	2058
iii) Capital Empl.(i+ii)	4449	4275	5500
7. Sales/Operating Income	7047	7771	10936
8. i) Total Emoluments (incl. perks)	232	266	346
ii) Of which Bonus	19	22	22
iii) Average Emoluments per person	0.19	0.20	0.24
9. Inventories	1237	1391	1848
10. Adjusted Gross Profit	943	844	871
11. Adjusted Net Profit	816	593	611
12. Dividends Declared	89	89	89
13. Corporate Tax	NIL	109	55
% Age of:-			
a) Net Profit to Equity	54.9	39.8	40.9
b) Net Profit to Net Worth	21.9	13.9	12.6
c) Gross Profit to Capital Emp.	21.2	19.7	15.8
d) Sales to Capital Emp.	158.4	181.4	198.8
e) Gross Profit to Sales	13.4	10.8	7.9
f) Equity Loan Ratio	1.49	1.50	1.27

Source : 1. Annual Reports of the Company.

TABLE NO. 20

FINANCIAL STRUCTURE

NAME OF THE COMPANY : BOAGAIGAON REFINERY & PETRO-CHEMICALS LIMITED.

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	10000	10000	20000
2. i) Paid-up Capital	9850	9850	9850
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluses	177	814	1066
3. i) Total Loans	7512	9916	14647
ii) Of which Foreign	NIL	NIL	192
4. Cash Credits/Advances from Banks/Others	115	661	1098
5. Net Worth	10016	10655	10888
6. i) Net Fixed Assets	7711	7227	7728
ii) Working Capital	1322	1743	2956
iii) Capital Empl.(i+ii)	9033	8970	10684
7. Sales/Operating Income	8406	13242	13399
8. i) Total Emoluments (incl. perks)	183	232	273
ii) Of which Bonus	NIL	NIL	NIL
iii) Average Emoluments per person	0.20	0.24	0.25
9. Inventories	2295	2619	3521
10. Adjusted Gross Profit	1161	1274	1838
11. Adjusted Net Profit	538	503	294
12. Dividends Declared	NIL	NIL	NIL
13. Corporate Tax	NIL	NIL	NIL
% Age of:-			
a) Net Profit to Equity	5.5	5.1	3.0
b) Net Profit to Net Worth	5.4	4.7	2.7
c) Gross Profit to Capital Emp.	12.9	14.2	17.2
d) Sales to Capital Emp.	93.1	147.6	125.4
e) Gross Profit to Sales	13.8	9.6	13.7
f) Equity Loan Ratio	1.31	0.99	0.67

Source : 1. Annual Reports of the Company.

TABLE NO. 21

CONSOLIDATED FINANCIAL STRUCTURE

NAME OF THE COMPANY : ENGENEERING SERVICES AND OTHER UNITS.

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	1450	1450	1450
2. i) Paid-up Capital	797	840	940
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluse	2496	3191	3390
3. i) Total Loans	1779	2469	2468
ii) Of which Foreign	NIL	NIL	NIL
4. Cash Credits/Advances from Banks/Others	995	1265	1311
5. Net Worth	1878	2586	3452
6. i) Net Fixed Assets	1181	1507	2787
ii) Working Capital	3005	3677	4082
iii) Capital Empl.(i+ii)	4186	5184	6869
7. Sales/Operating Income	10628	13944	15696
8. i) Total Emoluments (incl. perks)	3147	3961	4936
ii) Of which Bonus	67	71	73
iii) Average Emoluments per person	0.20	0.23	0.26
9. Inventories	2697	2805	4048
10. Adjusted Gross Profit	1054	1618	2166
11. Adjusted Net Profit	358	689	814
12. Dividends Declared	38	34	40
13. Corporate Tax	332	455	812
% Age of:-			
a) Net Profit to Equity	44.9	82.0	86.6
b) Net Profit to Net Worth	19.0	26.6	23.6
c) Gross Profit to Capital Emp.	25.2	31.2	31.5
d) Sales to Capital Emp.	253.9	268.9	228.5
e) Gross Profit to Sales	9.9	11.6	13.8
f) Equity Loan Ratio	0.45	0.34	0.38

Source : 1. Annual Reports of the Companies and also data submitted by Bridge and Roof for 1982-83 and 1983-84.

TABLE NO. 22

FINANCIAL STRUCTURE

NAME OF THE COMPANY : ENGINEERS INDIA LIMITED.

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	200	200	200
2. i) Paid-up Capital	50	50	50
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluse	1946	2539	3190
3. i) Total Loans	NIL	NIL	1
ii) Of which Foreign	NIL	NIL	NIL
4. Cash Credits/Advances from Banks/Others	NIL	NIL	NIL
5. Net Worth	1996	2589	3241
6. i) Net Fixed Assets	442	538	1673
ii) Working Capital	1270	1391	1393
iii) Capital Empl.(i+ii)	1712	1929	3066
7. Sales/Operating Income	2262	4080	4100
8. i) Total Emoluments (incl. perks)	1032	1298	1438
ii) Of which Bonus	23	25	25
iii) Average Emoluments per person	0.33	0.38	0.40
9. Inventories	17	27	29
10. Adjusted Gross Profit	541	965	1349
11. Adjusted Net Profit	373	575	659
12. Dividends Declared	8	8	8
13. Corporate Tax	225	390	690
% Age of:-			
a) Net Profit to Equity	746.0	1150.0	1318.0
b) Net Profit to Net Worth	18.6	22.2	20.3
c) Gross Profit to Capital Emp.	31.6	50.0	44.0
d) Sales to Capital Emp.	132.1	211.6	133.7
e) Gross Profit to Sales	23.9	23.6	32.9
f) Equity Loan Ratio	NIL	NIL	50.0

Source : 1. Annual Reports of the Company.

TABLE NO. 23

FINANCIAL STRUCTURE

NAME OF THE COMPANY : BALMER LAWRIE AND COMPANY LIMITED.

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	300	300	300
2. i) Paid-up Capital	189	189	189
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluse	501	577	705
3. i) Total Loans	307	286	361
ii) Of which Foreign	NIL	NIL	NIL
4. Cash Credits/Advances from Banks/Others	587	1036	1143
5. Net Worth	691	765	893
6. i) Net Fixed Assets	492	598	689
ii) Working Capital	998	1339	1447
iii) Capital Empl.(i+ii)	1490	1937	2136
7. Sales/Operating Income	4172	4556	5902
8. i) Total Emoluments (incl. perks)	346	420	483
ii) Of which Bonus	21	22	23
iii) Average Emoluments per person	0.19	0.21	0.23
9. Inventories	844	782	863
10. Adjusted Gross Profit	379	360	526
11. Adjusted Net Profit	106	105	167
12. Dividends Declared	30	26	32
13. Corporate Tax	107	65	122
% Age of:-			
a) Net Profit to Equity	56.1	55.6	88.4
b) Net Profit to Net Worth	15.3	13.7	18.7
c) Gross Profit to Capital Emp.	25.4	18.6	24.6
d) Sales to Capital Emp.	280.0	235.2	276.3
e) Gross Profit to Sales	9.1	7.9	8.9
f) Equity Loan Ratio	0.62	0.66	0.52

Source : 1. Annual Reports of the Company.

TABLE NO. 24

FINANCIAL STRUCTURE

NAME OF THE COMPANY : BIECCO LAWRIE AND COMPANY LIMITED.

Rs./Lakhs.

ITEM	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	250	250	250
2. i) Paid-up Capital	134	177	177
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluse	3	3	3
3. i) Total Loans	817	1091	1325
ii) Of which Foreign	NIL	NIL	NIL
4. Cash Credits/Advances from Banks/Others	98	34	113
5. Net Worth	-706	-825	-1081
6. i) Net Fixed Assets	92	94	101
ii) Working Capital	196	180	243
iii) Capital Empl.(i+ii)	288	274	344
7. Sales/Operating Income	585	600	546
8. i) Total Emoluments (incl. perks)	191	213	236
ii) Of which Bonus	9	9	9
iii) Average Emoluments per person p.a.	0.13	0.14	0.16
9. Inventories	240	263	303
10. Adjusted Gross Profit	-1	-13	-73
11. Adjusted Net Profit	-139	-155	-253
12. Dividends Declared	NIL	NIL	NIL
13. Corporate Tax	NIL	NIL	NIL
% Age of:-			
a) Net Profit to Equity	LOSS	LOSS	LOSS
b) Net Profit to Net Worth	LOSS	LOSS	LOSS
c) Gross Profit to Capital Emp.	LOSS	LOSS	LOSS
d) Sales to Capital Emp.	203.1	219.0	158.7
e) Gross Profit to Sales	LOSS	LOSS	LOSS
f) Equity Loan Ratio	0.16	0.16	0.13

Source : 1. Annual Reports of the Company.

TABLE NO. 25

FINANCIAL STRUCTURE

NAME OF THE COMPANY : BRIDGE AND ROOF COMPANY (INDIA) LIMITED.

Rs./Lakhs.

ITEM	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	700	700	700
2. i) Paid-up Capital	424	424	524
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluse	46	72	92
3. i) Total Loans	655	1092	1001
ii) Of which Foreign	NIL	NIL	NIL
4. Cash Credits/Advances from Banks/Others	310	195	55
5. Net Worth	-103	57	399
6. i) Net Fixed Assets	155	277	324
ii) Working Capital	541	767	999
iii) Capital Empl.(i+ii)	696	1044	1323
7. Sales/Operating Income	3609	4708	5148
8. i) Total Emoluments (incl. perks)	1578	2030	2779
ii) Of which Bonus	14	15	16
iii) Average Emoluments per person p.a.	0.14	0.18	0.23
9. Inventories	1596	1733	2853
10. Adjusted Gross Profit	135	306	364
11. Adjusted Net Profit	18	164	241
12. Dividends Declared	NIL	NIL	NIL
13. Corporate Tax	NIL	NIL	NIL
% Age of:-			
a) Net Profit to Equity	4.2	38.9	45.9
b) Net Profit to Net Worth	Neg.	287.7	60.4
c) Gross Profit to Capital Emp.	19.4	29.3	27.5
d) Sales to Capital Emp.	518.5	450.9	389.1
e) Gross Profit to Sales	3.8	6.5	7.1
f) Equity Loan Ratio	0.65	0.39	0.52

Note : figures of the Company for 1982-83 and 1983-84 are unaudited as the accounts are currently under audit.

TABLE NO. 26

FINANCIAL STRUCTURE

NAME OF THE COMPANY : PETROCHEMICAL PRIVATE SECTOR
ALL CATEGORIES

Rs./Crores

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
No. of Companies.	36	36	35
1. Authorised Capital	438.10	453.71	485.17
2. i) Paid-up Capital	224.70	255.26	305.05
ii) Preference Capital	15.60	14.91	15.86
iii) Reserve & Surpluse	400.90	484.72	605.47
3. i) Total Loans	339.30	525.03	723.32
ii) Of which Foreign	18.90	27.00	35.45
4. Cash Credits/Advances from Banks/Others	313.50	386.64	396.92
5. Net Worth	629.40	690.33	863.93
6. i) Net Fixed Assets	648.80	801.77	1142.72
ii) Working Capital	560.00	578.62	671.65
iii) Capital Empl.(i+ii)	1208.80	1380.39	1814.37
7. Sales/Operating Income	2333.10	2580.71	3090.29
8. Value of Production	1904.80	2003.32	2326.74
9. Net Value added	642.50	693.36	951.79
10. Gross Profit	181.70	145.45	172.47
11. Net Profit	68.60	28.26	56.04
12. Dividends Declared	33.90	28.94	39.97
% Age of:-			
a) Net Profit to Equity	30.5	11.0	18.4
b) Net Profit to Net Worth	10.9	4.1	6.5
c) Gross Profit to Capital Emp.	15.0	10.5	9.5
d) Sales to Capital Emp.	193.0	187.0	170.3
e) Gross Profit to Sales	7.8	5.6	5.6
f) Equity Loan Ratio	0.66	0.49	0.42

Source : Annual Reports of the Companies & data submitted by Private Companies.

TABLE NO. 27

CONSOLIDATED FINANCIAL STRUCTURE

NAME OF THE COMPANY : SYNTHETICS FIBRE PRIVATE SECTOR

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
No. of Companies.	14	14	13
1. Authorised Capital	18379	21567	21667
2. i) Paid-up Capital	8939	10558	11587
ii) Preference Capital	926	859	959
iii) Reserve & Surpluse	19590	25908	27616
3. i) Total Loans	15730	26405	37134
ii) Of which Foreign	936	1280	1700
4. Cash Credits/Advances from Banks/Others	9329	13934	15404
5. Net Worth	28515	35403	38590
6. i) Net Fixed Assets	32588	48790	64132
ii) Working Capital	18400	25161	27567
iii) Capital Empl.(i+ii)	50988	73951	91699
7. Sales/Operating Income	94845	122764	127024
8. Value of Production	64131	81098	81198
9. Net Value added	26843	31055	31268
10.Gross Profit	9370	7942	8032
11.Net Profit	4728	816	1447
12. Dividends Declared	1772	1402	1554
% Age of:-			
a) Net Profit to Equity	52.9	7.7	12.5
b) Net Profit to Net Worth	16.6	2.3	3.8
c) Gross Profit to Capital Emp.	18.4	10.7	8.8
d) Sales to Capital Emp.	186.0	166.0	138.5
e) Gross Profit to Sales	9.9	6.5	6.3
f) Equity Loan Ratio	0.57	0.40	0.31

Source : Annual Reports of the Companies & data Submitted by them.

TABLE NO. 28

CONSOLIDATED FINANCIAL STRUCTURE

NAME OF THE COMPANY : "PLASTIC" PRIVATE SECTOR

Rs./Lakhs.

I T E M	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
No. of Companies.	11	11	11
1. Authorised Capital	10799	10274	13320
2. i) Paid-up Capital	3757	5153	9103
ii) Preference Capital	333	286	281
iii) Reserve & Surpluse	7053	8749	18681
3. i) Total Loans	9468	16282	23468
ii) Of which Foreign	328	384	1122
4. Cash Credits/Advances from Banks/Others	10487	16765	17887
5. Net Worth	11979	9944	24004
6. i) Net Fixed Assets	12337	15465	30148
ii) Working Capital	17322	17199	23166
iii) Capital Empl.(i+ii)	29659	32664	53314
7. Sales/Operating Income	70956	78482	120077
8. Value of Production	65682	69118	97546
9. Net Value added	18453	24065	45716
10.Gross Profit	3258	2457	3716
11.Net Profit	327	1211	2967
12. Dividends Declared	591	580	1486
% Age of:-			
a) Net Profit to Equity	8.7	23.5	32.6
b) Net Profit to Net Worth	2.7	12.2	12.4
c) Gross Profit to Capital Emp.	10.9	7.5	7.0
d) Sales to Capital Emp.	239.2	240.3	225.2
e) Gross Profit to Sales	4.6	3.1	3.0
f) Equity Loan Ratio	0.40	0.32	0.39

Source : Data Submitted by the Companies.

CONSOLIDATED FINANCIAL STRUCTURE

TABLE NO. 29

NAME OF THE COMPANY : "CHEMICALS" "PRIVATE SECTOR"

Rs./Lakhs.

ITEM	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
No. of Companies	11	11	11
1. Authorised Capital	12030	12030	12030
2. i) Paid-up Capital	9194	9234	9234
ii) Preference Capital	296	346	346
iii) Reserve & Surpluse	12951	13505	14019
3. i) Total Loans	8240	9719	11718
ii) Of which Foreign	620	1034	722
4. Cash Credits/Advances from Banks/Others	11014	5366	5670
5. Net Worth	21371	22775	22981
6. i) Net Fixed Assets	19127	15077	19212
ii) Working Capital	19005	14560	15612
iii) Capital Empl.(i+ii)	38132	29637	34824
7. Sales/Operating Income	64752	53533	57929
8. Value of Production	57134	47102	49992
9. Net Value added	17560	12848	16601
10. Gross Profit	5450	4267	5597
11. Net Profit	1908	1039	1288
12. Dividends Declared	1029	912	957
% Age of:-			
a) Net Profit to Equity	20.1	10.8	13.4
b) Net Profit to Net Worth	8.9	4.6	5.6
c) Gross Profit to Capital Emp.	14.3	14.3	16.0
d) Sales to Capital Emp.	169.8	180.6	166.4
e) Gross Profit to Sales	8.4	8.0	9.7
f) Equity Loan Ratio	1.15	0.70	0.82

Source : Data Submitted by the Companies.

TABLE NO. 30

FINANCIAL STRUCTURE

NAME OF THE COMPANY : SYNTHETIC RUBBER. SYNTHETICS & CHEMICALS LTD.

Rs./Lakhs.

ITEM	1981-82	1982-83	1983-84
(1)	(2)	(3)	(4)
1. Authorised Capital	1500	1500	1500
2. i) Paid-up Capital	581	581	581
ii) Preference Capital	NIL	NIL	NIL
iii) Reserve & Surpluse	495	330	237
3. i) Total Loans	519	97	32
ii) Of which Foreign	3	2	1
4. Cash Credits/Advances from Banks/Others	524	779	731
5. Net Worth	1076	911	878
6. i) Net Fixed Assets	822	845	780
ii) Working Capital	1270	942	822
iii) Capital Empl.(i+ii)	2092	1787	1602
7. Sales/Operating Income	2754	3292	3999
8. Value of Production	3531	3014	3938
9. Net Value added	1391	1368	1594
10.Gross Profit	-105	-151	-98
11.Net Profit	-105	-240	-58
12. Dividends Declared	NIL	NIL	NIL
% Age of:-			
a) Net Profit to Equity	LOSS	LOSS	LOSS
b) Net Profit to Net Worth	LOSS	LOSS	LOSS
c) Gross Profit to Capital Emp.	LOSS	LOSS	LOSS
d) Sales to Capital Emp.	131.6	184.2	249.6
e) Gross Profit to Sales	LOSS	LOSS	LOSS
f) Equity Loan Ratio	1.12	5.99	18.2

Source : Data Submitted by the Company.

CAPITAL INVESTMENT OF THE PUBLIC/JOINT SECTOR UNDERTAKINGS AS ON 1-4-1983. 1-4-1984. and 1-4-85.

Rs./Crores

Name of the Undertaking	As on 1-4-1983				As on 1-4-1984				As on 1-4-1985			
	Equity	Loans	Total	Govt. Share	Equity	Loans	Total	Govt. Share	Equity	Loans	Total	Govt. Share
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
A.Exploration & Production	395.9	1668.4	2064.3	448.8	395.9	1926.5	2322.4	435.3	395.9	2309.5	2705.4	413.4
1. ONGC	342.9	1620.0	1962.9	375.5	342.9	1881.8	2224.7	365.4	342.9	2270.9	2613.8	355.2
2. HIL	25.0	NIL	25.0	NIL	25.0	NIL	25.0	NIL	25.0	NIL	25.0	NIL
3. OIL	28.0	48.4	76.4	73.3	28.0	44.7	72.7	69.9	28.0	38.6	66.6	64.2
B.Refining and Marketing	181.0	557.6	738.6	279.1	208.1	1030.2	1238.3	359.6	293.5	1311.2	1604.7	478.4
4. IOC	123.3	295.8	419.1	214.9	123.3	481.0	604.3	196.9	123.3	485.4	608.7	178.8
5. BPCL	14.5	40.6	55.1	14.5	16.6	83.5	100.1	29.7	16.6	139.2	155.8	42.9
6. HPCL	15.2	73.8	89.0	25.1	40.2	148.4	188.6	68.8	40.2	244.0	284.2	88.3
7. CRL	7.0	56.3	63.3	10.2	7.0	97.6	104.6	26.5	7.0	182.2	189.2	38.8
8. MRL	12.9	89.4	102.3	9.5	12.9	216.7	229.6	32.8	98.3	255.1	353.4	124.8
9. IBP Company Ltd.	2.9	NIL	2.9	1.6	2.9	NIL	2.9	1.6	2.9	0.3	3.2	1.9
10. Lubrizol	4.8	1.7	6.5	2.9	4.8	3.0	7.8	2.9	4.8	5.0	9.8	2.9
11. IOB	0.4	NIL	0.4	0.4	0.4	NIL	0.4	0.4	0.4	NIL	0.4	NIL
C.Petrochemical & Other Down Stream Units	299.2	187.2	486.4	381.7	299.4	205.8	505.2	352.0	333.4	185.4	518.8	357.2
12. IPCL	186.0	71.8	257.8	244.5	186.0	37.2	223.2	214.8	186.0	17.6	203.6	197.7
13. Petrofils	14.7	10.5	25.2	13.2	14.9	12.2	27.1	13.2	15.0	2.8	17.8	13.2
14. BRPL	98.5	104.9	203.4	124.0	98.5	156.4	254.9	124.0	132.4	165.0	297.4	146.3
D.Engineering & Other Servicing Units	8.4	21.5	29.9	24.6	9.4	24.4	33.8	27.7	9.4	27.5	36.9	28.2
15. EIL	0.5	NIL	0.5	0.5	0.5	NIL	0.5	0.5	0.5	NIL	0.5	0.5
16. Balmer Lawrie Ltd.	1.9	9.7	11.6	11.2	1.9	3.6	5.5	NIL	1.9	4.3	6.2	0.2
17. Blecco Lawrie Ltd.	1.8	2.8	4.6	NIL	1.8	11.3	13.1	12.8	1.8	13.8	15.6	15.2
18. Bridge & Roof Company	4.2	9.0	13.2	12.9	5.2	9.5	14.7	14.4	5.2	9.4	14.6	12.3
T O T A L : A+B+C+D	884.5	2434.7	3319.2	1134.2 (34.2%)	912.8	3186.9	4099.7	1174.6 (28.7%)	1032.2	3833.6	4865.8	1283.2 (26.4%)

NOTE : Figure in brackets indicate the % age share of the Government.

GROSSARY OF TERMS USED IN THE "ANNUAL REPORT ANALYSIS"

1. Loans : These include both secured and unsecured loans but exclude interest accured, if any, included in the loans.

2. Net Worth : This represents paid-up capital plus free reserves less accumulated losses (deficit) and deferred revenue expenditure remaining unamortised.

3. Capital-Employed : This means gross block less accumulated depreciation there on plus working capital but excluding capital works in progress.

4. Working Capital : Means all current assets, loans & advances deposits, investment (other than trade investments) less current liabilities and provisions excluding cash credit & bank overdrafts and provision for gratuity.

5. Sales : Means Net sales turnover i.e. after excluding trade discounts and products used for internal consumption.

6. Adjusted Gross Profit : Represents excess of Income over expenditure after providing for interest on loans, taxes, appropriation to reserves, charges pertaining to provious years, bad debts, donations, exchange fluetuations, loss on disposal of Assets, Dividends etc.

6. Adjusted Net Profit : Represents the figure arrived at after deducting from the adjusted gross profit interest on loans and taxes but before appropriation to reserves,

8. Dividend Declared : Includes preference dividend, if any.

APPENDIX

APPENDIX

ABBREVIATIONS

(i) Companies/Organisations

ACCI : Alkali & Chemicals Corporation of India Limited.
AOC : Assam Oil Company.
BPCL : Bharat Petroleum Corporation Limited.
BRPL : Bongaigaon Refinery & Petrochemicals Limited.
B/Shell/
BSM : Burmah Shell Oil Storage & Distributing Co. Ltd.
BSR : Burmah Shell Refineries Limited.
Caltex/
CIL : Caltex (India) Limited.
CORIL : Caltex Oil Refining (India) Limited.
CRL : Cochin Refineries Limited.
EIL : Engineers India Limited.
ESSO : Esso Standard Eastern Inc.
ESRC : Esso Standard Refining Company of India Limited.
HCL : Herdillia Chemicals Limited.
HPCL : Hindustan Petroleum Corporation Limited.
HIL : Hydrocarbons India Limited.
IBP
Co. LTD. : IBP Co. Ltd.
INDROL : INDROL Lubricants & Specialities Limited.
IPCL : Indian Petrochemicals Corporation Limited.
IIP : Indian Institute of Petroleum.
IPE : Institute of Petroleum Exploration.
IOBL : Indian Oil Blending Limited.
IOC : Indian Oil Corporation Limited.
LIL : Lube India Limited.
Lubrizol : Lubrizol India Limited.
MRL : Madras Refineries Limited.
POCL : Petrosil Oil Company Ltd.
OIL : Oil India Limited.
ONGC : Oil & Natural Gas Commission.
OPEC : Organisation of Petroleum Exporting Countries.
TWOC : Tide Water Oil Company.
PCL : Petrofils Cooperative Limited.
NOCIL : National Organic Chemical Industries Limited.
TIPCO : The Industrial Plastics Corporation Pvt. Ltd.
WIODC : Western India Oil Distributing Company Ltd.

(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.

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

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

(iii) Petrochemicals Products

CAMP	: Cellulose Acetate Moulding Powder.
CBFS	: Carbon Black Feed-Stock.
DMT	: Dimethyl Teraphthalate.
HDPE	: Polyethylene Resins & Compounds, Low Pressure (High Density).
LAB	: Linear Alkyl Benzene.
LDPE	: Polyethylene Resins & Compounds High Pressure (Low Density).
MEG	: Mono-Ethylene Glycol.
MI Ketone	: Methyl Isobutyl Ketone.
MF MP	: Malamine Formaldehyde Moulding Powder.
NSF	: Nylon Staple Fibre.
PSF	: Polyester Staple Fibre.
PFY	: Polyester Filament Yarn.
PE MP	: Phenol Formaldehyde Moulding Powder.
PS	: Polystyrene.
PP	: Polypropylene.
PBI	: Polybutadiene Rubber.
PVC	: Polyvinyl Chloride.
SBR	: Styrene Butadiene Rubber.
UFMP	: Urea Formal-dehyde Moulding Powder.

(iv) PREFIXES USED IN METRIC TABLES

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

(v) 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).
HV	: High Viscosity Index.
KL	: Kilometre.
LR I	: Large Range I (45,000-79, 999 dwt).
LR II	: Large Range II (80,000-1, 59,999 dwt).
LV	: Low Viscosity.
LVI	: Low Viscosity Index.
MR	: Medium Range (25,000-44, 999 dwt).
MT	: Metric Ton. (Tonne).
MTPA	: Million Tonnes Per annum.
MV	: Medium Visocosity.
MVI	: Medium Viscosity Index.
R&D	: Research and Development.
ULCC	: Ultra Large Crude Carrier (320,000-549, 999 dwt).
VLCC	: Very Large Crude Carrier (1,60,000dwt and more).
NA	: Not Available.
-	: Nil.
Neg	: Negligible.
Billion	: 10 [illegible] or one thousand Million.
Trillion	: 10 [illegible] or one million million.
HV	: High Viscosity
P	: Provisional

METRIC UNITS

LINER

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

AREA

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

WEIGHT:

10 Milligrams	= 1 Centigram.
10 Centigrams	= 1 Decigram.
10 Decigrams	= 1 Gram.
10 Grams	= 1 Decagram.
10 Decagrams	= 1 Hectogram.
10 Hectograms	= 1 Kilogram.
100 Kilograms	= 1 Quintal.
1000 Kilograms	= 1 Matric 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 Metre.
1 Foot	= 12 Inches. = 0.333333 Yard. = 0.3048 Metre (m).
1 Yard	= 36 Inches. = 3 Feet. = 0.9144 Metre (m).
1 Metre	= 39.3701 Inches. = 3.28084 Feet. = 1.09361 Yards. = 0.001 Kilometre (km).
1 Kilometre	= 1000 Metre (m). = 0.621371 Mile.
1 Mile	= 1760 Yards. = 1.60934 Kilometres (km).
1 International Nautical Mile	= 6076.12 Feet. = 1.852 Kilometres (km) = 1.5152 statute mile.

AREA

1 Square Inch	= 645.16 Square Millimetres (mm2).
1 Square Foot	= 0.0929030 Square Metre (m2).
1 Square Yard	= 9 square Feet. = 0.836127 Square Metre (m2).
1 Square Metre	= 10,7639 Square Feet. = 1.19599 Square Yards
1 Acre	= 4840 Square Yards. = 4046.86 Square Metres (m2). = 0.4046 Hectares.
1 Hectare	= 10,000 Square Metres (m2). = 2.47105 Acres. = 0.01 Square Kilometre (km2).
1 Square Kilometre	= 100 Hectares. = 0.386102 Square Mile.
1 Square Mile	= 640 Acres. = 258.999 Hectares. = 2.58999 Square Kilometres (km2).

MASS. WEIGHTS

1 Ounce	= 28.3495 Grams (g).
1 Pound	= 0.453592 Kilogram (kg.).
	= 0.00892857 Hundred Weight.
1 Kilogram	= 2.20462 Pounds.
	= 0.01 Quintal.
1 Hundred Weight (cwt)	= 112 Pounds.
	= 50.8023 Kilograms (kg.).
1 American (Short) Ton	= 2000 Pounds.
	= 0.907185 Tonne.
	= 0.892857 Long Ton.
1 Tonne (Metric Ton)	= 2204.62 Pounds.
	= 1000 Kilograms (kg.).
	= 1.10231 Short Tons.
	= 0.984207 Long Ton.
1 Imperial (Long) Ton	= 2240 Pounds.
	= 1.12 Short Tons.
	= 1.01605 Tonnes.

ENERGY AND POWER

1 International Table (IT) Caloric	= 4.1868 Joules (J).
115°C caloric	= 4.1855 Joules (J).
1 Thermochemical Caloric	= 4.184 Joules (J).
1 Kilo Cloric (IT)	= 1000 Calories.
	= 3.96832 British Thermal Units.
	= 1.163 Watt Hours.
	= 1 Thermie.
1 Kilowatt Hour	= 3412.14 British Thermal Units.
	= 859.845 Kilocalories.
	= 3.6 Megajoules (MJ).
	1.34102 Horse Power Hours.
1 Therm	= 100,000 British Thermal Units. (BTU).
	= 105.506 Megajoules (MJ).
	= 29.3071 Kilowatt Hours.
	= 25.1996 Thermies.
	= 25200 Kilocalories.
1 Metric Horsepower (Pferdestaerke or Cheval Vapeur)	= 735.499 Watts (W).
	= 542.476 Foot Pounds Force/Second.
	= 0.986320 Imperial Horse Power.
1 Imperial Horsepower	= 745.700 Watts (W).
	= 550 Foot Pounds Force/Second.
	= 1.01387 Metric Horse Power.
1 Kilowatt	= 737.562 Foot Pounds Force/Second.
	= 1.35962 Metric Horsepower.
	= 1.34102 Imperial Horsepower.
	= 1000 Watts.
1 BTU	= 0.252 Kilocalories.
	= 1.055 Kilojoules.

CUBIC MEASURES

VOLUME

1 Cubic Inch	= 16.3871 Cubic Centimetres (cm3).
1 Pint	= 0.568261 Cubic Decimetres (dm3) or Liters.
1 Litre	= 61.024 Cubic Inches. = 1.75975 Pints. = 1 Cubic Decimetre (dm3). = 0.264172 American Gallons. = 0.219963 Imperial Gallons. = 0.0353147 Cubic Foot.
1 Hectolitre	= 100 Cubic Decimetres (dm3) or. = 100 Litres.
1 American Gallon	= 231 Cubic Inches. = 3.78541 Cubic Decimetres or Litres. = 0.832674 Imperial Gallon. = 0.133681 Cubic Foot. = 0.0238095 American Barrel. = 0.00378541 Cubic Metre (m3).
1 Imperial Gallon	= 277.420 Cubic Inches. = 4.54609 Cubic Decimetres (dm3) or Litres. = 1.20095 American Gallon. = 0.160544 Cubic Foot. = 0.028594 American Barrel. = 0.00454609 Cubic Metre (m3).
1 Cubic Foot	= 28.3168 Cubic Decimetres (dm3) or Litres. = 7.48052 American Gallons. = 6.22883 Imperial Gallons. = 0.17811 American Barrel. = 0.0283168 Cubic Metre (m3).
1 American Barrel	= 9702 Cubic Inches. = 158.987 Cubic Decimetres (dm3) or Litres. = 42 American Gallons. = 34.9726 Imperial Gallons. = 5.6146 Cubic Feet. = 0.158987 Cubic Metre (m3)
1 Cubic Metre	= 1000 Litres. = 264.172 Americal Gallons. = 219.969 Imperial Gallons. = 35.3147 Cubic Feet. = 6.28981 American Barrels.
1 Kilolitre	= 1000 Cubic Decimetres (dm3) or Litres. = 6.28981 American Barrels.
1 Gross Ton (Shipping)	= 2.83168 Cubic Metres or 100 cubic. Feet of Permanently Enclosed Space.
1 Ton of Liquified Methane	= Approx. 16 Barrels. = Approx. 1400 Cubic Metres of Natural Gas Depending Upon Methane Content.

PRODUCT CONVERSION FACTOR

(Conversion Factor From Volume To Tonnes At Natural Temp.)

PRODUCTS	Litres to Matric Tonnes	Tonnes per K.L.	American Barrels to Matric tonnes
1	2	3	4
Aviation Spirit 100/130	1421	0.7034	8.94
Aviation Spirit 114/145	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	1411	0.7087	8.88
JP-4	1384	0.7225	8.71
JP-5	1273	0.7855	8.01
Aviation Turbine	1288	0.7764	8.10
Naphtha	1467	0.6817	9.23
Power Alcohol	1286	0.7776	8.09
Benzol	1154	0.8666	7.26
SBP Spirit/Hexane	1457	0.6863	9.16
Mineral Turpentine (Laws 140/205)	1302	0.7680	8.19
Liquified Petroleum Gas	1785	0.5602	11.23
Superior Kerosene	1285	0.7782	8.08
Inferior Kerosene	1265	0.7905	7.96
Power Kerosene (Vap. Oil)	1251	0.7994	7.87
High Speed Diesel	1210	0.8263	7.61
Light Diesel Oil	1172	0.8532	7.37
Malarial Oil	1172	0.8532	7.37
Special Larvicides	1175	0.8511	7.39
Furnace Oil	1071	0.9337	6.74
Tea Drier Oil	1071	0.9337	6.74
Hot Heavy Stock/LSHS	1017	0.9833	6.40
Refinery Gas/Ref. Boiler Fuel	1071	0.9337	6.74
Lubricants/Greases	1114	0.8977	7.01
Jute Batching Oil/ Wash Oils	1167	0.8569	7.34
Bitumen	1002	0.9980	6.30
SBP/Alcohol Mixture	1414	0.7072	8.89
Methanol Mixture	1106	0.9042	6.96
Carbon Black Feed Stock	1134	0.8818	7.13
Carburetter Testing Fluid	1388	0.7205	8.73
Benzene	1131	0.8812	7.05
Toluene	1148	0.8711	7.19
Demineralised Water	1002	0.9930	6.30
S. Glass Kleanzit	1003	0.9970	6.31
Miscellaneous	1114	0.8977	7.01
Wax/P.Cock/Chemicals	1114	0.8977	7.01
Aromex	1221	0.8190	7.68

VOLUME PER METRIC TON OF PETROLEUM PRODUCTS

Porducts	Kilolitre	Imperial Gallon	U.S. Gallon	Barrel
1	2	3	4	5
Liquified Pet. Gas.	1.8519	407.365	489.213	11.648
Aviation Spirit	1.3699	301.332	361.873	8.613
Natural Gasoline	1.3514	297.265	356.990	8.496
Motor Spirit	1.3514	297.265	356.990	8.496
Kerosene	1.2346	271.569	326.137	7.764
Jet Fuel	1.2346	271.569	326.137	7.764
Distillate Fuel Oil	1.1494	252.415	293.522	6.988
Lubricating Oil	1.1111	252.845	303.647	7.231
Fuel Oil N.O.S.	1.0939	241.727	290.301	6.911
Residuel Fuel Oils	1.0526	231.551	278.071	6.623
Asphalt and Bitumen	0.9615	211.515	254.013	6.050
Crude Oil	1.1856	260.910	313.340	7.441

CONVERSION FACTORS FOR DUTY REDUCTION FROM $15^{o}c$ TO $29.5^{o}c$

Product	Conversion Factor
1. Aviation Spirit 100/130	0.9827
2. Aviation Spirit 114/145	0.9820
3. Aviation Spirit 73 Clear	0.9824
4. Aviation Turbine Fuel	0.9862
5. Motor Spirit 83	0.9830
6. Motor Spirit 93	0.9836
7. H.S.D.O.	0.9879
8. Kerosene	0.9864
9. Light Diesel Oil	0.9877
10. Furance 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 figures at 15.6 degree C or 60 degree F.

PRODUCT SPECIFIC GRAVITY RANGES

P R O D U C T S	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
Kerosenes	0.78-0.84	8.2-7.6
Gas Oils	0.82-0.90	7.8-7.1
Diesel Oils	0.82-0.92	7.8-6.9
Lubricating Oils	0.85-0.95	7.5-6.7
Fuel Oils	0.92-0.99	6.9-6.5
Asphaltic bitumens	1.00-1.10	6.4-5.8

CRUDE OIL CONVERSIONS@

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

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

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

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

Average International Calorific Value of Different Fuels

1.	Kcals/Kg./ Mcals/Tonne 2.	BTUS/Kg. 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. I N D I A:		
Hard Coal	5,000	19,840
Lignite-Brown Coal	2,310	9,166
Firewood @	4,750	18,848
Charcoal @	6,900	27,379
		Kcals/Cu.metre
E. Natural Gas-Production:(Average)		8,000-9,480
India		9,209
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 convertion factor may have to be used.

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

(c) Calorific value of 1 kwh of electricity.

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

@ = As per Report of Fuel Policy Committee 1974.

Conversion Factor: 1 Kcal = 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. PRIMAY SOLIDS			
1. Standard Factor	1.000	0.385	0.333
2. India	0.714	0.330	
B. OTHERS		Hydrocarbons	
1. Petroleum Crude		1.454	
2. Natural Gas Liquids (wf.Av.)		1.542	
3. Gasolines		1.500	
4. Kerosene & Jet fuel		1.474	
5. Gas-Diesel Oil		1.450	
6. Residual Fuel Oil		1.416	
7. Liquefied Petroleum Gases		1.554	
8. Natural Gasoline		1.532	
9. Condensate		1.512	
10. Other Natural Gas Liquids		1.512	
11. Natural Gas (in Terajouls)*		34.121	
12. Other Gases (" " ")*		34.121	
13. Hydro, Nuclear and Geothermal Electricity (in 1,000 kwh)		0.123	

* = The average calorific value of gas is measured in Kcal/m3 (st.) i.e. in Kcal per cubic metre of gas under standard conditions of 15°c, 1013.25 mbar, dry.

COAL REPLACEMENT AND EQUIVALENTS OF DIFFERENT FUELS

Fuels	Original Unit	Unit coal Equivalent in Million Tonnes (mtce)	Coal Replacement in Million Tonnes (mtcr)
1	2	3	4
Coal (coking 6640 Kcal/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 (i.e. Fuel Oil; F.O.; Refinery Fuel, LSHS, HHS).	1mt	2.0	2.0
Kerosene & LPG	1mt	2.0	8.0
HSDO & LDO	1mt	2.0	9.0
Motor Spirit & Jet Fuel	1mt	2.0	7.5
Natural Gas (9000 Kcal/Kg.)	10^9 x m3	1.8	3.6
Electricity	10^9 kwh	1.0	1.0

m = Million
mt = Million Tonnes.
Source = Fuel Policy Committee - 1974

Mtce = Million Tonnes of Coal Equivalent.

Mtcr = Million Tonness of Coal Replacement,

Approximate Calorific Equivalents
(Oil = 10,000 K Cal/Kg.)

Items	Million Tonnes of Oil equals
1. Heat Units	= 40 millon BTU = 397 millon therms = 10,000 teracalories
2. Solid Fuels	= 1.5 million tonnes of Coal = 3.0 million tonnes of lignite
3. Natural Gas (1 cub. ft. =1000 BTU)	= (1 Cub metre = 9000 K cal). = 1.111 thousand million cub metres = 39.2 thousand million cub. feet = 107 million cubic feet/day of a year
4. Electricity (1 Kwh = 3412 BTU) (1 Kwh - 860 Kcal)	= 12 thousand million KWH

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 teraclaories	1.00
2. Solid Fuels	
1 million tonnes of coal	0.67
1 million tonnes of lignite approximatees to	0.33
3. Natural Gas	
1 thousand million cub. metres (BCM)	0.90
4. Town Gas	
1 thousand million cub. metres (BCM)	0.42
5. Electricity	
12 thousand million KWH	0.86

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

Source : BP Statistical Review of World Energy.

EXCHANGE RATES : 1946-1984

(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
1946	n.a.	n.a.	n.a.	3.30852	3.30952	1946-47	n.a.
1947	3.30852	3.30852	3.30852	3.30852	3.30852	1947-48	3.30852
1948	3.30852	3.30852	3.30852	3.30852	3.30852	1948-49	3.30852
1949	3.30852	3.30852	3.49275	4.76190	3.71792	1949-50	4.08127
1950	4.76190	4.76190	4.76190	4.76190	4.76190	1950-51	4.76190
1951	4.76190	4.76190	4.76190	4.76190	4.76190	1951-52	4.76190
1952	4.76190	4.76190	4.76190	4.76190	4.76190	1952-53	4.76190
1953	4.76190	4.76190	4.76190	4.76190	4.76190	1953-54	4.76190
1954	4.76190	4.76190	4.76190	4.76190	4.76190	1954-55	4.76190
1955	4.76190	4.76190	4.76190	4.76190	4.76190	1955-56	4.76190
1956	4.76190	4.76190	4.76190	4.76190	4.76190	1956-57	4.76190
1957	4.76190	4.76190	4.76190	4.76190	4.76190	1957-58	4.76190
1958	4.76190	4.76190	4.76190	4.76190	4.76190	1958-59	4.76190
1959	4.76190	4.76190	4.76190	4.76190	4.76190	1059-60	4.76190
1960	4.76190	4.76190	4.76190	4.76190	4.76190	1960-61	4.76190
1961	4.76190	4.76190	4.76190	4.76190	4.76190	1961-62	4.76190
1962	4.76190	4.76190	4.76190	4.76190	4.76190	1962-63	4.76190
1963	4.76190	4.76190	4.76190	4.76190	4.76190	1963-64	4.76190
1964	4.76190	4.76190	4.76190	4.76190	4.76190	1964-65	4.76190
1965	4.76190	4.76190	4.76190	4.76190	4.76190	1965-66	4.76190
1966	4.76190	5.51413	7.50000	7.50000	6.31901	1966-67	7.00353
1967	7.50000	7.50000	7.50000	7.50000	7.50000	1967-68	7.50000
1968	7.50000	7.50000	7.50000	7.50000	7.50000	1968-69	7.50000
1969	7.50000	7.50000	7.50000	7.50000	7.50000	1969-70	7.50000
1970	7.50000	7.50000	7.50000	7.50000	7.50000	1970-71	7.50000

EXCHANGE RATES : 1945 -1985

(Rs. Per U.S. Dollar)

Year	Calendar Year					Financial Year	
	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Average for the year	Year	Average for the year
1	2	3	4	5	6	7	8
1971	7.500	7.500	7.500	7.500	7.500	1971-72	7.44950
1972	7.298	7.297	7.759	8.023	7.594	1972-73	7.73025
1973	7.842	7.499	7.651	7.976	7.742	1973-74	7.86275
1974	8.325	7.912	8.073	8.096	8.102	1974-75	7.97550
1975	7.821	8.053	8.716	8.913	8.376	1975-76	8.65325
1976	8.931	9.063	8.967	8.881	8.960	1976-77	8.93850
1977	8.843	8.814	8.733	8.565	8.739	1977-78	8.56250
1978	8.138	8.465	8.051	8.118	8.193	1978-79	8.20625
1979	8.191	8.176	7.998	8.138	8.126	1979-80	8.07625
1980	7.993	7.921	7.747	7.791	7.863	1980-81	7.89278
1981	8.112	8.410	8.984	9.128	8.659	1981-82	7.92925
1982	9.195	9.354	9.570	9.702	9.445	1982-83	9.62850
1983	9.888	10.008	10.148	10.352	10.099	1983-84	10.31225
1984	10.741	10.972	11.579	12.158	11.3625	1984-85	11.88675
1985	12.838						

Notes : (1) A new value of the Indian Re.of 7.50 per U.S.Dollar was agreed upon with the Fund effective June 6, 1966. Previously the year value was 4.7619 rupees per U.S.Dollar from Sepetember 22, 1949 to June 5,1966 and 3.30852 rupees per U.S. Dollar from December 18, 1946 to September 21, 1949.

(2) Exchange rates for the years 1970 and 1971 are based on 'Trade Coversion Factors'.

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

e = estimated

Source: International Financial Statistics.