

India's Oil & Gas Ready Reckoner

Oil & Gas Industry Information at a Glance

H1 FY 2024-25

Petroleum Planning & Analysis Cell

Ministry of Petroleum & Natural Gas

Suggestions & Feedback

Readers are invited to send their suggestions & feedback for improvement of Ready Reckoner to :

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Disclaimer:

While every care is taken to check the accuracy of data and information included in this Reckoner, PPAC would not be held responsible for any loss, damage etc. due to action taken by anyone based on the information contained in this publication.

Bamboo bridges have been an integral part of many cultures, particularly in Asia, for centuries. Through the processes of gasification, bamboo can create clean gas and actually leaves charcoal as a natural by-product. Through the process of pyrolysis –the same used for wood– the liquid fuels can be processed in a bio refinery to produce bio fuels.

Preface

Petroleum Planning & Analysis Cell (PPAC), an attached office of the Ministry of Petroleum & Natural Gas (MoPNG) is playing pivotal role in the transition process with all sorts of energy data analysis and decision making. PPAC, publishes the 'Ready Reckoner' bi-annually, a comprehensive databank for key Oil & Gas industry of the country. Ready Reckoner H1 edition FY2024-25 contains the latest information for the first half of the financial year 2024-25 and historical time series data in eight broad chapters for stakeholders including the Oil & Gas value chain planners, policymakers, academicians, analysts, market researchers and the industry in a single platform.

The world is focused on the transition to clean energy. Participating countries at the recently concluded UN Climate Change Conference (COP'29) in Azerbaijan agreed at New Collective Quantified Goal on Climate Finance (NCQG) which envisages increasing the financing to developing countries around the world from US\$ 100 billion a year to US\$ 300 billion a year, with Countries also adopting Article 6 after close to a decade of negotiations.

It is heartening to note that on 10th October 2024, the country's total renewable energy capacity crossed the 200 GW mark. With a total generation capacity of 452.69 GW, renewable capacity reaches 46.3% of the country's total installed capacity.

Important actions/decisions on Oil and Gas front in the last 6 months are as follows:

- a. The government has approved PM Electric Drive Revolution in Innovative Vehicle Enhancement (PM E-DRIVE) Scheme with an outlay of Rs.10,900 crore over a period of two years.
- b. International Energy Agency in its World Energy Outlook 2024, Emerging market and developing economies like India are projected to contribute nearly 80% of growth in electricity demand to 2030. India starting from a lower base: the share of electricity in final consumption rose in India from 11% in 2000 to 18% in 2023, and half of the electricity demand growth to 2050 is projected in the STEPS to come in the buildings sector.
- c. The Country, in its endeavor to shift to cleaner fuels, Ethanol blending in Petrol touched 15.9% for the month of September 2024 and reached 13.8% for Ethanol Supply Year 2023-24 (Nov'24-Sept'24). India is on track to achieve 20% blending by 2025-26 and E20 petrol is already being retailed at 16,756 PSU outlets out of 83,190 total PSU Retail Outlets as on 01.10.2024.
- d. With Govt's focus to accelerate E&P activities across the country, MoPNG has invited bids for a special round of auction of discovered small fields (DSF). The contract area includes Mumbai offshore basin and South Rewa offshore basin. In addition, ONGC has discovered two significant natural gas reserves in the Mahanadi basin block in the Bay of Bengal & Oil India to commence drilling in Andaman offshores as part of exploration efforts.
- e. Hon'ble Minister for Petroleum and Natural Gas Minister has announced that India is set to expand its refinery capacity from 256.8 million metric tonnes per annum (MMTPA) in 2024 to 310 MMTPA by 2028.

- f. Almost 25% of total outlets now provide alternate fuels (EV Charging, CNG/CBG/LNG and Auto LPG). Of these 18471 outlets offer EV charging facilities to commuters.
- g. PNGRB, MoEF&CC plan big push for natural gas with industry-friendly measures. To encourage natural gas adoption, PNGRB is working to extend inspection intervals and relax mandatory regulatory requirements for industries. This is expected to reduce operational bottlenecks, making the transition more appealing and cost-effective.
- h. The Government has slashed Windfall tax on domestically produced crude oil to Nil w.e.f. 18th September 2024.

The data for Ready Reckoner is obtained from the Public Sector Oil & Gas Companies, Government bodies and Private Companies. The collected metadata is processed and scrutinized at various levels before it is published in Ready Reckoner or some e-platform. The Ready Reckoner is published on PPAC's website (<https://www.ppac.gov.in>) and on our mobile app - PPACE which can be downloaded on mobile device through both Google Play Store and Apple Store. From the last edition, datasets of reckoner are also uploaded on the website for the benefit of researchers and analysis.

The publication of Ready Reckoner is a concerted effort by all Divisions of PPAC and I would like to place on record my sincere appreciation of the diligent efforts of the officers and staff of PPAC who have contributed to bring out this edition in a timely manner. The cooperation of the Oil & Gas industry and various organizations is sincerely acknowledged for their timely inputs.

PPAC welcomes feedback and suggestions for broadening the coverage and contents of the data being disseminated through this publication. The comments and feedback may kindly be sent to epankaj.sharma@ppac.gov.in or dirgen@ppac.gov.in.

New Delhi
Date: 29.11.2024

P. Manoj Kumar
Director General





Vision & Mission

VISION

To be the most authentic official source for data and policy analysis on the hydrocarbon sector in the country.

Mission

1. To monitor and analyze developments in the domestic oil and gas sector.
2. To undertake analysis of domestic and international energy markets.
3. To develop a cooperative framework for exchange of information and conduct of studies with other countries and international organizations in the energy sector.
4. To strengthen the existing data system in PPAC by adopting the latest techniques and best practices.
5. To render effective assistance and advice to the Ministry of Petroleum & Natural Gas in the discharge of

Objectives

1. To monitor and analyze trends in prices of crude oil, petroleum products and natural gas and their impact on the oil companies and consumers and prepare appropriate technical inputs for policy making.
2. To monitor developments in the domestic market and analyze options for policy changes in pricing, transportation and distribution of petroleum products.
3. To collect compile and disseminate data on the domestic oil and gas sector in a continuous manner and maintain the data bank.
4. To ensure quality of data in terms of prescribed parameters such as accuracy, completeness and timeliness.
5. To disseminate periodic reports on various aspects of oil and gas sector.
6. To ensure effective administration of the subsidy schemes notified by the Government.

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Chapter-1

General



Table 1.1 : Selected indicators of the Indian economy									
Sl. no.	Particulars	Source	Unit/ Base	2020-21	2021-22	2022-23	2023-24 (P)	Apr-Sep 2023-24 (P)	General Apr-Sep 2024-25 (P)
1	Projected Total Population as on 1st July of the financial year	Report of the Technical Group on Population Projections [§]	('000)	13,53,378	13,67,173	13,79,750	13,92,329	13,92,329	14,04,911
2	GDP	MoSPI		1,36,94,869	1,50,21,846	1,60,71,429	1,73,81,722	40,91,484	43,63,732
	GDP Growth	MoC&I	Growth %	-6.6	9.1	7.2	7.6	7.8	6.7
	At constant (2011-12 Prices)			1 st RE	1 st RE	1st RE	PE	Q1 (E)	Q1 (E)
3	Agricultural production (Foodgrains)	MoA	Million tonne	310.7	315.7	329.7	328.852	148.569	164.7
						Final Estimate	3rd AE	1st AE (H1)	1st AE (H1)
			Growth %	#DIV/0!	1.6	4.4	-0.2	0.9	10.9
4	Index of Industrial Production (Base: 2011-12)	MoSPI	Growth %	*-8.4#	11.4#	5.2#	5.8#	6.1##	4.0##
5	Imports^	MoC&I	\$ Billion	394.4	611.9	714.2	677.2	327	350.7
6	Exports^	MoC&I	\$ Billion	291.8	419.7	447.5	437.1	211.4	213.2
7	Trade balance	MoC&I	\$ Billion	-102.6	-192.2	-266.8	-240.1	-115.6	-137.5
8	Wholesale Price Index (all commodities) (average)	MoC&I	2011-12 = 100	123.4	139.4	152.5	151.8	152.5	154.6
9	All India Consumer Price Index (average):								
	i) Industrial Worker	Labour Bureau, Govt. of India	2001=100 2016=100 (wef. Sep. 2020) ^{§c}	119.0	127.7	121.9	138.9	137.5	143.3
	ii) Agricultural Labourers		1986-87=100	1033.7	1108.0	1108.0	1259.0	1166.0	1247.0
	iii) Rural labourers (Add No of direct employee and indirect employees in PSE)		1986-87=100	1039.9	1119.0	1119.0	1270.0	1171.0	1254.0
10	Foreign exchange reserves-Total@	RBI	\$ Billion	579.3	606.5	578.4	645.6	586.9	704.9
11	Outstanding external liabilities (as of end of financial year)	MoF	₹ Crore	3,88,472	4,29,403	4,69,035	5,37,484		
						2022-23 (BE)	2023-24 (RE)		
12	Outstanding 'internal debt and other liabilities' (as of end of financial year)	MoF	₹ Crore	1,17,39,338	1,31,58,490	1,47,77,724.43	1,63,35,070.06		
						2022-23 (RE)	2023-24 (RE)		
13	Centrally Sponsored Schemes & other transfers	MoF	₹ Crore	7,61,408	6,41,686	4,51,901	4,60,614	4,60,614	5,05,978
						2022-23 (RE)	2023-24 (RE)	2023-24 (RE)	2024-25 (OE)
14	Gross fiscal deficit	MoF	%	9.5	6.7	6.4	5.9	6.4	4.9
						2022-23 (RE)	RE	2022-23 (RE)	OE

Note : [§] Population figures have been taken from table no.11 of 'Report of the Technical Group on Population Projections'; [#] Population projection by RGI is taken as on 1st July for the year. IIP is for the period of [¶] April-March; and for ^{##} April to Sept.,@2020-21-as on March 26, 2021, 2021-22 - as on March 26, 2022, Mar 2022 as on Mar 25, 2022, Mar 2023-as on Mar 31, 2023,Mar 2024 as on 29th March 2024 and Sept24 as on 27th September 2024[^]Imports & Exports are for Merchandise for the period of April to March and for 6 month period, Imports and Exports are for Apr-Sept'23 and Apr-Sept'24; ^E Estimates; ^{PE} Provisional Estimates; ^{AE} Advanced Estimates; ^{RE} Revised Estimates; ^{QE} Quick Estimates.; average 'Consumer Price Index' is the arithmetic average of monthly CPI for April to March period.
(^P): Provisional; ^{MoA}: Ministry of Agriculture; ^{MoF}: Ministry of Finance; ^{MoC&I}: Ministry of Commerce & Industry; ^{MoSPI}: Ministry of Statistics and Programme Implementation; ^{RBI}: Reserve Bank of India; ^E: Estimates; ; ^{AE}- Advanced Estimates; ^{RE}-Revised Estimates; ^{QE}-Quick Estimates.

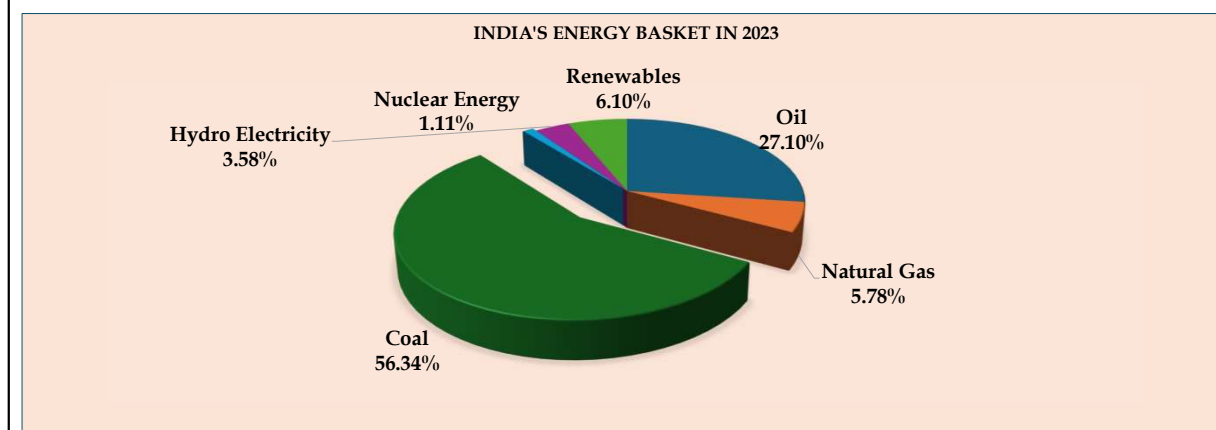
Petroleum									
Sl. no.	Particulars	Source	Unit/ Base	2020-21	2021-22	2022-23	2023-24 (P)	Apr-Sep 2023-24 (P)	Apr-Sep 2024-25 (P)
1	Crude oil production in India	ONGC/OIL/DGH	MMT	30.5	29.7	29.2	29.4	14.7	14.4
2	Consumption of petroleum products in India	OMCs/PPAC	MMT	194.3	201.7	223.0	234.3	114.3	117.7
3	Petroleum products production in India	Oil Cos	MMT	233.5	254.3	266.5	276.1	136.3	139.9
4	Imports & exports								
	Crude oil imports	Oil Cos	\$ Billion	62.2	120.7	157.5	133.4	64.1	71.0
	Petroleum products imports	Oil Cos & DGCIS	\$ Billion	14.8	23.7	26.9	22.9	10.6	12.0
	Total petroleum imports (crude oil + petroleum products)	Oil Cos & DGCIS	\$ Billion	77.0	144.3	184.4	156.3	74.6	83.1
	Petroleum products exports	Oil Cos	\$ Billion	21.4	44.4	57.3	47.7	23.7	22.1
5	Gross petroleum imports as % of India's gross imports in value terms	MOC&I/PPAC	%	19.5	23.5	25.8	23.0	22.6	23.8
6	Gross petroleum exports as % of India's gross exports in value terms	MOC&I/PPAC	%	7.3	10.6	12.8	10.9	11.0	10.3
7	Import dependency (based on consumption)	PPAC	%	84.4	85.5	87.3	87.7	87.6	88.2

Note : (P): Provisional, OMCs: Oil Marketing Companies, PPAC: Petroleum Planning & Analysis Cell

Natural gas

Sl. no.	Particulars	Source	Unit/ Base	2020-21	2021-22	2022-23(P)	2023-24 (P)	Apr-Sep 2023-24 (P)	Apr-Sep 2024-25 (P)
1	Gross Production	ONGC/OIL/DGH	MMSCM	28,672	34,024	34,450	36,438	17,879	18,160
2	Net Production (net of flare and loss)	ONGC/OIL/DGH	MMSCM	27,784	33,131	33,664	35,717	17,504	17,875
3	LNG Import	LNG importing Cos, DGCIS	MMSCM	33,198	31,028	26,304	30,917	15,416	18,975
4	Total Consumption including internal use (Net Production+ LNG import)		MMSCM	60,982	64,159	59,969	66,634	32,920	36,850
5	Import dependency (based on consumption) [(sl no.3/sl no.4)*100]	PPAC	%	54.4	48.4	43.9	46.4	46.8	51.5

Note : MMSCM : Million Standard Cubic Meter



Source-Energy Institute Statistical Review of World Energy, 2024

Table 1.2 : Global primary energy consumption, 2023									
Sl. no.	Country	Unit	Oil	Natural Gas	Coal	Nuclear Energy	Hydro Electricity	Renewables	Total Energy
1	China	Mtoe	781.64	348.10	2195.92	93.18	273.84	385.37	4078.04
	Percentage share	%	19.17	8.54	53.85	2.28	6.71	9.45	100%
	Per capita consumption	Toe	0.55	0.24	1.54	0.07	0.19	0.27	2.86
2	USA	Mtoe	856.46	762.22	195.78	174.93	52.78	209.69	2251.87
	Percentage share	%	38.03	33.85	8.69	7.77	2.34	9.31	100%
	Per capita consumption	Toe	2.52	2.24	0.58	0.51	0.16	0.62	6.62
3	India	Mtoe	252.53	53.84	525.01	10.33	33.32	56.86	931.89
	Percentage share	%	27.10	5.78	56.34	1.11	3.58	6.10	100%
	Per capita consumption	Toe	0.18	0.04	0.38	0.01	0.02	0.04	0.67
4	Russian Federation	Mtoe	172.24	389.83	91.57	46.59	44.87	2.27	747.38
	Percentage share	%	23.05	52.16	12.25	6.23	6.00	0.30	100%
	Per capita consumption	Toe	1.19	2.70	0.63	0.32	0.31	0.02	5.17
5	Japan	Mtoe	158.95	79.47	108.35	16.60	16.64	35.67	415.68
	Percentage share	%	38.24	19.12	26.07	3.99	4.00	8.58	100%
	Per capita consumption	Toe	1.29	0.64	0.88	0.13	0.13	0.29	3.37
6	Canada	Mtoe	103.94	103.81	8.85	19.08	81.35	16.15	333.18
	Percentage share	%	31.20	31.16	2.66	5.73	24.42	4.85	100%
	Per capita consumption	Toe	2.68	2.68	0.23	0.49	2.10	0.42	8.59
7	Germany	Mtoe	95.83	65.06	43.61	1.55	4.39	62.10	272.53
	Percentage share	%	35.16	23.87	16.00	0.57	1.61	22.78	100%
	Per capita consumption	Toe	1.15	0.78	0.52	0.02	0.05	0.75	3.27
8	Brazil	Mtoe	122.01	25.79	13.68	3.11	95.74	71.03	331.36
	Percentage share	%	36.82	7.78	4.13	0.94	28.89	21.44	100%
	Per capita consumption	Toe	2.36	0.50	0.26	0.06	1.85	1.37	6.40
9	Iran	Mtoe	83.64	211.14	1.88	1.42	5.06	0.48	303.62
	Percentage share	%	27.55	69.54	0.62	0.47	1.67	0.16	100%
	Per capita consumption	Toe	0.39	0.98	0.01	0.01	0.02	0.00	1.40
10	South Korea	Mtoe	128.10	51.65	64.35	38.69	0.83	13.36	296.98
	Percentage share	%	43.14	17.39	21.67	13.03	0.28	4.50	100%
	Per capita consumption	Toe	1.44	0.58	0.72	0.43	0.01	0.15	3.33
11	Saudi Arabia	Mtoe	177.49	98.13	0.11	0.00	0.00	1.29	277.02
	Percentage share	%	64.07	35.42	0.04	-	-	0.47	100%
	Per capita consumption	Toe	4.80	2.66	0.00	-	-	0.03	7.50
12	France	Mtoe	66.03	29.12	4.25	72.49	12.40	22.65	206.93
	Percentage share	%	31.91	14.07	2.05	35.03	5.99	10.95	100%
	Per capita consumption	Toe	1.02	0.45	0.07	1.12	0.19	0.35	3.20
13	Indonesia	Mtoe	73.95	39.08	103.17	0.00	5.49	19.73	241.42
	Percentage share	%	30.63	16.19	42.74	-	2.28	8.17	100%
	Per capita consumption	Toe	1.09	0.58	1.52	-	0.08	0.29	3.56
14	United Kingdom	Mtoe	64.21	54.60	4.39	8.73	1.16	32.90	166.00
	Percentage share	%	38.68	32.89	2.64	5.26	0.70	19.82	100%
	Per capita consumption	Toe	0.96	0.81	0.07	0.13	0.02	0.49	2.47
15	Mexico	Mtoe	91.66	83.90	6.30	2.65	4.56	12.83	201.90
	Percentage share	%	45.40	41.55	3.12	1.31	2.26	6.35	100%
	Per capita consumption	Toe	0.33	0.30	0.02	0.01	0.02	0.05	0.73
	Sub total	Mtoe	3228.70	2395.72	3367.22	489.35	632.42	942.37	11055.79
	Others	Mtoe	1462.96	1052.41	550.66	97.42	314.62	265.72	3743.78
	Total World	Mtoe	4691.66	3448.13	3917.88	586.77	947.04	1208.09	14799.58
	Percentage share	%	31.70	23.30	26.47	3.96	6.40	8.16	1.00
	Per capita consumption	Toe	0.58	0.43	0.49	0.07	0.12	0.15	184%

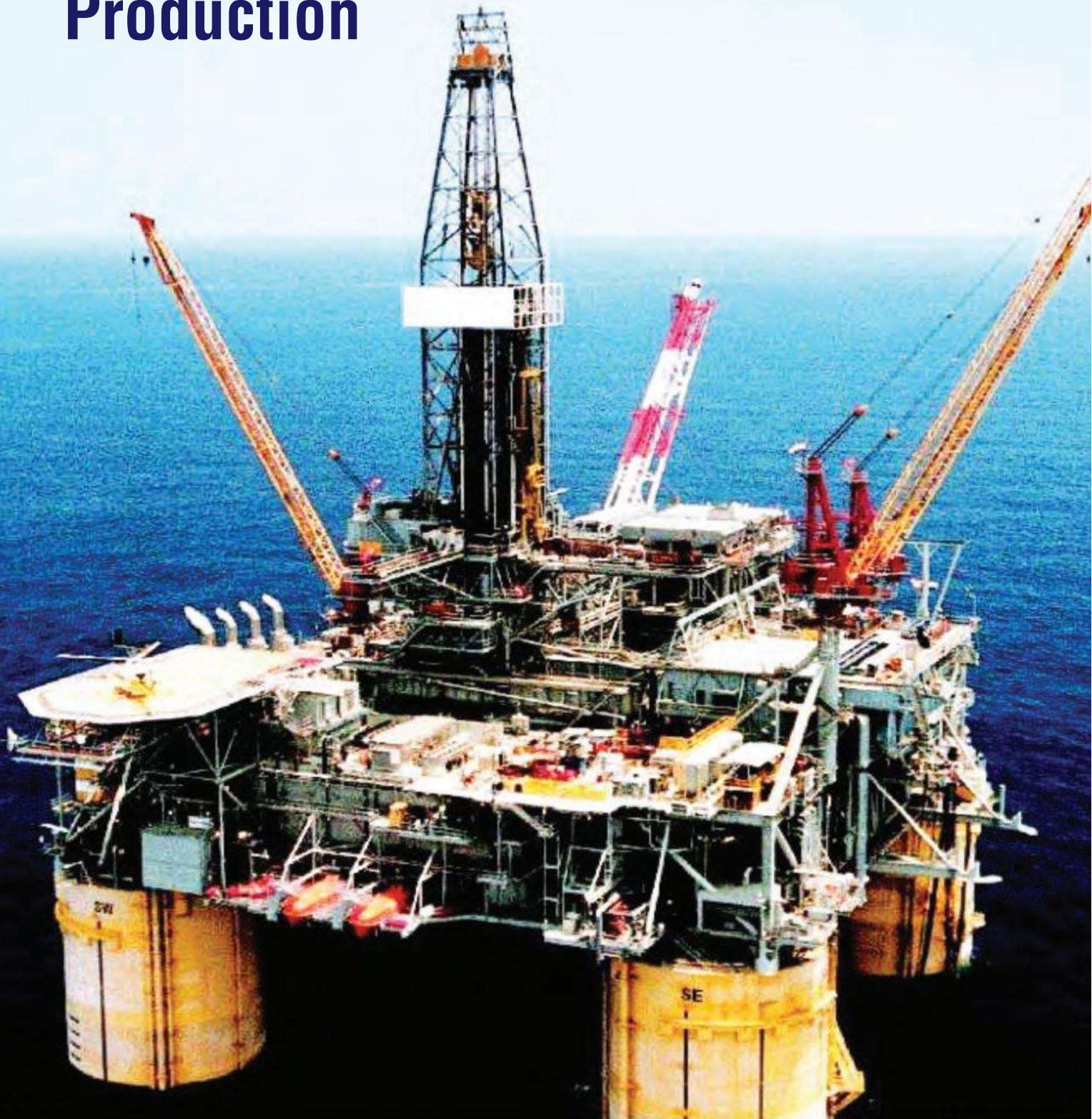
Source: Energy Institute Statistical Review of World Energy,2024

Note: For calculation of per capita consumption, population figure of India have been taken from table no.11 of 'Report of the Technical Group on Population Projections' and for all other countries & the world from World Bank International Data Base for 2023

Conversion factor used for Oil as per product basket of 1 EJ = 23.884589 MTOE (Approximate conversion factors from BP Statistical Review of World Mtoe: Million tonnes of oil equivalent, Toe: Tonnes of oil equivalent

Chapter-2

Exploration & Crude Oil Production



Chapter Highlights

Exploration & Crude Oil Production

Exploration & Production industry has come a long way in India from the first oil discovery in 1889 near the town of Digboi in the state of Assam to current 26 sedimentary basins in India, covering a total area of 3.4 million square kilometer. The area is spread across on land, shallow water up to 400-meter water depth and Deep-water further up to Exclusive Economic Zone (EEZ).

The Government of India has taken several steps to increase the crude oil & gas production in India through various policy initiatives towards Exploration & Production activities by allocating & awarding Blocks to both National & Private E&P companies.

In this regard, starting from Pre-Independence era (1886 - 1946) to Nomination Basis era where Petroleum Exploration License (PEL) was awarded (1947 - 1990), then Pre NELP era where Petroleum Mining Lease (PML) was awarded (1991 - 1996) then NELP (New Exploration Licensing Policy) era and then HELP (Hydrocarbon Exploration Licensing Policy) era India has taken several policy initiatives to boost domestic Crude Oil & Gas production.

Further to the above exploration policies, MoPNG introduced DSF (Discovered Small Fields) policy in 2016 to monetize the unmonetized/ relinquished discoveries of Nomination and PSC regimes. MoPNG has introduced OLAP (Open Acreage Licensing Policy) under HELP policy in 2016. Recently MoPNG has introduced OALP Round IX.

During H1 FY 2024-25, Indigenous Crude Oil production, including condensate, reached 14.4 million metric tons. During the period the share of production from Onshore fields was 48% and from Offshore fields was 52%.

Around 44.1% of Crude Oil(including condensate) is produced in Western Offshore, followed by Gujarat Onshore 17.6%, Assam Onshore 13.7 % and Rajasthan Onshore 12.6%. The share of production from Eastern Offshore has increased from 4% during H1 FY 2023-24 to 7.3% in H1 FY 2024-25, this is due to the increase in production from KG basin.

Table 2.1: World top 30 crude oil countries-Proven Reserves				
at end of 2020				
S.No.	Country	Thousand million tonnes	Thousand million barrels	Reserves/Production ratio
1	Venezuela	48.0	303.8	*
2	Saudi Arabia	40.9	297.5	73.6
3	Canada	27.1	168.1	89.4
4	Iran	21.7	157.8	139.8
5	Iraq	19.6	145.0	96.3
6	Russian Federation	14.8	107.8	27.6
7	Kuwait	14.0	101.5	103.2
8	United Arab Emirates	13.0	97.8	73.1
9	US	8.2	68.8	11.4
10	Libya	6.3	48.4	339.2
11	Nigeria	5.0	36.9	56.1
12	Kazakhstan	3.9	30.0	45.3
13	China	3.5	26.0	18.2
14	Qatar	2.6	25.2	38.1
16	Brazil	1.7	11.9	10.8
15	Algeria	1.5	12.2	25.0
18	Angola	1.1	7.8	16.1
17	Norway	1.0	7.9	10.8
19	Azerbaijan	1.0	7.0	26.7
20	Mexico	0.9	6.1	8.7
21	Oman	0.7	5.4	15.4
22	India	0.6	4.5	16.1
23	Vietnam	0.6	4.4	58.1
24	Other Africa	0.5	3.8	33.2
26	South Sudan	0.5	3.5	56.4
27	Egypt	0.4	3.1	14.0
25	Republic of Congo	0.4	2.9	25.7
28	Yemen	0.4	3.0	86.7
29	Malaysia	0.4	2.7	12.5
30	Argentina	0.3	2.5	11.3
	Sub total	240.5	1703.3	
	Others	3.9	29.0	
	Total World	244.4	1732.4	53.5
	of which: OECD	38.3	260.0	25.2
	Non-OECD	206.1	1472.4	66.9
	OPEC	171.8	1214.7	108.3
	Non-OPEC	72.6	517.7	24.5
	European Union	0.3	2.4	16.8
	Canadian oil sands: Total	26.2	161.4	
	of which: Under active development	3.1	18.9	
	Venezuela: Orinoco Belt	42.0	261.8	

Source: Energy Institute's Statistical Review of World Energy, 2024 ; * More than 500 years.

Notes:
Data is as on end of 2020.
Total proved reserves of oil - Generally taken to be those quantities that geological and engineering information indicates with reasonable certainty can be recovered in the future from known reservoirs under existing economic and operating conditions. The data series for total proved oil reserves does not necessarily meet the definitions, guidelines and practices used for determining proved reserves at company level, for instance as published by the US Securities and Exchange Commission, nor does it necessarily represent the EI's view of proved reserves by country.

Reserves-to-production (R/P) ratio - If the reserves remaining at the end of any year are divided by the production in that year, the result is the length of time that those remaining reserves would last if production were to continue at that rate. Canadian oil sands 'under active development' are an official estimate. Venezuelan Orinoco Belt reserves are based on the OPEC Secretariat and government announcements. Reserves and R/P ratio for Canada includes Canadian oil sands. Reserves and R/P ratio for Venezuela includes the Orinoco Belt. Saudi Arabia's oil reserves include NGLs from 2017. Reserves include gas condensate and natural gas liquids (NGLs) as well as crude oil. Shares of total and R/P ratios are calculated using thousand million barrels figures.

Give current information about India in 2024.

Table 2.2: World top 30 crude oil* producing countries, 2023			
S.No	Country	Production	
		Million tonnes	Million barrels daily
1	US	827.1	19.4
2	Russian Federation	541.7	11.1
3	Saudi Arabia	531.7	11.4
4	Canada	277.9	5.7
5	Iran	214.3	4.7
6	Iraq	213.0	4.4
7	China	209.0	4.2
8	Brazil	183.7	3.5
9	United Arab Emirates	176.1	3.9
10	Kuwait	139.8	2.9
11	Mexico	102.5	2.0
12	Norway	94.7	2.0
13	Kazakhstan	84.2	1.8
14	Qatar	74.1	1.8
15	Nigeria	73.9	1.5
16	Algeria	60.4	1.4
17	Libya	59.7	1.3
18	Angola	55.8	1.2
19	Argentina	51.2	1.1
20	Oman	50.6	1.0
21	Venezuela	43.7	0.9
22	Colombia	40.9	0.8
23	United Kingdom	33.4	0.7
24	India	32.6	0.7
25	Indonesia	31.2	0.6
26	Azerbaijan	30.2	0.6
27	Egypt	29.8	0.6
28	Malaysia	25.5	0.6
29	Ecuador	25.5	0.5
30	Guyana	19.5	0.4
	Sub total	4333.8	92.5
	Others	174.6	3.8
	Total World	4508.4	96.3
	of which: OECD	1411.2	31.3
	Non-OECD	3097.3	64.9
	OPEC	1597.8	34.0
	Non-OPEC	2910.7	62.2
	European Union #	16.0	0.3
Source: Energy Institute's Statistical Review of World Energy, 2024 *Includes crude oil, shale oil, oil sands, condensates (lease condensate or gas condensates that require further refining) and NGLs (natural gas liquids - ethane, LPG and naphtha separated from the production of natural gas). Excludes liquid fuels from other sources such as biofuels and synthetic derivatives of coal and natural gas. This also excludes liquid fuel adjustment factors such as refinery processing gain. Excludes oil shales/kerogen extracted in solid form. # Excludes Estonia, Latvia and Lithuania prior to 1985 and Croatia and Slovenia prior to 1990.			

Table 2.3: World top 30 crude oil consuming countries, 2023			
S.no.	Country	Consumption	
		Million tonnes	Million barrels daily
1	US	815.6	19.0
2	China	768.6	16.6
3	India	249.3	5.4
4	Saudi Arabia	172.4	4.1
5	Russian Federation	165.3	3.6
6	Japan	151.4	3.4
7	South Korea	121.4	2.8
8	Brazil	118.4	2.6
9	Canada	99.8	2.4
10	Germany	91.6	2.0
11	Mexico	89.7	2.0
12	Iran	79.8	1.8
13	Singapore	70.7	1.4
14	Indonesia	70.3	1.6
15	France	63.5	1.3
16	United Kingdom	61.7	1.3
17	Spain	59.8	1.2
18	Italy	57.4	1.2
19	Turkey	54.2	1.1
20	Thailand	52.2	1.2
21	United Arab Emirates	50.6	1.1
22	Australia	49.6	1.1
23	Iraq	42.1	0.9
24	Malaysia	40.7	0.9
25	Western Africa	40.1	0.9
26	Netherlands	38.8	0.9
27	Taiwan	37.1	0.8
28	Egypt	34.3	0.7
29	Argentina	32.8	0.7
30	Poland	32.2	0.7
	Sub total	3811.5	84.7
	Others	719.0	15.6
	Total World	4530.5	100.3
	of which: OECD	1993.9	44.7
	Non-OECD	2536.6	55.5
	European Union #	494.0	10.5
Source: Energy Institute's Statistical Review of World Energy, 2024 Inland demand plus international aviation and marine bunkers and refinery fuel and loss. Consumption of biogasoline (such as ethanol) and biodiesel are excluded while derivatives of coal and natural gas are included. # Excludes Estonia, Latvia and Lithuania prior to 1985 and Croatia and Slovenia prior to 1990. Notes: Differences between these world consumption figures and world production statistics are accounted for by stock changes, consumption of non-petroleum additives and substitute fuels and unavoidable disparities in the definition, measurement or conversion of oil supply and demand data.			

Table 2.4: World top 30 crude oil refining capacities* countries					
(Thousand barrels daily)					
S.No	Country	2013	2023	ADDITION	% CHANGE
1	China	14503	18484	3981	27.5
2	US	17925	18429	504	2.8
3	Russian Federation	6229	6781	552	8.9
4	India	4319	5085	766	17.7
5	South Korea	2878	3363	485	16.9
6	Saudi Arabia	2507	3289	782	31.2
7	Japan	4123	3069	1090	26.4
8	Iran	2075	2604	529	25.5
9	Brazil	2097	2290	193	9.2
10	Germany	2061	2076	15	0.7
11	Canada	1929	1954	25	1.3
12	Italy	1861	1794	(67)	-3.6
13	Spain	1546	1591	44	2.9
14	Mexico	1606	1558	(47)	-3.0
15	Kuwait	936	1309	373	39.9
16	Venezuela	1303	1303	0	0.0
17	Singapore	1414	1302	(112)	-7.9
18	United Arab Emirates	712	1259	547	76.8
19	Thailand	1237	1244	7	0.6
20	Indonesia	1099	1242	143	13.0
21	Netherlands	1279	1241	(38)	-3.0
22	Iraq	917	1219	302	32.9
23	United Kingdom	1498	1219	(279)	-18.6
24	France	1375	1145	(230)	-16.7
25	Taiwan	1197	1083	(114)	-9.5
26	Malaysia	612	955	343	56.0
27	Turkey	596	822	226	37.9
28	Egypt	810	795	(15)	-1.9
29	Other Africa	724	698	(26)	-3.5
30	Algeria	647	657	10	1.6
	Sub total	82014	89860	6895	8.4
	Others	14667	13638	(1029)	-7.0
	Total World	96681	103498	6817	9.7
	of which: OECD	44881	43654	(1227)	-2.7
	Non-OECD	51800	59844	8044	15.5
	European Union #	12777	12154	(623)	-4.9
Source: Energy Institute's Statistical Review of World Energy, 2024					
* Atmospheric distillation capacity at year end on a calendar-day basis.					
# Excludes Estonia, Latvia and Lithuania prior to 1985 and Croatia and Slovenia prior to 1990.					

Table 2.5A: State wise Crude Oil Production (Including Condensate) in TMT							
State	2019-20	2020-21	2021-22	2022-23	2023-24 (P)	Apr-Sep 2023-24 (P)	Apr-Sep 2024-25 (P)
Onshore							
Assam	4093	3902	3991	4166	4361	2156	2245
Arunachal Pradesh	56	53	48	47	52	25	26
Andhra Pradesh	243	195	202	236	250	114	144
Gujarat	4707	4651	4626	4849	4950	2470	2534
Rajasthan	6653	5891	5885	5074	4421	2322	1813
Tamil Nadu	415	410	367	324	294	141	138
West Bengal	0.00	0.13	0.05	0.01	0.00	0.00	0.00
A. Onshore Total Production	16167	15103	15120	14697	14329	7226	6900
Offshore							
Eastern Offshore	557	744	626	550	1463	580	1059
Western Offshore	14857	14236	13604	13552	13239	6676	6337
Gujarat Offshore	589	411	338	379	326	196	81
B. Offshore Total Production	16003	15391	14569	14482	15027	7451	7477
Total Production (A+B)	32170	30494	29688	29179	29356	14678	14378
Note: Source: ONGC, OIL & DGH (P): Provisional							
Table 2.5B : Indigenous Crude Oil and Condensate production							
(MMT)							
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24 (P)	Apr-Sep 2023-24 (P)	Apr-Sep 2024-25 (P)
PSU companies							
ONGC	19.2	19.1	18.5	18.4	18.1	9.1	8.8
OIL	3.1	2.9	3.0	3.2	3.3	1.6	1.7
PSU total	22.4	22.0	21.5	21.6	21.5	10.7	10.6
PSC total	8.2	7.1	7.0	6.2	5.7	2.9	2.7
Total crude oil	30.5	29.1	28.4	27.8	27.2	13.7	13.3
Condensate	1.6	1.4	1.2	1.4	2.2	1.0	1.1
Total (crude oil + condensate)	32.2	30.5	29.7	29.2	29.4	14.7	14.4
Total (crude oil + condensate) (crore barrels)	23.6	22.4	21.8	21.4	21.5	10.8	10.5
Source: Oil companies and DGH, (P):							
Table 2.6 : Self sufficiency in petroleum products							
(MMT)							
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24 (P)	Apr-Sep 2023-24 (P)	Apr-Sep 2024-25 (P)
i) Indigenous crude oil processing	29.3	28.0	27.0	26.5	26.9	13.3	13.2
a) Products from indigeneous c	27.3	26.1	25.2	24.7	25.1	12.4	12.3
b) Products from fractionators	4.8	4.2	4.1	3.5	3.5	1.7	1.8
ii) Total production from indigenous crude and condensate (a+b)	32.1	30.3	29.3	28.2	28.5	14.2	14.2
iii) Total domestic consumption	214.1	194.3	201.7	223.0	234.3	114.3	117.7
Percentage of self sufficiency	15.0%	15.6%	14.5%	12.6%	12.2%	12.4%	12.0%
Source: Oil companies (P): Provisional Note: 1. Production of petroleum products from indigenous crude considered at 93.3% of indigenous crude oil processing. 2. The balance demand of petroleum products is met through import of crude oil and POL products.							

Table 2.7 (A) : Status of blocks under NELP (As on 01.10.2024)																		
ROUND	LAUNCH YEAR	OFFERED	AWARDED				RELINQUISHED/ PROPOSED FOR RELINQUISHMENT/TERMINATION NOTICE SENT/OPERATIONAL ISSUES/PEL AWAITED				OPERATIONAL							
			DEEP WATER	SHALLOW WATER	ONLAND	TOTAL	DEEP WATER	SHALLOW WATER	ONLAND	TOTAL	DEEP WATER	SHALLOW WATER	ONLAND	TOTAL				
NELP-I	1999	48	7	16	1	24	5	15	1	21	2	1	0	3				
NELP-II	2000	25	8	8	7	23	8	8	6	22	0	0	1	1				
NELP-III	2002	27	9	6	8	23	9	5	5	19	0	1	3	4				
NELP-IV	2003	24	10	0	10	20	10	0	7	17	0	0	3	3				
NELP-V	2005	20	6	2	12	20	6	1	9	16	0	1	3	4				
NELP-VI	2006	55	21	6	25	52	21	5	20	46	0	1	5	6				
NELP-VII	2007	57	11	7	23	41	11	5	20	36	0	2	3	5				
NELP-VIII	2009	70	8	11	13	32	8	11	12	31	0	0	1	1				
NELP-IX	2010	34	1	3	15	19	1	3	10	14	0	0	5	5				
TOTAL		360	81	59	114	254	79	53	90	222	2	6	24	32				
Source: DGH																		
Table 2.7(B): Status of blocks under OALP round of HELP and DSF Rounds (As on 01.10.2024)																		
ROUND	LAUNCH YEAR	OFFERED	AWARDED				RELINQUISHED/ PROPOSED FOR RELINQUISHMENT				OPERATIONAL				PEL Awaited			
			DEEP/ULTRA DEEP WATER	SHALLOW WATER	ONLAND	TOTAL	DEEP/ULTRA DEEP WATER	SHALLOW WATER	ONLAND	TOTAL	DEEP/ULTRA DEEP WATER	SHALLOW WATER	ONLAND	TOTAL	DEEP/ULTRA DEEP WATER	SHALLOW WATER	ONLAND	TOTAL
OALP																		
OALP Round-I	2018	55	1	8	46	55	0	0	6	6	1	8	40	49	0	0	0	0
OALP Round-II	2019	14	1	5	8	14	0	0	1	1	1	5	6	12	0	0	1	1
OALP Round-III	2019	23	1	3	14	18	0	0	3	3	1	3	9	13	0	0	2	2
OALP Round-IV	2019	7	0	0	7	7	0	0	0	0	0	0	7	7	0	0	0	0
OALP Round-V	2020	11	1	2	8	11	0	0	1	1	1	2	8	11	0	0	0	0
OALP Round-VI	2021	21	2	4	15	21	0	0	0	0	2	4	15	21	0	0		0
OALP Round-VII	2021	8	1	2	5	8	0	0	0	0	1	2	4	7	0	0	1	1
OALP Round-VIII	2022	10	4	4	2	10	0	0	0	0	3	3	0	6	1	0	2	3
OALP Total		149	11	28	105	144	0	0	11	11	10	27	89	126	1	0	6	7
DSF																		
DSF Round-I	2016	46	0	7	23	30	0	4	7	11	0	3	12	15	0	0	4	4
DSF Round-II	2018	25	0	9	15	24	0	1	4	5	0	8	8	16	0	0	3	3
DSF Round-III*	2021	32	1	19	11	31	0	1	0	1	1	17	6	24	0	1	5	6
DSF Total		103	1	35	49	85	0	6	11	17	1	28	26	55	0	1	12	13
TOTAL		252	12	63	154	229	0	6	22	28	11	55	115	181	1	1	18	20
Source: DGH Note: NELP: New Exploration Licensing Policy HELP: Hydrocarbon Exploration Licensing Policy OALP: Open Acreage Licensing Policy Round DSP: Discovered Small and Marginal Fields																		

Table 2.8 : Domestic Oil & Gas Production vis a vis Overseas Production							
Year	2019-20	2020-21	2021-22	2022-23	2023-24 (P)	Apr-Sep 2023-24 (P)	Apr-Sep 2024-25 (P)
Total domestic production (MMTOE)	63.4	59.2	63.7	63.6	65.8	32.6	32.5
Overseas production by Indian Companies (MMTOE)	24.5	21.9	21.8	19.5	19.9	9.9	9.7
Overseas production as percentage of domestic production	38.6%	37.0%	34.3%	30.7%	30.2%	30.3%	29.8%
Source: ONGC Videsh Ltd., OIL, GAIL, BPRL, IOCL and HPCL							
(P): Provisional							
Table 2.9 : Coal Bed Methane (CBM) Gas development in India as on 01.10.2024							
Parameter					Value		Unit
Prognosticated CBM resources					91.80		TCF
Established CBM resources					12.10		TCF
Total available coal bearing areas (India)					32760.00		Sq. KM
Total available coal bearing areas with MoPNG/DGH					12254.00		Sq. KM
Area awarded					21177.00		Sq. KM
Blocks awarded*					40		Nos.
Exploration initiated (Area considered if any boreholes were drilled in the awarded block)					11578.00		Sq. KM
Production of CBM gas		April 2024- September 2024(P)			362.47		MMSCM
*Total number of blocks awarded is 40 however, one block was awarded twice. Source: DGH							
Table 2.10: Status of Shale Gas and oil development in India (As on 01.10.2024)							
Policy		Details					
Policy Guidelines for Exploration & exploitation of Shale gas and oil		Shale gas and oil exploration policy was announced in October, 2013. ONGC and OIL India Ltd have been allotted 50 and 6 blocks respectively for assessment under Phase-I. ONGC identified 50 blocks in 4 basins and OIL identified 6 blocks in 2 basins in Phase-I.					
		Under Hydrocarbon Exploration and Licensing Policy (HELP), 2016, all types of hydrocarbon resources, both Conventional and Unconventional including CBM, shale gas/oil, tight gas and gas hydrates were allowed to be explored and exploited.					
		In August 2018, the Government of India notified a Policy framework for Exploration and exploitation of Unconventional hydrocarbons in existing acreages under existing Production Sharing Contracts (PSC), Coal Bed Methane (CBM) Contracts and Nomination fields.					
Exploration Activities							
Company		Basin	Phase-I Blocks	MWP* Wells	Blocks Taken up for Drilling	Actual Wells Drilled	
ONGC : Activities up to 2023-24		Cambay	28	29	16	17	
		KG	10	13	6	8	
		Cauvery	9	12	1	3	
		Assam	3	3	2	2	
		Total	50	57	25	30	
OIL : Activities up to 2023-24		Jaisalmer	1	2	1	1	
		Assam	5	6	0	3	
		Total	6	8	1	4	
Grand Total			56	65	26	34	
*MWP : Minimum Work Programme							

Chapter-3

Natural Gas



Chapter Highlights

Natural Gas

1. Domestic Natural Gas production:

- a. The domestic Gross Production of natural gas for the from April 2024- September 2024 period has shown an increase of ~1.6% when compared from April 2023- September 2024 i.e. an increase of ~281 MMSCM from 17879 MMSCM in April 2023- September 2024 to 18160 MMSCM in April 2023- September 2024.
- b. The six-month minuscule rise is mainly due to an increase in production of natural gas from PSC/JVs fields (~ 8.6%) and OIL from nomination fields (~3.9%). Whereas natural gas production from ONGC nomination fields have shown declining trend (~-3.5%).

2. LNG import*:

- a. The LNG Imports in volume terms increase by ~18.03% i.e. from 15416 MMSCM in the period April 2023- September 2023 to 18915 MMSCM in the period April 2024- September 2024. In value terms, the LNG Imports in US \$ terms have shown an increase of ~ 17.37% i.e. from US \$ 6486 Million in the period April 2023- September 2023 to US \$ 7613 Million in the period April 2024- September 2024.

(*Data may vary from DGCIS data)

3. LNG terminals capacity utilization:

- a. Utilization of LNG terminal capacity of 47.7 MMTPA in the period April 2024- September 2024 ranged from ~21.8% (Kochi LNG Terminal) to ~103.9% (Dahej LNG terminal).

4. CGD Networks:

- a. In terms of infrastructure, as on 01.10.2024, in CNG there are 7259 CNG stations in 297 GA's reported by about 56 CGD entities and in PNG there are 13706331 PNG connections (DPNG- 13643381 Nos., Commercial- 43281 Nos, Industrial- 19669) in 250 GA's reported by about 47 CGD entities. (Source: PNGRB)
- b. In terms of aggregated 6 monthly sales (April 2024- September 2024), there was an increase of ~9% in CNG sector & ~8% in Industrial sector sales, and decrease of ~2% in Domestic and Commercial sector sale from the immediate previous six-month period (October 2022 -March-2023). Total Six-Monthly sales under CGD sector also increased by ~8% to ~41.63 MMSCMD when compared to last 6 months CGD sales (~ 38.56 MMSCMD).

5. Consumption:

- a. From availability perspective: Total Consumption (including for internal use i.e Net Production + LNG import) showed an increase of ~ 11.76% to 36971 MMSCM (April 2024- September 2024) from 32920 MMSCM (April 2023- September 2023).
- b. Sectoral Consumption: Major Sectors for NG consumption during April 2024- September 2024 were Fertilizer (28 %), CGD (20%), Power (15%), Refinery (8%) and Petrochem (4 %).

Table 3.1 : World top 30 natural gas reserve countries		
As in 2020		
Sr.No.	Country	BCM
1	Russian Federation	37392
2	Iran	32101
3	Qatar	24665
4	Turkmenistan	13601
5	US	12619
6	China	8399
7	Venezuela	6260
8	Saudi Arabia	6019
9	United Arab Emirates	5939
10	Nigeria	5473
11	Iraq	3529
12	Azerbaijan	2504
13	Australia	2390
14	Canada	2354
15	Algeria	2279
16	Kazakhstan	2257
17	Egypt	2138
18	Kuwait	1695
19	Other Africa	1569
20	Libya	1430
21	Norway	1429
22	India	1320
23	Indonesia	1252
24	Ukraine	1091
25	Malaysia	908
26	Uzbekistan	845
27	Oman	666
27	Vietnam	646
29	Israel	589
30	Myanmar	432
	Others	4283
	Total World	188074
	of which: OECD	20280
	Non-OECD	167795
	European Union	442

Source: Energy Institute's Statistical Review of World Energy, 2024. Latest data available for this table is for 2020.

Figures are for Calendar year

Table 3.2 : World top 30 Natural Gas Producing countries		
As in 2023		
Sr. No.	Country	BCM
1	US	1035
2	Russian Federation	586
3	Iran	252
4	China	234
5	Canada	190
6	Qatar	181
7	Australia	152
8	Norway	117
9	Saudi Arabia	114
10	Algeria	102
11	Malaysia	81
12	Turkmenistan	76
13	Indonesia	64
14	Egypt	57
15	United Arab Emirates	56
16	Uzbekistan	44
17	Nigeria	44
18	Oman	43
19	Argentina	42
20	Mexico	36
21	Azerbaijan	36
22	Other Africa	35
23	United Kingdom	34
24	India	32
25	Kazakhstan	31
26	Venezuela	30
27	Pakistan	28
28	Thailand	26
29	Trinidad & Tobago	25
30	Israel	24
	Sub total	3804
	Others	255
	Total World	4059
	of which: OECD	1632
	Non-OECD	2427
	# European Union	34
Source: Energy Institute's Statistical Review of World Energy, 2024		
Note: As per Energy Institute's Statistics Review, India is at 24 th position with Natural Gas Production at 32 BCM in calendar year 2023 while as per MoPNG/PPAC Net Natural Gas Production of India (after excluding flare & loss and internal consumption) during calendar year 2023 has been 35.0 BCM		
Figures are for Calendar year		

Table 3.3 : World top 30 Natural Gas consuming countries		
As in 2023		
Sr. No.	Country	BCM
1	US	886
2	Russian Federation	453
3	China	405
4	Iran	246
5	Canada	121
6	Saudi Arabia	114
7	Mexico	98
8	Japan	92
9	Germany	76
10	United Arab Emirates	67
11	United Kingdom	64
12	India	63
13	South Korea	60
14	Egypt	60
15	Italy	59
16	Turkey	48
17	Thailand	47
18	Uzbekistan	47
19	Algeria	46
20	Malaysia	46
21	Indonesia	45
22	Argentina	45
23	Qatar	44
24	Australia	40
25	Pakistan	38
26	Turkmenistan	37
27	France	34
28	Western Africa	32
29	Brazil	30
30	Venezuela	30
	Sub total	3472
	Others	538
	Total World	4010
	of which: OECD	1757
	Non-OECD	2253
	European Union	319
Source: Energy Institute's Statistical Review of World Energy, 2024. Totals may not tally due to rounding off. Figures are for Calendar year		

Table 3.4 : Natural Gas at a glance							
	2019-20	2020-21	2021-22	2022-23	2023-24 (P)	Apr-Sep 2023-24 (P)	Apr-Sep 2024-25 (P)
Gross production	31184	28672	34024	34450	36438	17879	18160
Net Production (net of flare and loss)	30257	27784	33131	33664	35717	17504	17875
LNG import*	32352	33198	31028	26304	31795	15416	18915
Total Consumption including internal use (Net Production+ LNG import)	62609	60981	64159	59968	67512	32920	36791
Total consumption (in BCM)	62.6	61.0	64.2	60.0	67.5	32.9	36.8
* LNG Import data from DGCIS.							
Table 3.5 : Natural Gas production							
	2019-20	2020-21	2021-22	2022-23	2023-24 (P)	Apr-Sep 2023-24 (P)	Apr-Sep 2024-25 (P)
ONGC							
A) Gross Production	23746	21872	20629	19969	19316	9751	9407
B) Flared	520	458	515	389	280	149	114
C) Internal Use	4697	4432	4239	4073	4089	1970	2038
D) Loss	0	0	0	0	0	0	0
D) =A-B-C Net Production for Sale	18529	16982	15875	15507	14946	7631	7255
Oil India Limited							
A) Gross Production	2668	2480	2893	3041	3090	1517	1577
B) Flared	155	164	200	231	216	122	39
C) Internal Use	377	371	471	473	466	235	269
D) Loss	13	14	32	48	40	20	17
D) =A-B-C Net Production for Sale	2123	1930	2189	2289	2368	1140	1251
PSC/JVs fields							
A) Gross Production	4770	4321	10502	11440	14032	6611	7176
B) Flared	185	199	98	76	152	67	105
C) Internal Use	978	925	1047	957	1026	522	484
D) Loss	54	53	47	43	32	18	9
E) =A-B-C-D Net Production for Sale	3552	3143	9310	10365	12822	6004	6578
Grand Total							
A) Gross Production	31184	28672	34024	34450	36438	17879	18160
B) Flared	860	822	813	695	649	337	259
C) Internal Use	6052	5729	5758	5504	5581	2728	2791
D) Loss	67	67	80	91	72	38	26
E) =A-B-C-D Net Production for Sale	24205	22055	27374	28160	30135	14776	15084
Source: Domestic Gas Producers / DGH / LNG Importing companies/DGCIS (in some cases DGCIS data is prorated)							
Note: LNG import data in Million Metric Tonne (MMT), converted to MMSCM; 1MMT=1325 MMSCM							
BCM: Billion Cubic Meter; MMSCMD: Million Standard Cubic Meter per Day							

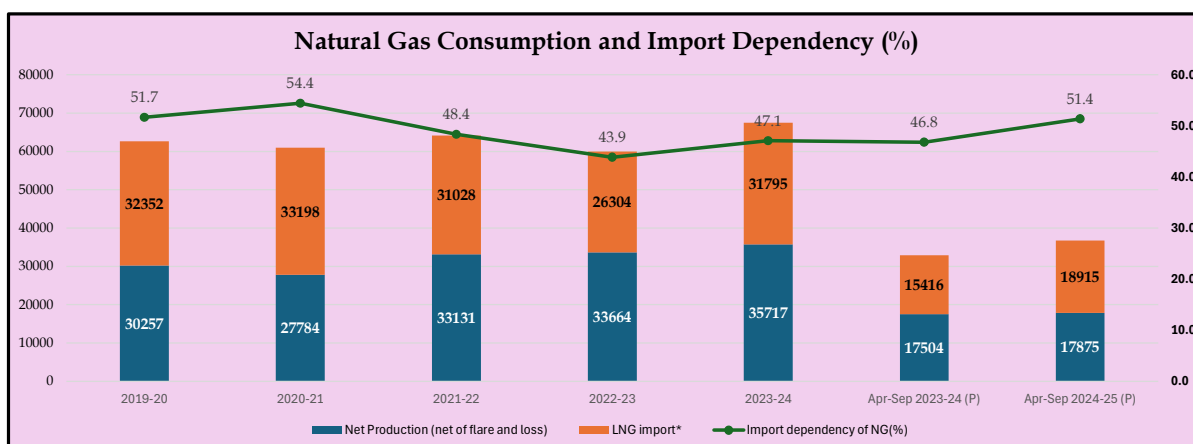
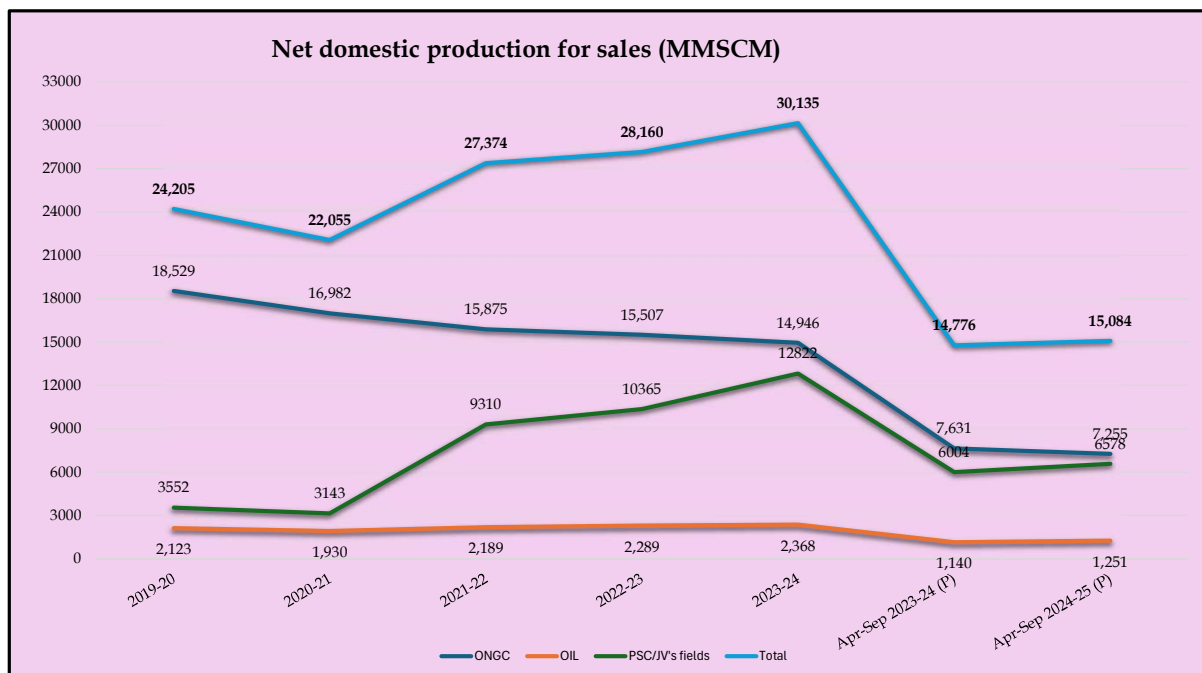


Table 3.5A: State wise Natural Gas Production in MMSCM				
State	Onshore/ CBM/ Offshore	FY	Gross Production	Net Production
Andhra Pradesh	A. Onshore	2019-20	912	874
		2020-21	827	783
		2021-22	809	767
		2022-23	710	680
		2023-24 (P)	722	688
		Apr-Sept'23	341	328
		Apr-Sept'24	382	363
		2023-24 (P)	722	688
Assam & Arunachal Pradesh		2019-20	3187	2942
		2020-21	3051	2815
		2021-22	3429	3136
		2022-23	3611	3274
		2023-24 (P)	3529	3209
		Apr-Sept'23	1733	1566
		Apr-Sept'24	1827	1741
		Gujarat	2019-20	1342
2020-21			1138	1059
2021-22			1017	969
2022-23			923	882
2023-24 (P)			926	897
Apr-Sept'23			450	434
Apr-Sept'24			515	499
Rajasthan			2019-20	1883
		2020-21	2040	1938
		2021-22	2619	2541
		2022-23	2340	2289
		2023-24 (P)	2199	2154
		Apr-Sept'23	1170	1143
		Apr-Sept'24	899	879
		Tamil Nadu	2019-20	1097
2020-21			911	857
2021-22			1067	1043
2022-23			1109	1078
2023-24 (P)			1016	981
Apr-Sept'23			558	539
Apr-Sept'24			517	511
Tripura			2019-20	1473
		2020-21	1634	1634
		2021-22	1531	1530
		2022-23	1675	1675
		2023-24 (P)	1525	1525
		Apr-Sept'23	790	790
		Apr-Sept'24	619	618
		Jharkhand (CBM)	2019-20	5
2020-21			2	2
2021-22			4	4
2022-23			10	9
2023-24 (P)			5	5
Apr-Sept'23	4		3	
Apr-Sept'24	13		5	
	2019-20		345	344

State	Onshore/ CBM/ Offshore	FY	Gross Production	Net Production	
Madhya Pradesh (CBM)	B. CBM	2020-21	334	333	
		2021-22	389	365	
		2022-23	264	263	
		2023-24 (P)	234	234	
		Apr-Sept'23	119	119	
		Apr-Sept'24	141	139	
West Bengal (CBM)		2019-20	306	277	
		2020-21	307	250	
		2021-22	290	290	
		2022-23	399	387	
		2023-24 (P)	411	400	
		Apr-Sept'23	202	196	
Apr-Sept'24	208	203			
Onshore Total	A+B	2019-20	10549	10025	
		2020-21	10243	9670	
		2021-22	11155	10646	
		2022-23	11042	10536	
		2023-24 (P)	10567	10092	
		Apr-Sept'23	5366	5118	
		Apr-Sept'24	5121	4960	
		Mumbai High + Eastern Offshore	2019-20	18576	18226
			2020-21	17086	16810
			2021-22	15943	15581
			2022-23	15325	15065
			2023-24 (P)	14979	14800
Apr-Sept'23	7518		7418		
Apr-Sept'24	7344	7274			
Private / JVCs	C	2019-20	2059	2006	
		2020-21	1343	1303	
		2021-22	6926	6904	
		2022-23	8084	8063	
		2023-24 (P)	10892	10825	
		Apr-Sept'23	4995	4967	
Apr-Sept'24	5695	5641			
Offshore Total	C	2019-20	20635	20232	
		2020-21	18429	18113	
		2021-22	22869	22485	
		2022-23	23409	23128	
		2023-24 (P)	25871	25625	
		Apr-Sept'23	12513	12385	
Apr-Sept'24	13039	12915			
Grand Total	A+B+C	2019-20	31184	30257	
		2020-21	28672	27784	
		2021-22	34024	33131	
		2022-23	34450	33664	
		2023-24 (P)	36438	35717	
		Apr-Sept'23	17879	17503	
Apr-Sept'24	18160	17875			

Table No. 3.6 : PNG data as on 30.09.2024(P)					
State/Union Territory	Geographical Area/ CGD Networks	Authorized CGD Entity	Domestic	Commercial	Industrial
Andhra Pradesh	Anantapur and YSR (Kadapa) Districts	AGP City Gas Private Limited	11081	9	0
	East Godavari District (EAAA)	Godavari Gas Private Limited	49800	10	1
	Kakinada	Bhagyanagar Gas Limited	66243	186	4
	Krishna District (EAAA)	Megha City Gas Distribution Private Limited	28677	187	32
	Sri Potti Sriramulu Nellore District	AGP City Gas Private Limited	6047	12	7
	Srikakulam, Visakhapatnam & Vizianagaram Districts	Indian Oil Corporation Limited	5999	0	5
	Vijaywada	Bhagyanagar Gas Limited	58375	109	1
	West Godavari District	Godavari Gas Private Limited	51107	5	3
Andhra Pradesh Total			277329	518	53
Andhra Pradesh, Karnataka & Tamil Nadu	Chittoor, Kolar and Vellore Districts	AGP City Gas Private Limited	11427	10	8
Andhra Pradesh, Karnataka & Tamil Nadu Total			11427	10	8
Assam	Cachar, Hailakandi & Karimganj Districts	Purba Bharati Gas Private Limited	2565	8	0
	Kamrup & Kamrup Metropolitan Districts	Purba Bharati Gas Private Limited	4532	0	0
	Upper Assam	Assam Gas Company Limited	57106	1405	470
Assam Total			64203	1413	470
Bihar	Araria, Purnia, Katihar and Kishanganj Districts	Indian Oil Corporation Limited	11150	4	1
	Arwal, Jehanabad, Bhojpur and Buxar Districts	Indian Oil Corporation Limited	13149	25	2
	Aurangabad, Kaimur & Rohtas Districts	Indian Oil Corporation Limited	3941	17	1
	Begusarai District	Think Gas Begusarai Private Limited	7352	18	5
	Darbhangha, Madhubani, Supaul, Sitamarhi and Sheohar districts	Bharat Petroleum Corporation Limited	23227	0	0
	Gaya & Nalanda Districts	Indian-Oil Adani Gas Private Limited	2297	2	1
	Khagaria, Saharsa and Madhepura Districts	Indian Oil Corporation Limited	2157	0	0
	Lakhisarai, Munger and Bhagalpur Districts	Indian Oil Corporation Limited	10942	5	0
	Muzaffarpur, Vaishali, Saran and Samastipur Districts	Indian Oil Corporation Limited	40816	13	3
	Patna District	GAIL (India) Limited	70746	68	10
Bihar Total			185777	152	23
Bihar & Jharkhand	Nawada and Koderma Districts	Indian Oil Corporation Limited	1528	0	0
	Sheikhpura, Jamui and Deoghar Districts	Indian Oil Corporation Limited	7492	11	0
Bihar & Jharkhand Total			9020	11	0
Bihar & Uttar Pradesh	Gopalganj, Siwan, West Champaran, East Champaran and Deoria districts	Bharat Petroleum Corporation Limited	12823	0	0
Bihar & Uttar Pradesh Total			12823	0	0
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	Chandigarh	Indian-Oil Adani Gas Private Limited	28270	186	53
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh Total			28270	186	53
Chhattisgarh	Koriya, Surajpur, Balrampur and Surguja districts	Bharat Petroleum Corporation Limited	4551	0	0
Chhattisgarh Total			4551	0	0
Dadra & Nagar Haveli (UT)	UT of Dadra & Nagar Haveli	Gujarat Gas Limited	12706	58	66
Dadra & Nagar Haveli (UT) Total			12706	58	66
Daman & Diu (UT)	UT of Daman	Indian-Oil Adani Gas Private Limited	5322	95	58
Daman & Diu (UT) Total			5322	95	58
Daman and Diu & Gujarat	Diu & Gir Somnath Districts	IRM Energy Private Limited	8177	32	0
Daman and Diu & Gujarat Total			8177	32	0
Goa	North Goa District	Goa Natural Gas Private Limited	11153	38	31
	South Goa District	Indian-Oil Adani Gas Private Limited	4657	2	16
Goa Total			15810	40	47
	Ahmedabad City and Daskroi Area	Adani Total Gas Limited	659876	3705	834
	Ahmedabad District (EAAA)	Gujarat Gas Limited	17337	37	21
	Amreli District	Gujarat Gas Limited	16642	55	5
	Anand area including Kanjari & Vadtal Villages (in Kheda District)	Charotar Gas Sahakari Mandali Limited	50409	759	168

State/Union Territory	Geographical Area/ CGD Networks	Authorized CGD Entity	Domestic	Commercial	Industrial
Gujarat	Anand District (EAAA)	Gujarat Gas Limited	44414	480	30
	Banaskantha District	IRM Energy Private Limited	57153	267	14
	Barwala & Ranpur Talukas	Adani Total Gas Limited	40	1	0
	Bhavnagar	Gujarat Gas Limited	74144	480	100
	Dahej Vagra Taluka	Gujarat Gas Limited	1581	18	60
	Dahod District	Gujarat Gas Limited	12049	35	28
	Gandhinagar Mehsana Sabarkantha	Sabarmati Gas Limited	281241	1213	443
	Gandhinagar###	Gujarat Gas Limited	167748	626	25
	Hazira	Gujarat Gas Limited	41908	150	21
	Jamnagar	Gujarat Gas Limited	54509	247	141
	Junagadh District	Torrent Gas Private Limited	11480	56	2
	Kheda District (EAAA) & Mahisagar District	Adani Total Gas Limited	2773	4	0
	Kutch (West)	Gujarat Gas Limited	11822	69	7
	Nadiad	Gujarat Gas Limited	77092	634	30
	Narmada (Rajpipla) District	Gujarat Gas Limited	4273	4	0
	Navsari	Gujarat Gas Limited	122795	274	47
	Navsari District (EAAA), Surat District (EAAA), Tapi District (EAAA) & the Dangs District	Adani Total Gas Limited	1825	2	0
	Panchmahal District	Gujarat Gas Limited	26285	161	86
	Patan District	Sabarmati Gas Limited	21917	76	9
	Rajkot	Gujarat Gas Limited	380052	1267	1474
	Surat, Bharuch, Ankleshwar	Gujarat Gas Limited	848180	9549	1046
	Surendranagar	Gujarat Gas Limited	32280	345	369
	Surendranagar District (EAAA) & Morbi District (EAAA)	Adani Total Gas Limited	639	1	1
	Vadodara	Vadodara Gas Limited	260685	2927	45
	Vadodara**	Adani Total Gas Limited	616	1	76
	Valsad	Gujarat Gas Limited	138384	466	736
Gujarat Total			3420149	23909	5818
Haryana	Ambala & Kurukshetra Districts	HPOIL Gas Private Limited	16478	48	7
	Bhiwani, Charkhi Dadri & Mahendragarh Districts	Adani Total Gas Limited	2394	2	0
	Faridabad-2	Adani Total Gas Limited	129201	536	859
	Gurugram(IGL)***	Indraprastha Gas Limited	27582	143	70
	Gurugram-2	Haryana City Gas Distribution Limited	53273	283	705
	Hisar District	HCG (KCE) Private Limited	129	3	10
	Jhajjar District	Haryana City Gas (KCE) Private Limited	180	0	202
	Kaithal District	Indraprastha Gas Limited	35532	1	1
	Karnal District	Indraprastha Gas Limited	26424	25	68
	Nuh and Palwal Distircts	Adani Total Gas Limited	25801	32	115
	Panipat District	Indian-Oil Adani Gas Private Limited	17504	21	72
	Rewari District	Indraprastha Gas Limited	25012	97	228
	Rohtak District	Bharat Petroleum Corporation Limited	11623	23	24
	Sonipat	GAIL Gas Limited	35279	43	277
	Sonipat District (EAAA) & Jind District	Hindustan Petroleum Corporation Limited	11375	5	20
	Yamunanagar District	Bharat Petroleum Corporation Limited	11772	26	4
Haryana Total			429559	1288	2662
Haryana & Himachal Pradesh	Panchkula District (EAAA), Sirmaur, Shimla & Solan (EAAA) Districts	Indian-Oil Adani Gas Private Limited	54	1	0
Haryana & Himachal Pradesh Total			54	1	0
Haryana & Punjab	Sirsa, Fatehabad and Mansa (Punjab) Districts	Gujarat Gas Limited	2003	0	0
Haryana & Punjab Total			2003	0	0
Himachal Pradesh	Bilaspur, Hamirpur & Una Districts	Bharat Petroleum Corporation Limited	8487	32	4
Himachal Pradesh Total			8487	32	4
Jharkhand	Bokaro, Hazaribagh & Ramgarh Districts	Indian Oil Corporation Limited	10166	20	0
	Chatra and Palamu Districts	Bharat Petroleum Corporation Limited	3258	0	0
	East Singhbhum District	GAIL (India) Limited	43136	16	0
	Giridih & Dhanbad Districts	GAIL Gas Limited	12178	0	1
	Ranchi District	GAIL (India) Limited	58019	10	3
	Seraikela-Kharsawan District	GAIL Gas Limited	13058	1	4
	West Singhbhum District	GAIL Gas Limited	125	0	0
Jharkhand Total			139940	47	8
	Bagalkot, Koppal and Raichur Districts	AGP City Gas Private Limited	4063	13	0
	Ballari & Gadag Districts	Bharat Petroleum Corporation Limited	19502	0	0

State/Union Territory	Geographical Area/ CGD Networks	Authorized CGD Entity	Domestic	Commercial	Industrial
Karnataka	Belgaum District	Megha City Gas Distribution Private Limited	33186	140	39
	Bengaluru Rural and Urban Districts	GAIL Gas Limited	268884	256	195
	Bidar District	Bharat Petroleum Corporation Limited	6221	1	0
	Chikkamagaluru, Hassan and Kodagu Districts	AGP City Gas Private Limited	331	0	0
	Chitradurga & Davanagere Districts	Unison Enviro Private Limited	4068	2	0
	Dakshina Kannada District*	GAIL Gas Limited	38635	17	17
	Dharwad District	Indian-Oil Adani Gas Private Limited	20372	21	12
	Kalaburagi and Vijayapura Districts	AGP City Gas Private Limited	385	0	0
	Mysuru, Mandya and ChamaraJanagar Districts	AGP City Gas Private Limited	1325	4	28
	Ramanagara District	Maharashtra Natural Gas Limited	36487	4	27
	Tumkur District	Megha City Gas Distribution Private Limited	31996	163	62
	Uttara Kannada, Haveri and Shivamogga Districts	AGP City Gas Private Limited	769	1	0
Karnataka Total			466224	622	380
Kerala	Alapuzzha, Kollam and Thiruvananthapuram Districts	AGP City Gas Private Limited	33049	13	5
	Ernakulam District	Indian-Oil Adani Gas Private Limited	42037	54	19
	Kozhikode & Wayanad Districts	Indian-Oil Adani Gas Private Limited	8090	8	0
	Malappuram District	Indian-Oil Adani Gas Private Limited	6582	6	0
	Palakkad & Thrissur Districts	Indian-Oil Adani Gas Private Limited	11939	10	4
Kerala Total			101697	91	28
Kerala & Puducherry	Kannur, Kasaragod & Mahe Districts	Indian-Oil Adani Gas Private Limited	6334	0	0
Kerala & Puducherry Total			6334	0	0
Madhya Pradesh	Ashoknagar District	Indian Oil Corporation Limited	1467	1	0
	Betul, Chhindwara, Seoni and Balaghat districts	Megha City Gas Distribution Private Limited	136	0	0
	Bhopal & Rajgarh Districts	Think Gas Bhopal Private Limited	37487	71	26
	Dewas	GAIL Gas Limited	22142	40	28
	Dhar District	Naveriya Gas Private Limited	1479	21	9
	Guna District	Indian Oil Corporation Limited	1471	0	0
	Gwalior	Aavantika Gas Limited	54608	74	17
	Gwalior (EAAA) District and Sheopur District	Rajasthan State Gas Limited	200	0	0
	Indore (including Ujjain City)	Aavantika Gas Limited	103929	306	468
	Morena District	Indian Oil Corporation Limited	3804	0	0
	Raisen, Shajapur and Sehore Districts	GAIL Gas Limited	5284	8	7
	Rewa District	Indian Oil Corporation Limited	2473	4	0
	Satna & Shandol Districts	Bharat Petroleum Corporation Limited	6575	2	0
	Shivpuri District	Think Gas Bhopal Private Limited	3126	2	0
	Sidhi and Singrauli Districts	Bharat Petroleum Corporation Limited	4800	0	0
	Ujjain (EAAA) District, Dewas (EAAA) District and Indore (EAAA) District	Gujarat Gas Limited	1764	0	1
Madhya Pradesh Total			250745	529	556
Madhya Pradesh and Rajasthan	Jhabua, Banswara, Ratlam and Dungarpur Districts	Gujarat Gas Limited	1119	0	0
Madhya Pradesh and Rajasthan Total			1119	0	0
Madhya Pradesh and Uttar Pradesh	Jhansi (EAAA) District, Bhind, Jalaun, Lalitpur and Datia Districts	Adani Total Gas Limited	0	0	3
Madhya Pradesh and Uttar Pradesh Total			0	0	3
	Ahmednagar & Aurangabad Districts	Bharat Petroleum Corporation Limited	124464	5	6
	Kolhapur District	HPOIL Gas Private Limited	28581	14	33
	Latur & Osmanabad Districts	Unison Enviro Private Limited	3002	2	0
	Mumbai & Greater Mumbai	Mahanagar Gas Limited	1293595	3333	112
	Nagpur district	HCG Nagpur Private Limited	0	0	0

State/Union Territory	Geographical Area/ CGD Networks	Authorized CGD Entity	Domestic	Commercial	Industrial
Maharashtra	Palghar District & Thane Rural	Gujarat Gas Limited	52809	29	106
	Pune City including Pimpri - Chichwad & adjoining contigeneous areas Hinjewadi, Chakan, Talegaon	Maharashtra Natural Gas Limited	665131	492	317
	Pune District (EAAA)	Torrent Gas Pune Limited	18810	48	61
	Raigarh District (EAAA)	Mahanagar Gas Limited	83364	8	15
	Ratnagiri District	Unison Enviro Private Limited	13041	8	47
	Sangli & Satara Districts	Bharat Petroleum Corporation Limited	70776	2	2
	Sindhudurg District	Maharashtra Natural Gas Limited	7742	3	0
	Solapur District	IMC Limited	32036	1	4
	Thane urban and adjoining Municipalities	Mahanagar Gas Limited	1207177	1087	365
	Maharashtra Total		3600528	5032	1068
Maharashtra & Gujarat	Valsad (EAAA), Dhule & Nashik Districts	Maharashtra Natural Gas Limited	202267	11	41
	Maharashtra & Gujarat Total		202267	11	41
National Capital Territory of Delhi (UT)	National Capital Territory of Delhi	Indraprastha Gas Limited	1618765	4312	1912
	National Capital Territory of Delhi (UT) Total		1618765	4312	1912
Odisha	Angul & Dhekanal Districts	Bharat Petroleum Corporation Limited	4384	2	0
	Bargarh, Debagarh & Sambalpur Districts	Bharat Petroleum Corporation Limited	6415	1	0
	Cuttack District	GAIL (India) Limited	28509	5	0
	Ganjam, Nayagarh & Puri Districts	GAIL Gas Limited	5935	2	0
	Jagatsinghpur & Kendrapara Districts	Bharat Petroleum Corporation Limited	6033	0	0
	Jajpur & Kendujhar Districts	Bharat Petroleum Corporation Limited	5294	1	0
	Khordha District	GAIL (India) Limited	61215	8	2
	Rayagada, Kalahandi, Bolangir and Nuapada districts	Megha City Gas Distribution Private Limited	2	0	0
	Sundargarh & Jharsuguda Districts	GAIL Gas Limited	10793	1	0
	Odisha Total		128580	20	2
Puducherry & Tamil Nadu	Karaikal & Nagapattinam Districts	Torrent Gas Private Limited	429	3	0
	Puducherry & Tamil Nadu Total		429	3	0
Punjab	Amritsar District	Gujarat Gas Limited	28961	432	11
	Bhatinda District	Gujarat Gas Limited	5654	18	2
	Fatehgarh Sahib District	IRM Energy Private Limited	6121	79	193
	Ferozepur, Faridkot and Sri Muktsar Sahib Districts	Gujarat Gas Limited	2125	2	2
	Hoshiarpur and Gurdaspur Districts	Gujarat Gas Limited	4855	3	1
	Jalandhar District (EAAA), Kapurthala & SBS Nagar Districts	Think Gas Ludhiana Private Limited	15049	48	25
	Ludhiana District (EAAA), Barnala & Moga Districts	Think Gas Ludhiana Private Limited	15887	68	70
	Rupnagar District	Bharat Petroleum Corporation Limited	8890	17	0
	SAS Nagar District (EAAA), Patiala & Sangrur Districts	Torrent Gas Private Limited	7820	51	20
	Punjab Total		95362	718	324
Punjab & Rajasthan	Fazilka (except area already authorized), Ganganagar and Hanumangarh districts	Bharat Petroleum Corporation Limited	5725	0	0
	Punjab & Rajasthan Total		5725	0	0
Rajasthan	Ajmer, Pali and Rajsamand Districts	Indraprastha Gas Limited	209533	5	2
	Alwar (Other than Bhiwadi) & Jaipur Districts	Torrent Gas Jaipur Private Limited	6313	31	35
	Barmer, Jaisalmer & Jodhpur Districts	AGP CGD India Private Limited	50976	115	102
	Bhilwara & Bundi Districts	Adani Total Gas Limited	1645	5	4
	Bhiwadi (in Alwar District)	Haryana City Gas Distribution (Bhiwadi) Limited	5563	17	321
	Chittorgarh (Other than Rawatbhata Taluka) & Udaipur Districts	Adani Total Gas Limited	10847	0	0
	Dausa, Karauli, Sawai Madhopur and Tonk districts	Hindustan Petroleum Corporation Limited	1584	0	0
	Dholpur District	Dholpur CGD Private Limited	1231	1	1
	Jalore and Sirohi Districts	Gujarat Gas Limited	7956	31	1
	Jhunjhunu, Sikar and Nagaur districts	Indian Oil Corporation Limited	3169	0	0
	Kota	Rajasthan State Gas Limited	46336	91	1286
	Kota District (EAAA), Baran & Chittorgarh (Only Rawatbhata Taluka) Districts	Torrent Gas Private Limited	3190	28	2

State/Union Territory	Geographical Area/ CGD Networks	Authorized CGD Entity	Domestic	Commercial	Industrial
Rajasthan Total			348343	324	1754
Tamil Nadu	Chennai & Tiruvallur Districts	Torrent Gas Chennai Private Limited	455	6	4
	Coimbatore District	Indian Oil Corporation Limited	23727	0	1
	Dharmapuri and Krishnagiri districts	Indian Oil Corporation Limited	648	0	0
	Kanchipuram District	AGP CGD India Private Limited	4744	10	22
	Kanyakumari, Thoothukudi, Tirunelveli Kattabo and Tenkasi districts	Indian Oil Corporation Limited	1342	0	0
	Madurai, Theni and Virudhnagar districts	Indian Oil Corporation Limited	957	0	0
	Namakkal and Tiruchirapalli districts	IRM Energy Private Limited	101	3	0
	Ramanathapuram District	AGP CGD India Private Limited	4262	4	0
	Salem District	Indian Oil Corporation Limited	3149	2	0
	The Nilgiris and Erode districts	Bharat Petroleum Corporation Limited	2108	0	0
	Tiruppur District	Adani Total Gas Limited	273	0	0
Tamil Nadu Total			41766	25	29
Telangana	Bhadradi Kothagudem & Khamman Districts	Megha City Gas Distribution Private Limited	1720	0	0
	Hyderabad	Bhagyanagar Gas Limited	197242	95	87
	Jagtial, Peddapalli, Karimnagar & Rajanna Sircilla Districts	Indian Oil Corporation Limited	813	0	0
	Jangaon, Jayashankar Bhupalpally, Mahabubabad, Warangal Urban & Warangal Rural Districts	Megha City Gas Distribution Private Limited	3758	5	0
	Medak, Siddipet & Sangareddy Districts	Torrent Gas Private Limited	2383	3	27
	Medchal-Malkajgiri, Ranga Reddy & Vikarabad Districts	Megha City Gas Distribution Private Limited	5661	4	15
	Nalgonda Suryapet & Yadadri Bhuvanagiri Districts	Megha City Gas Distribution Private Limited	5499	28	4
	Nizamabad, Adilabad, Nirmal, Mancherial Kumuram Bheem Asifabad and Kamareddy districts	Maharashtra Natural Gas Limited	0	0	0
Telangana Total			217076	135	133
Telangana and Karnataka	Jogulamba Gadwal, Nagarkurnool, Mahabubnagar, Narayanpet, Wanaparthy and Yadgir districts	Megha City Gas Distribution Private Limited	126	0	2
Telangana and Karnataka Total			126	0	2
Tripura	Agartala	Tripura Natural Gas Company Limited	47324	500	62
	Gomati District	Tripura Natural Gas Company Limited	627	0	0
	West Tripura (EAAA) District	Tripura Natural Gas Company Limited	15547	8	0
Tripura Total			63498	508	62
	Agra	Green Gas Limited	118003	61	17
	Allahabad	Indian-Oil Adani Gas Private Limited	19700	83	12
	Allahabad District (EAAA), Bhadohi & Kaushambi Districts	Indian-Oil Adani Gas Private Limited	4996	6	1
	Amethi, Pratapgarh & Raebareli Districts	Bharat Petroleum Corporation Limited	5859	9	0
	Auraiya, Kanpur Dehat & Etawah Districts	Torrent Gas Private Limited	8766	23	11
	Azamgarh, Mau and Ballia Districts	Torrent Gas Private Limited	8253	11	2
	Bagpat District	Bagpat Green Energy Private Limited	5404	13	29
	Banda, Chitrakoot and Mahoba	Indraprastha Gas Limited	16792	0	0
	Bareilly	Central UP Gas Limited	55153	171	31
	Bareilly (EAAA) District, Pilibhit and Rampur Districts	Hindustan Petroleum Corporation Limited	14046	0	0
	Basti and Ambedkarnagar Districts	Torrent Gas Private Limited	4566	4	2
	Bulandshahr (part) District	Indian-Oil Adani Gas Private Limited	8467	5	52
	Bulandshahr District (EAAA), Aligarh & Hathras Districts	Indian-Oil Adani Gas Private Limited	2828	2	0
	Faizabad & Sultanpur Districts	Green Gas Limited	1999	0	0
	Farrukhabad, Etah and Hardoi Districts	Hindustan Petroleum Corporation Limited	14267	0	0
	Ghaziabad & Hapur Districts	Indraprastha Gas Limited	361728	532	760
	Gonda and Barabanki Districts	Torrent Gas Private Limited	5533	20	9

State/Union Territory	Geographical Area/ CGD Networks	Authorized CGD Entity	Domestic	Commercial	Industrial
Uttar Pradesh	Gorakhpur, Sant Kabir Nagar & Kushinagar Districts	Torrent Gas Private Limited	8364	24	8
	Jaunpur and Ghazipur Districts	Indian-Oil Adani Gas Private Limited	4091	6	0
	Jhansi	Central UP Gas Limited	24692	3	0
	Kanpur	Central UP Gas Limited	122798	381	112
	Kanpur (EAAA) District, Fatehpur and Hamirpur Districts	Indraprastha Gas Limited	43280	7	1
	Khurja	Adani Total Gas Limited	14645	32	249
	Lakhimpur Kheri, Sitapur, Bahraich, Shrawasti, Balrampur, Siddharth Nagar & Maharajganj districts	Bharat Petroleum Corporation Limited	1553	0	0
	Lucknow	Green Gas Limited	132444	59	11
	Mainpuri and Kannauj Districts	Hindustan Petroleum Corporation Limited	10313	0	0
	Mathura	Torrent Gas Private Limited	14220	31	101
	Meerut	GAIL Gas Limited	57144	75	88
	Meerut District (EAAA), Muzaffarnagar & Shamli Districts	Indraprastha Gas Limited	47895	50	25
	Mirzapur, Chandauli and Sonbhadra Districts	GAIL Gas Limited	8935	0	1
	Moradabad	Torrent Gas Private Limited	31432	59	183
	Moradabad (EAAA) District	Torrent Gas Private Limited	12886	5	11
	Noida (including Greater Noida)	Indraprastha Gas Limited	376384	1214	1896
	Saharanpur District	Bharat Petroleum Corporation Limited	29884	22	1
	Shahjahanpur and Budaun Districts	Hindustan Petroleum Corporation Limited	15250	0	0
	Unnao (EAAA) District	Green Gas Limited	663	0	0
	Varanasi District	GAIL (India) Limited	86667	75	21
Uttar Pradesh Total			1699900	2983	3634
Uttar Pradesh & Rajasthan	Firozabad (Taj Trapezium Zone)	GAIL Gas Limited	24060	62	349
Uttar Pradesh & Rajasthan Total			24060	62	349
Uttar Pradesh and Uttrakhand	Bijnor and Nainital Districts	Hindustan Petroleum Corporation Limited	16249	0	0
Uttar Pradesh and Uttrakhand Total			16249	0	0
Uttarakhand	Dehradun District	GAIL Gas Limited	31947	0	1
	Haridwar District	Haridwar Natural Gas Limited	25186	45	25
	Pauri Garhwal, Uttarkashi, Rudraprayag and Tehri Garhwal districts	Gasonet Services (UK) Limited	1	0	0
	Udham Singh Nagar District	Indian-Oil Adani Gas Private Limited	17740	63	95
Uttarakhand Total			74874	108	121
West Bengal	Alipurduar and Koch Bihar	Bharat Petroleum Corporation Limited	9426	0	0
	Birbhum, Murshidabad, Maldah & Dakshin Dinajpur districts	Hindustan Petroleum Corporation Limited	808	0	0
	Burdwan District	Indian-Oil Adani Gas Private Limited	6464	6	1
	Darjeeling, Jalpaiguri and Uttar Dinajpur Districts	Hindustan Petroleum Corporation Limited	2617	0	0
	Howrah (EAAA) District and Hoogly (EAAA) District	Hindustan Petroleum Corporation Limited	2361	0	0
	Kolkata Municipal Corporation and Parts of Adjoining Districts	Bengal Gas Company Limited	5297	0	0
	Nadia (EAAA) District and North 24 Parganas (EAAA) District	Hindustan Petroleum Corporation Limited	6690	0	0
	Purulia and Bankura districts	Bharat Petroleum Corporation Limited	10306	0	0
	South 24 Parganas (EAAA) District	Hindustan Petroleum Corporation Limited	138	0	0
West Bengal Total			44107	6	1
Grand Total			13643381	43281	19669



Table 3.7: CNG Sales in India									
(Sales in TMT) #									
State (s) / Union Territory	Company name	No. of companies (as on 31.03.2024)	2019-20	2020-21	2021-22	2022-23	2023-24	2023-24 (April-Sep)	2024-25 (April-Sep)
Andhra Pradesh*	AGP City Gas Private Limited,Bhagyanagar Gas Limited,Godavari Gas Private Limited,Indian Oil Corporation Limited,Megha City Gas Distribution Private Limited	5	21	13	33	48	40	19	24
Andhra Pradesh, Karnataka and Tamil Nadu	AGP City Gas Private Limited	1	0	0	0.1	2.5	6	2	5
Assam	Adani Total Gas Limited,Assam Gas Company Limited,Purba Bharati Gas Private Limited	3	0.02	0.05	0.06	0.5	1	0	1
Bihar	Bharat Petroleum Corporation LimitedGAIL (India) LimitedIndian Oil Corporation LimitedIndian-Oil Adani Gas Private LimitedThink Gas Begusarai Private Limited	5	2	5	15	38	61	27	42
Bihar & Jharkhand	Indian Oil Corporation Limited	1	0	0	0	0.04	1	0.30	1
Bihar & Uttar Pradesh	Bharat Petroleum Corporation Limited	1	0	0	0	0	0	0	2
Chandigarh, Haryana, Punjab & Himachal Pradesh	Indian-Oil Adani Gas Private Limited	1	21	14	25	35	39	19	21
Chhattisgarh	Adani Total Gas Limited,Bharat Petroleum Corporation Limited	2	0	0	0	0	0	0.000001	0.04
Dadra & Nagar Haveli**	Gujarat Gas Limited	1	3	2	3	3.2	3	2	3
Daman and Diu	Indian-Oil Adani Gas Private Limited	1	2	1.37	3	2.2	2	1	2
Delhi NCT***	Indraprastha Gas Limited	1	1033	785	1015	1210	1192	599	608
Goa	Goa Natural Gas Private Limited,Indian-Oil Adani Gas Private Limited	2	0.03	0.15	1.05	2.9	5	3	3
Gujarat **	Adani Total Gas Limited,Charotar Gas Sahakari Mandali Limited,Gujarat Gas Limited,Hindustan Petroleum Corporation Limited,IRM Energy Private Limited,Sabarmati Gas Limited,Torrent Gas Private Limited,Vadodara Gas Limited	8	745	649	945	1084	1166	555	639
Gujarat & UT of Daman and Diu	IRM Energy Private Limited	1	0.07	1	4	6	7	3	4
Haryana	Adani Total Gas Limited,Bharat Petroleum Corporation Limited,GAIL Gas Limited,Haryana City Gas (KCE) Private Limited,Haryana City Gas Distribution Limited,HCG (KCE) Private Limited,Hindustan Petroleum Corporation Limited,HPOIL Gas Private Limited,Indian-Oil Adani Gas Private Limited,Indraprastha Gas Limited	10	197	173	303	428	478	232	273
Haryana & Himachal Pradesh	Indian-Oil Adani Gas Private Limited	1	0	0.08	0.7	1.2	1	1	1
Haryana & Punjab	Gujarat Gas Limited	1	0	1.4	5	6.7	8	3	5
Himachal Pradesh	Bharat Petroleum Corporation Limited,Gasonet Services (HP) Limited	2	0	0	0.2	0.4	1	0.3	1
Jharkhand	Adani Total Gas Limited,Bharat Petroleum Corporation Limited,GAIL (India) Limited,GAIL Gas Limited,Indian Oil Corporation Limited	5	0.34	1.2	4	10	14	7	8
Karnataka	Adani Total Gas Limited,AGP City Gas Private Limited,Bharat Petroleum Corporation Limited,GAIL Gas Limited,Indian-Oil Adani Gas Private Limited,Maharashtra Natural Gas Limited,Megha City Gas Distribution Private Limited,Unison Enviro Private Limited	8	1	3	15	56	112	48	89
Kerala	AGP City Gas Private Limited,Indian-Oil Adani Gas Private Limited,Sholagasco Private Limited	3	6	4	12	28	43	19	29
Kerala & Puducherry	Indian-Oil Adani Gas Private Limited	1	0	0	0.2	1.5	4	2	3
Madhya Pradesh	Aavantika Gas Limited,Adani Total Gas Limited,Bharat Petroleum Corporation Limited,GAIL Gas Limited,Gujarat Gas Limited,Indian Oil Corporation Limited,Megha City Gas Distribution Private Limited,Naveriya Gas Private Limited,Rajasthan State Gas Limited,Think Gas Bhopal Private Limited	10	34	24	45	76	95	45	61
Madhya Pradesh & Rajasthan	Gujarat Gas Limited,Megha City Gas Distribution Private Limited	2	0	0.26	3	5.5	8	4	6
Madhya Pradesh and Chhattisgarh	Adani Total Gas Limited	1	0	0	0	0.01	0.06	0.02	0

State (s) / Union Territory	Company name	No. of companies (as on 31.03.2024)	2019-20	2020-21	2021-22	2022-23	2023-24	2023-24 (April-Sep)	2024-25 (April-Sep)
Maharashtra	Adani Total Gas Limited,Bharat Petroleum Corporation Limited,Gujarat Gas Limited,HCG Nagpur Private Limited,HPOIL Gas Private Limited,IMC Limited,Indian Oil Corporation Limited,Mahanagar Gas Limited,Maharashtra Natural Gas Limited,Megha City Gas Distribution Private Limited,Torrent Gas Private Limited,Unison Enviro Private Limited	12	738	504	812	1022	1130	547	635
Maharashtra & Gujarat	Maharashtra Natural Gas Limited	1	0	1.4	5.6	19	23	11	15
Maharashtra and Madhya Pradesh	Adani Total Gas Limited	1	0	0	0	0	0	0.31	2
Odisha	Adani Total Gas Limited,Bharat Petroleum Corporation Limited,GAIL (India) Limited,GAIL Gas Limited,Megha City Gas Distribution Private Limited	5	3	2	4	6.9	12	5	9
Puducherry (UT) & Tamil Nadu	Torrent Gas Private Limited	1	0	0.001	0.04	0.18	0.13	0.14	1
Puducherry (UT)	East Coast Natural Gas Private Limited	1	0	0.000	0.00	0.01	0.35	0.05	0
Punjab	Adani Total Gas Limited,Bharat Petroleum Corporation Limited,Gujarat Gas Limited,Indian Oil Corporation Limited,IRM Energy Private Limited,Megha City Gas Distribution Private Limited,Think Gas Ludhiana Private Limited,Torrent Gas Private Limited	8	7	14	43	61	66	32	38
Punjab & Rajasthan	Bharat Petroleum Corporation Limited	1	0	0	0	0	0	0.04	1
Rajasthan	Adani Total Gas Limited,AGP CGD India Private Limited,Dholpur CGD Private Limited,Gasonet Services (RJ) Limited,Gujarat Gas Limited,Haryana City Gas Distribution (Bhiwadi) Limited,Hindustan Petroleum Corporation Limited,Indian Oil Corporation Limited,Indraprastha Gas Limited,Rajasthan State Gas Limited,Torrent Gas Jaipur Private Limited,Torrent Gas Private Limited	12	9	15	47	94	134	63	88
Tamil Nadu	Adani Total Gas Limited,AGP CGD India Private Limited,Bharat Petroleum Corporation Limited,Indian Oil Corporation Limited,IRM Energy Private Limited,Megha City Gas Distribution Private Limited,Torrent Gas Chennai Private Limited	7	0	0.004	2	23	60	24	54
Telangana*	Bhagyanagar Gas Limited,Indian Oil Corporation Limited,Maharashtra Natural Gas Limited,Megha City Gas Distribution Private Limited,Torrent Gas Private Limited	5	13	9	33	68	64	29	43
Telangana & Karnataka	Megha City Gas Distribution Private Limited	1	0	0	0	0.16	1	0.5	1
Tripura	Tripura Natural Gas Company Limited	1	16	18	20	24	26	13	13
UT of Jammu and Kashmir	Indian Oil Corporation Limited	1	0	0	0	0	0	0	0.13
Uttar Pradesh	Adani Total Gas Limited,Bagpat Green Energy Private Limited,Bharat Petroleum Corporation Limited,Central UP Gas Limited,GAIL (India) Limited,GAIL Gas Limited,Green Gas Limited,Hindustan Petroleum Corporation Limited,Indian-Oil Adani Gas Private Limited,Indraprastha Gas Limited,Megha City Gas Distribution Private Limited,Torrent Gas Private Limited	12	392	339	545	670	769	367	444
Uttar Pradesh & Uttarakhand	Hindustan Petroleum Corporation Limited	1	0	0.359	2	3.5	6	3	4
Uttar Pradesh & Madhya Pradesh	Adani Total Gas Limited	1	0.001	0.402	8	4.9	8	4	5
Uttar Pradesh & Rajasthan	GAIL Gas Limited	1	0	0	0	36	40	19	21
Uttarakhand	GAIL Gas Limited,Gasonet Services (UK) Limited,Haridwar Natural Gas Private Limited,Indian-Oil Adani Gas Private Limited	4	1	5	12	18	20	10	13
West Bengal	Bengal Gas Company Limited,Bharat Petroleum Corporation Limited,Hindustan Petroleum Corporation Limited,Indian Oil Corporation Limited,Indian-Oil Adani Gas Private Limited	5	2	2	4	6.5	5	5	8
Total			3247	2589	3968	5103	5661	2722	3225

Table No. 3.8 : CNG stations as on 30.09.2024 (P)			
State/Union Territory	Geographical Area/CGD Networks	Authorized CGD Entity	CNG Stations
Andhra Pradesh	Anantapur and YSR (Kadapa) Districts	AGP City Gas Private Limited	25
	East Godavari District (EAAA)	Godavari Gas Private Limited	16
	Kakinada	Bhagyanagar Gas Limited	13
	Krishna District (EAAA)	Megha City Gas Distribution Private Limited	32
	Kurnool, Guntur, and Prakasam districts	Indian Oil Corporation Limited	24
	Sri Potti Sriramulu Nellore District	AGP City Gas Private Limited	18
	Srikakulam, Visakhapatnam & Vizianagaram Districts	Indian Oil Corporation Limited	18
	Vijaywada	Bhagyanagar Gas Limited	34
	West Godavari District	Godavari Gas Private Limited	16
Andhra Pradesh Total			196
Andhra Pradesh, Karnataka & Tamil Nadu	Chittoor, Kolar and Vellore Districts	AGP City Gas Private Limited	47
Andhra Pradesh, Karnataka & Tamil Nadu Total			47
Assam	Baksa, Barpeta, Bongaigaon, Chirang, Nalbari and Bajali districts	Adani Total Gas Limited	7
	Cachar, Hailakandi & Karimganj Districts	Purba Bharati Gas Private Limited	0
	Kamrup & Kamrup Metropolitan Districts	Purba Bharati Gas Private Limited	4
	Kokrajhar, Dhubri, South Salmara-Mankachar and Goalpara districts	Adani Total Gas Limited	3
	Nagaon, Morigaon, Hojai, Karbi Anglong, West Karbi Anglong and Dima Hasao districts	Adani Total Gas Limited	3
	Upper Assam	Assam Gas Company Limited	7
Assam Total			24
Bihar	Araria, Purnia, Katihar and Kishanganj Districts	Indian Oil Corporation Limited	2
	Arwal, Jehanabad, Bhojpur and Buxar Districts	Indian Oil Corporation Limited	12
	Aurangabad, Kaimur & Rohtas Districts	Indian Oil Corporation Limited	13
	Begusarai District	Think Gas Begusarai Private Limited	9
	Darbhanga, Madhubani, Supaul, Sitamarhi and Sheohar districts	Bharat Petroleum Corporation Limited	12
	Gaya & Nalanda Districts	Indian-Oil Adani Gas Private Limited	21
	Khagaria, Saharsa and Madhepura Districts	Indian Oil Corporation Limited	2
	Lakhisarai, Munger and Bhagalpur Districts	Indian Oil Corporation Limited	10
	Muzaffarpur, Vaishali, Saran and Samastipur Districts	Indian Oil Corporation Limited	45
	Patna District	GAIL (India) Limited	30
Bihar Total			156
Bihar & Jharkhand	Banka (Bihar), Dumka, Godda, Jamtara, Pakur & Sahibganj districts	Hindustan Petroleum Corporation Limited	11
	Nawada and Koderma Districts	Indian Oil Corporation Limited	2
	Sheikhpura, Jamui and Deoghar Districts	Indian Oil Corporation Limited	5
Bihar & Jharkhand Total			18
Bihar & Uttar Pradesh	Gopalganj, Siwan, West Champaran, East Champaran and Deoria districts	Bharat Petroleum Corporation Limited	26
Bihar & Uttar Pradesh Total			26
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	Chandigarh	Indian-Oil Adani Gas Private Limited	33
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh Total			33
	Jashpur, Raigarh, Janjgir-Champa and Mahasamund districts	Adani Total Gas Limited	4

State/Union Territory	Geographical Area/CGD Networks	Authorized CGD Entity	CNG Stations
Chhattisgarh	Kabirdham, Raj Nandgaon and Kanker districts	Adani Total Gas Limited	6
	Koriya, Surajpur, Balrampur and Surguja districts	Bharat Petroleum Corporation Limited	7
	Mungeli, Bemetara, Durg, Balod and Dhamtari districts	Adani Total Gas Limited	5
Chhattisgarh Total			22
Dadra & Nagar Haveli (UT)	UT of Dadra & Nagar Haveli	Gujarat Gas Limited	6
Dadra & Nagar Haveli (UT) Total			6
Daman & Diu (UT)	UT of Daman	Indian-Oil Adani Gas Private Limited	5
Daman & Diu (UT) Total			5
Daman and Diu & Gujarat	Diu & Gir Somnath Districts	IRM Energy Private Limited	15
Daman and Diu & Gujarat Total			15
Goa	North Goa District	Goa Natural Gas Private Limited	7
	South Goa District	Indian-Oil Adani Gas Private Limited	7
Goa Total			14
Gujarat	Ahmedabad City (Only for CNG)##	Hindustan Petroleum Corporation Limited	22
	Ahmedabad City and Daskroi Area	Adani Total Gas Limited	84
	Ahmedabad District (EAAA)	Gujarat Gas Limited	26
	Amreli District	Gujarat Gas Limited	15
	Anand area including Kanjari & Vadtal Villages (in Kheda District)	Charotar Gas Sahakari Mandali Limited	14
	Anand District (EAAA)	Gujarat Gas Limited	28
	Banaskantha District	IRM Energy Private Limited	43
	Barwala & Ranpur Talukas	Adani Total Gas Limited	5
	Bhavnagar	Gujarat Gas Limited	39
	Dahej Vagra Taluka	Gujarat Gas Limited	5
	Dahod District	Gujarat Gas Limited	19
	Gandhinagar Mehsana Sabarkantha	Sabarmati Gas Limited	136
	Gandhinagar###	Gujarat Gas Limited	16
	Hazira	Gujarat Gas Limited	1
	Jamnagar	Gujarat Gas Limited	30
	Junagadh District	Torrent Gas Private Limited	17
	Kheda District (EAAA) & Mahisagar District	Adani Total Gas Limited	25
	Kutch (West)	Gujarat Gas Limited	19
	Nadiad	Gujarat Gas Limited	32
	Narmada (Raipipla) District	Gujarat Gas Limited	9
	Navsari	Gujarat Gas Limited	26
	Navsari District (EAAA), Surat District (EAAA), Tapi District (EAAA) & the Dangs District	Adani Total Gas Limited	12
	Panchmahal District	Gujarat Gas Limited	31
	Patan District	Sabarmati Gas Limited	25
	Porbandar District	Adani Total Gas Limited	10
	Rajkot	Gujarat Gas Limited	89
	Surat, Bharuch, Ankleshwar	Gujarat Gas Limited	119
	Surendranagar	Gujarat Gas Limited	28
	Surendranagar District (EAAA) & Morbi District (EAAA)	Adani Total Gas Limited	15
	Vadodara	Vadodara Gas Limited	43
	Vadodara**	Adani Total Gas Limited	6
	Valsad	Gujarat Gas Limited	27
Gujarat Total			1016
Haryana	Ambala & Kurukshetra Districts	HPOIL Gas Private Limited	27
	Bhiwani, Charkhi Dadri & Mahendragarh Districts	Adani Total Gas Limited	48
	Faridabad-2	Adani Total Gas Limited	32
	Gurugram(IGL)***	Indraprastha Gas Limited	25
	Gurugram-2	Haryana City Gas Distribution Limited	42
	Hisar District	HCG (KCE) Private Limited	19
	Jhajjar District	Haryana City Gas (KCE) Private Limited	19
	Kaithal District	Indraprastha Gas Limited	15
	Karnal District	Indraprastha Gas Limited	29
	Nuh and Palwal Distircts	Adani Total Gas Limited	38
	Panipat District	Indian-Oil Adani Gas Private Limited	17

State/Union Territory	Geographical Area/CGD Networks	Authorized CGD Entity	CNG Stations
	Rewari District	Indraprastha Gas Limited	42
	Rohtak District	Bharat Petroleum Corporation Limited	22
	Sonipat	GAIL Gas Limited	27
	Sonipat District (EAAA) & Jind District	Hindustan Petroleum Corporation Limited	40
	Yamunanagar District	Bharat Petroleum Corporation Limited	15
Haryana Total			457
Haryana & Himachal Pradesh	Panchkula District (EAAA), Sirmaur, Shimla & Solan (EAAA) Districts	Indian-Oil Adani Gas Private Limited	14
Haryana & Himachal Pradesh Total			14
Haryana & Punjab	Sirsa, Fatehabad and Mansa (Punjab) Districts	Gujarat Gas Limited	27
Haryana & Punjab Total			27
Himachal Pradesh	Bilaspur, Hamirpur & Una Districts	Bharat Petroleum Corporation Limited	11
	Kangra and Chamba districts	Consortium of THINK Gas Distribution Private Limited, Think Gas Investment Pte. Ltd. & Think Gas Investment Pte. II Ltd	2
	Mandi, Kullu, Kinnaur and Lahaul & Spiti districts	Gasonet Services (HP) Limited	3
Himachal Pradesh Total			16
Jharkhand	Bokaro, Hazaribagh & Ramgarh Districts	Indian Oil Corporation Limited	24
	Chatra and Palamu Districts	Bharat Petroleum Corporation Limited	10
	East Singhbhum District	GAIL (India) Limited	14
	Giridih & Dhanbad Districts	GAIL Gas Limited	12
	Gumla, Latehar, Lohardaga, Simdega, Garhwa and Khunti districts	Adani Total Gas Limited	10
	Ranchi District	GAIL (India) Limited	19
	Seraikela-Kharsawan District	GAIL Gas Limited	13
Jharkhand Total			104
Karnataka	Bagalkot, Koppal and Raichur Districts	AGP City Gas Private Limited	26
	Ballari & Gadag Districts	Bharat Petroleum Corporation Limited	32
	Belgaum District	Megha City Gas Distribution Private Limited	14
	Bengaluru Rural and Urban Districts	GAIL Gas Limited	118
	Bidar District	Bharat Petroleum Corporation Limited	16
	Chikkaballapur district	Megha City Gas Distribution Private Limited	4
	Chikkamagaluru, Hassan and Kodagu Districts	AGP City Gas Private Limited	20
	Chitradurga & Davanagere Districts	Unison Enviro Private Limited	19
	Dakshina Kannada District*	GAIL Gas Limited	35
	Dharwad District	Indian-Oil Adani Gas Private Limited	9
	Kalaburagi and Vijayapura Districts	AGP City Gas Private Limited	19
	Mysuru, Mandya and Chamarajanagar Districts	AGP City Gas Private Limited	28
	Ramanagara District	Maharashtra Natural Gas Limited	17
	Tumkur District	Megha City Gas Distribution Private Limited	9
	Udupi District	Adani Total Gas Limited	10
	Uttara Kannada, Haveri and Shivamogga Districts	AGP City Gas Private Limited	25
Karnataka Total			401
Kerala	Alapuzha, Kollam and Thiruvananthapuram Districts	AGP City Gas Private Limited	44
	Ernakulam District	Indian-Oil Adani Gas Private Limited	18
	Idukki, Kottayam and Pattanamtitia districts	Sholagasco Private Limited	4
	Kozhikode & Wayanad Districts	Indian-Oil Adani Gas Private Limited	30
	Malappuram District	Indian-Oil Adani Gas Private Limited	27
Kerala Total			167

State/Union Territory	Geographical Area/CGD Networks	Authorized CGD Entity	CNG Stations
Kerala & Puducherry	Kannur, Kasaragod & Mahe Districts	Indian-Oil Adani Gas Private Limited	23
Kerala & Puducherry Total			23
Madhya Pradesh	Ashoknagar District	Indian Oil Corporation Limited	3
	Betul, Chhindwara, Seoni and Balaghat districts	Megha City Gas Distribution Private Limited	6
	Bhopal & Rajgarh Districts	Think Gas Bhopal Private Limited	37
	Burhanpur, Khandwa, Khargone and Harda districts	Adani Total Gas Limited	16
	Damoh, Jabalpur, Katni, Mandla, Umaria and Dindori districts	Megha City Gas Distribution Private Limited	6
	Dewas	GAIL Gas Limited	6
	Dhar District	Naveriya Gas Private Limited	4
	Guna District	Indian Oil Corporation Limited	5
	Gwalior	Aavantika Gas Limited	31
	Gwalior (EAAA) District and Sheopur District	Rajasthan State Gas Limited	4
	Hoshangabad, Narsinghpur, Sagar and Vidisha districts	Megha City Gas Distribution Private Limited	6
	Indore (including Ujjain City)	Aavantika Gas Limited	81
	Morena District	Indian Oil Corporation Limited	6
	Raisen, Shajapur and Sehore Districts	GAIL Gas Limited	28
	Rewa District	Indian Oil Corporation Limited	6
	Satna & Shandol Districts	Bharat Petroleum Corporation Limited	23
	Shivpuri District	Think Gas Bhopal Private Limited	6
	Sidhi and Singrauli Districts	Bharat Petroleum Corporation Limited	8
	Tikamgarh, Niwari, Chattarpur and Panna districts	Adani Total Gas Limited	7
	Ujjain (EAAA) District, Dewas (EAAA) District and Indore (EAAA) District	Gujarat Gas Limited	24
Madhya Pradesh Total			313
Madhya Pradesh and Chhattisgarh	Anuppur, Bilaspur and Korba Districts	Adani Total Gas Limited	9
Madhya Pradesh and Chhattisgarh Total			9
Madhya Pradesh and Rajasthan	Agar Malwa, Neemuch, Mandsaur and Jhalawar districts	Megha City Gas Distribution Private Limited	5
	Jhabua, Banswara, Ratlam and Dungarpur Districts	Gujarat Gas Limited	32
Madhya Pradesh and Rajasthan Total			37
Madhya Pradesh and Uttar Pradesh	Jhansi (EAAA) District, Bhind, Jalaun, Lalitpur and Datia Districts	Adani Total Gas Limited	20
Madhya Pradesh and Uttar Pradesh Total			20
Maharashtra	Ahmednagar & Aurangabad Districts	Bharat Petroleum Corporation Limited	107
	Akola, Hingoli and Washim districts	Adani Total Gas Limited	15
	Amravati and Yavatmal districts	Adani Total Gas Limited	17
	Beed, Jalgaon and Jalna districts	Indian Oil Corporation Limited	5
	Bhandara, Gondiya and Garchiroli districts	Adani Total Gas Limited	12
	Buldana, Nanded and Parbhani districts	Maharashtra Natural Gas Limited	22
	Chandrapur and Wardha districts	Megha City Gas Distribution Private Limited	6
	Kolhapur District	HPOIL Gas Private Limited	26
	Latur & Osmanabad Districts	Unison Enviro Private Limited	24
	Mumbai & Greater Mumbai	Mahanagar Gas Limited	149
	Nagpur district	HCG Nagpur Private Limited	10
	Palghar District & Thane Rural	Gujarat Gas Limited	37
	Pune City including Pimpri - Chichwad & adjoining contiguous areas Hinjewadi, Chakan, Talegaon	Maharashtra Natural Gas Limited	121
	Pune District (EAAA)	Torrent Gas Pune Limited	66
	Raigarh District (EAAA)	Mahanagar Gas Limited	49
	Ratnagiri District	Unison Enviro Private Limited	21

State/Union Territory	Geographical Area/CGD Networks	Authorized CGD Entity	CNG Stations
	Sangli & Satara Districts	Bharat Petroleum Corporation Limited	61
	Sindhudurg District	Maharashtra Natural Gas Limited	11
	Solapur District	IMC Limited	23
	Thane urban and adjoining Municipalities	Mahanagar Gas Limited	154
Maharashtra Total			936
Maharashtra & Gujarat	Valsad (EAAA), Dhule & Nashik Districts	Maharashtra Natural Gas Limited	74
Maharashtra & Gujarat Total			74
Maharashtra and Madhya Pradesh	Alirajpur, Nandurbar and Barwani districts	Adani Total Gas Limited	16
Maharashtra and Madhya Pradesh Total			16
National Capital Territory of Delhi (UT)	National Capital Territory of Delhi	Indraprastha Gas Limited	493
National Capital Territory of Delhi (UT) Total			493
Odisha	Angul & Dhekanal Districts	Bharat Petroleum Corporation Limited	12
	Balasore, Bhadrak & Mayurbhanj Districts	Adani Total Gas Limited	9
	Bargarh, Debagarh & Sambalpur Districts	Bharat Petroleum Corporation Limited	24
	Cuttack District	GAIL (India) Limited	13
	Ganjam, Nayagarh & Puri Districts	GAIL Gas Limited	9
	Jagatsinghpur & Kendrapara Districts	Bharat Petroleum Corporation Limited	5
	Jajpur & Kendujhar Districts	Bharat Petroleum Corporation Limited	17
	Khordha District	GAIL (India) Limited	15
	Koraput, Malkangiri, and Nabarangpur districts	Adani Total Gas Limited	3
	Rayagada, Kalahandi, Bolangir and Nuapada districts	Megha City Gas Distribution Private Limited	2
	Sundargarh & Jharsuguda Districts	GAIL Gas Limited	9
Odisha Total			118
Puducherry	Yanam	HCG Yanam Private Limited	8
	Puducherry District	East Coast Natural Gas Private Limited	2
Puducherry Total			10
Puducherry & Tamil Nadu	Karaikal & Nagapattinam Districts	Torrent Gas Private Limited	8
Puducherry & Tamil Nadu Total			8
Punjab	Amritsar District	Gujarat Gas Limited	17
	Bhatinda District	Gujarat Gas Limited	19
	Fatehgarh Sahib District	IRM Energy Private Limited	10
	Ferozepur, Faridkot and Sri Muktsar Sahib Districts	Gujarat Gas Limited	28
	Hoshiarpur and Gurdaspur Districts	Gujarat Gas Limited	40
	Jalandhar District (EAAA), Kapurthala & SBS Nagar Districts	Think Gas Ludhiana Private Limited	20
	Jalandhar*	Adani Total Gas Limited	5
	Ludhiana District (EAAA), Barnala & Moga Districts	Think Gas Ludhiana Private Limited	25
	Ludhiana*	Jay Madhok Energy Private Limited led Consortium	3
	Pathankot district	Indian Oil Corporation Limited	3
	Rupnagar District	Bharat Petroleum Corporation Limited	19
	SAS Nagar District (EAAA), Patiala & Sangrur Districts	Torrent Gas Private Limited	28
	Tarn Taran district	Megha City Gas Distribution Private Limited	6
Punjab Total			223
Punjab & Rajasthan	Fazilka (except area already authorized), Ganganagar and Hanumangarh districts	Bharat Petroleum Corporation Limited	20
Punjab & Rajasthan Total			20
	Ajmer, Pali and Rajsamand Districts	Indraprastha Gas Limited	69
	Alwar (Other than Bhiwadi) & Jaipur Districts	Torrent Gas Jaipur Private Limited	57

State/Union Territory	Geographical Area/CGD Networks	Authorized CGD Entity	CNG Stations
Rajasthan	Barmer, Jaisalmer & Jodhpur Districts	AGP CGD India Private Limited	41
	Bhilwara & Bundi Districts	Adani Total Gas Limited	19
	Bhiwadi (in Alwar District)	Haryana City Gas Distribution (Bhiwadi) Limited	5
	Bikaner and Churu districts	Gasonet Services (RJ) Limited	9
	Chittorgarh (Other than Rawatbhata Taluka) & Udaipur Districts	Adani Total Gas Limited	38
	Dausa, Karauli, Sawai Madhopur and Tonk districts	Hindustan Petroleum Corporation Limited	17
	Dholpur District	Dholpur CGD Private Limited	8
	Jalore and Sirohi Districts	Gujarat Gas Limited	31
	Jhunjhunu, Sikar and Nagaur districts	Indian Oil Corporation Limited	16
	Kota	Rajasthan State Gas Limited	10
	Kota District (EAAA), Baran & Chittorgarh (Only Rawatbhata Taluka) Districts	Torrent Gas Private Limited	17
Rajasthan Total			337
Tamil Nadu	Ariyalur and Perambalur districts	Megha City Gas Distribution Private Limited	2
	Chennai & Tiruvallur Districts	Torrent Gas Chennai Private Limited	67
	Coimbatore District	Indian Oil Corporation Limited	33
	Cuddalore, Nagapattinam & Tiruvarur Districts	Adani Total Gas Limited	23
	Dharmapuri and Krishnagiri districts	Indian Oil Corporation Limited	10
	Dindigul and Karur districts	Megha City Gas Distribution Private Limited	3
	Kanchipuram District	AGP CGD India Private Limited	42
	Kanyakumari, Thoothukudi, Tirunelveli Kattabo and Tenkasi districts	Indian Oil Corporation Limited	12
	Madurai, Theni and Virudhnagar districts	Indian Oil Corporation Limited	14
	Namakkal and Tiruchirapalli districts	IRM Energy Private Limited	23
	Pudukottai, Sivaganga and Thanjavur districts	Megha City Gas Distribution Private Limited	4
	Ramanathapuram District	AGP CGD India Private Limited	7
	Salem District	Indian Oil Corporation Limited	19
	The Nilgiris and Erode districts	Bharat Petroleum Corporation Limited	30
	Tiruppur District	Adani Total Gas Limited	34
	Tiruvannamalai, Villupuram and Kallakurichi districts	Megha City Gas Distribution Private Limited	4
Tamil Nadu Total			327
Telangana	Bhadradi Kothagudem & Khamman Districts	Megha City Gas Distribution Private Limited	10
	Hyderabad	Bhagyanagar Gas Limited	90
	Jagtial, Peddapalli, Karimnagar & Rajanna Sircilla Districts	Indian Oil Corporation Limited	7
	Jangaon, Jayashankar Bhupalpally, Mahabubabad, Warangal Urban & Warangal Rural Districts	Megha City Gas Distribution Private Limited	8
	Medak, Siddipet & Sangareddy Districts	Torrent Gas Private Limited	17
	Medchal-Malkajgiri, Ranga Reddy & Vikarabad Districts	Megha City Gas Distribution Private Limited	26
	Nalgonda Suryapet & Yadadri Bhuvanagiri Districts	Megha City Gas Distribution Private Limited	19
	Nizamabad, Adilabad, Nirmal, Mancherla Kumuram Bheem Asifabad and Kamareddy districts	Maharashtra Natural Gas Limited	18
Telangana Total			195
Telangana and Karnataka	Jogulamba Gadwal, Nagarkurnool, Mahabubnagar, Narayanpet, Wanaparthy and Yadgir districts	Megha City Gas Distribution Private Limited	11
Telangana and Karnataka Total			11

State/Union Territory	Geographical Area/CGD Networks	Authorized CGD Entity	CNG Stations
Tripura	Agartala	Tripura Natural Gas Company Limited	6
	Gomati District	Tripura Natural Gas Company Limited	8
	West Tripura (EAAA) District	Tripura Natural Gas Company Limited	6
Tripura Total			20
UT of Jammu and Kashmir	Jammu, Udhampur, Reasi, Samba and Kathua districts	Indian Oil Corporation Limited	2
UT of Jammu and Kashmir Total			2
Uttar Pradesh	Agra	Green Gas Limited	31
	Allahabad	Indian-Oil Adani Gas Private Limited	9
	Allahabad District (EAAA), Bhadohi & Kaushambi Districts	Indian-Oil Adani Gas Private Limited	18
	Amethi, Pratapgarh & Raebareli Districts	Bharat Petroleum Corporation Limited	33
	Amroha (except area already authorized) & Sambhal (except area already authorized) districts	Megha City Gas Distribution Private Limited	6
	Auraiya, Kanpur Dehat & Etawah Districts	Torrent Gas Private Limited	35
	Azamgarh, Mau and Ballia Districts	Torrent Gas Private Limited	26
	Bagpat District	Bagpat Green Energy Private Limited	13
	Banda, Chitrakoot and Mahoba	Indraprastha Gas Limited	16
	Bareilly	Central UP Gas Limited	21
	Bareilly (EAAA) District, Pilibhit and Rampur Districts	Hindustan Petroleum Corporation Limited	56
	Basti and Ambedkarnagar Districts	Torrent Gas Private Limited	15
	Bulandshahr (part) District	Indian-Oil Adani Gas Private Limited	20
	Bulandshahr District (EAAA), Aligarh & Hathras Districts	Indian-Oil Adani Gas Private Limited	25
	Faizabad & Sultanpur Districts	Green Gas Limited	9
	Farrukhabad, Etah and Hardoi Districts	Hindustan Petroleum Corporation Limited	51
	Ghaziabad & Hapur Districts	Indraprastha Gas Limited	76
	Gonda and Barabanki Districts	Torrent Gas Private Limited	25
	Gorakhpur, Sant Kabir Nagar & Kushinagar Districts	Torrent Gas Private Limited	28
	Jaunpur and Ghazipur Districts	Indian-Oil Adani Gas Private Limited	16
	Jhansi	Central UP Gas Limited	9
	Kanpur	Central UP Gas Limited	56
	Kanpur (EAAA) District, Fatehpur and Hamirpur Districts	Indraprastha Gas Limited	27
	Kasganj district	Megha City Gas Distribution Private Limited	4
	Khurja	Adani Total Gas Limited	10
	Lakhimpur Kheri, Sitapur, Bahraich, Shrawasti, Balrampur, Siddharth Nagar & Maharajganj districts	Bharat Petroleum Corporation Limited	55
	Lucknow	Green Gas Limited	45
	Mainpuri and Kannauj Districts	Hindustan Petroleum Corporation Limited	32
	Mathura	Torrent Gas Private Limited	13
	Meerut	GAIL Gas Limited	21
	Meerut District (EAAA), Muzaffarnagar & Shamli Districts	Indraprastha Gas Limited	35
	Mirzapur, Chandauli and Sonbhadra Districts	GAIL Gas Limited	22
	Moradabad	Torrent Gas Private Limited	8
	Moradabad (EAAA) District	Torrent Gas Private Limited	19
	Noida (including Greater Noida)	Indraprastha Gas Limited	70
	Saharanpur District	Bharat Petroleum Corporation Limited	16
	Shahjahanpur and Budaun Districts	Hindustan Petroleum Corporation Limited	43

State/Union Territory	Geographical Area/CGD Networks	Authorized CGD Entity	CNG Stations
	Unnao (EAAA) District	Green Gas Limited	2
	Varanasi District	GAIL (India) Limited	29
Uttar Pradesh Total			1045
Uttar Pradesh & Rajasthan	Firozabad (Taj Trapezium Zone)	GAIL Gas Limited	47
Uttar Pradesh & Rajasthan Total			47
Uttar Pradesh and Uttrakhand	Bijnor and Nainital Districts	Hindustan Petroleum Corporation Limited	31
Uttar Pradesh and Uttrakhand Total			31
Uttarakhand	Dehradun District	GAIL Gas Limited	14
	Haridwar District	Haridwar Natural Gas Limited	9
	Pauri Garhwal, Uttarkashi, Rudraprayag and Tehri Garhwal districts	Gasonet Services (UK) Limited	1
	Pithoragarh, Champawat, Almora, Chamoli and Bageshwar districts	Gasonet Services (UK) Limited	1
	Udham Singh Nagar District	Indian-Oil Adani Gas Private Limited	12
Uttarakhand Total			37
West Bengal	Alipurduar and Koch Bihar	Bharat Petroleum Corporation Limited	5
	Birbhum, Murshidabad, Maldah & Dakshin Dinajpur districts	Hindustan Petroleum Corporation Limited	5
	Burdwan District	Indian-Oil Adani Gas Private Limited	23
	Darjeeling, Jalpaiguri and Uttar Dinajpur Districts	Hindustan Petroleum Corporation Limited	11
	East Mednipore, West Mednipore and Jhargram districts	Indian Oil Corporation Limited	2
	Howrah (EAAA) District and Hoogly (EAAA) District	Hindustan Petroleum Corporation Limited	19
	Kolkata Municipal Corporation and Parts of Adjoining Districts	Bengal Gas Company Limited	24
	Nadia (EAAA) District and North 24 Parganas (EAAA) District	Hindustan Petroleum Corporation Limited	22
	Purulia and Bankura districts	Bharat Petroleum Corporation Limited	21
	South 24 Parganas (EAAA) District	Hindustan Petroleum Corporation Limited	11
West Bengal Total			143
Grand Total			7259
Add increase in Chapter highlights.			

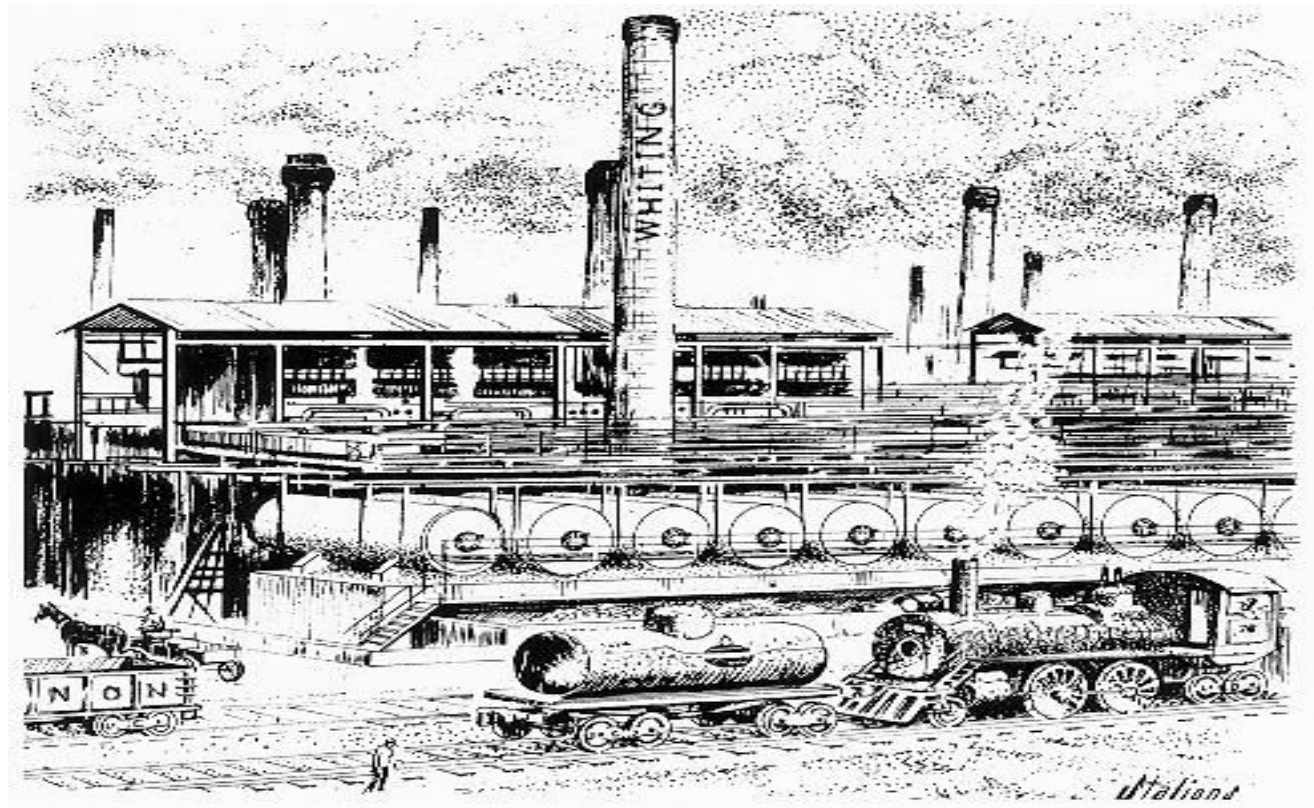


Table 3.9 : LNG Terminals (Operational)					
Location	Promoters	Capacity as on 01.10.2024 (In MMTPA)	% Capacity utilisation (Apr-Sept'2024 (P))		
Dahej	Petronet LNG Ltd (PLL)	17.5	103.86		
Hazira	Shell Energy India Pvt. Ltd.	5.2	48.7		
Dabhol*	Konkan LNG Limited	5	30.9		
Kochi	Petronet LNG Ltd (PLL)	5	21.76		
Ennore	Indian Oil LNG Pvt Ltd	5	23.7		
Mundra	GSPC LNG Limited	5	27		
Dhamra	Adani Total Private Limited	5	30.3		
Total Capacity		47.7			
* Only HP stream of capacity of 2.9 MMTPA is commissioned. Source LNG terminal operating entities					
Table 3.10 : Import of Liquefied Natural Gas (LNG)					
LNG import quantity/value					
Financial Year	MMT	MMSCM	MMBtu	Value (Mn. USD)	USD / MMBtu
2017-18	20.7	27,439	1,08,88,47,280	8,051	7.4
2018-19	21.7	28,740	1,14,04,94,327	10,253	9.0
2019-20	25.6	33,886	1,34,46,84,149	9,489	7.1
2020-21	25.1	33,198	1,31,73,69,257	7,881	6.0
2021-22	23.4	31,028	1,23,12,52,501	13,472	10.9
2022-23	19.9	26,304	1,04,38,25,872	17,114	16.4
2023-24 (P)	24.0	31,795	1,24,65,77,334	13,405	10.8
Apr-Sept'2023	11.6	15,416	60,44,06,806	6,486	10.7
Apr-Sept'2024 (P)	14.3	18,915	74,16,07,264	7,613	10.3
Source: P: provisional; LNG importing companies & DGCIS. Import data may have some variations with DGCIS data on Conversion of MMSCM to MMBtu is based on approximation of 1 Million BTU (MMBTU) = 25.2 SCM. (@10000 Kcal/SCM; 1 MMBtu = 252000 Kcal)					



Table 3.11 : Domestic natural gas price and gas price ceiling

Period	Domestic natural gas price in US\$/MMBTU (GCV basis)*	Gas price ceiling (HPHT)in US\$/MMBTU (GCV basis)**
November 2014 - March 2015	5.05	
April 2015 - September 2015	4.66	
October 2015 - March 2016	3.82	
April 2016 - September 2016	3.06	6.61
October 2016 - March 2017	2.5	5.3
April 2017 - September 2017	2.48	5.56
October 2017 - March 2018	2.89	6.3
April 2018 - September 2018	3.06	6.78
October 2018 - March 2019	3.36	7.67
April 2019 - September 2019	3.69	9.32
October 2019 - March 2020	3.23	8.43
April 2020 - September 2020	2.39	5.61
October 2020 - March 2021	1.79	4.06
April 2021 - September 2021	1.79	3.62
October 2021 - March 2022	2.9	6.13
April 2022 - September 2022	6.1	9.92
October 2022 - March 2023	8.57	12.46
1 April 2023 - 7 April 2023	9.16	12.12

Period	Domestic Gas calculated price in US\$/MMBTU	Domestic Gas ceiling price for ONGC/OIL in US\$/MMBTU	Period	HP-HT Gas price ceiling in US\$/MMBTU
8 April 2023 - 30 April 2023	7.92	6.5	April 2023 - September 2023	12.12
1 May 2023 - 31 May 2023	8.27			
1 June 2023 - 30 June 2023	7.58			
1 July 2023 - 31 July 2023	7.48			
1 August 2023 -31 August 2023	7.85			
1 September 2023 - 30 September 2023	8.60			
1 October 2023 -31 October 2023	9.20		October 2023 - March 2024	9.96
1 Nov 2023 - 30 Nov 2023	9.12			
1 Dec 2023 - 31 Dec 2023	8.47			
1 Jan 2024 - 31 Jan 2024	7.82			
1 Feb 2024- 29 Feb 2024	7.85			
1 Mar 2024- 31 Mar 2024	8.17			
1 April 2024 - 30 April 2024	8.38		April 2024 - September 2024	9.87
1 May 2024 - 31 May 2024	8.90			
1 June 2024 - 30 June 2024	8.44			
1 July 2024 - 31 July 2024	8.24			
1 August 2024 -31 August 2024	8.51			
1 September 2024 - 30 September 2024	7.85			
1 October 2024 -31 October 2024	7.48		October 2024- March	10.16

Note:

* As per the "New Domestic Natural Gas Pricing Guidelines, 2014" issued by Ministry of Petroleum & Natural Gas dated October 25, 2014. Natural Gas prices are on GCV basis

** As per the notification issued by Ministry of Petroleum and Natural Gas dated 21.03.2016 on marketing including pricing freedom for the gas to be produced from discoveries in Deepwater, Ultra Deepwater and High Pressure-High Temperature areas.

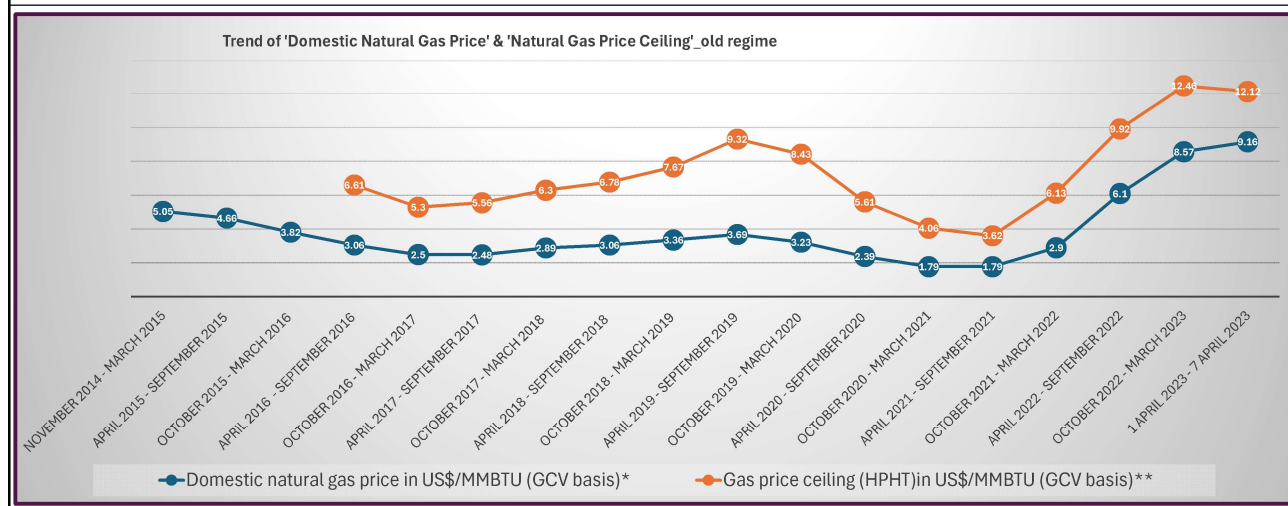


Table 3.12 Statewise CGD Sale Profile* (in SCMD) base period: April 2024- September 2024					
State/Union Territory	CNG	Domestic (PNG)	Commercial (PNG)	Industrial (PNG)	Total
Andhra Pradesh*	174555	38385	9514	56902	279355
Andhra Pradesh, Karnataka and Tamil Nadu	36868	1513	410	96570	135361
Assam	9411	37697	20345	639794	707246
Bihar	322032	16046	2987	4189	345253
Bihar & Jharkhand	7357	761	74	0	8192
Bihar & Uttar Pradesh	13521	0	0	0	13521
Chandigarh, Haryana, Punjab & Himachal Pradesh	162066	10324	7068	30166	209625
Chhattisgarh	493	0	0	0	493
Dadra & Nagar Haveli**	19446	3380	942	119809	143578
Daman and Diu	11297	1377	1566	23126	37366
Delhi NCT***	4640398	408329	152122	168421	5369270
Goa	19158	2534	1090	69423	92205
Gujarat **	4888163	1115279	214299	6561947	12779689
Gujarat & UT of Daman and Diu	33143	3781	683	0	37608
Haryana	2148781	99613	49508	883948	3181850
Haryana & Himachal Pradesh	6502	4	0	0	6506
Haryana & Punjab	35022	390	0	0	35413
Himachal Pradesh	3972	1424	1154	229	6780
Jharkhand	77264	5378	1160	3739	87542
Karnataka	669057	63658	27351	394045	1154111
Kerala	210641	9843	2974	28388	251845
Kerala & Puducherry	22403	441	0	0	22844
Madhya Pradesh	460442	59763	13510	198448	732162
Madhya Pradesh & Rajasthan	45684	345	0	0	46029
Madhya Pradesh and Chhattisgarh	535	0	0	0	535
Maharashtra	4749309	645993	163584	1008874	6567760
Maharashtra & Gujarat	108589	3654	968	23577	136788
Maharashtra and Madhya Pradesh	16459	0	0	0	16459
Odisha	59581	6366	886	2222	69055
Puducherry (UT) & Tamil Nadu	3345	130	10	0	3485
Puducherry (UT)	2200	0	0	0	2200
Punjab	284709	26354	15497	335155	661714
Punjab & Rajasthan	7266	0	0	0	7266
Rajasthan	643543	21362	5228	259100	929232
Tamil Nadu	393420	1888	2609	39748	437666
Telangana*	325361	57123	3060	133263	518808
Telangana & Karnataka	9163	56	0	15341	24560
Tripura	104153	49245	11330	16507	181235
UT of Jammu and Kashmir	990	0	0	0	990
Uttar Pradesh	3416747	423758	91573	716319	4648396
Uttar Pradesh & Uttarakhand	28972	13	0	0	28985
Uttar Pradesh & Madhya Pradesh	39349	0	0	4836	44185
Uttar Pradesh & Rajasthan	168596	4434	2753	1212264	1388048
Uttarakhand	100615	12771	2318	93305	209009
West Bengal	63651	737	106	3829	68323
Total	24544228	3134150	806680	13143483	41628540

* Inputs based on the information submitted by CGD entities - subject to revisions, if any.
Categorizations of data under Commercial and Industrial sectors- as per the respective policies of individual CGD entities

Table 3.12 A: CGD Sales Data* (in SCMD) - Six Months

Period	CNG	Domestic (PNG)	Commercial (PNG)	Industrial (PNG)	Total
October-2020 to March 2021	12864911	2621058	922209	16507543	32915721
April-2021 to September 2021	13238071	2456140	489067	14206677	30389956
October 2021 to March 2022	17253563	2801726	678335	13870178	34603802
April-2022 to September 2022	18938879	2570973	671072	12112714	34293638
October-2022 to March 2023	19423450	2908893	690704	10272961	33296008
April-2023 to September 2023	20653851	2652456	665809	11370755	35342871
October-2023 to March 2024	22435095	3183788	823008	12117972	38559863
April-2024 to September 2024	24544228	3134150	806680	13143483	41628540

* Inputs based on the information submitted by CGD entities - subject to revisions, if any.

Categorizations of data under Commercial and Industrial sectors- as per the respective policies of individual CGD entities

Sales of SCMD (SCM per day) calculated based on sale period

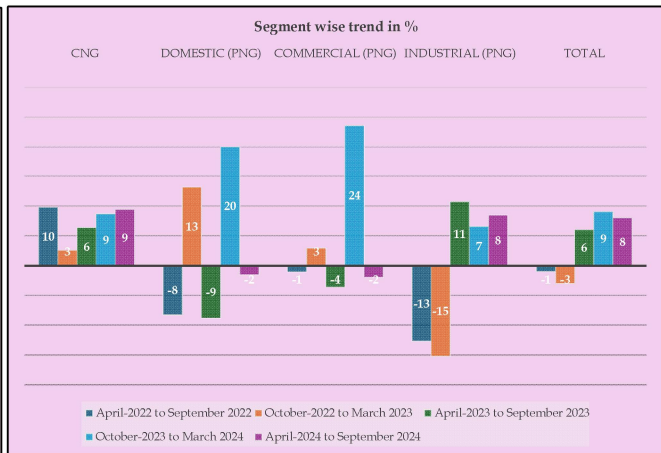
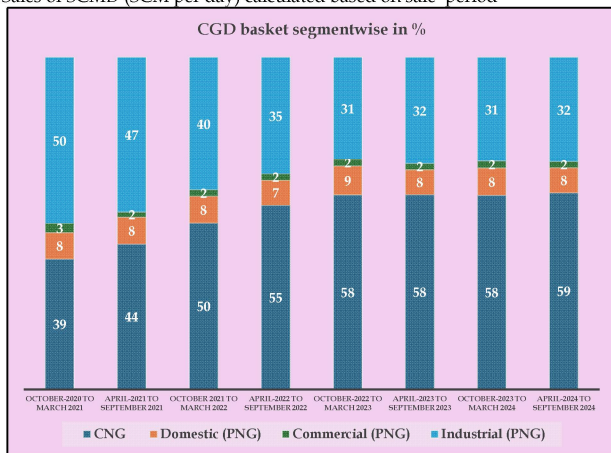
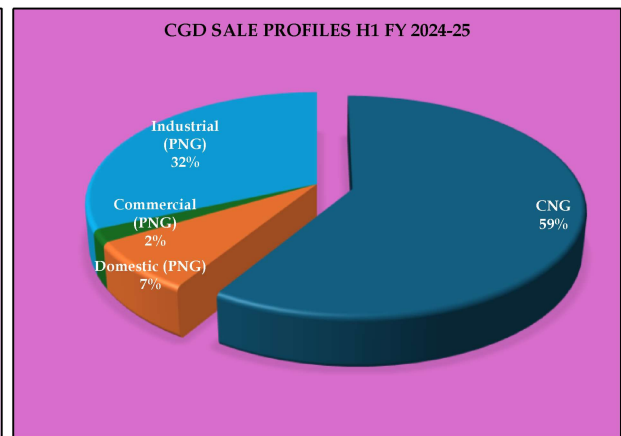
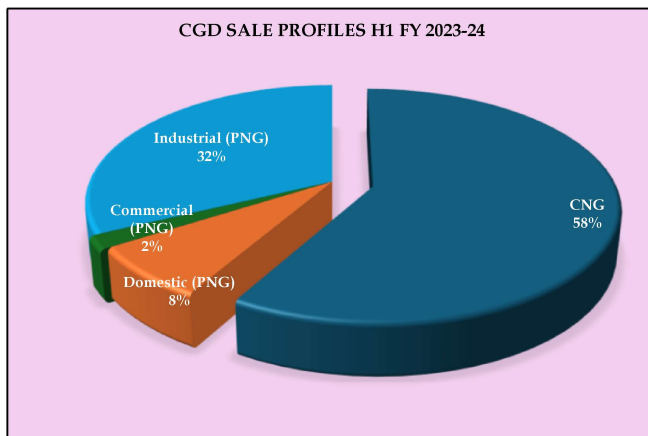
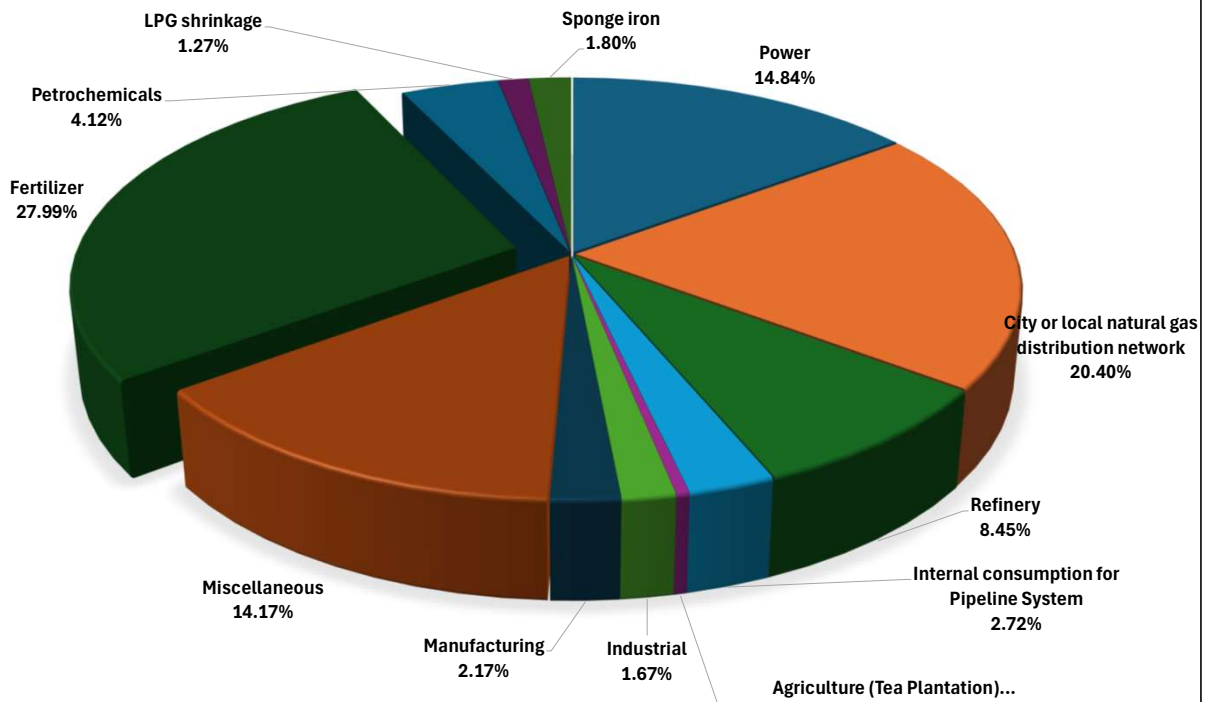


Table 3.12 B: Basket Trends- CGD Sale Profile* (in MMSCM) - Annual

Period	CNG	Domestic (PNG)	Commercial (PNG)	Industrial (PNG)	Total	Total (in MMSCMD)
FY 2021-22	5563	959	213	5124	11859	32
FY 2022-23	7001	1000	249	4086	12336	34
FY 2023-24 (P)	7885	1068	272	4298	13524	37

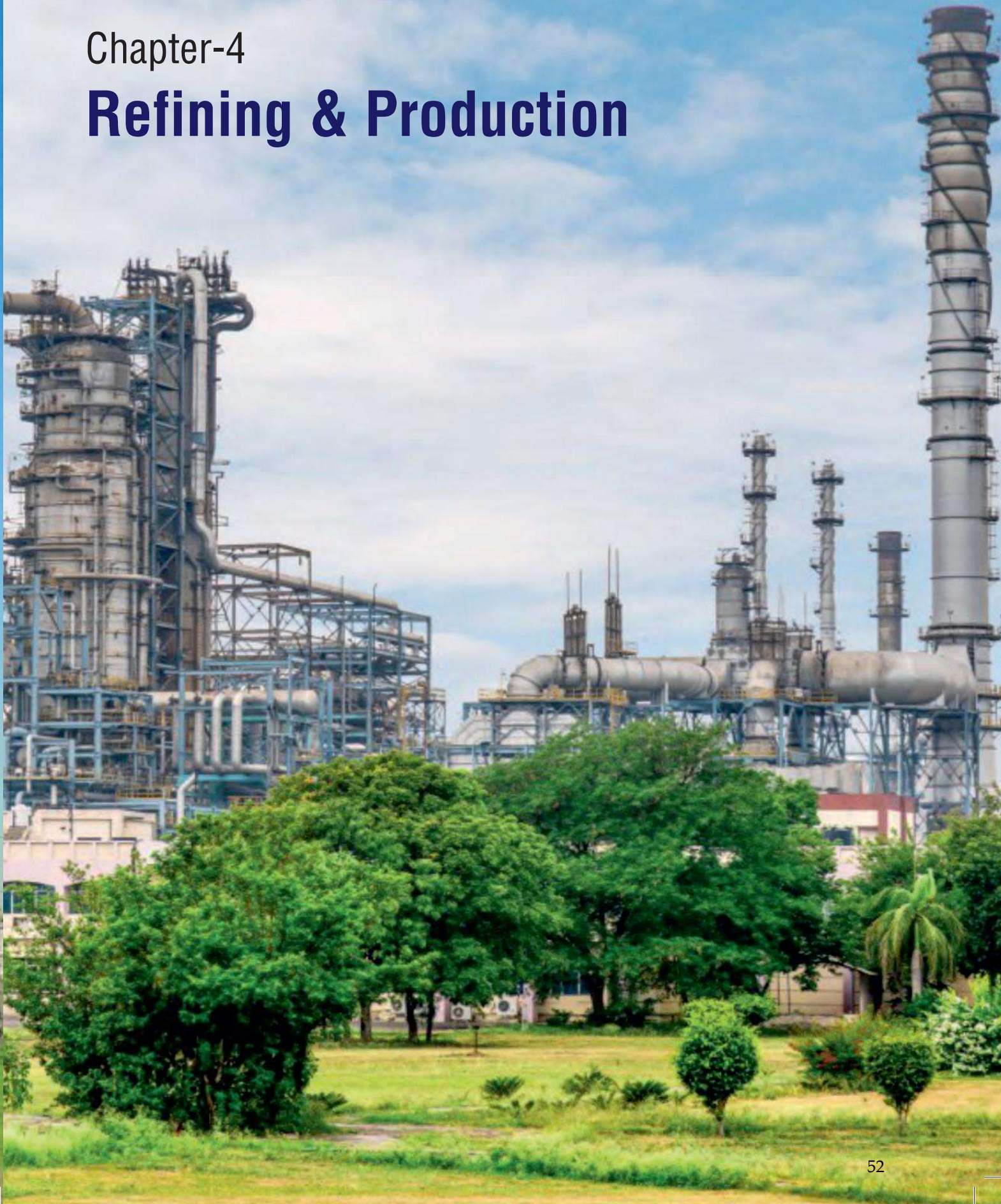


Sectoral Consumption of Natural gas (in %) April 2024- September 2024



Chapter-4

Refining & Production



Chapter Highlights

Refining & Production

As per April 2024 the Nameplate Refining Capacity of India is 256.8. India stands as the second-largest refiner in Asia and the fourth largest globally. The country is equipped with 22 operational refineries, with private companies holding approximately 34.3% of the total refining capacity.

Cauvery Basin Refinery (CBR) – Nagapattinam is under capacity augmentation from 1 MMTPA to 9 MMTPA. The construction of HPCL Rajasthan Refinery Ltd. (HRRL), a joint venture between Hindustan Petroleum Corporation Limited (HPCL) and the Government of Rajasthan (GoR), is underway. The equity participation in the venture is 74% by HPCL and 26% by the Government of Rajasthan, and it has a capacity of 9.0 million metric tons per annum (MMTPA). Numaligarh Refinery is under capacity augmentation from 3 MMTPA to 9 MMTPA.

The crude Oil processing during the first Half of Financial Year 2024-25 was 132.1 MMT, during this period the average capacity utilization was 102.9 %, which is almost at par with the capacity utilization of 103.0% during FY 2023-24.

The total production of Petroleum products was 139.9 MMT out of which 138.1 MMT was produced from the processing of Crude Oil and Other Inputs in the Refineries. The Share of Lighter Distillates like LPG, Naphtha, MS etc was 35.0% out of the Total Production from refineries. Share of Middle Distillate like SKO, ATF, HSD etc was 51.6% and Heavy Ends like Petcoke, FO, LSHS, Bitumin etc was 13.4 % of the total production from refineries. Among the Total domestic production of petroleum products the share of HSD was 43.1 % followed by MS 16.6%, Naphtha 6.7%, ATF 6.3%,Petcoke 5.3% and LPG 4.5%.

Export & Import

Crude Import

The crude oil imports during FY 2024-25 H1 registered a 3.2% increase compared to the previous year, aligning with the concurrent rise in the consumption of petroleum products.

Product Exports

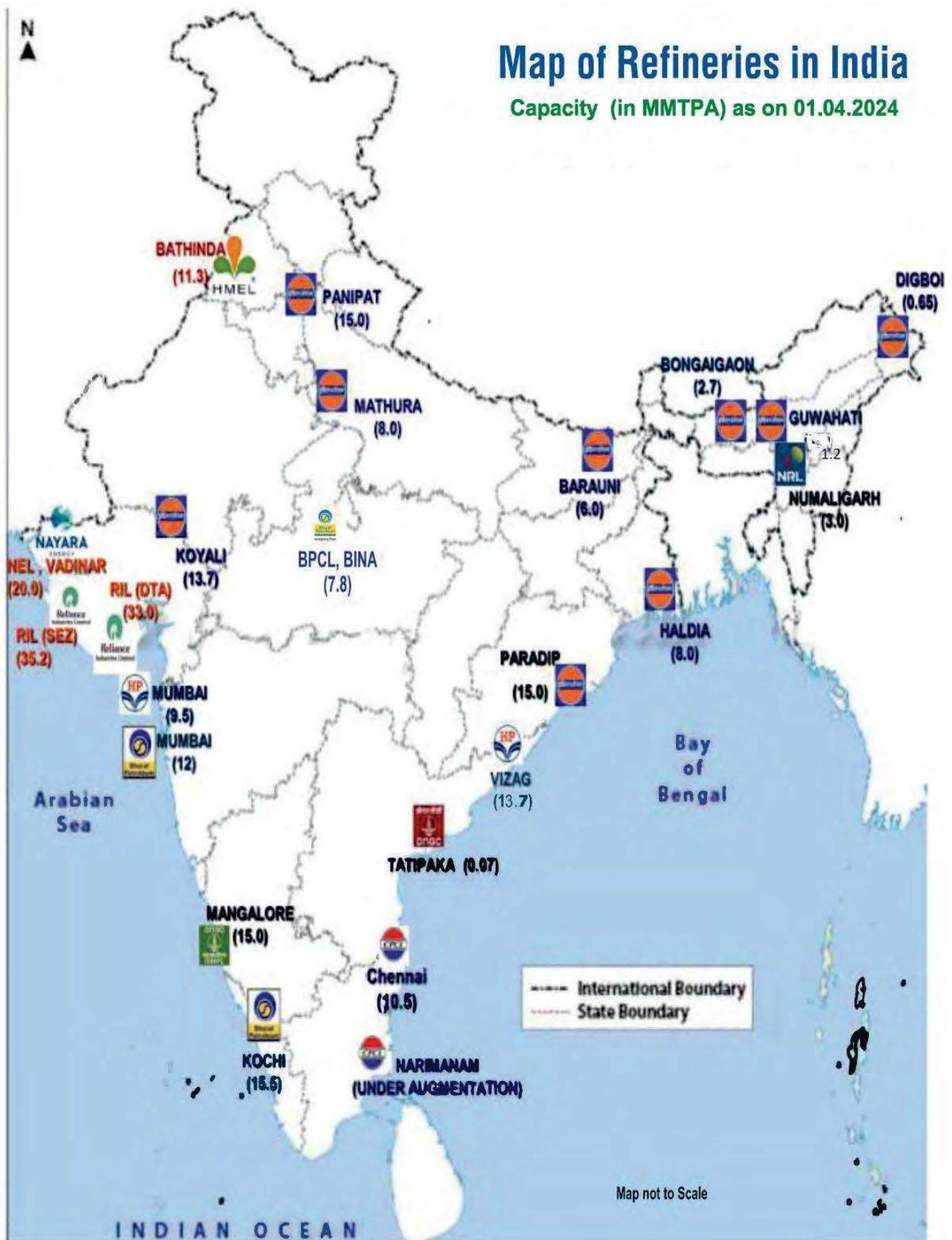
During FY 2024-25 H1, the exports of Petroleum, Oil, and Lubricants (POL) products saw an increase of 3.0% compared to the previous year. The rise in POL product exports in FY 2024-25 H1 was primarily attributed due to an increase in the export of petcoke/CBFS and fuel oil (FO). In value terms, exports during FY 2024-25 H1 dropped from 23.7 billion US dollars to 22.1 billion US dollars, marking a 6.6% decrease compared to FY 2023-24 H1. High-speed diesel (HSD), motor spirit (MS), and aviation turbine fuel (ATF) emerged as the top three products in the export basket of petroleum products during FY 2024-25 H1, with shares of 40.9%, 22.7%, and 14.1%, respectively.

Product Imports

During FY 2024-25 H1, imports of petroleum products experienced a notable increase of 10.4% compared to the previous year. The rise in imports during this period was primarily driven by an increase in the import of liquified petroleum gas (LPG), petcoke and lubes/LOBS etc. Within the import basket of petroleum products in FY 2024-25 H1, Liquefied Petroleum Gas (LPG) held the highest share at 38.1%, followed by petcoke at 25.2%, and fuel oil at 16.3%.

Map of Refineries in India

Capacity (in MMTPA) as on 01.04.2024



Simplified block flow diagram of a typical refinery

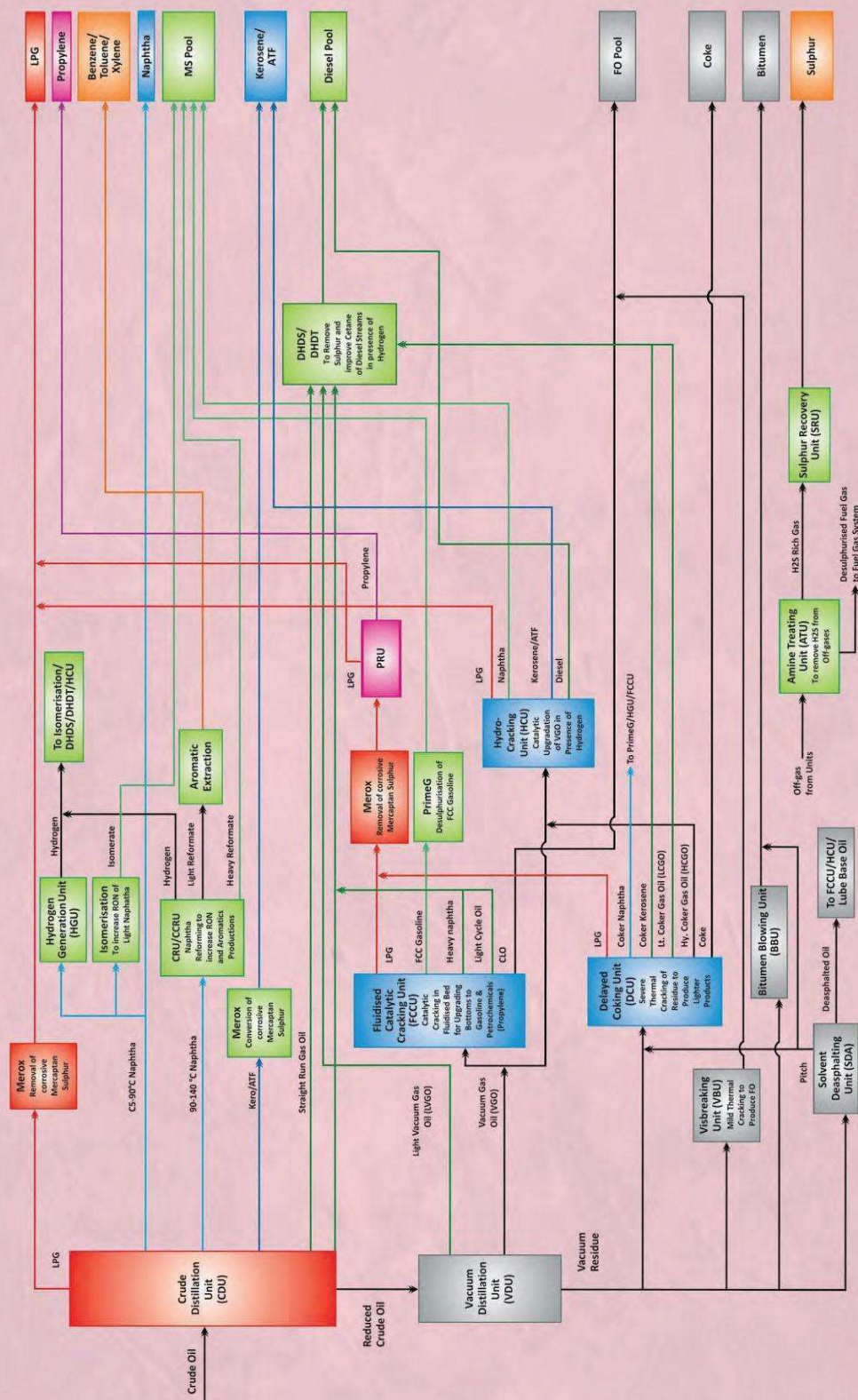


Table 4.1 : Refineries: Installed Capacity and Crude Oil Processing

Sr. No.	Refinery	Installed capacity (MMTPA)		Crude oil processing (MMT)						
		01.04.2023	01.04.2024	2019-20	2020-21	2021-22	2022-23	2023-24 (P)	Apr-Sep 2023-24 (P)	Apr-Sep 2024-25 (P)
1	Barauni	6.0	6.0	6.5	5.5	5.6	6.8	6.6	3.3	3.3
2	Koyali	13.7	13.7	13.1	11.6	13.5	15.6	15.2	7.5	7.9
3	Haldia	8.0	8.0	6.5	6.8	7.3	8.5	8.1	3.8	3.0
4	Mathura	8.0	8.0	8.9	8.9	9.1	9.6	9.2	4.3	4.4
5	Panipat	15.0	15.0	15.0	13.2	14.8	13.8	14.3	7.4	7.5
6	Guwahati	1.0	1.2	0.9	0.8	0.7	1.1	1.0	0.6	0.6
7	Digboi	0.65	0.65	0.7	0.6	0.7	0.7	0.7	0.3	0.4
8	Bongaigaon	2.70	2.7	2.0	2.5	2.6	2.8	3.0	1.5	1.3
9	Paradip	15.0	15.0	15.8	12.5	13.2	13.6	15.2	7.8	6.5
	IOCL total	70.1	70.3	69.4	62.4	67.7	72.4	73.3	36.5	34.9
10	Mumbai	9.5	9.5	8.1	7.4	5.6	9.8	9.6	5.0	4.7
11	Visakh	11.0	13.7	9.1	9.1	8.4	9.3	12.7	6.2	7.4
12	HMEL-Bathinda	11.3	11.3	12.2	10.1	13.0	12.7	12.6	6.5	6.5
	HPCL total	31.8	34.5	29.4	26.5	27.0	31.8	35.0	17.7	18.6
13	Mumbai	12.0	12.0	15.0	12.9	14.4	14.5	15.1	8.1	7.8
14	Kochi	15.5	15.5	16.5	13.3	15.4	16.0	17.3	8.4	8.6
15	BORL-Bina	7.8	7.8	7.9	6.2	7.4	7.8	7.1	3.0	3.7
	BPCL total	35.3	35.3	39.4	32.4	37.2	38.4	39.5	19.5	20.2
16	Manali	10.5	10.5	10.2	8.2	9.0	11.3	11.6	5.7	4.9
17	CBR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CPCL total	10.5	10.5	10.2	8.2	9.0	11.3	11.6	5.7	4.9
18	Numaligarh	3.0	3.0	2.4	2.7	2.6	3.1	2.5	0.8	1.4
19	Tatipaka	0.07	0.07	0.09	0.08	0.08	0.07	0.07	0.03	0.03
20	MRPL-Mangalore	15.0	15.0	14.0	11.5	14.9	17.1	16.5	7.6	8.8
	ONGC total	15.1	15.1	14.0	11.6	14.9	17.2	16.6	7.6	8.9
21	RIL-Jamnagar (DTA)	33.0	33.0	33.0	34.1	34.8	34.4	34.4	17.2	17.5
22	RIL-Jamnagar (SEZ)	35.2	35.2	35.9	26.8	28.3	27.9	28.3	14.6	15.5
23	NEL-Vadinar	20.0	20.0	20.6	17.1	20.2	18.7	20.3	10.1	10.2
	All India	253.9	256.8	254.4	221.8	241.7	255.2	261.5	129.8	132.1

Source: Oil companies

(P): Provisional

Table 4.2 : High Sulphur (HS) & Low Sulphur (LS) crude oil processing

(MMT)									
Sr. No.	Type of crude	2019-20	2020-21	2021-22	2022-23	2023-24 (P)	Apr-Sep 2023-24 (P)	Apr-Sep 2024-25 (P)	
1	HS crude	192.4	161.4	185.0	197.9	205.3	100.1	103.2	
2	LS crude	62.0	60.3	56.7	57.4	56.2	29.7	28.9	
	Total crude	254.4	221.8	241.7	255.2	261.5	129.8	132.1	
	Share of HS crude in total crude processing	75.6%	72.8%	76.6%	77.5%	78.5%	77.1%	78.1%	

Source: Oil companies, (P): Provisional

Table 4.3 : Imported crude & Indigenous crude oil processing

(MMT)								
Sr. No.	Indigenous/ Imported crude	2019-20	2020-21	2021-22	2022-23	2023-24 (P)	Apr-Sep 2023-24 (P)	Apr-Sep 2024-25 (P)
1	Imported crude	225.1	193.8	214.7	228.8	234.7	116.5	118.9
2	Indigenous crude	29.3	28.0	27.0	26.5	26.8	13.3	13.2
	Total crude	254.4	221.8	241.7	255.2	261.5	129.8	132.1
	Share of imported crude in total crude processing	88.5%	87.4%	88.8%	89.6%	89.7%	89.7%	90.0%

Source: Oil companies, (P): Provisional

Table 4.4 : Domestic Production of Petroleum Products														
(MMT)														
	2019-20		2020-21		2021-22		2022-23		2023-24 (P)		Apr-Sep 2023-24 (P)		Apr-Sep 2024-25 (P)	
A) From crude oil/refineries														
Light ends	87.4		83.0		89.3		89.6		92.5		46.3		48.4	
of which: LPG	10.9		10.2		10.6		11.2		11.1		5.5		5.5	
MS	38.6		35.8		40.2		42.8		45.1		22.4		23.3	
Naphtha	19.4		18.4		19.0		16.1		17.3		8.4		8.9	
Others	18.5		18.6		19.5		19.5		19.0		10.0		10.7	
Middle distillates	135.5		115.4		125.4		136.6		142.1		69.9		71.2	
of which: SKO	3.2		2.4		1.9		0.9		1.0		0.5		0.5	
ATF	15.2		7.1		10.3		15.0		17.1		8.3		8.8	
HSD	111.1		100.4		107.1		113.7		115.9		57.2		57.5	
LDO	0.6		0.7		0.8		0.6		0.7		0.3		0.3	
Others	5.5		4.8		5.3		6.3		7.5		3.5		4.1	
Heavy ends	35.3		30.9		35.5		36.8		38.0		18.6		18.5	
of which: Furnace Oil	8.9		7.1		8.5		9.6		9.7		5.5		5.5	
LSHS	0.4		0.4		0.4		0.7		0.7		0.4		0.3	
Lube Oil	0.9		1.1		1.2		1.4		1.4		0.7		0.6	
Bitumen	4.9		4.9		5.1		4.9		5.2		2.3		2.3	
RPC/Petcoke	14.6		12.0		15.5		15.4		15.1		7.5		7.4	
Others	5.5		5.5		4.8		4.8		5.9		2.2		2.4	
Sub total (A)	258.2		229.3		250.3		263.0		272.6		134.8		138.1	
B) From natural gas/fractionators														
Sub total (B)	4.8		4.2		4.1		3.5		3.5		1.7		1.8	
of which: LPG	2.0		1.9		1.6		1.6		1.7		0.8		0.8	
Naphtha	1.2		1.0		1.0		1.0		1.0		0.5		0.5	
SKO	0.05		0.03		0.02		0.00		0.01		0.00		0.00	
ATF	0.03		0.02		0.03		0.05		0.04		0.02		0.02	
HSD	0.06		0.06		0.05		0.1		0.1		0.0		0.0	
Others	1.5		1.3		1.3		0.8		0.7		0.4		0.5	
Total production (A+B)	262.9		233.5		254.3		266.5		276.1		136.6		139.9	
Source: Oil companies														
(P): Provisional														

Table 4.5 : Production of Petroleum Products : All sources														
(MMT)														
Major products	2019-20		2020-21		2021-22		2022-23		2023-24 (P)		Apr-Sep 2023-24 (P)		Apr-Sep 2024-25 (P)	
	Qunatity	Percentage	Qunatity	Percentage	Qunatity	Percentage	Qunatity	Percentage	Qunatity	Percentage	Qunatity	Percentage	Qunatity	Percentage
HSD	111.1	42.3	100.4	43.0	107.2	42.1	113.8	42.7	115.9	42.0	57.2	41.9	57.5	42.0
MS	38.6	14.7	35.8	15.3	40.2	15.8	42.8	16.1	45.1	16.3	22.4	16.4	23.3	16.3
Naphtha	20.6	7.8	19.4	8.3	20.0	7.9	17.0	6.4	18.3	6.6	8.9	6.5	9.3	6.6
FO	8.9	3.4	7.1	3.0	8.5	3.3	9.6	3.6	9.7	3.5	5.5	4.0	5.5	3.5
ATF	15.2	5.8	7.1	3.0	10.3	4.0	15.0	5.6	17.1	6.2	8.4	6.1	8.8	6.2
LPG	12.8	4.9	12.1	5.2	12.2	4.8	12.8	4.8	12.8	4.6	6.3	4.6	6.3	4.6
SKO	3.2	1.2	2.4	1.0	1.9	0.8	0.9	0.4	1.0	0.4	0.5	0.4	0.5	0.4
Bitumen	4.9	1.9	4.9	2.1	5.1	2.0	4.9	1.8	5.2	1.9	2.3	1.7	2.3	1.9
LSHS	0.4	0.2	0.4	0.2	0.4	0.2	0.7	0.3	0.7	0.3	0.4	0.3	0.3	0.3
Lubes	0.9	0.4	1.1	0.5	1.2	0.5	1.4	0.5	1.4	0.5	0.7	0.5	0.6	0.5
LDO	0.6	0.2	0.7	0.3	0.8	0.3	0.6	0.2	0.7	0.2	0.3	0.3	0.3	0.2
RPC/Petcoke	14.6	5.6	12.0	5.2	15.5	6.1	15.4	5.8	15.1	5.5	7.5	5.5	7.4	5.5
Others#	31.0	11.8	30.2	12.9	30.9	12.2	31.4	11.8	33.1	12.0	16.1	11.8	17.7	12.0
Total	262.9	100.0	233.5	100.0	254.3	100.0	266.5	100.0	276.1	100.0	136.6	100.0	139.9	100.0
Source: Oil companies,														
(P): Provisional														
# Others include products like sulphur, propylene, propane, reformate, butane, MTO (Mineral Turpentine Oil) etc.														

Table 4.6 : Production vis a vis Consumption of Petroleum Products

(MMT)			
Year	Consumption	Production from refineries & other sources*	Surplus (+) / Deficit (-)
	(A)	(B)	(B)-(A)
1997-98	84.3	64.7	-19.6
1998-99	90.6	68.4	-22.2
1999-00	97.1	82.9	-14.2
2000-01	100.1	99.6	-0.5
2001-02	100.4	104.3	3.9
2002-03	104.1	108.7	4.5
2003-04	107.8	117.6	9.9
2004-05	111.6	123.3	11.6
2005-06	113.2	124.6	11.4
2006-07	120.7	140.6	19.9
2007-08	128.9	150.4	21.5
2008-09	133.6	157.9	24.3
2009-10	137.8	185.5	47.7
2010-11	141.0	196.2	55.2
2011-12	148.1	204.5	56.3
2012-13	157.1	218.2	61.2
2013-14	158.4	220.7	62.3
2014-15	165.5	221.1	55.6
2015-16	184.7	231.9	47.2
2016-17	194.6	243.5	48.9
2017-18	206.2	254.3	48.1
2018-19	213.2	262.4	49.1
2019-20	214.1	262.9	48.8
2020-21	194.3	233.5	39.2
2021-22	201.7	254.3	52.6
2022-23 (P)	223.0	266.5	43.5
2023-24 (P)	234.3	276.1	41.8
Apr-Sept 2023 (P)	114.3	136.6	22.3
Apr-Sept 2024 (P)	117.7	139.9	22.2

Note: includes direct imports by private parties

*Fractionators and gas processing plants

(P): Provisional



Table 4.7 : Gross Refining Margins (GRM) of Refineries

\$/bbl

Company	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	H1 2023-24	H1 2024-25 (P)
PSU refineries									
IOCL#	8.49	5.41	0.08	5.64	11.25	19.52	12.05	13.12	4.08
BPCL	6.85	4.58	2.50	4.06	9.09	20.24	14.14	15.42	6.12
HPCL	7.40	5.01	1.02	3.86	7.19	12.09	9.08	10.49	4.03
CPCL	6.42	3.70	(1.18)	7.14	8.85	12.48	8.64	10.34	2.93
MRPL	7.54	4.06	(0.23)	3.71	8.72	9.88	10.36	12.91	2.56
NRL#	31.92	28.11	24.55	37.23	43.46	35.82	29.72	30.65	14.47
BORL	11.70	9.80	5.60	6.20	11.00	**	**	**	**
RIL	11.60	9.20	8.90	*	*	*	*	*	*
NEL	8.95	6.97	5.88	*	*	*	*	*	*
Singapore	7.23	4.88	3.25	0.53	4.99	10.76	6.58	6.76	3.56

(P) - Provisional

GRM of North-East refineries are including excise duty benefit

* Not available

** BPCL figures for the period 2022-23 onwards includes BORL also after its merger with BPCL

As per U.S. Energy Information Administration (EIA) , Gross Refining Margin is the difference between the revenue from the sale of petroleum products and the cost of the raw materials used to produce the products.

Source : Indian refineries - published results/ information provided by oil companies; Singapore - Reuters

Table 4.8 : Distillate yield of PSU Refineries

(Distillate %)

Company	Refinery	2019-20	2020-21	2021-22	2022-23	2023-24(P)	2024-25(P)	Apr-Sep 2023-24(P)	Apr-Sep 2024-25(P)
IOCL	Barauni	86.9	87.1	85.9	83.8	83.8	84.9	82.4	83.8
	Koyali	79.5	72.1	76.7	74.0	73.9	74.9	74.5	73.9
	Haldia	69.0	72.2	72.2	74.8	73.1	75.9	71.3	73.1
	Mathura	75.6	72.3	74.9	71.8	71.3	68.8	71.4	71.3
	Panipat	84.8	80.2	83.9	78.9	79.1	80.1	80.0	79.1
	Guwahati	83.5	82.1	86.4	81.5	79.9	82.5	80.1	79.9
	Digboi	72.5	67.9	79.2	72.8	70.8	71.3	68.8	70.8
	Bongaigaon	80.8	84.8	81.3	80.0	82.3	78.6	80.8	82.3
	Paradip	80.7	79.2	79.6	79.5	79.9	78.5	81.3	79.9
CPCL	Manali	77.6	78.4	74.9	78.3	78.4	76.7	78.8	78.4
	CBR	-	-	-	-	-	-	-	-
HPCL	Mumbai	77.0	76.2	70.4	75.9	76.1	73.9	75.0	76.1
	Visakh	72.1	74.4	70.7	67.9	71.6	73.6	71.5	71.6
BPCL	Mumbai	84.9	83.7	84.4	85.5	80.9	81.5	80.7	80.9
	Kochi	84.2	83.8	85.4	83.9	84.2	83.4	83.7	84.2
	Bina	-	-	84.3	85.3	84.5	84.1	83.8	84.5
NRL	Numaligarh	83.0	86.4	85.7	89.9	86.5	90.2	81.7	86.5
MRPL	Mangalore	76.7	78.1	78.8	77.9	79.4	82.0	80.5	79.4
PSU oil cos. average		80.0	78.6	79.6	78.7	78.5	78.9	78.6	78.5

Source : CHT

Table 4.9 : Fuel & Loss																							
(MMT)																							
Sl. no.	Company	Refinery	2019-20			2020-21			2021-22			2022-23 (P)			2023-24 (P)			Apr-Sep 2023-24 (P)			Apr-Sep 2024-25 (P)		
			Crude T'put + other inputs	Fuel & Loss		Crude T'put + other inputs	Fuel & Loss		Crude T'put + other inputs	Fuel & Loss		Crude T'put + other inputs	Fuel & Loss		Crude T'put + other inputs	Fuel & Loss		Crude T'put + other inputs	Fuel & Loss		Crude T'put + other inputs	Fuel & Loss	
				Qty	%		Qty	%		Qty	%		Qty	%		Qty	%		Qty	%		Qty	%
1	IOCL	Barauni	6.7	0.6	8.8	5.7	0.6	9.8	5.7	0.5	9.6	6.9	0.6	8.8	6.8	0.6	8.6	3.4	0.3	8.8	3.4	0.3	8.0
2		Koyali	13.9	1.3	9.3	12.4	1.2	10.0	14.2	1.4	9.6	16.1	1.4	8.5	16.1	1.4	8.9	8.0	0.7	9.0	8.3	0.7	8.6
3		Haldia	6.6	0.6	9.6	6.9	0.7	10.5	7.5	0.8	10.7	8.9	0.9	9.8	8.5	0.8	9.2	4.0	0.4	9.8	3.1	0.3	9.4
4		Mathura	9.5	0.6	6.7	9.4	0.7	7.0	9.7	0.7	6.8	10.1	0.7	6.5	9.7	0.6	6.5	4.6	0.3	6.8	4.6	0.3	6.7
5		Panipat	16.7	1.4	8.3	14.9	1.4	9.2	16.7	1.4	8.5	15.1	1.4	9.0	15.9	1.4	8.6	8.3	0.7	8.4	8.1	0.7	9.2
6		Guwahati	1.3	0.1	9.7	1.1	0.1	10.6	1.0	0.1	9.7	1.4	0.13	8.7	1.3	0.12	8.6	0.7	0.1	9.1	0.7	0.07	10.1
7		Digboi	0.7	0.1	11.0	0.7	0.1	11.7	0.8	0.1	10.6	0.8	0.08	10.4	0.8	0.08	10.5	0.4	0.0	11.1	0.4	0.04	10.6
8		Bongaigaon	2.1	0.2	8.5	2.5	0.3	11.1	2.8	0.3	11.9	2.9	0.3	11.8	3.2	0.4	11.5	1.6	0.2	11.9	1.3	0.2	11.5
9		Paradip	15.8	1.5	9.6	12.5	1.4	11.0	13.4	1.5	11.0	13.7	1.4	10.0	15.4	1.6	10.2	7.9	0.8	10.2	6.6	0.8	11.4
		IOCL Total	73.4	6.4		66.1	6.4		71.7	6.8		76.0	6.8		77.7	6.9		38.7	3.5	9.1	36.5	3.3	
10	HPCL	Mumbai	8.1	0.4	5.1	7.5	0.6	8.0	5.7	0.5	8.2	9.8	0.7	7.4	9.7	0.7	7.2	5.0	0.4	7.2	4.7	0.4	8.3
11		Visakh	9.1	0.7	7.5	9.1	0.7	7.9	8.4	0.7	8.1	9.3	0.7	7.5	12.7	0.9	7.3	6.2	0.4	6.8	7.4	0.5	7.1
12		HMEL-Bathinda	12.3	0.7	5.7	10.1	0.6	6.0	13.1	0.8	6.1	12.8	0.9	7.3	12.9	0.7	5.6	6.6	0.4	5.6	6.8	0.4	5.6
		HPCL Total	29.5	1.8		26.7	1.9		27.2	1.9		31.9	2.4		35.3	2.3		17.8	1.1	6.5	18.9	1.3	
13	BPCL	Mumbai	15.1	0.6	4.2	13.1	0.5	4.1	14.5	0.6	4.3	14.6	0.7	4.9	15.2	0.7	4.6	8.1	0.4	4.8	7.9	0.3	3.7
14		Kochi	17.2	1.4	8.3	13.9	1.1	8.2	15.9	1.4	8.8	16.4	1.4	8.7	17.7	1.5	8.3	8.5	0.7	8.4	8.7	0.8	9.2
15		BORL-Bina	7.9	0.8	9.9	6.2	0.7	11.8	7.4	0.8	10.6	7.8	0.8	10.2	7.1	0.8	10.5	3.0	0.3	10.9	3.7	0.4	11.8
		BPCL Total	40.2	2.8		33.1	2.4		37.8	2.8		38.9	3.0		40.0	2.9		19.7	1.4	7.3	20.3	1.5	
16		Numaligarh	2.7	0.3	10.0	3.0	0.3	9.9	2.9	0.3	9.8	3.4	0.3	9.5	2.8	0.3	10.2	1.0	0.1	11.6	1.5	0.2	9.9
17	CPCL	Manali	10.3	1.0	10.0	8.5	0.9	10.7	9.4	0.9	9.7	11.6	1.0	9.1	12.1	1.1	9.1	5.9	0.5	9.1	5.1	0.4	8.8
18		CBR	0.002	0.00	52.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		CPCL Total	10.3	1.0		8.5	0.9		9.4	0.9		11.6	1.0		12.1	1.1		5.9	0.5	9.1	5.1	0.4	
19	ONGC	Tatipaka	0.1	0.007	7.8	0.1	0.004	5.1	0.1	0.003	4.5	0.07	0.003	4.2	0.07	0.002	2.8	0.0	0.0	2.4	0.03	0.002	5.4
20		MRPL-Mangalore	14.1	1.5	10.6	11.5	1.4	11.9	15.0	1.6	10.8	17.1	1.9	11.1	16.6	1.8	11.0	7.6	0.8	11.0	8.9	0.8	9.0
		ONGC Total	14.2	1.5		11.6	1.4		15.0	1.6		17.2	1.9		16.7	1.8		7.6	0.8	11.0	8.9	0.8	
21	RIL	Jamnagar (DTA)	40.1	3.8	9.5	40.7	4.0	9.9	41.1	4.0	9.7	41.4	4.3	10.4	41.5	4.3	10.4	20.8	2.1	10.3	21.3	2.1	9.9
22		Jamnagar (SEZ)	52.1	4.6	8.9	45.1	4.4	9.8	50.5	5.0	9.8	51.6	5.3	10.2	53.6	5.7	10.7	27.1	2.9	10.7	27.8	3.0	10.8
23	NEL	Vadinar	21.1	1.2	5.7	17.5	1.0	6.0	20.5	1.1	5.5	19.1	1.1	5.8	20.8	1.2	5.6	10.4	0.6	5.8	10.5	0.3	2.7
		Total	283.5	23.5		252.3	22.8		276.1	24.4		291.0	26.0		300.5	26.6		149.0	13.2		150.8	13.0	
Source: Oil companies (P): Provisional																							

Table 4.10: Specific Energy Consumption of PSU Refineries

(MBTU/Bbl/NRGF)

Company	Refinery	2019-20	2020-21	2021-22	2022-23	2023-24 (P)	2024-25 (P)	Apr-Sep 2023-24 (P)	Apr-Sep 2024-25 (P)
IOCL	Barauni	75.9	78.1	76.8	71.9	71.6	69.0	70.8	71.6
	Koyali	77.4	82.6	79.5	71.1	73.7	71.4	76.2	73.7
	Haldia	88.3	89.3	86.9	76.7	71.1	70.1	77.3	71.1
	Mathura	65.8	63.1	62.7	60.7	61.5	63.9	63.9	61.5
	Panipat	64.5	68.0	63.6	60.6	62.8	61.3	62.4	62.8
	Guwahati	121.2	123.7	121.4	105.0	103.6	103.7	100.7	103.6
	Digboi	101.7	98.1	88.4	97.3	91.5	88.2	99.9	91.5
	Bongaigaon	96.8	108.5	111.1	107.2	99.6	104.0	101.4	99.6
	Paradip	64.1	69.0	68.4	61.8	63.3	74.7	61.8	63.3
CPCL	Manali	81.5	86.7	82.8	75.2	72.2	75.0	72.2	72.2
	CBR	-	-	-					
HPCL	Mumbai	84.8	98.2	105.8	75.9	75.0	76.4	75.0	75.0
	Visakhapatnam	84.4	81.2	85.3	80.3	80.5	76.0	80.7	80.5
BPCL	Mumbai	63.0	64.4	64.1	63.7	60.9	60.9	60.7	60.9
	Kochi	68.2	71.7	67.1	65.7	62.7	64.7	62.8	62.7
	Bina			69.9	67.2	66.0	65.0	67.6	66.0
NRL	Numaligarh	64.8	64.4	63.5	61.7	61.6	61.7	64.0	61.6
MRPL	Mangalore	75.3	81.4	73.5	71.6	72.9	71.9	75.2	72.9
PSU average		72.8	76.6	73.7	69.8	69.0	69.2	69.6	69.0

Specific Energy Consumption written as SEC or MBN;mbn=MBTU/Bbl/NRGF;MBTU: Net energy & loss in Refinery(Thousand British Thermal Unit);

BbLs: Barrels of crude processed;NRGF:Composite energy factor for the Refinery



Table 4.11 : Import/Export of crude oil and petroleum products																			
Import / export	Crude oil & petroleum products	2020-21			2021-22			2022-23			2023-24 (P)			Apr-Sep 2023-24 (P)			Apr-Sep 2024-25 (P)		
		Quantity	Value		Quantity	Value		Quantity	Value		Quantity	Value		Quantity	Value		Quantity	Value	
		Million tonne	US\$ (Billion)	Rs. (Crores)	Million tonne	US\$ (Billion)	Rs. (Crores)	Million tonne	US\$ (Billion)	Rs. (Crores)	Million tonne	US\$ (Billion)	Rs. (Crores)	Million tonne	US\$ (Billion)	Rs. (Crores)	Million tonne	US\$ (Billion)	Rs. (Crores)
I M P O R T *	Crude oil	196.5	62.2	459779	212.4	120.7	901262	232.7	157.5	1260372	234.3	133.4	1105176	116.7	64.1	528445	120.4	71.0	594331
	of which, PSU/JVs	121.8	39.7	292718	134.7	77.3	577372	154.0	106.4	852592	153.6	88.0	729765	76.4	42.3	348811	78.8	46.8	391481
	Private	74.7	22.6	167060	77.7	43.4	323890	78.7	51.2	407780	80.6	45.3	375411	40.2	21.8	179635	41.6	24.3	202851
	Products																		
	LPG	16.5	7.2	53752	17.0	12.2	91468	18.3	13.3	107191	18.5	10.4	86361	8.3	4.1	34002	9.8	5.7	47888
	Petrol	1.4	0.7	4950	0.7	0.5	3895	1.1	1.1	8846	0.7	0.7	5500	0.4	0.4	3459	0.2	0.2	1572
	Naphtha	1.2	0.5	3844	0.2	0.2	1499	0.9	0.6	4781	1.2	0.8	6627	0.6	0.4	3122	0.6	0.4	3620
	Aviation Turbine Fuel	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0
	Kerosene	0.003	0.002	12	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0
	Diesel	0.6	0.3	1960	0.04	0.03	253	0.3	0.5	3584	0.04	0.04	312	0.02	0.01	113	0.02	0.02	137
	Lubes/LOBS	2.7	1.6	12170	3.1	2.6	19704	2.2	2.3	18449	2.4	2.3	19129	1.2	1.1	9326	1.5	1.4	11983
	Fuel Oil	6.5	1.9	14312	9.0	4.4	32815	8.6	4.2	33474	9.1	4.1	33669	4.4	1.9	15813	4.2	1.9	16257
	Bitumen	2.1	0.6	4325	2.6	1.0	7678	2.8	1.2	9945	3.2	1.3	10875	1.7	0.7	5808	1.5	0.6	4682
	Petcoke	8.3	0.9	6410	4.2	1.1	8203	8.7	2.3	18157	11.0	1.7	14310	5.0	0.9	7210	6.5	0.8	6977
	Others**	4.1	1.0	7695	2.2	1.5	11319	1.8	1.4	11425	2.5	1.6	13286	1.6	1.0	8241	1.3	0.9	7515
	Total product import	43.2	14.8	109430	39.0	23.7	176835	44.6	26.9	215854	48.7	22.9	190069	23.3	10.6	87095	25.8	12.0	100631
	of which, PSU/JVs	18.7	8.3	61332	18.1	13.0	97082	19.9	15.0	120452	19.4	11.3	93410	8.9	4.6	38241	10.1	6.0	49809
	Private	24.6	6.5	48098	20.9	10.7	79753	24.7	11.9	95402	29.2	11.7	96658	14.5	5.9	48854	15.7	6.1	50822
	Total import (crude oil + product)	239.7	77.0	569208	251.4	144.3	1078097	277.3	184.4	1476226	283.0	156.3	1295244	140.0	74.6	615541	146.2	83.1	694962
E X P O R T	Products																		
	LPG	0.5	0.2	1797	0.5	0.4	3214	0.5	0.5	3891	0.5	0.4	3215	0.3	0.2	1440	0.3	0.2	1670
	Petrol	11.6	5.0	36530	13.5	10.9	81649	13.1	12.9	102800	13.5	11.2	92957	7.2	6.2	50760	7.2	5.5	45887
	Naphtha	6.5	2.5	18643	6.9	5.0	37231	5.7	4.2	33357	5.3	3.3	27019	2.6	1.5	12595	2.6	1.7	14386
	Aviation Turbine Fuel	3.5	1.3	9377	5.2	3.7	27112	7.3	7.3	58598	8.6	7.0	57959	4.2	3.4	27899	4.5	3.3	27372
	Kerosene	0.02	0.01	48	0.01	0.01	77	0.01	0.01	100	0.01	0.01	82	0.01	0.01	43	0.01	0.005	41
	Diesel	30.6	11.1	81611	32.4	22.1	164741	28.5	28.9	230813	28.2	22.1	182399	13.6	10.6	87710	13.0	9.1	75950
	LDO	0.0	0.0	0	0.0	0.0	0	0.001	0.002	13	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0
	Lubes/LOBS	0.01	0.01	93	0.01	0.02	114	0.01	0.03	205	0.01	0.02	200	0.01	0.01	88	0.01	0.02	157
	Fuel Oil	1.2	0.3	2318	1.8	0.9	6633	1.8	1.0	7834	2.1	1.0	7961	0.9	0.4	3515	1.3	0.6	4937
	Bitumen	0.01	0.003	23	0.01	0.004	28	0.01	0.01	42	0.02	0.009	72	0.01	0.005	38	0.01	0.01	51
	Petcoke / CBFS	0.6	0.04	292	0.2	0.1	553	0.3	0.1	648	0.03	0.003	23	0.03	0.003	23	0.6	0.3	2811
	Others***	2.3	0.9	6436	2.3	1.4	10449	3.7	2.5	20427	4.4	2.8	22835	2.0	1.3	11129	2.2	1.4	11540
	Total product export	56.8	21.4	157168	62.8	44.4	331801	61.0	57.3	458729	62.6	47.7	394723	30.8	23.7	195240	31.7	22.1	184801
of which, PSU/JVs	10.6	4.0	29708	14.2	10.3	76775	12.9	11.6	92805	13.2	9.6	79778	5.9	4.2	34947	6.9	4.8	39734	
Private	46.1	17.4	127460	48.6	34.2	255026	48.1	45.7	365923	49.4	38.1	314945	24.9	19.5	160293	24.8	17.4	145067	
Net import		182.9	55.6	412041	188.6	99.9	746296	216.3	127.1	1017497	220.4	108.6	900521	109.2	50.9	420300	114.5	61.0	510161
Net product export		13.5	6.6	47738	23.7	20.8	154966	16.4	30.4	242875	13.9	24.8	204655	7.4	13.1	108145	5.9	10.1	84170
Source: Oil companies & DGCIS, (P) : Provisional, DGCIS data is prorated for August 2024 and September 2024																			
Note:																			
*Import does not include LNG imports																			
**Other imports include Paraffin Wax, Petroleum Jelly, Aviation Gas, MTBE, Reformate etc.																			
***Other exports include VGO, Benzene, Hexane, MTO, Sulphur etc.																			
Others in exports include RIL-SEZ exports of *Others* with unspecified heavy ends.																			
Crude oil imports increased by 6.0% and 3.2% during September 2024 and April-September FY 2024-25 respectively as compared to the corresponding period of the previous year																			
Imports made due to deficit in production viz. LPG and Lubes/LOBS accounted for 44.1% share of total POL products import during April-September FY 2024-25 as compared to 40.8% during April-September FY 2023-24.																			
Imports of naphtha and FO were done for commercial and technical considerations and accounted for 18.7% share of total POL products import during April-September FY 2024-25 as compared to 21.5% during April-September FY 2023-24.																			
Increase of 3.0% was recorded in POL products export during April-September FY 2024-25 as compared to during April-September FY 2023-24 mainly due to increase in exports of petcoke/CBFS and fuel oil (FO) etc.																			

Table 4.12 : Exchange rates of Indian rupee (₹)

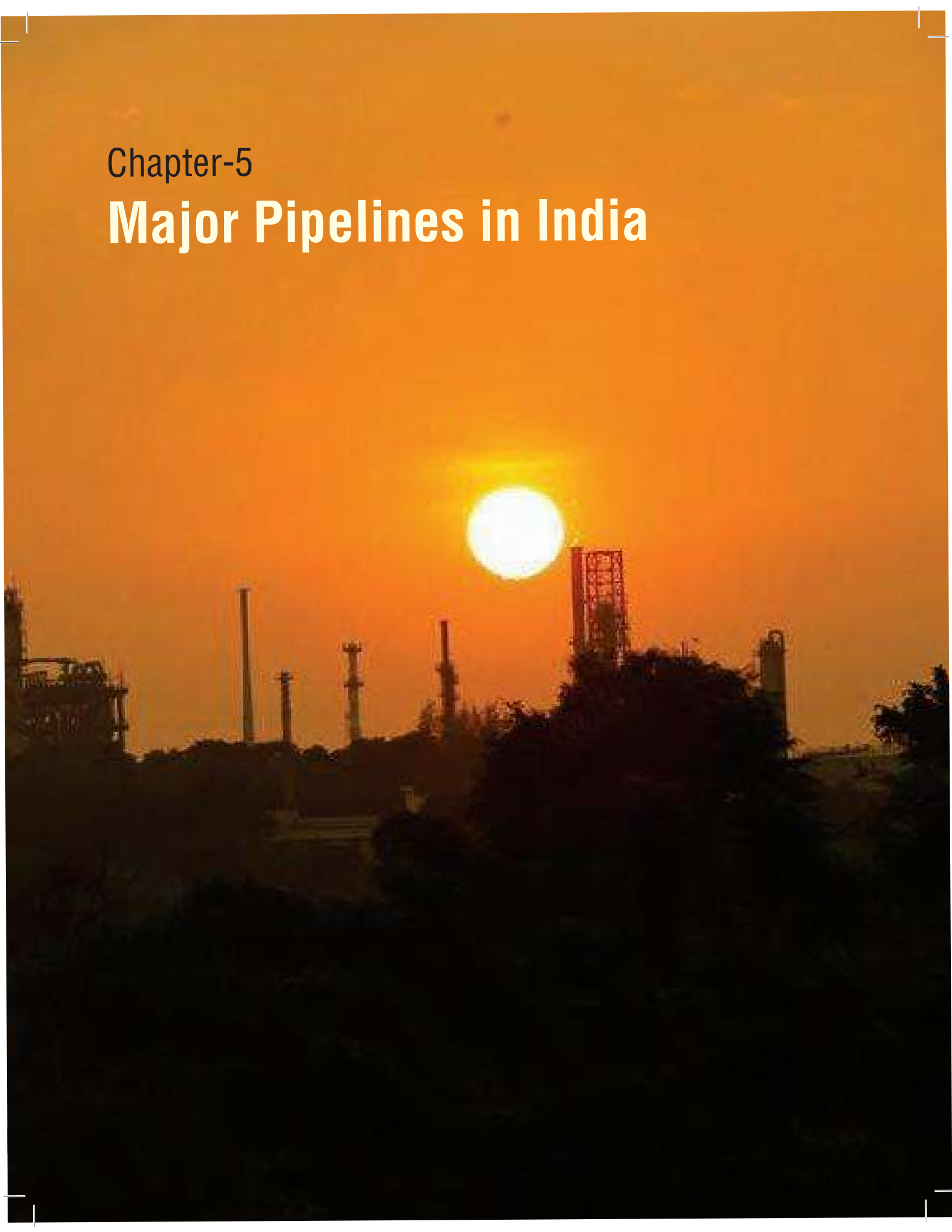
Year	US dollar(\$)	British pound(£)	Euro(€)	Japanese yen(¥)
	Indian rupee (₹) / foreign currency			
2002-03	48.41	74.84	48.07	0.40
2003-04	45.92	77.74	54.01	0.41
2004-05	44.95	82.95	56.55	0.42
2005-06	44.28	79.02	53.88	0.39
2006-07	45.29	85.72	58.11	0.39
2007-08	40.24	80.80	56.99	0.35
2008-09	45.91	78.45	65.14	0.46
2009-10	47.42	75.88	67.08	0.51
2010-11	45.58	70.88	60.21	0.53
2011-12	47.95	76.40	65.90	0.61
2012-13	54.45	86.02	70.06	0.66
2013-14	60.50	96.23	81.14	0.60
2014-15	61.15	98.56	77.47	0.56
2015-16	65.46	98.76	72.31	0.55
2016-17	67.09	87.71	73.61	0.62
2017-18	64.45	85.47	75.42	0.58
2018-19	69.89	91.74	80.93	0.63
2019-20	70.88	90.15	78.80	0.65
2020-21	74.20	97.06	86.67	0.70
2021-22	74.51	101.78	86.56	0.66
2022-23	80.39	96.83	83.72	0.59
2023-24	82.79	104.07	89.80	0.57
2024-25 (Apr to Oct'24)	83.67	107.54	91.05	0.55
2024 : Month wise				
January	83.12	105.60	90.77	0.57
February	82.96	104.80	89.55	0.56
March	83.00	105.54	90.27	0.55
April	83.41	104.38	89.44	0.54
May	83.39	105.30	90.10	0.54
June	83.47	106.16	89.89	0.53
July	83.59	107.37	90.59	0.53
August	83.90	108.57	92.41	0.57
September	83.81	110.74	93.07	0.59
October	84.03	109.65	91.57	0.56

Source: Reserve Bank of India (RBI)/ Financial Benchmark India Private Limited (FBIL) website.

Note: The rates are average for the period.

Chapter-5

Major Pipelines in India



Chapter Highlights

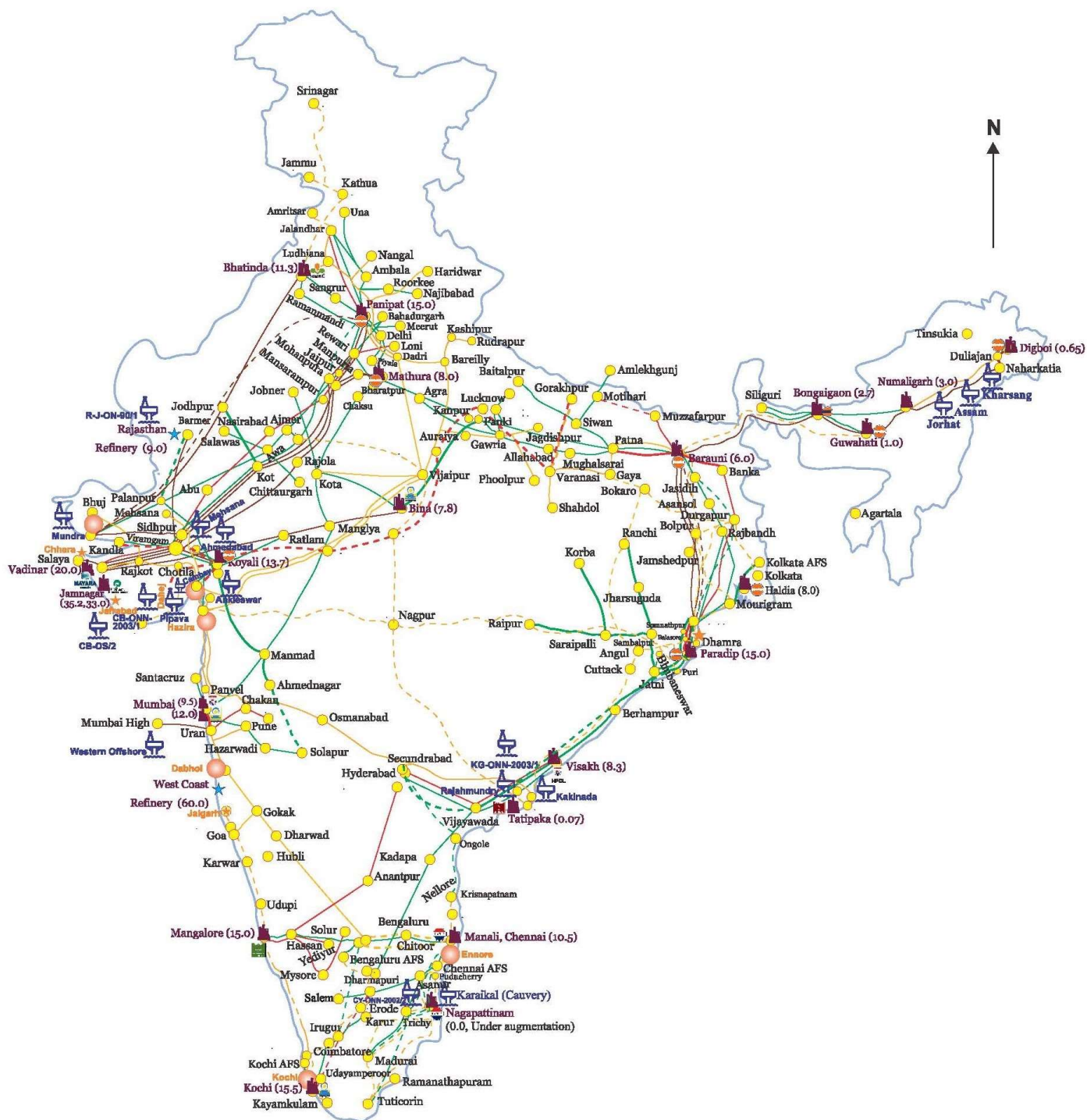
Major Pipelines in India

Pipelines play a crucial role in maintaining the supply chain for crude oil, petroleum products, and gas in the country. Onshore cross-country pipelines are buried underground at a depth of approximately 1.5 meters within a corridor spanning about 18 meters, operating at elevated pressures. As of October 01, 2024, the total length of the crude oil pipeline network in India is 10,943 kilometers, boasting a capacity of 153.1 million metric tons per annum (MMTPA). During FY 2024-25 H1, the utilization of crude oil pipelines stands at 66.8%.

Product pipelines, inclusive of LPG, form a comprehensive network spanning 23618 kilometers with a capacity of 140.4 MMTPA. During FY 2024-25 H1, the utilization of product pipelines reached 72.4%, an increase from 69.5% in FY 2023-24 H1. The installed capacity of the Product/LPG pipeline increased by 0.1 MMTPA during H1 FY 2024-25.

Natural Gas Pipeline infrastructure- is an economical and safe mode of transporting natural gas by connecting gas sources to gas consuming markets. Gas pipeline grid determines the structure of the gas market and its development. Therefore, an interconnected National Gas Grid has been envisaged to ensure the adequate availability and equitable distribution of natural gas in all parts of the country. At present (up to June 2024), there is about 23563 km long Natural Gas pipeline network which is operational in the country. In order to make available natural gas across the country, it has been envisaged to develop additional about 9528 km pipelines (excluding Tie-in connectivity, dedicated & STPL) to complete the National Gas Grid and same are at various stages of development. This would ensure easy availability of natural gas across all regions and potentially help to achieve uniform economic and social progress.





LEGENDS

Refineries



Refineries (Capacity in MMTPA)

Producing Fields



LNG Terminals

- Debhoh, Dahej, Hazira, Kochi, Mundra, Ennore
- ★ (Upcoming Terminals) Dhamra, Jafrabad, Jaigarh, Chhara

LEGENDS

Pipelines Network

- Crude Oil Pipeline
- - - Ongoing Crude Oil Pipeline
- Product Pipeline
- - - Ongoing Product Pipeline
- LPG Pipeline
- - - Ongoing LPG Pipeline
- Gas Pipeline
- - - Ongoing Gas Pipeline

* Pipeline Map is indicative only

Table 5.1: Natural Gas Pipelines in the Country (Operational)												
S. No.	Network/Region	Entity	Length (Kms)	Authorized capacity/ Declared capacity (MMSCMD) as on 01.10.2024	Pipeline size	Pipeline Status	Average flow Apr-Mar 2023-24 (mmscmd)	% Capacity utilisation Apr- Mar 2023-24	Average flow Apr-Sept 2023-24 (mmscmd)	% Capacity utilisation Apr- Sept 2023-24	Average flow Apr-Sept 2024-25 (mmscmd)	% Capacity utilisation Apr- Sept 2024-25
1	Assam Natural Gas Pipeline Network	Assam Gas Company Limited (AGCL)	106.713	2.428	800 mm/500 mm/ 400 mm/ 350 mm	Operational	1.726	71.1%	1.77	73.04	1.85	76.19
2	Cauvery Basin Network	GAIL	272	4.33	18"/ 12"/ 8"/ 6"/ 4"/ 3"/ 2"	Operational	2.26	52.3%	1.95	45.1	1.8	41.3
3	KG Basin Network	GAIL	917	15.99	18"/16"/14"/12"/ 8"/6"/4"/2"	Operational	4.83	30.2%	4.19	26.2	3.8	23.9
4	Gujarat Regional Network (GRN) (in 2023-24 GRN excludes baroda network)	GAIL	615	8.31	24"/18"/14"/12"/ 8"/6"/5"/2"/1"	Operational	1.38	16.6%	1.22	14.6	1.1	13.8
5	Agartala Regional Network	GAIL	65	2.00	12"/10"/8"	Operational	1.08	53.9%	0.99	49.3	0.8	38.5
6	Kochi-Koottanad-Bangalore-Mangalore #	GAIL	642	12.00	30"/ 24"/ 18"/ 8"/ 4"	Under Construction / Part Operational	4.17	34.7%	3.39	28.3	3.9	32.3
7	Hazira-Vijaipur-Jagdishpur -GREP (Gas Rehabilitation and Expansion Project)-Dahej-Vijaipur HVJ/VDPL	GAIL	6725	107	42"/36"/30"/18"/ 16"/14"/12"/10"/8"/6"/4"/2"	Operational	107.56	-	107.492	-	119.57	73.0
	Dahej-Vijaipur (DVPL)-Vijaipur-Dadri (GREP) Upgradation DVPL 2 & VDPL	GAIL			48"/ 16"/12"	Operational						
	Dahej-Uran-Panvel-Dhabhol	GAIL	943	19.90	30"/24"/18"/12"/ 6"/4"	Operational						
	Mumbai Regional Network	GAIL	125	7.04	26"/20"/18"/12"/4"	Operational						
	Chainsa-Jhajjar-Hissar	GAIL	442	35.00	36"/18"/16"/12"/ 10"/8"/4"	Operational						
	Dadri-Bawana-Nangal	GAIL	909	31.00	36"/30"/18"/10"/ 8"	Operational						
	Dabhol-Bangalore	GAIL	1148	16.00	36"/30"/24"/18"/ 10"/8"	Operational						
	Jagdishpur-Haldia-Bokaro Dhamra-Paradip- Barauni-Guwahati #	GAIL	2383	7.44	36"/30"/ 24"/18"/ 12"/ 8"/ 6"/ 4"	Under Construction / Part Operational						
8	Dedicated pipelines ##	GAIL	-	-	-	-	2.75	-	2.135	-	2.75	-
9	Hazira-Ankleshwar (HAP) ¹	GGL	73.2	4.20	18"	Operational	0.52	12.5%	0.5	11.86	0.59	14.09
10	Mehsana - Bhatinda ^	GIGL	1673	45.94	36"/24"/18"/12"	Partially Commissioned**	5.68	12.4%	5.0	10.95	3.3	7.3
11	Bhatinda - Gurdaspur ^s	GIGL	261.42	33.93	24"/18"/16"/12"/ 8"/6"/4"	Partially Commissioned ^s	0.06	0.2%	0.1	0.15	0.1	0.2
12	Mallavaram - Bhopal - Bhilwara - Vijaipur [#]	GITL	2042	78.25	42"/36"/30"/24"/ 18"/12"	Under Construction	1.92	2.5%	1.9	2.48	2.2	2.79
13	High Pressure Gujarat Gas Grid	GSPL	2657.4	31	36"/30"/24"/20"/ 18"/12"/8"/6"/ 4"	Operational	24.21	67.3%	29.5	95.06	27.2	75.47
14	Low Pressure Gujarat Gas Grid	GSPL	57.6	12	36"/30"/24"/12"	Operational	6.28	52.3%	5.7	47.48	5.8	48.75

Table 5.1: Natural Gas Pipelines in the Country (Operational)

S. No.	Network/Region	Entity	Length (Kms)	Authorized capacity/ Declared capacity (MMSCMD) as on 01.10.2024	Pipeline size	Pipeline Status	Average flow Apr-Mar 2023-24 (mmscmd)	% Capacity utilisation Apr- Mar 2023-24	Average flow Apr-Sept 2023-24 (mmscmd)	% Capacity utilisation Apr- Sept 2023-24	Average flow Apr-Sept 2024-25(mmscmd)	% Capacity utilisation Apr- Sept 2024-25
15	Dadri-Panipat	IOCL	132	9.50	30"	Operational (141 Km)	4.97	52.0%	5.2	57	5.7	62
16	Ennore-Thiruvallur-Bengaluru-Puducherry-Nagapattinam-Madurai-Tuticorn	IOCL	1421	84.67 (installed capacity 34)	30"/24"/18"/16"/14"/12"/8"/6"	Under Construction / Part Operational (under operation 285 Km)	3.70	11.0%	3.4	10	4.75	14
17	Dahej-Koyali	IOCL	106	5.23	16"	Operational (106 Km)	1.81	35.0%	1.9	38	2.64	52
18	Uran-Trombay	ONGC	24	6.00	20"	Operational	3.07	51.2%	3.076	51.33	3.277	54.61
19	Kakinada-Bharuch Natural Gas Pipeline (erstwhile East - West Pipeline)	Pipeline Infrastructure Limited	1485	85.00	48"/30"/28"/24"/16"/10"	Operational	33.11	38.9%	30.63	36.04	35.51	41.78
20	Shahdol-Phulpur	RGPL	304	3.50	16"	Operational	0.58	16.5%	0.62	17.6	0.7	19.9

Source: Pipeline entities

Note:

1. GGL Pipeline - Pipeline capacity as determined by GGL

2. GSPL/GIGL/GITL pipelines

^Natural Gas flowing through (i) Barmer - Pali - Palanpur Pipeline (ii) Pali - Ajmer - Jaipur - Sikar -

**1200 km of the pipeline commissioned, approx. 45.8 km of the pipeline is completed, approx. 1.2 km of mainline

^101 km of Jalandhar Amritsar pipeline commissioned, approx. 10 km of spurline in Punjab completed, approx. 20 k

* Please note that the gas is flowing through 365 km x 18" pipeline Kunchanapally in Andhra Pradesh to RFCL,

3. Pipeline Infrastructure Limited Pipeline:

1) 1) Conversion factor of 37000 Btu/SCM is used for computing volumes in MMSCMD.

2) The capacity above is as per the authorization letter issued by PNGRB for Kakinada - Bharuch Natural Gas Pipeline (erstwhile East-

4. GAIL

Capacity of commissioned section

** w.e.f. 1st April, 2023 GAIL's Integrated Pipeline has been implemented. Capacity of INGPL as

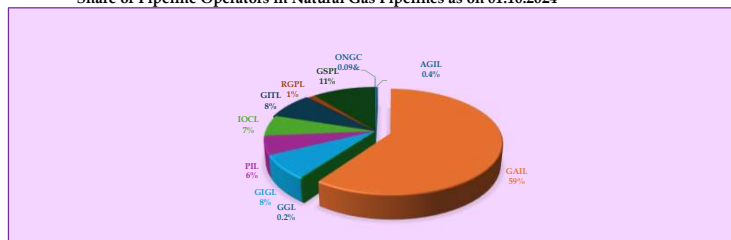
*** Total flow will not match with sum of individual pipeline network flow as some quantity

Dedicated pipelines are for connecting multiple end customers having different pipeline

GAIL Integrated Pipeline (INGPL) consists of following pipelines of GAIL :

5. IOCL

*Capacity Utilisation based on pro-rata commissioning of new sections.

Share of Pipeline Operators in Natural Gas Pipelines as on 01.10.2024

Note: Pipelines includes commissioned and partially commissioned pipelines.



Table 5.2 : Existing Major Crude Oil Pipelines in India						
Type of Pipeline-Onshore/Offshore	Name of the pipeline	Owner	Length (KM)	Capacity (MMT)	Throughput (MMT)	Percentage Utilisation during
			01.10.2024	01.10.2024	Apr-Sept'24 (P)	Apr-Sept'24 (P)
Onshore	CTF (Central Tank Farm) Kalol to CTF Nawagam - New (New line commissioned in Aug'2010)	ONGC	63	3.1	0.4	27.7
Onshore	Nawagam-Koyali (18" line) New		80	5.4	1.9	70.5
Onshore	Nawagam-Koyali (14" line) (Old)		78	3.3	0.0	0.0
Onshore	MHN-NGM (Mehsana-Nawagam) trunk line - New (New crude oil trunk line commissioned. Under operation since Dec'2010)		77	2.3	1.0	92.4
Onshore	CTF (Central Tank Farm), Ankleshwar to Koyali oil pipeline (AKCL- Ankleshwar Koyali Crude Line)		95	2.2	0.3	23.4
Onshore	CTF (Central Tank Farm), Ankleshwar to CPF (Central Processing Facility), Gandhar		44	0.4	0.0	0.0
Onshore	CPF (Central Processing Facility), Gandhar to Saraswani 'T' point		57	1.8	0.2	21.3
Onshore	Akholjuni- Koyali oil pipe line (Commissioned in July 2010). Akholjuni to Laxmipura T' point		66	0.5	0.2	72.3
Onshore	Lakwa-Moran oil line (New)		15	1.5	0.3	33.5
Onshore	Lakwa-Moran oil line (Old)		18	1.5	0.0	0.0
Onshore	Geleki-Jorhat oil line		49	1.5	0.0	0.0
Onshore	Geleki-Jorhat oil line (New)		48	1.5	0.1	18.4
Onshore	Borholla- Jorhat oil line		43	0.6	0.0	0.0
Onshore	Borholla- Jorhat new TPL (New)		43	0.6	0.1	40.1
Onshore	NRM (Narimanam) to CPCL (Chennai Petroleum Corporation Limited)		5	0.7	0.0	0.0
Onshore	KSP-WGGS to TPK Refinery (Kesnapalli-West-Group Gathering Station to Tatipaka)		14	0.1	0.0	57.4
Onshore	GMAA EPT (Gopavaram Early Production Terminal) to S. Yanam Unloading Terminal (3.5 Km long and 4"). New line commissioned on 28.07.10		4	0.1	0.0	3.6
Offshore	Mumbai High - Uran - Trunk (MUT) 30" pipeline		204	15.6	1.3	17.2
Offshore	Heera - Uran - Trunk (HUT) 24" pipeline		81	11.5	2.8	49.2
Offshore	Bombay-Uran Trunk (BUT) 30" pipeline		203	6.4	0.7	22.4
		Sub total ONGC	1284	60.6	9.4	31.1
Onshore	Salaya-Mathura pipeline (SMPL)	IOCL	2646	25.0	14.3	114.1
Offshore	Salaya Mathura Pipeline (Offshore segment)		17	-	-	-
Onshore	Paradip-Haldia-Barauni pipeline (PHBPL) (1)		1873	20.4	8.2	80.1
Offshore	Paradip Haldia Barauni Pipeline (Offshore segment)		92	-	-	-
Onshore	Mundra-Panipat pipeline		1194	8.4	3.5	84.3
		Sub total IOCL	5822	53.8	26.0	96.5
Onshore	Duliajan-Digboi-Bongaigaon-Barauni pipeline	OIL	1195	9.0	3.5	77.3
Onshore	Mangla-Bhogat pipeline	CAIRN	660	8.7	1.8	42.4
Offshore	Bhogat Marine		28	2.0	0.2	21.1
		Sub total CAIRN	688	10.7	2.1	38.4
Onshore	Mundra- Bathinda pipeline	HMPL	1017	11.3	6.6	116.5
Onshore	Vadinar-Bina pipeline	BPCL	937	7.8	3.7	94.6
	Total Crude pipelines		10943	153.1	51.2	66.8
Source : Oil companies (P): Provisional						
Notes:						
Pipeline utilisation is calculated using formula = (Throughput in MMT * 100) / (Annual capacity in MMTPA*0.5)						
IOCL						
1) Haldia-Barauni section of Paradip Haldia Barauni Pipeline commissioned on 27th July 2023 (Commissioned section length = 518 km, Dia = 30", Capacity of PHBPL increased from 15.2 to 20.4 MMTPA)						
2) SMPL - Change in offshore length due to commissioning of new SPMs at Vadinar (3 km)						

5.3 Existing Major POL Pipelines in India						
Type of Pipeline	Name of the pipeline	Owner	Length (KM)	Capacity (MMT)	Throughput (MMT)	Percentage utilisation during
			01.10.2024	01.10.2024	Apr-Sept'24 (P)	Apr-Sept'24 (P)
Petroleum Products Pipelines						
Onshore	Barauni - Kanpur pipeline	IOCL	1227	3.5	2.0	116.6
Onshore	Guwahati -Siliguri pipeline		435	1.4	0.8	115.9
Onshore	Haldia-Barauni pipeline		526	1.3	0.7	115.0
Onshore	Haldia-Mourigram-Rajbandh pipeline		277	1.4	1.0	152.9
Onshore	Koyali-Ahmedabad pipeline		79	1.1	0.5	89.5
Onshore	Koyali-Jaipur-Panipat pipeline		1644	5.0	2.4	97.9
Onshore	Koyali-Ratlam pipeline		265	2.0	0.9	86.3
Onshore	Koyali-Dahej pipeline		197	2.6	0.3	22.5
Onshore	Mathura-Agra-Gawria pipeline		311	4.0	0.8	40.7
Onshore	Mathura-Bharatpur pipeline		21	1.2	0.1	15.3
Onshore	Mathura-Delhi pipeline		147	3.7	1.0	55.8
Onshore	Panipat-Amabala-Jalandhar (Including Kurukshetra-Roorkee-Najibabad branch line)		495	3.5	1.7	98.5
Onshore	Panipat-Delhi (Including Sonapat-Meerut branch line) pipeline		189	3.0	0.1	7.7
Onshore	Panipat Bijwasan ATF pipeline		111	1.0	0.6	111.6
Onshore	Panipat-Bathinda pipeline		219	3.0	0.8	55.9
Onshore	Panipat-Rewari pipeline		155	2.1	0.8	76.1
Onshore	Chennai-Trichy-Madurai pipeline		683	3.9	1.5	75.4
Onshore	Chennai - Meenambakkam ATF pipeline		95	0.2	0.1	160.0
Onshore	Chennai-Bengaluru pipeline		290	2.5	1.0	85.5
Onshore	Devangonthi - Devanhalli pipeline		36	0.7	0.3	101.2
Onshore	Paradip Raipur Ranchi pipeline(PRRPL)		1073	5.0	2.1	82.0
Onshore	Kolkata ATF Pipeline		27	0.2	0.1	67.0
Onshore	Lucknow ATF Pipeline		6	0.2	0.1	47.6
Onshore	Paradip Hyderabad Pipeline (2)		1219	4.5	0.4	18.7
Onshore	Paradip-Somnathpur-Haldia Pipeline		341	4.6	0.4	15.4
Onshore	Koyali-Ahmednagar-Solapur Pipeline		752	5.0	0.5	19.6
Onshore	18" HBPL (Haldia - Barauni) Conversion Project		10	0.0	0.0	-
Onshore	Bhubaneswar ATF Pipeline (1)		15	0.1	0.0	-
		Sub total IOCL	10845	66.5	21.10	63.4
Onshore	Mumbai-Manmad-Bijwasan pipeline (MMBPL)	BPCL	1392	6.0	4.0	132.0
Onshore	Kota - Jobner branch pipeline (1)		211	1.7		
Onshore	Bina-Kota pipeline (BKPL)		259	4.4	1.4	65.3
Onshore	Bina Panki Pipeline		356	3.5	1.0	55.9
Onshore	ATF P/L Mumbai Refinery (MR)-Santacruz		15	1.0	0.4	70.1
Onshore	ATF P/L Kochi Refinery (KR)-Kochi Airport		34	0.6	0.3	86.8
Onshore	Mumbai Refinery- Wadilube Pipeline		12	1.3	0.2	25.2
Onshore	Cochin-Coimbatore-Karur (CCK) pipeline (2)		293	3.3	2.1	127.8
		Sub total BPCL	2572	21.8	9.3	84.9
Onshore	Mumbai-Pune-Solapur pipeline		508	4.3	1.6	74.1
Onshore	Vizag-Vijaywada-Secunderabad pipeline (5)		572	7.7	2.9	76.6
Onshore	Vijaywada Dharmapuri (VDPL) Pipeline		697			
Onshore	Mundra-Delhi pipeline (1)		1054	6.9	2.6	74.5
Onshore	Awa-Salawas pipeline		93			
Onshore	Palanpur-Vadodara Pipeline		235			

5.3 Existing Major POL Pipelines in India						
Type of Pipeline	Name of the pipeline	Owner	Length (KM)	Capacity (MMT)	Throughput (MMT)	Percentage utilisation during
			01.10.2024	01.10.2024	Apr-Sept'24 (P)	Apr-Sept'24 (P)
Onshore	Ramanmandi-Bahadurgarh pipeline (RBPL) (2)	HPCL	243	7.1	3.3	92.7
Onshore	Bahadurgarh-Tikrikalan pipeline		14			
Onshore	Rewari- Kanpur Pipeline		443			
Onshore	Barwala Hissar Pipeline (BHPL) (7)		10			
Onshore	Ramanmandi-Bathinda pipeline (RBhPL)		30	2.1	0.7	62.5
Onshore	ATF pipeline from Mumbai Refinery to Mumbai Airport (3)		20	0.5	0.2	99.0
Onshore	Black Oil Pipeline (BOPL)		22	1.5	0.8	105.1
Onshore	Lube Oil Pipeline : Trombay to Wadibundar (3)		17	1.0	0.3	56.0
		Sub total HPCL	3957	31.1	12.4	79.6
Onshore	Mangalore-Hassan-Bengaluru (MHB) pipeline (1)	Petronet MHB	363	5.6	2.0	72.1
Onshore	Numaligarh-Siliguri pipeline	OIL	654	1.7	0.6	70.3
Total Petroleum product pipelines (w/o LPG pipelines)			18391	126.8	45.4	71.6
LPG Pipelines						
Onshore	Panipat-Jalandhar pipeline	IOCL	280	0.7	0.3	89.7
Onshore	Paradip Haldia Barauni Motihari pipeline		1707	3.5	1.1	60.1
		Sub total IOCL	1987	4.2	1.4	65.0
Onshore/ offshore	Mumbai-Uran pipeline	BPCL	28	0.8	0.4	102.1
Onshore	Jamnagar-Loni pipeline	GAIL	1427	3.3	1.6	98.3
Onshore	Vizag-Secunderabad pipeline		609	1.3	0.6	89.2
		Sub total GAIL	2036	4.6	2.2	95.6
Onshore	Mangalore-Hassan-Mysore-Bangalore LPG (6)	HPCL	356	3.1	0.9	60.9
Onshore	Hassan-Cherlapalli LPG Pipeline		649			
Onshore	Uran-Chakan-Shikrapur LPG Pipeline (4)		171	1.0	0.6	110.7
		Sub total HPCL	1176	4.1	1.5	73.0
Total LPG pipelines			5227	13.7	5.5	79.8
Total POL pipelines			23618	140.4	50.8	72.4
<p>Source: Oil Companies (P): Provisional</p> <p>Notes:</p> <p>Pipeline utilisation is calculated using formula = (Throughput in MMT * 100) / (Annual capacity in MMTPA*0.5)</p> <p>IOCL</p> <p>1) Bhubaneshwar ATF Pipeline (Length: 15 km, Dia: 8", Capacity: 0.12 MMTPA) commissioned on 27th June 2024.</p> <p>2) Vijayawada-Hyderabad section (Length: 222.578 km, Dia: 14") of Paradip Hyderabad Pipeline commissioned on 1st August 2024. Final PHPL Length is 1218.728 km.</p> <p>BPCL</p> <p>1) Kota-Jobner Pipeline is a branch pipeline of Mumbai Manmad Bijwasan pipeline with annual capacity of 1.7 MMTPA.Throughput of this pipeline is included in MMBPL & BKPL pipelines.</p> <p>2) Petronet CCK was merged with BPCL w.e.f 01.06.2018.</p> <p>HPCL</p> <p>(1) Throughput of Mundra-Delhi Pipeline is including throughputs of branchlines viz. Awa Salawas Pipeline & Palanpur Vadodara Pipeline</p> <p>(2) Throughput of Ramanmandi Bahadurgarh Pipeline is including throughput of branchlines viz. Bahadurgarh-Tikrikalan Pipeline & Rewari-Kanpur Pipeline.</p> <p>(3) Lube Oil Pipeline and ATF Pipeline from Mumbai Refinery to Mazgaon Terminal and Mumbai Airport are Speciality Product Pipelines.</p> <p>(4) Throughput of UCSPL includes both HPCL & BPCL volumes.</p> <p>(5) Throughput of Vizag-Vijaywada-Secunderabad pipeline includes throughput of branchline Vijaywada Dharmapuri (VDPL) Pipeline</p> <p>(6) Throughput of Mangalore-Hassan-Mysore-Bangalore pipeline includes throughput of branchline Hassan-Chertapalli LPG Pipeline</p> <p>(7) Throughput of RBPL includes throughput of branchline BHPL.</p> <p>Petronet MHB</p> <p>(1) Petronet MHB JV- ONGC & HPCL 26% each, Petronet- 12%, Public- 36%.</p>						

Chapter-6

Sales



Chapter Highlights

Consumption

- Overall consumption of POL for the period Apr-Sept'24 in the Country was recorded highest ever volumes of 117.7 MMT with a growth of 3.0% over the previous financial year. Growth in the petroleum products is driven by growth in MS at 7.2%, ATF at 10.4% and Lubes at 17.6%.
- During the last decade (H1 2014-15 to H1 2024-25), a CAGR of 7.8% was achieved in MS consumption, CAGR of 5.8% in LPG, CAGR of 4.5% in ATF and CAGR of 2.6% in HSD. Rising Private vehicle ownership, increased economic activities and domestic consumption of cleaner fuel for cooking is driving up the demand for MS, HSD, ATF and LPG are some of the factors driving up the demand for these products.
- The sales of Aviation Turbine Fuel (ATF) continued its growth journey during Apr-24 to Sept-24 with a growth of 12.0%.
- The country achieved Ethanol Blending in Petrol of 12.1% during the ESY Dec'22-Oct'23. Blending percentage has been maintained at 13.8% during current ESY 2023-24 (Nov-23 to Sept-24). As on 30.09.2024, 16,756 PSU RO's out of 83,190 total PSU RO's are dispensing E-20 MS.
- The Retail network in the Country are close to 92,000 marks as on 30.09.2024 with actual No of RO at 91,949 . Rural RO's also reached to 26,150 as on the same date.
- Alternate fuels are available at 24,100 Nos. of RO's as on 30.09.2024 and EV charging infrastructure is available at 18,782 RO's
- Direct Sales HSD volumes reached to 12% of total HSD sales for H1 FY 2024-25
- International aviation contributed to 27% of the total ATF volumes of 4.4 MMT during Apr-Sept'24, against 24% in the corresponding period of the previous year with total volumes of 4.0 MMT.
- 312 depots and terminals spread throughout the country ensure uninterrupted supply of fuels to consumers.

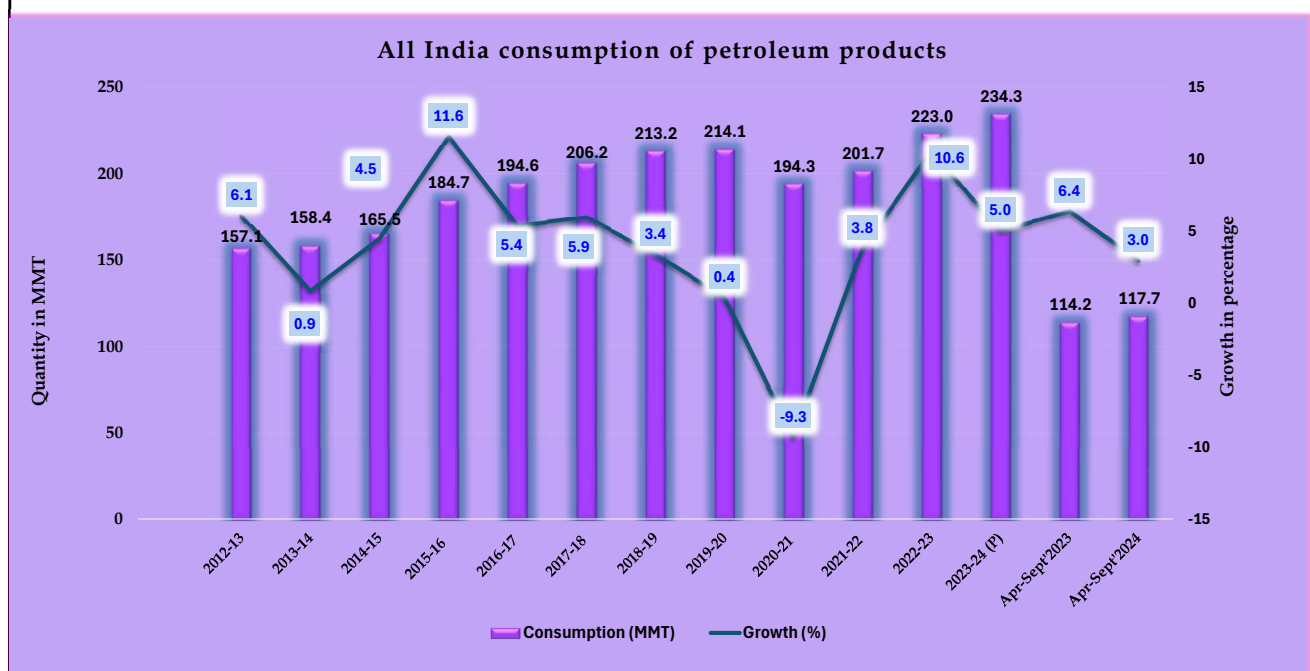
Table 6.1 : Consumption of Petroleum Products

(MMT)

Products	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24 (P)	Apr-Sep 2023-24 (P)	Apr-Sep 2024-25 (P)
LPG	15.6	16.3	18.0	19.6	21.6	23.3	24.9	26.3	27.6	28.3	28.5	29.7	14.1	15.0
MS	15.7	17.1	19.1	21.8	23.8	26.2	28.3	30.0	28.0	30.8	35.0	37.2	18.5	19.8
Naphtha	12.3	11.3	11.1	13.3	13.2	12.9	14.1	14.3	14.1	13.2	12.2	13.8	6.6	6.7
ATF	5.3	5.5	5.7	6.3	7.0	7.6	8.3	8.0	3.7	5.0	7.4	8.2	4.0	4.4
SKO	7.5	7.2	7.1	6.8	5.4	3.8	3.5	2.4	1.8	1.5	0.5	0.5	0.3	0.2
HSD	69.1	68.4	69.4	74.6	76.0	81.1	83.5	82.6	72.7	76.7	85.9	89.6	44.0	44.4
LDO	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.6	0.9	1.0	0.7	0.8	0.4	0.4
Lubes	3.2	3.3	3.3	3.6	3.5	3.9	3.7	3.8	4.1	4.5	3.7	4.1	2.0	2.3
FO/LSHS	7.7	6.2	6.0	6.6	7.2	6.7	6.6	6.3	5.6	6.3	7.0	6.5	3.3	3.3
Bitumen	4.7	5.0	5.1	5.9	5.9	6.1	6.7	6.7	7.5	7.8	8.0	8.8	4.0	3.8
Petcoke	10.1	11.8	14.6	19.3	24.0	25.7	21.3	21.7	15.6	14.3	18.3	20.3	9.7	10.7
Others*	5.5	6.0	5.9	6.4	6.6	8.3	11.7	11.4	12.8	12.3	15.8	14.7	7.4	6.6
All India	157.1	158.4	165.5	184.7	194.6	206.2	213.2	214.1	194.3	201.7	223.0	234.3	114.2	117.7
Growth (%)	6.1	0.9	4.5	11.6	5.4	5.9	3.4	0.4	-9.3	3.8	10.6	5.0	6.4	3.0

Note: *Others include sulphur, propylene, propane, reformat, butane, MTO (Mineral Turpentine oil) etc

Source: Oil Companies, Directorate General of Commercial Intelligence and Statistics (DGCIS) & online SEZ data (included from 2017-18 onwards). (Oil company sales+Private imports+SEZ sales to DTA= Consumption);

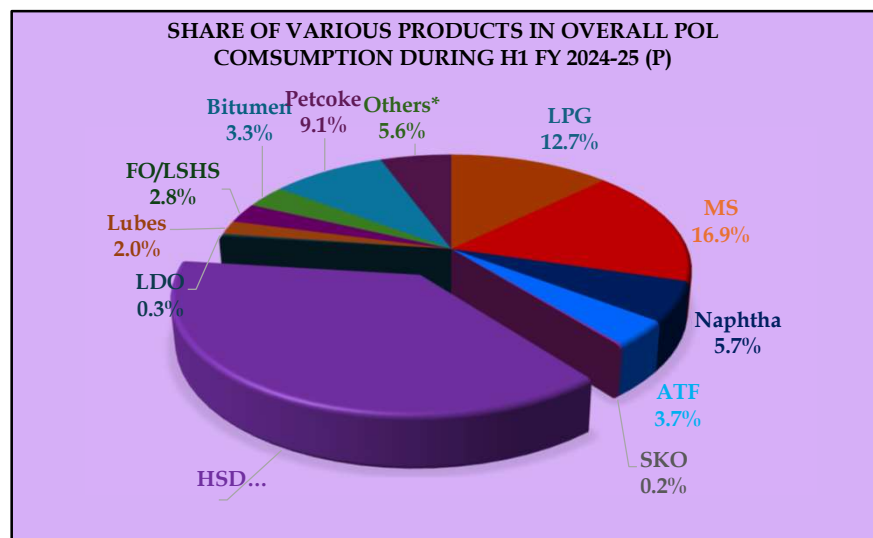
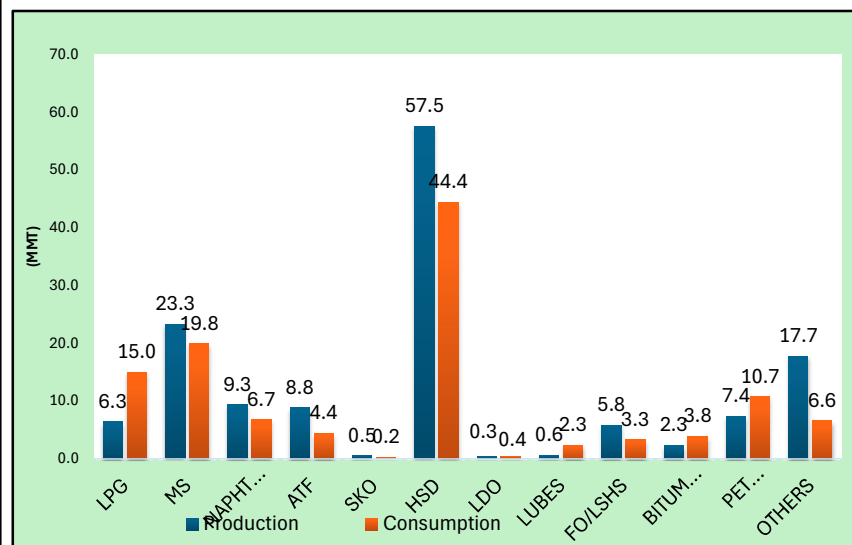


The consumption of petroleum products has gone up from 81.2 MMT in H1 FY 2014-15 to 117.7 MMT in H1 FY 2024-25. The compounded annual growth rate (CAGR) of total POL consumption in the last decade has been 3.8%. The consumption based CAGR was highest in 'Others category', marking 8.6% among POL products in the last decade followed by MS (7.8%), LDO (8.2%), LPG (5.8%), Bitumen (5.4%), Petcoke (4.5%), ATF (4.5%), HSD (2.6%), Lubes (2.8%), Naphtha (1.9%) and FO/LSHS (1%). Negative CAGR in the last decade was observed in the consumption of SKO (24.8%).

Table 6.2 : Consumption growth of petroleum products

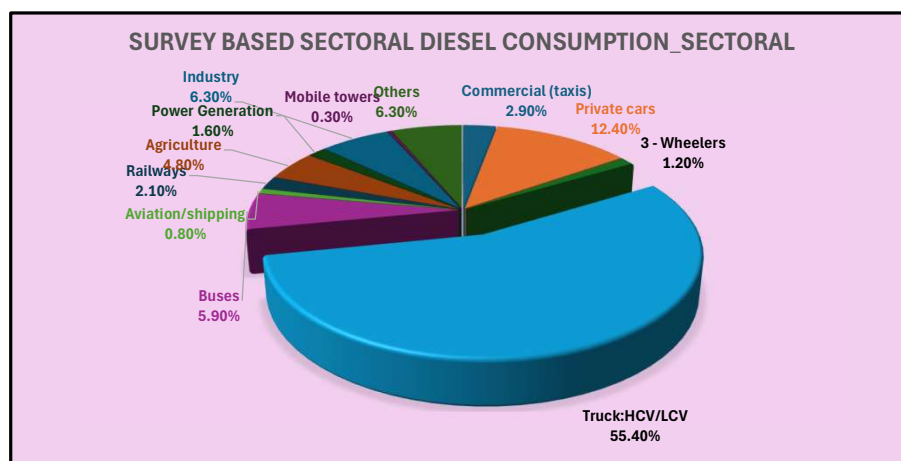
Products	(Growth in Percentage)														
	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24 (P)	Apr-Sep 2023-24 (P)	Apr-Sep 2024-25 (P)	CAGR calculated H1 FY14-15 vs 24-25
LPG	1.6	4.4	10.5	9.0	10.1	8.0	6.7	5.7	4.7	2.5	0.9	4.1	6.3	4.1	5.8
MS	5.0	8.8	11.4	14.5	8.8	10.1	8.1	6.0	-6.7	10.3	13.4	6.4	8.1	6.4	7.8
Naphtha	9.5	-8.0	-2.0	19.8	-0.2	-2.7	9.6	1.0	-1.2	-6.1	-8.2	13.6	1.6	13.6	1.9
ATF	-4.8	4.4	4.0	9.4	11.7	9.1	8.7	-3.7	-53.8	35.4	47.1	12.0	4.0	12.0	4.5
SKO	-8.8	-4.5	-1.1	-3.7	-20.9	-28.8	-10.0	-30.7	-25.0	-16.9	-67.2	-2.1	-23.2	-2.1	-24.8
HSD	6.7	-1.0	1.5	7.5	1.8	6.6	3.0	-1.1	-12.0	5.4	12.1	4.3	2.7	4.3	2.6
LDO	-3.9	-3.1	-5.4	11.5	10.3	16.7	14.2	5.0	36.2	19.0	-28.8	7.9	7.1	7.9	8.2
Lubes	21.4	3.4	0.1	7.9	-2.8	11.9	-5.6	4.5	6.9	10.8	-17.6	9.3	2.5	9.3	2.8
FO/LSHS	-17.7	-18.6	-4.4	11.3	7.8	-6.0	-2.3	-4.0	-11.3	12.1	11.1	-6.2	0.3	-6.2	1.0
Bitumen	0.8	7.1	1.3	17.1	0.0	2.5	10.2	0.2	12.0	3.9	2.9	9.5	7.0	9.5	5.4
Petcoke	65.1	16.0	23.8	32.6	24.2	7.1	-16.8	1.7	-28.1	-8.6	28.7	10.8	5.5	10.8	4.5
Others	11.9	8.1	-1.4	8.2	3.8	26.5	40.6	-3.0	12.6	-3.9	28.6	-7.1	9.2	-7.1	8.6
All India	6.1	0.9	4.5	11.6	5.4	5.9	3.4	0.4	-9.3	3.8	10.6	5.0	6.4	3.0	3.8

Share of various products in overall POL consumption (H1 FY 2024-25) (P)



End-use sectoral analysis of POL domestic consumption

Sr. No	End Use Sectors	% of total Sales*
(I)	(II)	(III)
a	Commercial (taxis)	2.90
b	Private cars	12.40
c	3 - Wheelers	1.20
d	Truck:HCV/LCV	55.40
e	Buses	5.90
2	Aviation/shipping	0.80
3	Railways	2.10
4	Agriculture	4.80
	Power Generation	1.60
	Industry	6.30
5	Mobile towers	0.30
6	Others	6.30
	Total	100.00

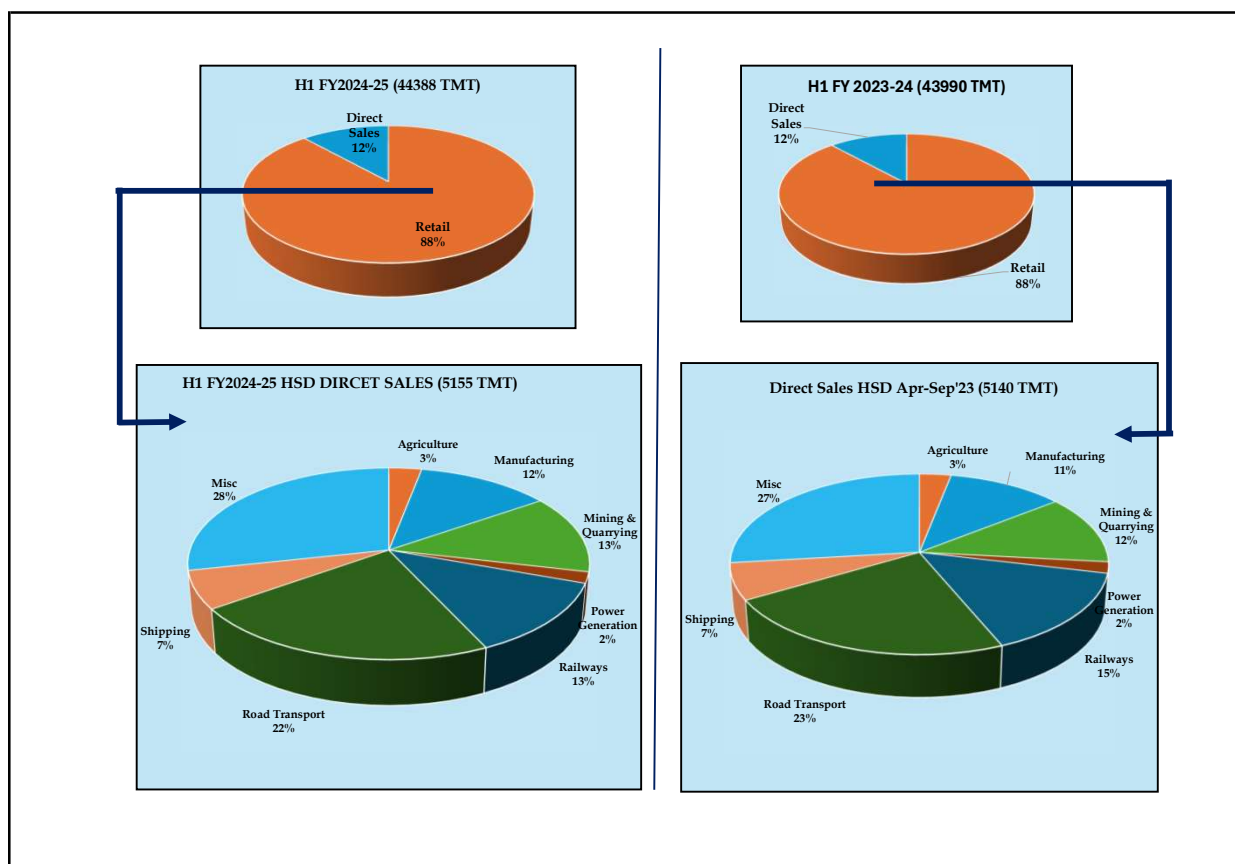


*Figures include consumption through retail and direct imports

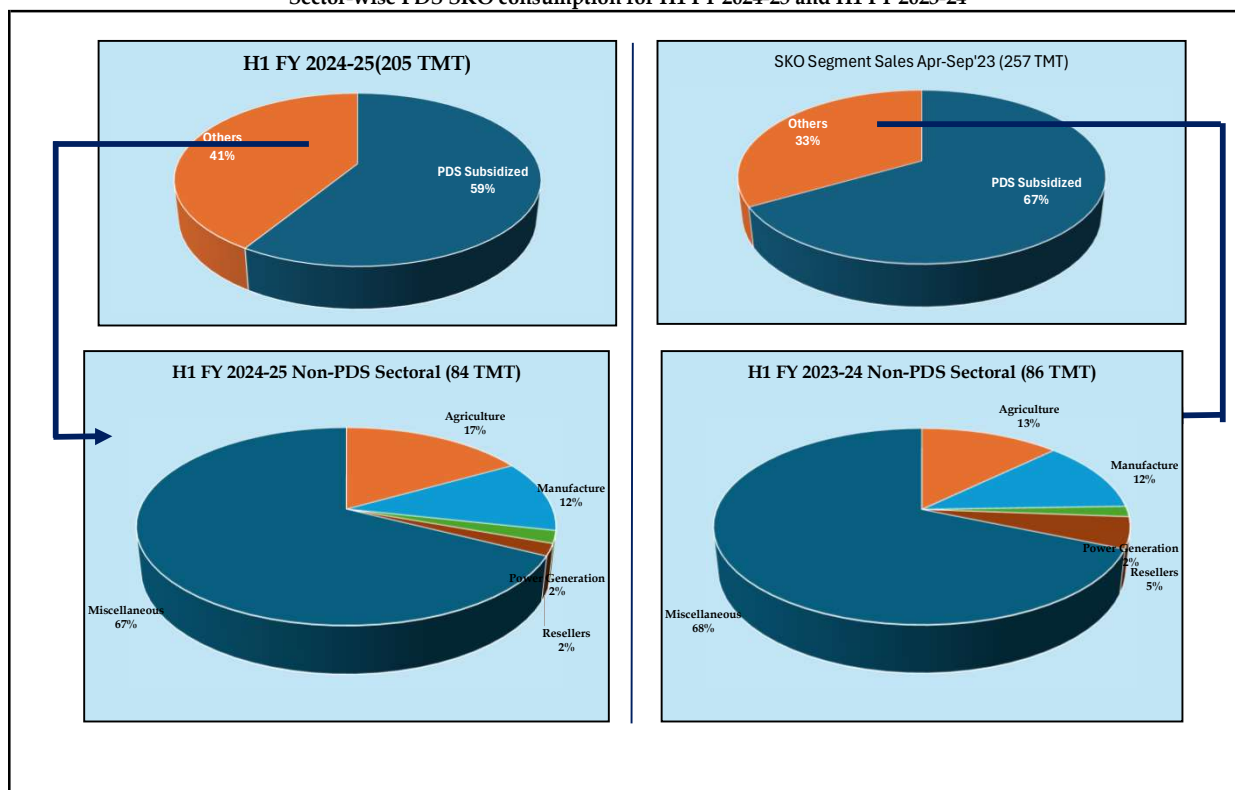
End use sector wise break up as per PPAC survey and direct & retail sales as reported by oil companies during October 2020 to September 2021



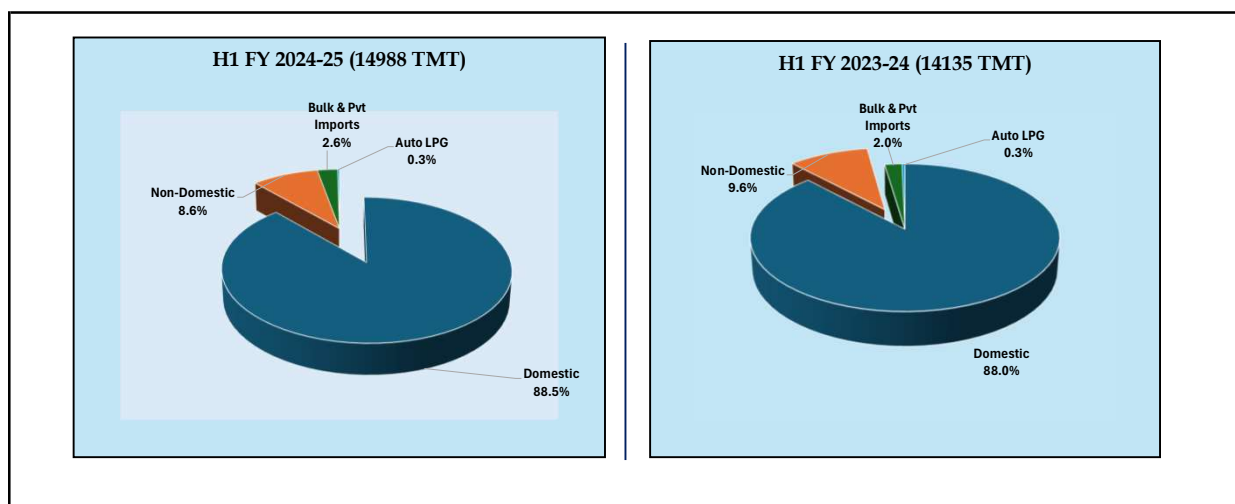
Sector-wise HSD consumption for H1 FY 2024-25 & YoY comparison



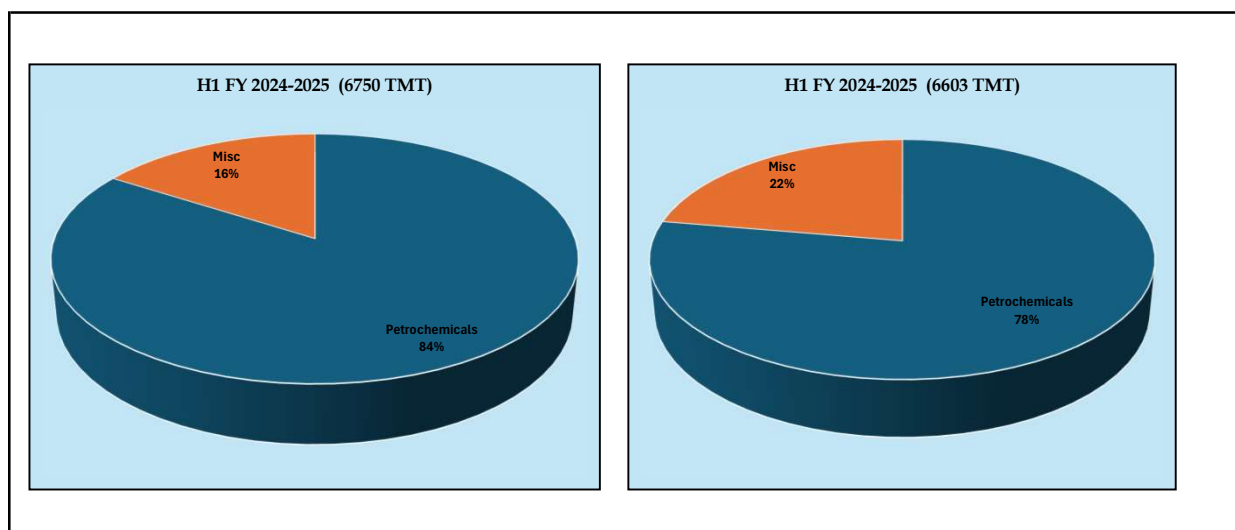
Sector-wise PDS SKO consumption for H1 FY 2024-25 and H1 FY 2023-24



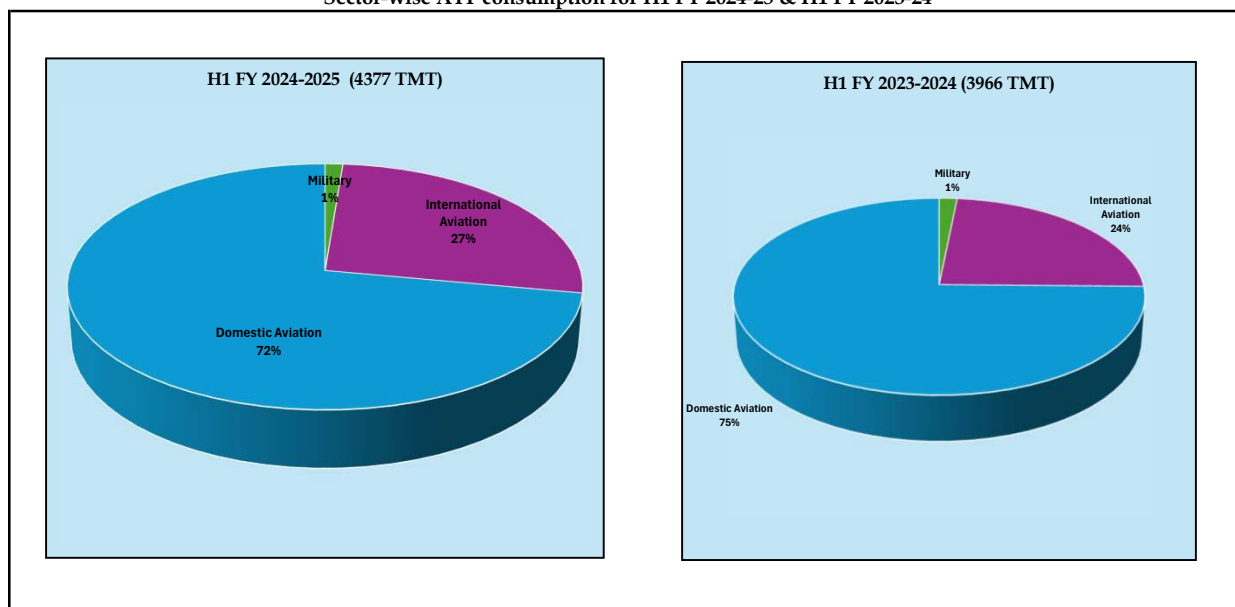
Sector-wise LPG consumption for H1 FY 2024-25 and H1 FY 2023-24



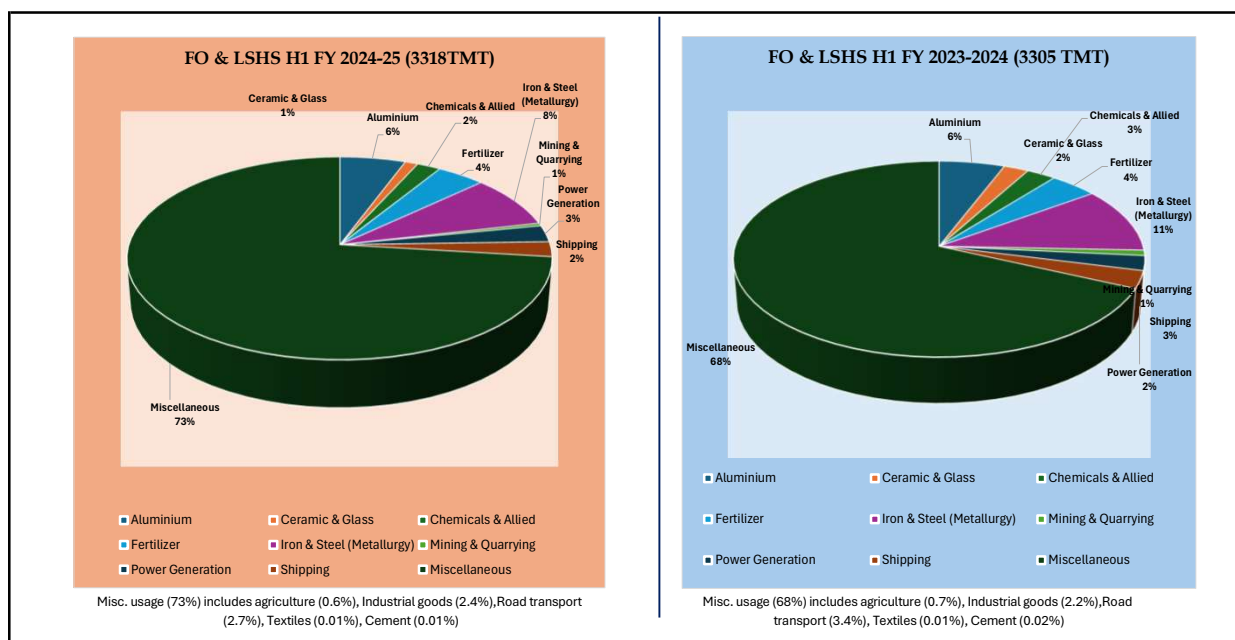
Sector-wise Naphtha consumption for H1 FY 2024-25 and H1 FY 2023-24



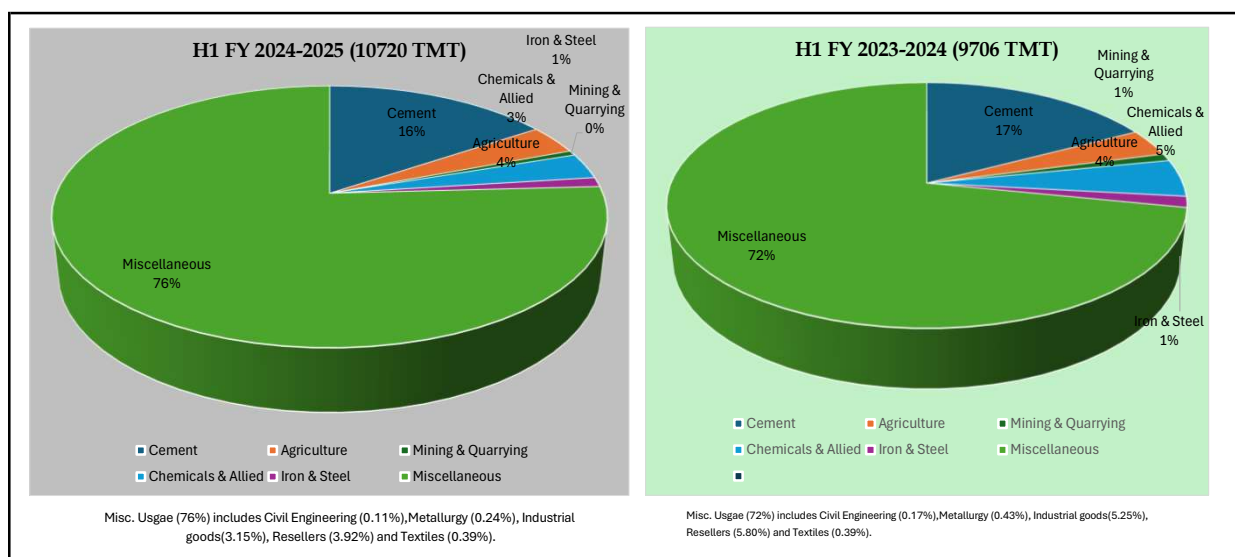
Sector-wise ATF consumption for H1 FY 2024-25 & H1 FY 2023-24



Sector-wise FO+ LSHS consumption for H1 FY 2024-25 and H1 FY 2023-24



Sector-wise Petcoke consumption for H1 FY 2024-25 and H1 FY 2023-24



Sector-wise LDO consumption for H1 FY 2024-25 and H1 FY 2023-24

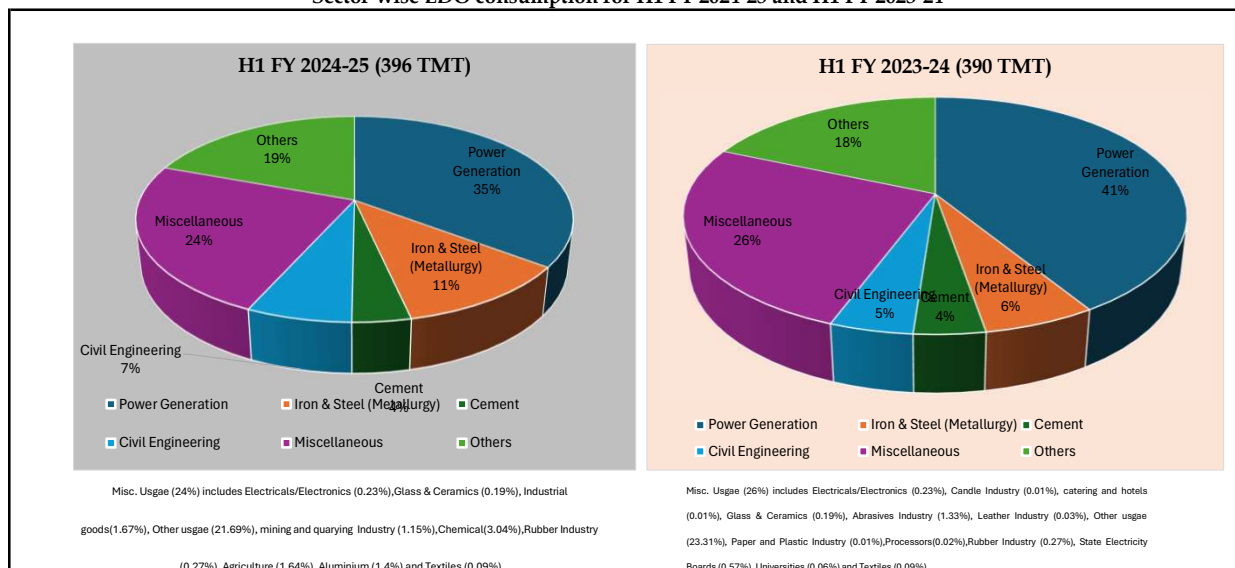


Table 6.3 (A) : State-wise Sales of Petroleum Products consumption: H1 FY 2024-25 (P)												
State/UT	LPG		Naphtha		MS		SKO		HSD		ATF	
	Sales	Per capita sales (Kg)	Sales	Per capita sales (Kg)	Sales	Per capita sales (Kg)	Sales	Per capita sales (Kg)	Sales	Per capita sales (Kg)	Total sales	Per capita sales (Kg)
Chandigarh	26.0	20.8	0.00	0.00	65.5	52.5	0.05	0.037	133.1	106.7	13.3	10.6
Delhi	366.6	16.8	0.00	0.00	526.6	24.1	0.07	0.003	296.0	13.5	1154.9	52.8
Haryana	485.9	15.8	1767.25	57.58	721.8	23.5	0.24	0.008	2186.7	71.2	12.5	0.4
Himachal Pradesh	100.7	13.4	0.00	0.00	177.2	23.6	0.95	0.127	406.8	54.1	1.8	0.2
Jammu and Ladakh	115.7	8.4	0.00	0.00	215.5	15.7	11.20	0.815	484.3	35.3	48.8	3.6
Punjab	6.1	20.2	0.00	0.00	13.9	45.9	34.63	114.675	77.0	254.9	3.8	12.5
Rajasthan	474.4	15.3	0.00	0.00	632.6	20.4	0.06	0.002	1709.8	55.2	99.1	3.2
Uttar Pradesh	802.0	9.8	0.00	0.00	1029.3	12.5	0.94	0.011	2809.9	34.2	91.7	1.1
Uttarakhand	2049.2	8.6	0.00	0.00	2409.6	10.1	0.54	0.002	5057.2	21.2	158.9	0.7
SUB TOTAL NORTH	173.0	14.7	0.00	0.00	247.6	21.0	1.20	0.102	413.4	35.1	15.5	1.3
Andaman & Nicobar Islands	4599.7	10.5	1767.25	4.02	6039.6	13.8	49.9	0.114	13574.1	30.9	1600.2	3.6
Bihar	6.8	16.8	0.00	0.00	10.2	25.3	0.02	0.052	87.1	215.6	7.6	18.8
Jharkhand	850.8	6.6	0.00	0.00	580.8	4.5	3.10	0.024	1198.9	9.3	15.5	0.1
Odisha	219.0	5.5	2.35	0.06	374.2	9.3	1.39	0.035	984.0	24.5	23.0	0.6
West Bengal	368.2	7.9	0.06	0.00	562.4	12.1	2.54	0.054	1656.4	35.5	42.2	0.9
SUB TOTAL EAST	1076.9	10.8	366.70	3.68	674.7	6.8	100.49	1.008	1723.1	17.3	171.3	1.7
Arunachal Pradesh	2521.6	8.0	369.11	1.17	2202.3	7.0	107.5	0.340	5649.4	17.9	259.6	0.8
Assam	14.6	9.3	0.00	0.00	44.1	27.9	3.23	2.045	117.6	74.4	2.2	1.4
Manipur	299.3	8.3	155.72	4.31	353.4	9.8	2.18	0.060	592.8	16.4	63.7	1.8
Meghalaya	22.9	7.0	0.00	0.00	40.4	12.4	0.77	0.236	50.8	15.6	3.8	1.2
Mizoram	18.2	5.4	0.00	0.00	71.2	21.0	0.63	0.187	191.9	56.7	0.6	0.2
Nagaland	17.0	13.6	0.00	0.00	26.3	21.0	0.05	0.037	53.6	42.8	2.9	2.3
Sikkim	16.1	7.1	0.00	0.00	28.8	12.8	0.02	0.008	58.4	25.9	2.5	1.1
Tripura	10.9	15.6	0.00	0.00	14.8	21.2	4.07	5.840	42.1	60.4	0.2	0.2
SUB TOTAL NORTH EAST	32.4	7.7	0.00	0.00	34.0	8.1	1.93	0.460	50.6	12.1	8.7	2.1
Chhattisgarh	431.3	8.2	155.72	2.95	613.0	11.6	12.9	0.244	1157.7	21.9	84.6	1.6
Dadra & Nagar Haveli and Daman & Diu	192.3	6.3	0.00	0.00	431.4	14.1	1.49	0.049	1091.2	35.6	16.0	0.5
Goa	15.5	11.2	0.00	0.00	23.5	17.0	0.00	0.000	82.9	59.8	0.7	0.5
Gujarat	38.6	24.3	0.00	0.00	108.5	68.4	0.00	0.000	131.1	82.7	70.6	44.5
Madhya Pradesh	704.1	9.7	3514.36	48.37	1327.4	18.3	1.08	0.015	3474.9	47.8	178.4	2.5
Maharashtra	616.7	7.0	0.00	0.00	973.1	11.1	0.08	0.001	2062.0	23.4	56.1	0.6
SUB TOTAL WEST	1708.5	13.4	171.07	1.34	2140.6	16.8	1.47	0.012	4954.3	38.8	757.8	5.9
Andhra Pradesh	3275.8	10.2	3685.43	11.45	5004.5	15.5	4.1	0.013	11796.4	36.6	1079.6	3.4
Karnataka	653.7	12.2	9.74	0.18	794.2	14.9	0.88	0.017	1702.7	31.9	40.3	0.8
Kerala	1089.9	16.0	0.02	0.00	1512.7	22.2	5.71	0.084	4033.2	59.1	478.2	7.0
Lakshadweep	579.0	16.1	0.00	0.00	937.0	26.1	3.41	0.095	1169.5	32.5	283.7	7.9
Puducherry	0.4	6.1	0.00	0.00	0.7	10.9	0.00	0.000	10.1	146.2	0.2	2.4
Tamil Nadu	23.7	14.0	0.00	0.00	96.2	56.8	0.00	0.000	291.5	172.0	0.1	0.0
Telangana	1178.5	15.3	6.04	0.08	1769.2	22.9	20.36	0.264	3205.3	41.5	277.8	3.6
SUB TOTAL SOUTH	569.5	14.9	0.00	0.00	880.3	23.0	0.16	0.004	1777.3	46.4	271.5	7.1
All India	4094.7	14.9	15.80	0.06	5990.3	21.8	30.5	0.1	12189.5	44.3	1351.7	4.9
	14923.1	10.6	5993.3	4.27	19849.6	14.1	204.9	0.1	44367.1	31.6	4375.7	3.1
State wise highest/lowest per capita (only formajor products)												
Source: Oil companies; P-Provisional												
Note:												
1-Per capita sales figures are based on provisional sales figures for the period April 2024 - September 2024												
2-Population figures have been taken from table no.11 of 'Report of the Technical Group on Population Projections												
3- SKO includes both PDS & non PDS sales												

Table 6.3 (B): State-wise Sales of Petroleum Products consumption: H1 FY 2024-25 (P)

(Figures in TMT)														
State/UT	LDO		FO/LSHS		LUBES & GREASES		BITUMEN		PET COKE		OTHERS		TOTAL (All POL Products)*	
	Sales	Per capita sales (Kg)	Sales	Per capita sales (Kg)	Sales	Per capita sales (Kg)	Sales	Per capita sales (Kg)	Sales	Per capita sales (Kg)	Total sales	Per capita sales (Kg)	Total sales	Per capita sales (Kg)
Chandigarh	0.2	0.1	0.4	0.3	1.2	1.0	0.0	0.0	9.6	7.7	0.0	0.0	249.3	199.9
Delhi	0.0	0.0	0.0	0.0	4.6	0.2	0.0	0.0	0.0	0.0	3.7	0.2	2352.4	107.5
Haryana	5.4	0.2	22.9	0.7	23.8	0.8	111.5	3.6	0.0	0.0	72.1	2.3	5410.3	176.3
Himachal	0.1	0.0	6.3	0.8	4.7	0.6	42.9	5.7	266.0	35.4	5.4	0.7	1012.8	134.7
Jammu and	0.0	0.0	1.1	0.1	2.4	0.2	17.7	1.3	7.8	0.6	3.0	0.2	907.5	66.1
Ladakh	0.0	0.0	0.4	1.3	0.2	0.6	23.6	78.1	0.0	0.0	0.3	0.8	159.8	529.0
Punjab	3.6	0.1	65.0	2.1	19.8	0.6	46.4	1.5	274.5	8.9	35.2	1.1	3360.4	108.4
Rajasthan	15.6	0.2	49.8	0.6	25.1	0.3	149.9	1.8	669.5	8.1	37.3	0.5	5681.0	69.1
Uttar Pradesh	92.3	0.4	56.9	0.2	39.2	0.2	340.7	1.4	9.9	0.0	198.3	0.8	10412.7	43.6
Uttarakhand	0.0	0.0	35.7	3.0	8.2	0.7	24.3	2.1	7.1	0.6	4.5	0.4	930.5	78.9
SUB TOTAL NORTH	117.1	0.3	238.5	0.5	129.2	0.3	757.0	1.7	1244.3	2.8	359.7	0.8	30476.6	69.4
Andaman & Nicobar Islands	0.0	0.0	0.0	0.0	0.3	0.9	2.2	5.6	0.0	0.0	0.0	0.0	114.3	282.9
Bihar	10.9	0.1	18.3	0.1	6.7	0.1	110.1	0.9	117.3	0.9	8.4	0.1	2920.7	22.6
Jharkhand	25.3	0.6	54.6	1.4	17.9	0.4	136.0	3.4	20.1	0.5	11.6	0.3	1869.4	46.6
Odisha	27.3	0.6	440.2	9.4	14.7	0.3	56.8	1.2	329.0	7.1	118.5	2.5	3618.4	77.5
West Bengal	24.4	0.2	157.1	1.6	51.1	0.5	80.4	0.8	158.1	1.6	291.8	2.9	4876.1	48.9
SUB TOTAL EAST	87.8	0.3	670.2	2.1	90.8	0.3	385.5	1.2	624.5	2.0	430.4	1.4	13398.9	42.4
Arunachal Pradesh	0.0	0.0	0.0	0.0	0.2	0.1	6.9	4.4	0.0	0.0	0.1	0.1	188.9	119.6
Assam	1.0	0.0	2.4	0.1	27.5	0.8	5.7	0.2	73.1	2.0	21.6	0.6	1598.5	44.2
Manipur	0.0	0.0	0.0	0.0	0.1	0.0	1.3	0.4	0.0	0.0	0.1	0.0	120.1	36.8
Meghalaya	0.0	0.0	0.1	0.0	0.5	0.1	2.7	0.8	0.4	0.1	0.0	0.0	286.2	84.5
Mizoram	0.0	0.0	0.1	0.0	0.1	0.1	0.6	0.5	0.0	0.0	0.0	0.0	100.6	80.4
Nagaland	0.0	0.0	0.0	0.0	0.2	0.1	0.3	0.1	0.0	0.0	0.1	0.0	106.5	47.2
Sikkim	1.0	1.4	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	73.1	104.9
Tripura	0.0	0.0	0.0	0.0	0.6	0.1	2.0	0.5	0.0	0.0	0.0	0.0	130.2	31.0
SUB TOTAL NORTH EAST	2.0	0.0	2.7	0.1	29.4	0.6	19.5	0.4	73.4	1.4	21.9	0.4	2604.1	49.3
Chhattisgarh	23.2	0.8	80.3	2.6	12.0	0.4	63.1	2.1	114.8	3.7	20.4	0.7	2046.2	66.8
Dadra & Nagar Haveli and Daman & Diu	1.7	1.2	45.9	33.1	81.7	58.9	1.1	0.8	0.0	0.0	3.5	2.5	256.4	184.8
Goa	0.9	0.5	14.6	9.2	2.6	1.6	11.4	7.2	1.6	1.0	1.9	1.2	381.7	240.8
Gujarat	26.6	0.4	518.8	7.1	54.4	0.7	251.4	3.5	464.3	6.4	2106.3	29.0	12622.0	173.7
Madhya Pradesh	13.4	0.2	32.9	0.4	22.5	0.3	100.3	1.1	433.7	4.9	102.1	1.2	4413.0	50.2
Maharashtra	64.3	0.5	393.2	3.1	246.9	1.9	244.2	1.9	58.0	0.5	327.4	2.6	11067.6	86.7
SUB TOTAL WEST	129.9	0.4	1085.6	3.4	419.9	1.3	671.5	2.1	1072.4	3.3	2561.7	8.0	30786.8	95.6
Andhra Pradesh	16.7	0.3	275.1	5.2	16.4	0.3	100.9	1.9	260.8	4.9	124.7	2.3	3996.0	74.8
Karnataka	7.0	0.1	153.1	2.2	32.0	0.5	42.0	0.6	342.2	5.0	73.1	1.1	7769.2	113.8
Kerala	4.1	0.1	204.4	5.7	20.9	0.6	63.3	1.8	6.0	0.2	117.5	3.3	3388.7	94.2
Lakshadweep	0.0	0.0	0.0	0.0	0.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	11.5	166.4
Puducherry	0.5	0.3	19.4	11.5	1.2	0.7	0.0	0.0	0.7	0.4	6.1	3.6	439.4	259.3
Tamil Nadu	13.2	0.2	216.9	2.8	88.8	1.2	301.2	3.9	511.1	6.6	301.5	3.9	7889.8	102.2
Telangana	11.8	0.3	44.9	1.2	22.1	0.6	50.7	1.3	70.1	1.8	19.1	0.5	3717.3	97.0
SUB TOTAL SOUTH	53.3	0.2	913.8	3.3	181.4	0.7	558.2	2.0	1190.9	4.3	641.9	2.3	27212.0	99.0
All India**	390.2	0.3	2910.8	2.1	850.8	0.6	2391.8	1.7	4205.6	3.0	4015.6	2.9	104478.4	74.4

^ Others include sulfur, propylene, propane, reformate, LABS, CBFS, butane, MTO etc.

* Total (all product) sales includes all petroleum oil and lubricants **All India domestic sales figures are including private imports & !

State wise highest/lowest per capita

Source: Oil companies; P-Provisional

Note:

1-Per capita sales figures are based on provisional sales figures for the period

2-Population figures have been taken from table no.11 of 'Report of the Technical Group'

3- SKO includes both PDS & non PDS sales

Table 6.4 (A) : All Products Annual Industry Sales-Region & State wise							
(Figures in TMT)							
STATE/UT	2019-20	2020-21	2021-22	2022-23	2023-24(P)	Apr-Sep 2023-24(P)	Apr-Sep 2024-25(P)
REGION - NORTH							
Chandigarh	435.9	312.0	369.5	414.8	467.9	228.8	249.3
Delhi	4621.4	2911.3	3405.0	4322.0	4516.1	2218.4	2352.4
Haryana	10222.8	9853.0	10546.3	9453.7	10495.8	5223.7	5410.3
Himachal Pradesh	1693.5	1527.8	1924.1	2129.7	2043.3	1034.8	1012.8
Jammu & Kashmir	1371.7	1300.8	1500.0	1667.9	1776.3	893.9	907.5
Ladakh	128.3	140.6	158.9	175.7	206.4	150.0	159.8
Punjab	7113.9	5964.0	6578.6	6559.8	6884.1	3473.1	3360.4
Rajasthan	10920.6	9179.4	10242.3	10770.1	11256.7	5537.9	5681.0
Uttar Pradesh	18407.2	18090.2	18791.1	19400.5	20574.7	9944.9	10412.7
Uttarakhand	1655.7	1533.6	1619.1	1761.4	1870.2	916.4	930.5
Region Total	56571.0	50812.8	55134.8	56655.6	60091.5	29622.0	30476.6
Region - North East							
Arunachal Pradesh	263.3	275.8	302.1	345.9	374.7	171.7	188.9
Assam	2823.3	2710.0	2923.1	3102.6	3197.1	1548.6	1598.5
Manipur	254.7	236.7	254.0	313.9	249.9	112.5	120.1
Meghalaya	550.3	409.3	472.6	561.5	619.8	288.6	286.2
Mizoram	140.9	130.4	146.0	174.9	197.8	89.7	100.6
Nagaland	171.6	162.5	190.8	203.0	218.6	100.4	106.5
Sikkim	130.1	108.1	129.7	151.6	151.4	77.1	73.1
Tripura	231.8	229.8	237.3	249.3	268.8	127.2	130.2
Region Total	4566.0	4262.7	4655.6	5102.6	5278.0	2515.8	2604.1
Region - East							
Andaman & Nicobar	217.1	171.5	189.8	220.4	222.1	107.0	114.3
Bihar	5396.9	5518.3	5362.9	5571.7	5772.7	2876.1	2920.7
Jharkhand	3416.4	3139.3	3245.8	3380.7	3605.6	1751.3	1869.4
Odisha	6029.6	5926.7	6154.4	6642.7	7418.3	3539.7	3618.4
West Bengal	9308.5	8490.7	8681.0	8896.6	9598.4	4608.3	4876.1
Region Total	24368.5	23246.5	23633.9	24712.1	26617.1	12882.4	13398.9
Region - West							
Chhattisgarh	3667.0	3420.8	3598.2	4156.2	4285.5	2078.4	2046.2
Dadra & Nagar Haveli And Daman & Diu	570.4	541.6	522.1	535.8	499.5	240.1	256.4
Goa	789.9	555.6	680.1	778.5	833.8	394.2	381.7
Gujarat	22535.6	21940.1	24220.7	25705.1	24646.2	12027.3	12622.0
Madhya Pradesh	7860.0	7283.3	7533.9	8346.0	8796.7	4247.8	4413.0
Maharashtra	20796.8	17849.4	19050.5	20950.7	22030.1	10600.2	11067.6
Region Total	56219.7	51590.8	55605.6	60472.3	61091.9	29587.9	30786.8
Region - South							
Andhra Pradesh	7699.3	7266.3	7552.6	8036.9	8163.1	4013.6	3996.0
Karnataka	13067.4	11121.4	12479.3	15009.4	15421.0	7471.2	7769.2
Kerala	6533.5	5461.3	5901.7	6879.1	6891.7	3373.9	3388.7
Lakshadweep	16.5	17.7	17.6	18.1	21.5	10.5	11.5
Puducherry	516.7	412.8	531.4	820.2	859.8	432.2	439.4
Tamil Nadu	14115.6	12195.0	13067.7	14524.9	15491.2	7660.2	7889.8
Telangana	6952.5	6222.8	6859.3	7287.8	7567.3	3775.4	3717.3
Region Total	48901.4	42697.2	46409.5	52576.4	54415.6	26737.0	27212.0
All India Total*	214126.6	194295.3	201696.7	223008.3	234258.7	114227.6	117744.7
Source : Oil Companies; P:-provisional							
*Domestic sales figures are including private imports & SEZ sales data							

MS ANNUAL INDUSTRY SALES- REGION & STATE WISE

6.4 (B): MS/Petrol Annual Industry Sales-Region & State wise

(Figures in TMT)

STATE/UT	2019-20	2020-21	2021-22	2022-23	2023-24(P)	Apr-Sep 2023-24(P)	Apr-Sep 2024-25(P)
REGION - NORTH							
Chandigarh	126.8	91.4	110.0	114.4	119.8	60.6	65.5
Delhi	876.0	668.8	693.3	899.5	960.3	486.7	526.6
Haryana	1029.4	1011.6	1113.7	1203.3	1289.9	651.7	721.8
Himachal Pradesh	238.0	233.1	272.3	306.4	320.8	159.2	177.2
Jammu & Kashmir	300.4	273.1	316.3	354.7	380.2	196.6	215.5
Ladakh	3.6	12.5	16.8	20.3	21.7	13.4	13.9
Punjab	960.2	888.4	1015.8	1133.5	1182.9	600.8	632.6
Rajasthan	1657.0	1549.4	1621.5	1790.4	1896.4	959.9	1029.3
Uttar Pradesh	3319.9	3210.1	3696.1	4103.4	4368.6	2216.5	2409.6
Uttarakhand	326.3	293.0	338.4	410.2	438.7	222.7	247.6
Region Total	8837.6	8231.3	9194.3	10336.2	10979.4	5568.0	6039.6
Region - North East							
Arunachal Pradesh	51.8	50.6	55.4	66.7	78.0	36.6	44.1
Assam	445.1	431.9	510.0	611.2	668.1	326.2	353.4
Manipur	68.2	62.1	67.5	88.4	75.5	36.0	40.4
Meghalaya	99.8	81.3	95.5	124.6	135.5	66.1	71.2
Mizoram	31.2	26.0	26.0	35.4	42.7	20.1	26.3
Nagaland	39.2	31.9	40.9	51.2	58.5	28.2	28.8
Sikkim	21.1	15.8	19.4	26.5	28.9	14.1	14.8
Tripura	57.7	53.7	57.5	64.3	68.1	33.0	34.0
Region Total	814.1	753.2	872.3	1068.3	1155.3	560.4	613.0
Region - East							
Andaman & Nicobar	18.9	13.8	15.7	19.4	20.2	9.7	10.2
Bihar	852.1	848.9	926.7	1034.3	1081.7	550.2	580.8
Jharkhand	526.5	512.5	574.1	660.3	693.0	347.6	374.2
Odisha	834.5	782.4	863.9	992.5	1058.6	512.7	562.4
West Bengal	996.1	997.5	1076.9	1191.1	1259.1	619.3	674.7
Region Total	3227.9	3155.2	3457.3	3897.6	4112.6	2039.4	2202.3
Region - West							
Chhattisgarh	613.1	604.3	660.9	743.4	798.1	391.3	431.4
Dadra & Nagar Haveli And Daman & Diu	38.9	30.0	38.6	44.2	46.3	22.9	23.5
Goa	186.1	145.1	167.0	204.7	216.6	103.5	108.5
Gujarat	2066.8	1860.2	2134.0	2397.8	2546.1	1251.0	1327.4
Madhya Pradesh	1463.7	1461.1	1542.7	1705.3	1825.1	911.3	973.1
Maharashtra	3462.0	3014.4	3387.6	3815.2	4068.0	1996.3	2140.6
Region Total	7830.6	7115.1	7930.9	8910.6	9500.3	4676.3	5004.5
Region - South							
Andhra Pradesh	1278.4	1321.9	1419.4	1504.1	1571.4	772.7	794.2
Karnataka	2270.5	2123.9	2235.0	2648.1	2899.4	1418.7	1512.7
Kerala	1558.8	1371.1	1495.8	1747.6	1791.5	893.7	937.0
Lakshadweep			0.0	0.7	1.3	0.6	0.7
Puducherry	133.8	108.4	128.5	168.3	181.1	91.1	96.2
Tamil Nadu	2735.4	2580.6	2758.1	3152.9	3352.0	1672.1	1769.2
Telangana	1288.3	1199.5	1357.3	1541.4	1675.1	820.5	880.3
Region Total	9265.2	8705.4	9394.1	10763.3	11471.7	5669.5	5990.3
All India Total	29975.5	27960.3	30848.9	34976.0	37219.3	18513.6	19849.6

Source : Oil Companies; P:-provisional

*Domestic sales figures are including private imports & SEZ sales data

Source : Oil Companies; P:-provisional

6.4(C): HSD Annual Industry Sales-Region & State wise							
(Figures in TMT)							
STATE/UT	2019-20	2020-21	2021-22(P)	2022-23(P)	2023-24(P)	Apr-Sep 2023-24(P)	Apr-Sep 2024-25(P)
REGION - NORTH							
Chandigarh	197.7	126.6	171.0	210.6	244.6	118.9	133.1
Delhi	835.3	499.2	597.5	662.0	614.2	326.5	296.0
Haryana	4716.8	4434.9	4450.1	4205.9	4274.5	2173.9	2186.7
Himachal Pradesh	667.6	609.8	776.6	1002.8	795.2	424.4	406.8
Jammu & Kashmir	675.5	576.0	698.5	821.7	916.2	461.9	484.3
Ladakh	5.0	56.1	67.7	80.3	97.3	75.2	77.0
Punjab	3213.7	2741.7	3113.0	3264.8	3467.0	1778.1	1709.8
Rajasthan	5271.9	4336.8	4452.4	5073.8	5495.0	2730.1	2809.9
Uttar Pradesh	9484.9	9384.8	9496.3	9858.6	10307.6	5001.7	5057.2
Uttarakhand	744.0	657.2	699.7	779.7	815.3	402.4	413.4
Region Total	25812.4	23423.0	24522.7	25960.0	27026.8	13492.9	13574.1
Region - North East							
Arunachal Pradesh	161.5	174.9	192.5	227.0	244.5	111.4	117.6
Assam	1023.8	904.0	1123.0	1327.5	1312.2	612.8	592.8
Manipur	118.4	109.0	119.4	149.5	103.6	43.9	50.8
Meghalaya	355.9	281.1	331.1	397.4	438.4	202.5	191.9
Mizoram	74.9	68.9	82.7	100.7	111.2	49.9	53.6
Nagaland	90.4	88.9	101.1	109.9	121.9	54.1	58.4
Sikkim	78.0	60.4	73.6	90.8	89.9	46.3	42.1
Tripura	86.8	88.7	94.7	101.3	108.9	49.7	50.6
Region Total	1989.6	1775.7	2118.1	2504.0	2530.7	1170.6	1157.7
Region - East							
Andaman & Nicobar	157.2	132.4	141.9	162.8	160.8	79.7	87.1
Bihar	2366.7	2136.6	2055.1	2398.4	2366.9	1185.0	1198.9
Jharkhand	1968.4	1741.5	1660.6	1754.8	1888.5	936.4	984.0
Odisha	2661.7	2534.5	2593.6	2929.1	3286.8	1563.1	1656.4
West Bengal	3438.7	3007.9	2962.3	3496.9	3522.3	1691.4	1723.1
Region Total	10592.8	9553.0	9413.6	10742.0	11225.3	5455.5	5649.4
Region - West							
Chhattisgarh	1648.2	1607.7	1656.9	1930.3	2125.6	1027.6	1091.2
Dadra & Nagar Haveli And Daman & Diu	234.0	161.7	175.3	212.7	182.6	90.3	82.9
Goa	305.5	233.4	276.4	294.0	274.0	132.3	131.1
Gujarat	5607.6	5089.8	5780.1	6927.3	7178.7	3461.7	3474.9
Madhya Pradesh	3654.9	3368.9	3375.0	3884.5	4163.7	2009.9	2062.0
Maharashtra	9528.9	8031.2	8322.1	9291.0	9926.7	4750.5	4954.3
Region Total	20979.2	18492.8	19585.7	22539.9	23851.3	11472.3	11796.4
Region - South							
Andhra Pradesh	3833.6	3405.4	3432.2	3460.4	3639.5	1824.8	1702.7
Karnataka	6601.8	5574.5	6203.6	8042.0	8350.6	4052.9	4033.2
Kerala	2557.3	1922.7	2101.1	2485.6	2413.3	1179.2	1169.5
Lakshadweep	15.3	16.0	16.1	16.3	19.1	9.3	10.1
Puducherry	290.3	210.9	300.2	553.0	572.7	288.1	291.5
Tamil Nadu	6191.3	5006.9	5371.1	5999.3	6287.2	3174.0	3205.3
Telangana	3621.8	3253.3	3555.8	3528.8	3668.3	1855.2	1777.3
Region Total	23111.4	19389.7	20980.1	24085.4	24950.7	12383.5	12189.5
All India Total	82485.4	72634.2	76620.2	85831.2	89626.2	43989.6	44387.7
Source : Oil Companies; P:-provisional							
*Domestic sales figures are including private imports & SEZ sales data							

Table 6.4 (D) : Average MS/HSD Sales Per RO H1 2024-25 vs H1 2023-24

State/UT	MS						HSD						Average Retail Sales at RO	
	MS Sales H1 FY 2023-24 (TMT)	RO's as on 01.10.2023	Avg.Monthly MS Sales in KL per RO	MS Sales H1 FY 2024-25 (TMT)	RO's as on 01.10.2024	Avg.Monthly MS Sales in KL per RO	HSD Sales H1 FY 2023-24 (TMT)	RO's as on 01.10.2023	Avg.Monthly HSD Sales in KL per RO	HSD Sales H1 FY 2024-25 (TMT)	RO's as on 01.10.2024	Avg.Monthly HSD Sales in KL per RO	H1 FY 2023-24 (KL)	H1 FY 2024-25 (KL)
Chandigarh	60.57	48	296.76	65.5	48	320.67	118.90	48	499.53	133.1	48	559.19	796.30	879.86
Delhi	486.66	402	284.69	526.6	403	307.29	326.53	402	163.81	296.0	403	148.10	448.50	455.39
Haryana	651.66	3816	40.16	721.8	3962	42.85	2173.89	3816	114.88	2186.7	3962	111.30	155.04	154.15
Himachal Pradesh	159.19	712	52.58	177.2	765	54.46	424.36	712	120.20	406.8	765	107.24	172.78	161.70
Jammu and Kashmir	196.60	655	70.58	215.5	690	73.46	461.85	655	142.20	484.3	690	141.54	212.78	215.00
Ladakh	13.43	34	92.87	13.9	36	90.55	75.19	34	445.97	77.0	36	431.21	538.85	521.76
Punjab	600.81	4026	35.09	632.6	4104	36.25	1778.09	4026	89.07	1709.8	4104	84.02	124.16	120.27
Rajasthan	960.00	6443	35.04	1029.3	6756	35.83	2730.46	6443	85.46	2809.9	6756	83.88	120.50	119.70
Uttar Pradesh	2216.52	10955	47.58	2409.6	11601	48.85	5001.66	10955	92.07	5057.2	11601	87.91	139.65	136.76
Uttarakhand	222.68	815	64.25	247.6	861	67.63	402.39	815	99.57	413.4	861	96.84	163.82	164.47
SUB TOTAL NORTH	5568.12	27906	46.92	6039.6	29226	48.60	13493.31	27906	97.51	13574.1	29226	93.66	144.43	142.26
Andaman & Nicobar Islands	9.67	19	119.63	10.2	19	126.42	79.68	19	845.76	87.1	19	924.30	965.39	1050.72
Bihar	550.15	3551	36.43	580.8	3634	37.58	1184.96	3551	67.30	1198.9	3634	66.53	103.73	104.11
Jharkhand	347.63	1688	48.43	374.2	1782	49.38	936.40	1688	111.87	984.0	1782	111.35	160.30	160.73
Odisha	512.67	2373	50.81	562.4	2476	53.42	1563.10	2373	132.84	1656.4	2476	134.91	183.64	188.33
West Bengal	619.29	3028	48.10	674.7	3114	50.95	1691.40	3028	112.65	1723.1	3114	111.59	160.74	162.54
SUB TOTAL EAST	2039.40	10659	44.99	2202.3	11025	46.98	5455.54	10659	103.22	5649.4	11025	103.34	148.21	150.31
Arunachal Pradesh	36.64	197	43.74	44.1	227	45.64	111.44	197	114.08	117.6	227	104.43	157.82	150.08
Assam	326.18	1429	53.68	353.4	1490	55.77	612.81	1429	86.48	592.8	1490	80.23	140.16	136.00
Manipur	36.04	196	43.25	40.4	211	45.05	43.92	196	45.19	50.8	211	48.54	88.44	93.59
Meghalaya	66.13	288	54.00	71.2	299	56.04	202.50	288	141.80	191.9	299	129.41	195.80	185.45
Mizoram	20.11	97	48.76	26.3	106	58.38	49.86	97	103.66	53.6	106	101.91	152.42	160.29
Nagaland	28.23	175	37.94	28.8	196	34.58	54.09	175	62.34	58.4	196	60.11	100.28	94.68
Sikkim	14.09	67	49.46	14.8	71	48.92	46.26	67	139.23	42.1	71	119.49	188.69	168.42
Tripura	32.97	118	65.71	34.0	134	59.59	49.75	118	85.02	50.6	134	76.23	150.73	135.82
SUB TOTAL NORTH EAST	560.40	2567	51.34	613.0	2734	52.73	1170.64	2567	91.97	1157.7	2734	85.39	143.31	138.12
Chhattisgarh	391.34	2102	43.78	431.4	2193	46.26	1027.64	2102	98.59	1091.2	2193	100.35	142.37	146.60
Dadra & Nagar Haveli and Daman & Diu	22.85	66	81.43	23.5	67	82.52	90.36	66	276.10	82.9	67	249.50	357.52	332.02
Goa	103.51	135	180.32	108.5	141	180.95	132.32	135	197.67	131.1	141	187.58	377.99	368.52
Gujarat	1250.97	5704	51.58	1327.4	5968	52.31	3461.69	5704	122.39	3474.9	5968	117.42	173.96	169.73
Madhya Pradesh	911.34	5973	35.88	973.1	6244	36.65	2009.89	5973	67.86	2062.0	6244	66.60	103.74	103.25
Maharashtra	1996.29	8173	57.44	2140.6	8469	59.44	4750.50	8173	117.22	4954.3	8469	117.97	174.66	177.41
SUB TOTAL WEST	4676.30	22153	49.64	5004.5	23082	50.99	11472.41	22153	104.44	11796.4	23082	103.07	154.08	154.05
Andhra Pradesh	772.72	4375	41.54	794.2	4546	41.08	1824.82	4375	84.12	1702.7	4546	75.53	125.65	116.61
Karnataka	1418.71	6292	53.03	1512.7	6690	53.17	4052.95	6292	129.90	4033.2	6690	121.58	182.93	174.75
Kerala	893.72	2739	76.73	937.0	2859	77.08	1179.22	2739	86.82	1169.5	2859	82.49	163.56	159.57
Lakshadweep	0.63	4	37.27	0.7	4	44.07	9.29	4	468.38	10.1	4	508.64	505.65	552.71
Puducherry	91.12	193	111.03	96.2	200	113.14	288.09	193	301.02	291.5	200	293.96	412.05	407.10
Tamil Nadu	1672.10	7097	55.41	1769.2	7394	56.27	3174.00	7097	90.19	3205.3	7394	87.42	145.60	143.69
Telangana	820.54	3999	48.25	880.3	4189	49.42	1855.24	3999	93.56	1777.3	4189	85.56	141.81	134.98
SUB TOTAL SOUTH	5669.55	24699	53.98	5990.3	25882	54.43	12383.59	24699	101.11	12189.5	25882	94.98	155.09	149.41
All India	18513.77	87984	49.48	19849.6	91949	50.77	43975.49	87984	100.80	44367.1	91949	97.31	150.28	148.07

Table 6.5 : PDS SKO allocation v/s sales

(Figures in TKL)

State/UT	2020-21		2021-22		2022-23		2023-24 (P)		Apr-Sep 2023-24 (P)		Apr-Sep 2024-25 (P)	
	Alloc ⁿ	Sales	Alloc ⁿ	Sales	Alloc ⁿ	Sales	Alloc ⁿ	Sales	Alloc ⁿ	Sales	Alloc ⁿ	Sales
Chandigarh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delhi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Haryana	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Himachal Pradesh	9.8	6.8	6.9	2.3	4.0	0.1	2.0	0.0	1.0	0.0	0.0	0.0
Jammu & Kashmir	45.0	36.5	38.3	29.2	30.6	0.8	15.3	0.0	6.1	0.0	0.0	0.0
Ladakh	3.5	3.5	3.5	3.3	2.8	0.6	1.4	0.0	1.4	0.0	0.0	0.0
Punjab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rajasthan	14.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Uttar Pradesh	181.7	26.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Uttarakhand	2.2	0.4	0.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUB TOTAL NORTH	256.4	74.6	49.3	34.9	37.6	1.5	18.7	0.0	8.5	0.0	0.0	0.0
Andaman & Nicobar Islands	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0
Bihar	212.7	212.4	170.2	169.8	127.6	48.4	63.8	24.7	31.9	13.4	12.8	3.9
Jharkhand	90.0	83.2	72.0	68.9	54.0	18.9	27.0	10.6	13.5	5.9	5.4	1.8
Odisha	194.3	190.3	155.4	150.3	116.5	28.7	51.9	19.3	25.9	10.5	9.9	3.2
West Bengal	704.0	696.5	704.0	689.7	462.7	171.5	615.3	248.3	352.0	147.4	191.2	128.4
SUB TOTAL EAST	1201.1	1182.4	1101.6	1078.6	760.9	267.5	758.0	302.9	423.4	177.3	219.2	137.3
Arunachal Pradesh	4.8	3.7	3.3	2.9	3.0	0.2	2.1	0.0	1.0	0.0	0.0	0.0
Assam	155.6	153.1	124.5	117.3	99.6	12.7	49.8	10.3	24.9	6.2	5.4	2.4
Manipur	11.1	11.3	10.0	10.0	9.0	2.6	4.5	2.7	2.2	1.3	0.9	0.9
Meghalaya	18.9	17.9	17.0	16.0	15.3	2.5	10.7	3.0	5.4	1.7	1.5	0.8
Mizoram	3.2	3.2	2.9	2.7	2.6	0.1	1.3	0.1	0.6	0.1	0.1	0.1
Nagaland	8.6	8.4	7.7	7.7	7.0	1.1	4.8	1.0	2.4	0.5	0.5	0.0
Sikkim	2.3	2.1	22.7	22.5	1.8	0.2	0.9	0.2	0.5	0.1	0.1	0.0
Tripura	25.2	25.1	2.0	2.0	20.4	8.4	14.3	9.1	7.1	4.8	2.9	2.5
SUB TOTAL NORTH EAST	229.5	224.8	190.0	181.0	158.6	27.9	88.3	26.5	44.2	14.7	11.4	6.6
Chhattisgarh	58.3	56.1	46.6	43.9	34.9	9.7	16.6	6.3	8.3	3.7	3.3	1.8
Dadra & Nagar Haveli and Daman & Diu	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Goa [#]	0.4	0.4	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gujarat [§]	84.0	83.1	55.8	53.7	25.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0
Madhya Pradesh	213.4	187.1	160.0	116.8	120.0	3.4	32.9	0.4	16.4	0.3	0.2	0.0
Maharashtra	46.5	21.6	27.9	15.6	16.8	3.9	7.5	1.8	3.7	1.0	1.0	0.7
SUB TOTAL WEST	402.6	348.2	290.7	230.2	197.0	23.0	56.9	8.6	28.5	5.0	4.5	2.5
Andhra Pradesh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Karnataka	42.5	38.7	5.0	0.4	17.9	6.3	8.8	5.2	4.4	2.5	1.8	1.7
Kerala	37.1	37.1	29.8	17.8	15.6	15.6	7.8	7.7	3.9	3.9	1.6	0.1
Lakshadweep	0.8	0.9	25.9	25.9	0.4	0.0	0.3	0.0	0.3	0.0	0.0	0.0
Puducherry	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tamil Nadu	129.2	129.2	0.0	0.0	54.2	54.2	32.5	32.5	16.3	16.3	6.5	6.5
Telengana	16.0	2.9	90.4	90.4	1.5	0.0	0.4	0.0	0.2	0.0	0.0	0.0
SUB TOTAL SOUTH	225.5	208.8	151.7	135.1	89.6	76.1	49.8	45.5	25.1	22.7	9.8	8.3
All India	2315.0	2038.8	1783.3	1659.9	1243.6	396.1	971.8	383.5	529.6	219.8	245.0	154.8

Allocⁿ= Allocation

Source: MoP&NG

At the beginning of FY, 19 States & UTs (All 10 States & UTs under Northern Region, Arunachal Pradesh from Northeastern Region, Andaman & Nicobar Islands from Eastern Region 03 States & UTs under Western Region and 04 States & UTs under Southern Region have become kerosene free and nil allocation for FY 2024-25.

Further during the H1 Period of current financial year 2024-25, 03 State/UT are having Nil upliftment despite allocation and these states are Madhya Pradesh, Nagaland & Sikkim. Hence, total 22 states are with Nil sales of PDS SKO at the end of H1 period of 2024-25.

On an all-India basis, the drop in allocation in the last five years (till 2024-25) has been 91% due to voluntary surrender of PDS SKO allocation by some of the states in addition to Nil PDS SKO allocation to the above states. The allocation drop has been steepest in the Northern region (100%) followed by Western region (89%), Southern region (77%), Northeastern region (80%) & Eastern region (55%).

Overall, India based PDS SKO upliftment with respect to allocation during H1 period of FY 2024-25 was 63% where the upliftment was observed in Southern region 85%, Eastern region 63%, Northeastern region 58% & Western region 56%.

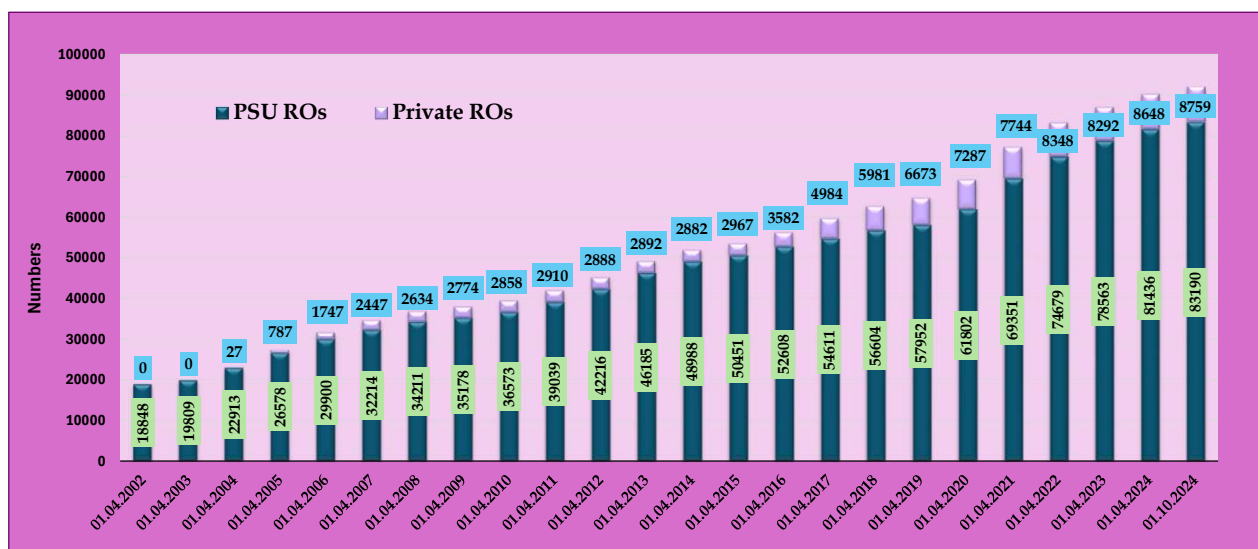
Overall lapse quota of PDS SKO on subsidized rate for the H1 FY 2024-25 was 36.9%

Table 6.6 : Oil industry Retail Outlets, SKO/ LDO Agencies

State/UT	Number of Retail Outlets (as on)						No of SKO/LDO Agencies (as on)					
	1.4.2020	1.4.2021	1.4.2022	1.4.2023	1.4.2024	01.10.2024	1.4.2020	1.4.2021	1.4.2022	1.4.2023	1.4.2024	01.10.2024
Chandigarh	42	47	47	48	50	48	12	12	12	11	11	11
Delhi	398	400	400	402	403	403	116	111	111	112	112	112
Haryana	3060	3412	3660	3769	3895	3962	141	139	139	150	150	150
Himachal Pradesh	494	563	638	701	725	765	26	26	26	25	25	25
Jammu and Kashmir	530	552	581	643	673	690	45	45	45	50	50	50
Ladakh	3	12	27	32	35	36	2	2	2	2	2	2
Punjab	3551	3772	3920	4000	4062	4104	237	237	237	232	232	232
Rajasthan	4967	5615	6028	6348	6611	6756	250	248	248	285	285	285
Uttar Pradesh	8210	9315	10162	10709	11309	11601	691	675	674	772	758	758
Uttarakhand	629	686	763	798	844	861	73	69	69	73	73	73
SUB TOTAL NORTH	21884	24374	26226	27450	28607	29226	1593	1564	1563	1712	1698	1698
Andaman & Nicobar Islands	16	16	19	19	19	19	2	2	2	2	2	2
Bihar	2968	3158	3341	3523	3610	3634	371	362	362	349	349	349
Jharkhand	1358	1535	1634	1681	1723	1782	87	87	87	110	109	109
Odisha	1894	2070	2246	2340	2420	2476	177	176	176	172	172	172
West Bengal	2523	2750	2894	3006	3066	3114	457	455	455	470	470	470
SUB TOTAL EAST	8759	9529	10134	10569	10838	11025	1094	1082	1082	1103	1102	1102
Arunachal Pradesh	116	152	178	195	201	227	33	33	33	30	30	30
Assam	979	1104	1312	1417	1459	1490	359	359	359	227	227	227
Manipur	136	160	178	195	206	211	36	36	36	40	40	40
Meghalaya	225	238	270	285	294	299	35	35	35	31	31	31
Mizoram	45	55	72	96	105	106	19	19	19	27	27	27
Nagaland	94	120	150	167	190	196	19	19	19	19	19	19
Sikkim	55	57	63	65	69	71	12	12	12	7	7	7
Tripura	79	94	108	114	131	134	40	40	40	48	48	48
SUB TOTAL NORTH EAST	1729	1980	2331	2534	2655	2734	553	553	553	429	429	429
Chhattisgarh	1462	1808	1969	2071	2137	2193	108	108	108	105	105	105
Dadra & Nagar Haveli and Daman & Diu	61	61	64	66	66	67	7	7	7	7	7	7
Goa	118	122	127	135	138	141	22	22	22	19	19	19
Gujarat	4573	5149	5502	5661	5825	5968	473	470	470	466	466	466
Madhya Pradesh	4230	4981	5566	5909	6112	6244	284	284	284	279	279	279
Maharashtra	6457	7048	7667	8045	8358	8469	766	752	752	786	786	786
SUB TOTAL WEST	16901	19169	20895	21887	22636	23082	1660	1643	1643	1662	1662	1662
Andhra Pradesh	3721	4047	4230	4345	4461	4546	394	384	384	328	328	328
Karnataka	4811	5500	5929	6199	6496	6690	315	311	309	376	376	376
Kerala	2238	2396	2559	2694	2820	2859	237	234	234	200	196	196
Lakshadweep	0	0	1	4	4	4	0	0	0	1	1	1
Puducherry	164	174	179	186	197	200	8	8	8	6	6	6
Tamil Nadu	5804	6355	6745	7018	7251	7394	465	458	458	392	392	392
Telangana	3078	3571	3798	3969	4119	4189	202	202	202	205	205	205
SUB TOTAL SOUTH	19816	22043	23441	24415	25348	25882	1621	1597	1595	1508	1504	1504
All India	69089	77095	83027	86855	90084	91949	6521	6439	6436	6414	6395	6395
Source: Oil companies (Includes dealers of private oil companies); P-Provisional												
<ul style="list-style-type: none"> On all India basis the percentage growth in the number of retail outlets from 01.04.2020 to 01.10.2024 has been 33.1%. The region wise growth is highest for the North Eastern region (58.1%), followed by Western region (36.6%), Northern region(33.5%) Southern region (30.6%) and whereas Eastern region growth rate was 25.9% 												
<ul style="list-style-type: none"> As many states have become kerosene free in the last five years and due to voluntary surrender of PDS kerosene quota by some others there has been a decline in the number of kerosene dealers in the country. 												

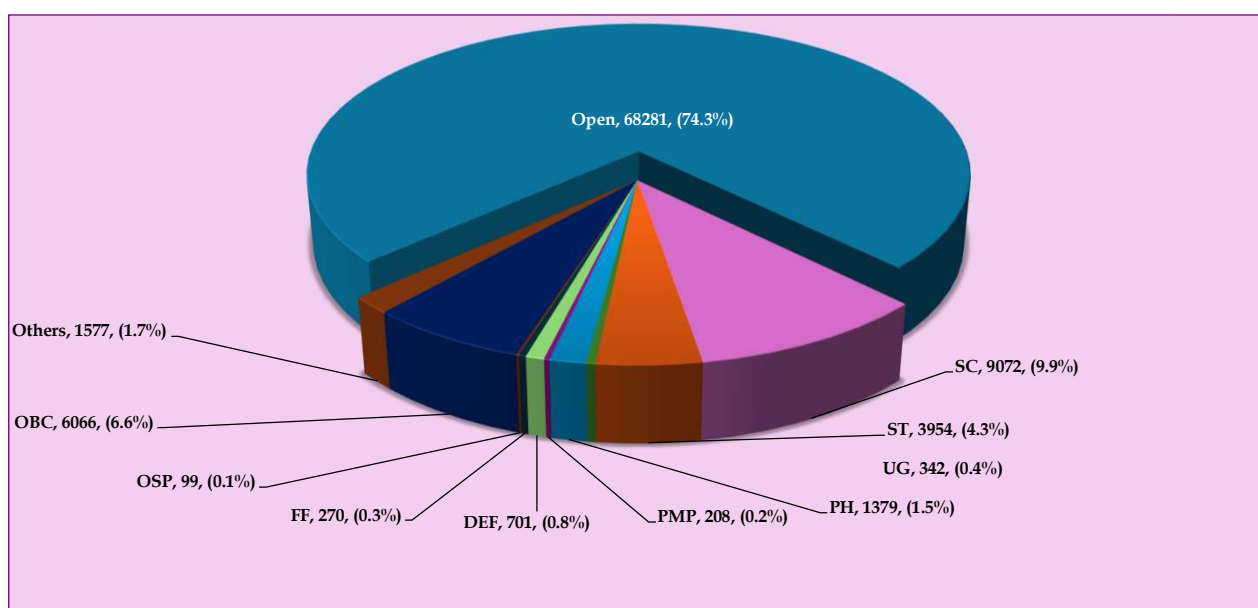


All India number of Retail Outlets in PSU and private category



On 1.04.2024 the number of public sector oil company owned retail outlets was 81436 out of a total of 90084 outlets on all India basis, whereas the number of retail outlets owned by private oil companies was 8648. Participation by private sector in retail outlet business started in FY 2004 with 27 retail outlets. As on 31.03.2024 it accounted for 10.0% of the total market representation.

Category wise Retail Outlets (Total 91949) as on 01.10.2024



Note:

(1) SC: Scheduled Caste; ST: Scheduled Tribe; UG: Unemployed Graduate; UEG: Unemployed Engineering Graduate.; PH: Physically Handicapped; DEF: Defence Category; FF: Freedom Fighter; OSP: Outstanding Sports Persons; OBC: Other Backward Classes; PMP: Para Military/Police/Govt. Personnel; Others: Includes Social Worker Category, Dealerships given on compassionate grounds/ under discretionary quota, 2/3 wheeler outlets and Company Owned and Operated outlets, Operation Vijay.

(2) Open category also includes private oil company retail outlets.

(3) OP: Open Category

Table 6.7: Industry Marketing Infrastructure as on 01.10.2024 (P)

Particulars	IOCL	BPCL	HPCL	RIL/RBML*	NEL**	Shell	Others	Total
POL terminal/depots (Nos.) ^{\$}	127	80	78	17	3		7	312
Aviation fuel stations (Nos.) [@]	129	67	56	31			10	293
Retail Outlets (total) (Nos.) [^]	38,199	22,380	22,501	1,821	6,576	362	110	91,949
Out of which, Rural ROs (Nos.)	12,491	5,734	5,594	130	2,082	84	35	26,150
SKO/LDO agencies (Nos.)	3,830	927	1,638					6,395
LPG distributors (total) (Nos.) (PSUs only)	12,897	6,256	6,364					25,517
LPG bottling plants (Nos.) (PSUs only) [#]	98	54	56				3	211
LPG bottling capacity (TMTPA) (PSUs only) ^{&}	10,950	5,220	6,530				203	22,903
LPG active domestic consumers (Nos. crore) (PSUs only)	15.4	8.5	9.0					32.8

^{\$}(Others=5 MRPL & 2 NRL); [@](Others=ShellMRPL); [^](Others=MRPL); [#](Others=NRL-1, OIL-1, CPCL-1); [&](Others=NRL-60, OIL-23, CPCL-120);

*RBML- Reliance BP Mobility Limited; RSIL-RBML Solutions India Ltd.

Source: Oil companies; P-Provisional



Table 6.8 : Break-up of consumption data (PSU and Private)

(IMT)

Product	2020-21			2021-22			2022-23 (P)			2023-24 (P)			Apr-Sep 2023-24 (P)			Apr-Sep 2024-25 (P)		
	PSU/V	Private	Total	PSU	Private	Total	PSU	Private	Total	PSU	Private	Total	PSU	Private	Total	PSU	Private	Total
LPG	27494	64	27558	28253	0	28253	28504	0	28504	29650	14	29664	14135	0	14135	14923	74	14998
MS	25168	2801	27969	27905	2944	30849	32631	2345	34976	34152	3067	37219	17034	1479	18514	18081	1769	19850
Naphtha	6050	8051	14100	6426	6820	13246	5428	6699	12127	6621	7191	13812	3194	3409	6603	3435	3315	6750
ATF	3525	172	3698	4707	301	5008	6960	418	7378	7567	680	8247	3668	299	3966	3881	496	4377
SKO	1795	3	1798	1493	0	1493	490		490	479	0	479	257	0	257	205	0	205
HSD	64504	8208	72713	68411	8248	76659	81435	4466	85900	80700	8926	89626	39875	4114	43990	39358	5030	44388
LDO	713	142	855	765	252	1017	625	100	726	650	132	782	330	67	397	313	77	390
Lubes	1475	2622	4097	1563	2977	4540	1690	2047	3737	1806	2281	4087	843	1149	1991	851	1474	2324
FO/LSHS	4925	662	5586	5542	720	6262	6174	783	6958	5782	739	6520	2911	393	3305	2829	489	3318
Bitumen	5356	2168	7524	5093	2723	7816	5211	2830	8041	5576	3231	8807	2379	1628	4007	2377	1460	3837
PetCoke	5034	10571	15605	6110	8145	14255	7206	11137	18343	7015	13304	20319	3226	6480	9706	3026	7694	10720
Others	4149	8643	12791	5073	7224	12297	5078	10764	15842	4939	9757	14696	2285	5072	7357	2502	4087	6589
Total	150189	44107	194295	161343	40354	201697	181432	41590	223022	184937	49321	234259	90137	24090	114228	91780	25964	117745

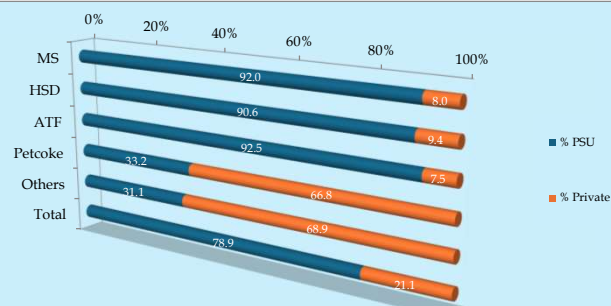
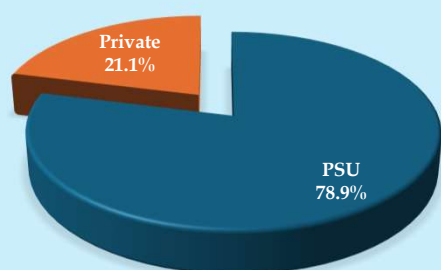
Source: Oil companies, Directorate General of Commercial Intelligence and Statistics (DGCIIS) & SEZ data (included from FY 2017-18 onwards).

(Oil company sales+Private imports+SEZ sales to DTA=Consumption)

Note: Private consumption includes direct imports as well as marketing by private oil companies.

H1 FY 2023-24

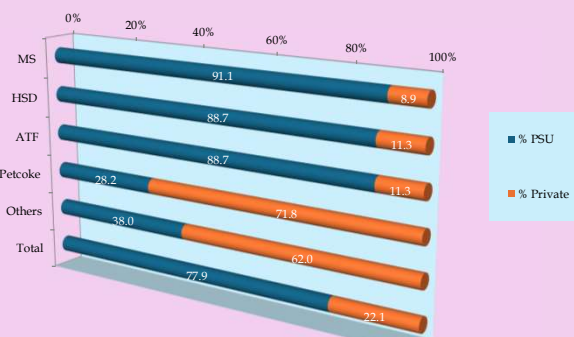
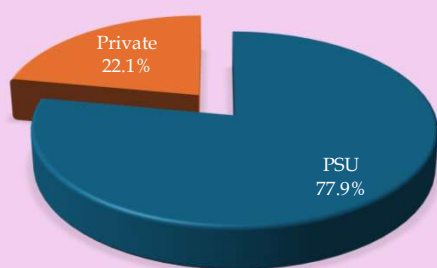
PSU/Private share in total POL consumption (114.3 MMT)



PSU/Private product wise share (in percentage)

H1 FY 2024-25 (P)

PSU/Private share in total POL consumption (117.7 MMT)



PSU/Private product wise share (in percentage)

Note: In the above bar charts; others include all other products except MS, HSD, ATF & Petcoke.

- The share of the public sector in total consumption decreased during H1 FY2024-25 by 1.0% as compared to the same period last year.
- The share of the public sector OMC's during H1 FY 2024-25 has been increased in Others (6.9%) as compared same period in previous year.
- In the private sector the growth has been observed for MS(0.9%), HSD(1.9%), ATF (3.8%) and Petcoke (5.0%).



Table 6.9: Oil industry Alternate fuel infrastructure at retail outlets as on 01.10.2024

State/UT	CNG_CBG_LNG	EV CHARGING	AUTO LPG	RETAIL OUTLETS WITH AT LEAST 1 ALTERNATE FUEL
Chandigarh	13	16	4	26
Delhi	269	229	1	419
Haryana	399	792	2	1133
Himachal Pradesh	29	131	0	154
Jammu and Kashmir	2	156	3	156
Ladakh	0	12	0	8
Punjab	274	752	9	980
Rajasthan	350	1423	23	1719
Uttar Pradesh	1060	2380	32	3276
Uttarakhand	49	188	5	233
SUB TOTAL NORTH	2445	6079	79	8104
Andaman & Nicobar Islands	0	6	0	6
Bihar	194	465	0	652
Jharkhand	115	301	0	398
Odisha	132	619	2	723
West Bengal	135	820	33	913
SUB TOTAL EAST	576	2211	35	2692
Arunachal Pradesh	0	50	0	65
Assam	31	432	0	421
Manipur	0	57	0	57
Meghalaya	0	52	0	58
Mizoram	0	14	0	14
Nagaland	0	37	0	42
Sikkim	0	12	0	12
Tripura	22	55	0	79
SUB TOTAL NORTH EAST	53	709	0	748
Chhattisgarh	25	463	4	484
Dadra & Nagar Haveli and Daman & Diu	11	8	0	22
Goa	18	71	0	81
Gujarat	769	1201	17	1880
Madhya Pradesh	327	1055	20	1328
Maharashtra	854	1566	38	2241
SUB TOTAL WEST	2004	4364	79	6036
Andhra Pradesh	209	846	13	1008
Karnataka	392	1608	137	1924
Kerala	197	627	36	784
Lakshadweep	0	1	0	1
Puducherry	9	28	1	36
Tamil Nadu	388	1363	101	1709
Telangana	184	996	63	1148
SUB TOTAL SOUTH	1379	5469	351	6610
All India	6457	18832	544	24190

Source: Oil companies

Table 6.10 : Ethanol Blending Programme

Sr.no.	State	(1st December 2022 to 31st Oct 2023 (P))		(1st November 2023 to 30th September 2024 (P))	
		Ethanol received by PSU OMCs under EBP program (Quantity Cr. Litrs)	Average percentage blending sales (EBP%)**	Ethanol received by PSU OMCs under EBP program (Quantity Cr. Litrs)	Average percentage blending sales (EBP%)**
1	Andhra Pradesh	21.17	11.9%	25.26	13.6%
2	Andaman & Nicobar	0.00	0.0%	0.26	7.4%
3	Arunachal Pradesh	0.04	12.0%	1.45	14.7%
4	Assam	8.26	12.1%	10.94	14.6%
5	Bihar	15.94	12.4%	19.16	14.4%
6	Chandigarh	0.22	11.8%	2.19	14.1%
7	Chhattisgarh	10.71	11.7%	12.60	12.4%
8	Dadra And Nagar Haveli And Daman & Diu	0.18	12.2%	0.69	13.4%
9	Delhi	13.76	12.0%	17.34	14.2%
10	Goa	2.83	12.0%	3.63	12.8%
11	Gujarat	25.76	12.1%	33.74	13.5%
12	Haryana	27.97	12.1%	22.84	14.3%
13	Himachal Pradesh	3.22	11.4%	5.66	14.5%
14	Jammu & Kashmir	1.29	12.1%	6.75	13.7%
15	Jharkhand	8.69	12.3%	12.13	14.2%
16	Karnataka	35.24	12.3%	45.49	13.7%
17	Kerala	22.20	11.5%	27.62	13.1%
18	Lakshadweep	0.00	9.1%	0.02	13.0%
19	Ladakh	0.04	7.4%	0.35	13.9%
20	Madhya Pradesh	22.11	12.1%	29.26	13.7%
21	Maharashtra	53.78	12.2%	65.30	13.5%
22	Manipur	0.02	11.6%	1.40	15.2%
23	Meghalaya	0.21	12.0%	2.40	14.2%
24	Mizoram	0.03	11.8%	0.85	13.8%
25	Nagaland	0.04	12.0%	0.98	14.8%
26	Odisha	13.70	11.6%	18.79	14.7%
27	Puducherry	0.41	11.8%	3.02	13.7%
28	Punjab	19.71	12.0%	20.41	14.7%
29	Rajasthan	23.28	12.0%	29.94	13.7%
30	Sikkim	0.02	10.4%	0.50	13.7%
31	Tamil Nadu	44.95	11.9%	54.27	13.5%
32	Telangana	20.86	11.8%	27.62	13.2%
33	Tripura	0.04	12.5%	1.19	15.5%
34	Uttar Pradesh	75.94	12.4%	73.37	14.0%
35	Uttarakhand	3.65	12.4%	7.40	14.6%
36	West Bengal	17.79	12.1%	22.57	14.5%
Grand Total		494.0	12.06%	607.4	13.8%

* Ethanol Supply Year : Ethanol supplies take place between 1st December of the present year to 31st October of the following year.

**EBP %age in all the States has been calculated based on the MS sale in the geographical limit of the respective State. In the States/UTs where receipt is zero but EBP %age has been calculated is due to the fact that sale of Ethanol blended MS which comes from nearby supply locations of other States contribute to the EBP %age in this State/UTs.

Note: With effect from 01.04.2019, EBP Programme has been extended to whole of India except UTs of Andaman & Nicobar Islands and Lakshadweep

Chapter-7

LPG



Chapter Highlights

LPG

- The PMUY scheme has covered around 10.33 crores beneficiaries since its launch in May 2016. As on 01.10.2024, since inception of the scheme on 01.05.2016, the highest percentage of PMUY connections have been released in Eastern region (32.4%), followed by Northern region (29.7%), Western region (21.5%), Southern region (10.5%) and North-east region (6.0%).
- PSU OMCs sold nearly 14.9 MMT of LPG in H1 FY 2024-25 and recorded YoY growth of 5.5% in total LPG sales as compared to H1 FY 2023-24.
- Highest LPG consumption in Northern region (31%) followed by Southern (27%), Western (22%), Eastern (17%) & North-eastern (3%) in H1 FY 2024-25. Packed domestic segment (89.0%) dominated LPG consumption with a share of around on all India basis, followed by Packed non-domestic segment (8.7%), Bulk sales (2.2%) and Auto LPG sales (0.3%) in H1 FY 2024-25.
- PSU OMCs have a total of 211 LPG bottling plants all over India with rated bottling capacity of around 22.9 million metric tonne per annum (MMTPA). PSU OMCs enrolled 21.9 lakhs new domestic customers during H1 FY 2024-25. During the same period, PSU OMCs have added 36 distributorships. As on 01.10.2024, the total LPG tankage on all-India basis is around 1321.3 TMT which is equivalent to about 16 days of consumption.
- PSU OMCs have a total of 446 Auto LPG Dispensing Stations (ALDS) all over India for catering to LPG demand in the automotive sector. The total auto LPG sales of PSU OMCs was about 37.5 TMT during H1 FY 2024-25, out of which around 83.3% sales were in the Southern region.
- As on 01.10.2024, PSU OMCs (IOCL, BPCL and HPCL) together have 32.80 crores active LPG customers in the domestic category who are being served by 25,517 LPG distributors.

Table 7.1 : LPG Marketing

Particulars	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	Apr-Sep 2023-24	Apr-Sep 2024-25 (P)
(TMT)								
LPG production	12786	12823	12072	12238	12831	12778	6308	6334
LPG consumption	24907	26330	27540	28253	28503	29663	14135	14993
PSU sales	24591	26126	27476	28253	28503	29649	14135	14907
of which:								
Domestic	21728	23076	25117	25502	25382	26208	12444	13274
Non-Domestic	2364	2614	1885	2239	2606	2760	1360	1296
Bulk	318	263	355	391	409	594	284	299
Auto LPG	180	172	118	122	107	88	48	37
Imports	13235	14809	16476	17125	18309	18461	8315	10100
of which:								
PSU imports	12919	14605	16412	17125	18309	18447	8315	10014
Private imports	316	204	64	0.1	0.1	14.1	0.0	86.3
Import dependency percentage of LPG [^]	52%	51%	56%	57%	55%	57%	55%	58%
(Lakh)								
Enrolment (domestic)	455.1	161.1	85.8	158.4	101.2	112.5	20.0	21.9
As on	1.4.2019	1.4.2020	1.4.2021	1.4.2022	1.4.2023	1.04.2024	1.10.2023	1.10.2024
LPG active domestic customers	2654	2787	2895	3053	3140	3242	3154	3280
PMUY beneficiaries	719	802	800	899	959	1033	959	1033
Non-domestic customers	30	32	34	35	36	32	36	37
(Percent)								
LPG coverage (Estimated)	94.3	97.5	99.8	*	*	*	*	*
(Nos.)								
LPG distributors	23737	24670	25083	25269	25385	25481	25425	25517
of which:								
Shehri Vitrak	7908	7914	7899	7894	7925	7921	7917	7920
Rurban Vitrak	3626	3671	3697	3720	3716	3754	3730	3763
Gramin & Durgam Kshetriya Vitrak	12203	13085	13487	13655	13744	13806	13778	13834
Auto LPG dispensing stations (ALDS)	661	657	651	601	525	468	496	446
(TMTPA)								
Bottling capacity (rated)	18338	20292	21249	21573	22225	22843	22405	22903
(TMT)								
Gross tankage	929	978	994	1088	1178	1241	1190	1321

Source: Oil companies & Directorate General of Commercial Intelligence and Statistics (DGCIS);

Note:

1. Data in respect of enrolment, customers, distributors, ALDS and rated bottling capacity pertain to PSU OMCs only.
2. Gross tankage includes LPG tankage at LPG bottling plants owned by PSU oil companies, all refineries, fractionators and LPG import terminals.
3. MOPNG vide letter no. P-20019/2/2016-LPG dated 23 June 2016 had issued unified guidelines for selection of LPG distributors. In the said guidelines, LPG distributor categories have been redefined. The historical data on LPG distributors has been rearranged in line with the new classification for
4. * " The LPG coverage is calculated by PSU OMCs based upon the active LPG domestic connections and the estimated number of households. The number of households has been projected by PSU OMCs based on 2011 census data. Factors like increasing nuclearization of families, migration of individuals/ families due to urbanization and reduction in average size of households etc. impact the growth of number of households. Due to these factors, the estimated no. of households through projection of 2011 census data may slightly differ from the actual no. of households in a State/UT. Further, this methodology does not include PNG (domestic) connections."
5. [^]Import dependency percentage of LPG = $\{1 - (\text{production}/\text{consumption})\} \times 100\%$

Figure 7.1 Numbers of Active Domestic Customers (In Crore) as on 1st April

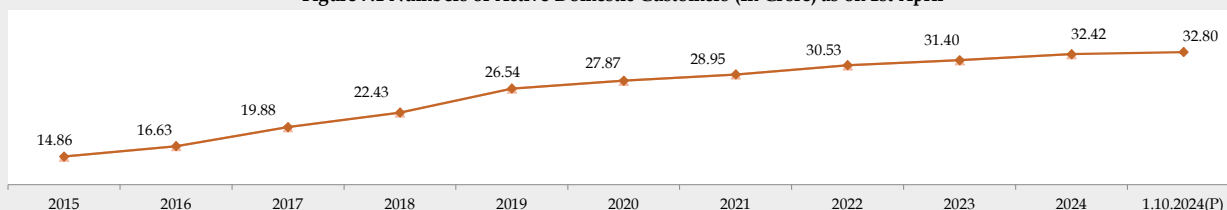


Table 7.2 : State-wise Active Domestic LPG connections

(Number in lakhs)

States/UT	01.10.2023	01.10.2024
CHANDIGARH	3.0	3.0
DELHI	54.2	56.4
HARYANA	76.8	81.7
HIMACHAL PRADESH	21.6	22.3
JAMMU & KASHMIR	34.6	35.3
LADAKH	1.0	1.0
PUNJAB	93.9	95.8
RAJASTHAN	176.5	183.1
UTTAR PRADESH	464.3	481.2
UTTARAKHAND	30.7	32.0
SUB TOTAL NORTH	956.6	991.7
ARUNACHAL PRADESH	3.1	3.3
ASSAM	84.1	91.7
MANIPUR	6.6	7.0
MEGHALAYA	4.1	5.2
MIZORAM	3.5	3.6
NAGALAND	3.4	3.8
SIKKIM	1.7	1.9
TRIPURA	7.9	8.4
SUB TOTAL NORTH EAST	114.5	124.8
ANDAMAN & NICOBAR ISLANDS	1.2	1.3
BIHAR	215.7	228.4
JHARKHAND	62.9	66.0
ODISHA	97.1	100.3
WEST BENGAL	267.8	270.5
SUB TOTAL EAST	644.7	666.5
CHHATTISGARH	59.2	63.1
DADRA & NAGAR HAVELI and DAMAN & DIU	1.7	1.7
GOA	5.5	5.7
GUJARAT	121.1	127.4
MADHYA PRADESH	166.8	174.7
MAHARASHTRA	305.6	315.5
SUB TOTAL WEST	659.9	688.2
ANDHRA PRADESH	150.1	157.4
KARNATAKA	179.5	187.3
KERALA	95.7	97.6
LAKSHADWEEP	0.1	0.1
PUDUCHERRY	4.0	4.1
TAMILNADU	227.8	236.2
TELANGANA	121.6	126.1
SUB TOTAL SOUTH	778.8	808.9
ALL INDIA	3154.5	3280.1

Source: PSU OMCs (IOCL, BPCL and HPCL)

Figure 7.2: Active Domestic LPG Connections (Lakhs)

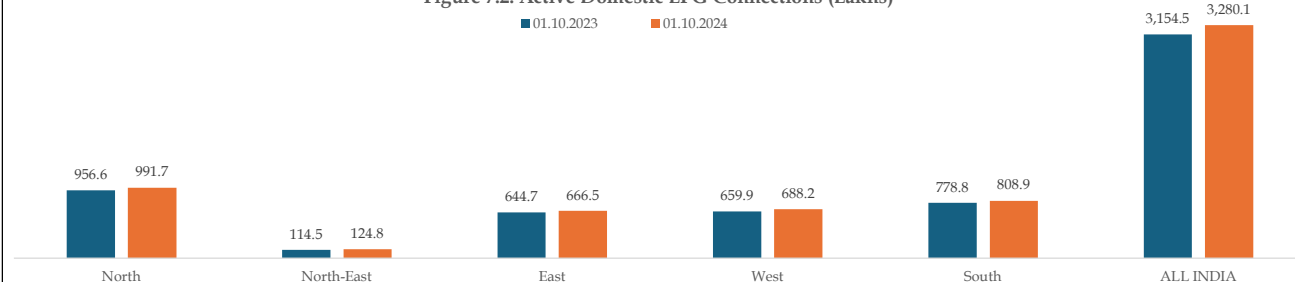


Table 7.3 : State-wise PMUY Connections			
State/UT			(Number in lakhs)
	1.10.2023	1.10.2024	
Chandigarh	0.00659	0.02027	
Delhi	1.42	2.60	
Haryana	7.67	11.15	
Himachal Pradesh	1.41	1.51	
Jammu & Kashmir	12.45	12.70	
LADAKH	0.11	0.11	
Punjab	12.84	13.59	
RAJASTHAN	69.26	73.83	
Uttar Pradesh	175.01	185.96	
Uttarakhand	4.96	5.30	
Sub Total North	285.14	306.77	
Arunachal Pradesh	0.49	0.54	
Assam	44.14	50.98	
Manipur	2.02	2.25	
Meghalaya	2.15	3.17	
Mizoram	0.34	0.36	
Nagaland	0.92	1.22	
Sikkim	0.14	0.20	
Tripura	2.84	3.16	
Sub Total North East	53.03	61.88	
Andaman & Nicobar Islands	0.13	0.14	
Bihar	107.35	116.31	
Jharkhand	36.46	38.96	
Odisha	53.21	55.50	
West Bengal	123.71	123.76	
Sub Total East	320.87	334.67	
Chhattisgarh	34.92	38.02	
Dadra & Nagar Haveli and Daman & Diu	0.15	0.18	
Goa	0.01	0.02	
Gujarat	38.43	43.09	
Madhya Pradesh	82.27	88.47	
Maharashtra	48.90	52.18	
Sub Total West	204.68	221.97	
Andhra Pradesh	5.12	9.71	
Karnataka	37.57	41.48	
Kerala	3.41	3.88	
Lakshadweep	0.003	0.004	
Puducherry	0.15	0.19	
Tamil Nadu	37.04	41.00	
Telangana	11.53	11.86	
Sub Total South	94.83	108.13	
All India	958.55	1033.41	

Source: PSU OMCs (IOCL, BPCL and HPCL)

"PMUY connections" refer to those households where subscription vouchers have been issued

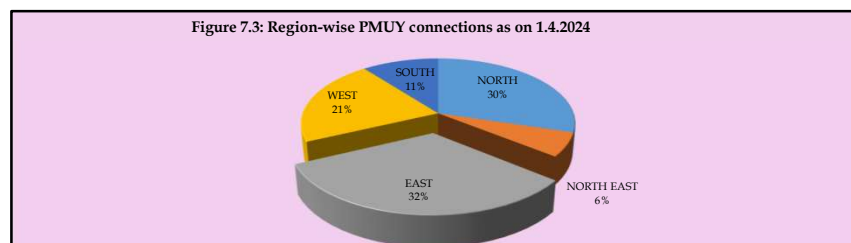
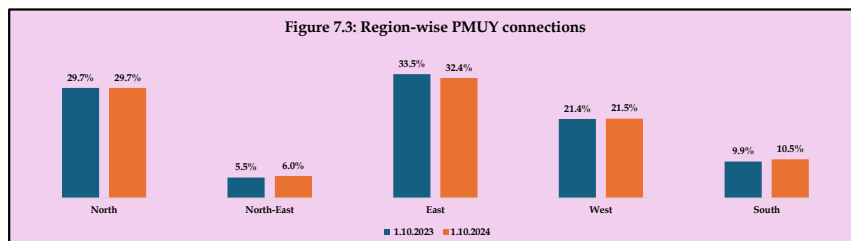


Table 7.4 : LPG Domestic customers enrolment (14.2 kg/5 kg) by PSU OMCs

(Number in lakhs)

State/UT	April-September 2023			April-September 2024		
	14.2 Kg	5 Kg	Total	14.2 Kg	5 Kg	Total
Chandigarh	0.02	0.0003	0.02	0.03	0.0004	0.03
Delhi	0.35	0.0038	0.35	0.37	0.0040	0.38
Haryana	0.63	0.0030	0.63	0.74	0.0093	0.75
Himachal Pradesh	0.14	0.0015	0.14	0.18	0.0029	0.18
Jammu & Kashmir	0.11	0.0007	0.11	0.15	0.0015	0.15
Ladakh	0.01	0.0001	0.01	0.02	0.0003	0.02
Punjab	0.39	0.0030	0.40	0.47	0.0046	0.48
Rajasthan	0.86	0.0039	0.86	0.71	0.0064	0.71
Uttar Pradesh	2.06	0.0186	2.08	2.45	0.0343	2.48
Uttarakhand	0.31	0.0010	0.31	0.33	0.0042	0.33
Sub Total North	4.89	0.04	4.92	5.44	0.07	5.51
Arunachal Pradesh	0.05	0.0008	0.05	0.06	0.0021	0.06
Assam	0.32	0.0025	0.33	0.38	0.0051	0.39
Manipur	0.03	0.0000	0.03	0.08	0.0016	0.08
Meghalaya	0.04	0.0005	0.05	0.05	0.0011	0.05
Mizoram	0.04	0.0029	0.04	0.03	0.0037	0.03
Nagaland	0.03	0.0001	0.03	0.03	0.0004	0.03
Sikkim	0.02	0.0002	0.02	0.03	0.0007	0.03
Tripura	0.06	0.0008	0.06	0.05	0.0016	0.1
Sub Total North-East	0.59	0.01	0.60	0.70	0.02	0.72
Andaman & Nicobar Islands	0.02	0.0015	0.02	0.02	0.0029	0.02
Bihar	1.07	0.0054	1.08	1.73	0.0128	1.74
Jharkhand	0.32	0.0022	0.33	0.28	0.0059	0.29
Odisha	0.40	0.0041	0.41	0.41	0.0061	0.42
West Bengal	0.98	0.0132	0.99	1.12	0.0288	1.15
Sub Total East	2.80	0.03	2.82	3.57	0.06	3.63
Chhattisgarh	0.22	0.0020	0.23	0.39	0.0028	0.40
Dadra & Nagar Haveli and Daman & Diu	0.02	0.0001	0.02	0.02	0.0001	0.02
Goa	0.06	0.0000	0.06	0.06	0.0001	0.06
Gujarat	0.81	0.0027	0.81	0.68	0.0060	0.69
Madhya Pradesh	0.67	0.0072	0.68	0.74	0.0078	0.75
Maharashtra	2.98	0.0075	2.98	3.15	0.0093	3.16
Sub Total West	4.76	0.02	4.78	5.05	0.03	5.08
Andhra Pradesh	0.83	0.0038	0.83	1.05	0.0062	1.05
Karnataka	1.75	0.0095	1.76	1.65	0.0117	1.66
Kerala	0.73	0.0034	0.74	0.79	0.0073	0.80
Lakshadweep	0.00	0.0000	0.00	0.00	0.0001	0.00
Puducherry	0.03	0.0005	0.04	0.03	0.0005	0.03
Tamil Nadu	2.21	0.0474	2.26	1.95	0.0370	1.99
Telangana	1.27	0.0087	1.28	1.42	0.0103	1.43
Sub Total South	6.83	0.07	6.90	6.89	0.07	6.96
All India	19.86	0.16	20.03	21.66	0.24	21.90

Source: PSU OMCs (IOCL, BPCL and HPCL)

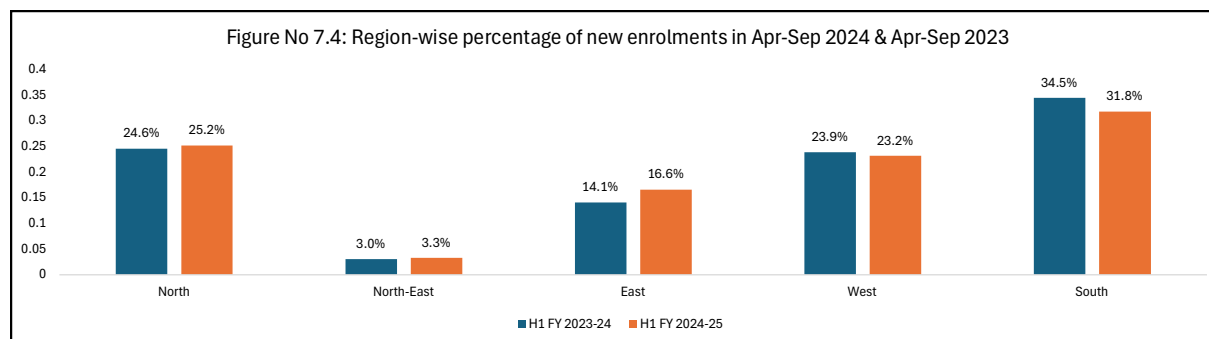


Table 7.5 : Number of LPG Distributors as on 01.10.2024 (P)					
					(Nos.)
State/UT	Sheheri Vitrak	Rurban Vitrak	Gramin Vitrak	Durgam Kshetriya Vitrak	Total
Chandigarh	26	0	0	0	26
Delhi	317	0	0	0	317
Haryana	282	103	232	9	626
Himachal Pradesh	69	13	91	36	209
Jammu & Kashmir	125	34	74	40	273
Ladakh	0	13	2	9	24
Punjab	334	256	249	21	860
Rajasthan	434	163	654	133	1384
Uttar Pradesh	1007	707	2308	122	4144
Uttarakhand	114	104	59	40	317
Sub Total North	2708	1393	3669	410	8180
Arunachal Pradesh	6	6	33	40	85
Assam	128	101	307	62	598
Manipur	15	13	36	38	102
Meghalaya	21	9	19	16	65
Mizoram	11	6	26	16	59
Nagaland	15	11	17	40	83
Sikkim	9	1	9	10	29
Tripura	18	8	46	13	85
Sub Total North-East	223	155	493	235	1106
Andaman & Nicobar Islands	0	4	5	1	10
Bihar	240	252	1503	39	2034
Jharkhand	163	51	354	20	588
Odisha	173	100	578	114	965
West Bengal	405	164	956	74	1599
Sub Total East	981	571	3396	248	5196
Chhattisgarh	105	75	172	182	534
Dadra & Nagar Haveli and Daman & Diu	5	1	1	0	7
Goa	44	4	5	2	55
Gujarat	421	120	486	13	1040
Madhya Pradesh	472	210	484	385	1551
Maharashtra	1008	192	846	192	2238
Sub Total West	2055	602	1994	774	5425
Andhra Pradesh	323	292	427	108	1150
Karnataka	534	139	547	52	1272
Kerala	225	134	320	22	701
Lakshadweep	1	0	0	0	1
Puducherry	15	11	3	0	29
Tamil Nadu	566	362	614	109	1651
Telangana	289	104	333	80	806
Sub Total South	1953	1042	2244	371	5610
All India	7920	3763	11796	2038	25517

Source: PSU OMCs (IOCL, BPCL and HPCL)

Figure 7.5.1: Region-wise distribution of LPG distributors as on 1.10.2024

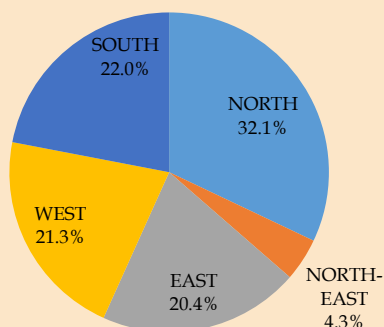


Figure 7.5.2: Category wise distribution of distributors as on 1.10.2024

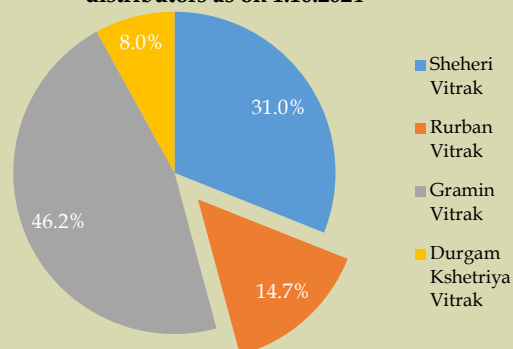


Table 7.6 : State-wise PCC (Per Connection Consumption) of LPG									
State/UTs	FY 2023-24			H1 FY 2023-24			H1 FY 2024-25		
	PMUY	Non-PMUY	Total	PMUY	Non-PMUY	Total	PMUY	Non-PMUY	Total
Chandigarh	4.88	10.52	10.5	5.47	9.93	9.92	6.05	10.15	10.13
Delhi	6.61	9.64	9.53	6.66	8.92	8.86	6.67	8.85	8.75
Haryana	6.1	8.33	8.06	5.88	7.51	7.35	5.93	7.38	7.19
Himachal Pradesh	4.08	5.49	5.39	4.06	5.38	5.30	4.56	5.46	5.4
Jammu & Kashmir	3.43	5.18	4.54	3.06	4.67	4.09	3.65	4.83	4.4
Ladakh	2.97	6.76	6.32	3.08	8.01	7.44	4.17	8.08	7.64
Punjab	5.52	7.38	7.12	5.14	6.72	6.50	5.16	6.6	6.4
Rajasthan	4.45	6.88	5.91	4.29	6.56	5.66	4.81	6.37	5.74
Uttar Pradesh	4.56	6.62	5.83	4.32	6.19	5.48	4.82	6.39	5.78
Uttarakhand	4.88	7.41	6.99	4.76	7.18	6.78	4.88	7.18	6.8
Sub Total North	4.59	7.13	6.35	4.35	6.64	5.96	4.84	6.68	6.11
Arunachal Pradesh	3.77	6.6	6.13	3.77	6.48	6.05	4.26	6.49	6.12
Assam	2.96	5.56	4.14	2.90	5.45	4.11	3.19	5.46	4.19
Manipur	4.24	6.22	5.59	3.46	6.28	5.42	4.16	4.78	4.58
Meghalaya	2.4	7.53	4.48	2.70	6.98	4.75	2.56	7.71	4.46
Mizoram	4.7	6.84	6.62	4.57	6.80	6.58	4.96	6.74	6.56
Nagaland	3.23	6.93	5.8	3.38	6.81	5.87	3.69	6.81	5.79
Sikkim	3.62	7.68	7.29	3.99	8.01	7.68	4.26	7.22	6.9
Tripura	2.67	6.74	5.23	2.58	6.48	5.09	3.03	6.92	5.44
Sub Total North-East	2.99	5.99	4.53	2.93	5.88	4.51	3.22	5.81	4.52
Andaman & Nicobar Islands	5.6	7.42	7.22	5.80	7.11	6.96	6.28	7.19	7.09
Bihar	3.82	6.22	5	3.69	6.02	4.86	4.01	6.33	5.14
Jharkhand	2.73	6.37	4.23	2.56	6.21	4.09	3.08	6.27	4.38
Odisha	3.46	5.69	4.46	3.26	5.48	4.27	3.78	5.74	4.65
West Bengal	3.9	6.02	5.04	3.52	5.83	4.76	4.58	6	5.35
Sub Total East	3.67	6.08	4.86	3.43	5.88	4.66	4.08	6.1	5.08
Chhattisgarh	1.92	6.32	3.68	1.84	6.09	3.57	2.36	6.38	3.94
Dadra & Nagar Haveli and Daman & Diu	4.92	6.73	6.56	4.74	6.37	6.23	4.76	6.96	6.73
Goa	3.93	6.77	6.76	4.14	6.65	6.65	3.98	6.82	6.81
Gujarat	4.76	7.26	6.43	4.67	6.97	6.23	5.12	6.89	6.28
Madhya Pradesh	3.11	6.21	4.65	3.08	5.96	4.54	3.49	6.02	4.74
Maharashtra	4.62	6.89	6.52	4.51	6.71	6.36	4.93	6.75	6.45
Sub Total West	3.58	6.8	5.77	3.51	6.58	5.63	3.95	6.62	5.76
Andhra Pradesh	3.73	5.71	5.61	4.00	5.58	5.53	4.11	5.57	5.48
Karnataka	4.76	6.91	6.44	4.67	6.81	6.36	5.2	6.82	6.46
Kerala	3.99	6.65	6.55	4.02	6.66	6.56	4.33	6.79	6.69
Lakshadweep	3.82	5.31	5.27	3.73	6.11	6.05	3.16	4.33	4.3
Puducherry	6.31	7.18	7.14	6.43	6.97	6.95	6.83	6.89	6.88
Tamil Nadu	4.38	6.4	6.06	4.20	6.24	5.91	4.55	6.16	5.88
Telangana	3.47	5.73	5.51	3.53	5.65	5.44	3.56	5.72	5.52
Sub Total South	4.37	6.29	6.04	4.29	6.18	5.95	4.65	6.19	5.98
All India	3.95	6.61	5.78	3.78	6.35	5.57	4.28	6.40	5.73

Chapter-8

Prices & Taxes



Chapter Highlights

Finance

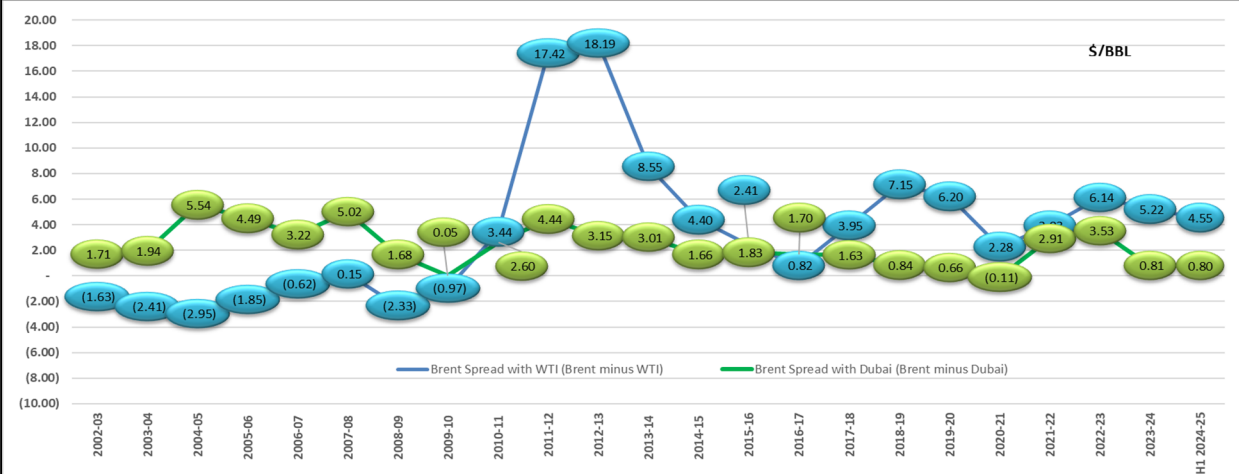
- Crude oil prices continue to be volatile on demand concerns and geopolitical tensions. Brent Crude prices had fallen to a near three-year low of around \$70/bbl on 10 September, despite hefty supply cuts in Libya and continued crude oil inventory draws. The weakened global economic outlook, driven by subdued demand in the U.S. and China, along with OPEC+'s decision to raise production from December 2024, contributed to this drop. Subsequently Brent crude oil prices recovered and were hovering around \$80/bbl in the first week of October due to increase middle east escalations between Israel-Hamas/Hezbollah/Iran. However, since then prices have subsequently cooled down and presently Brent crude oil prices are range bound and are hovering in \$73/bbl to \$76/bbl range.
- The average price of Dated Brent during April to September 2024 decreased to \$82.60/bbl from an average of \$83.15/bbl during 2023-24 i.e., decreased by 0.67%. Similarly, the average price of Indian Basket of crude oil during April to September 2024 has decreased to \$81.92/bbl from the average of \$82.58/bbl during 2023-24 i.e., decrease of 0.80%.
- Oil & Gas industry is one of the most important contributors to Central & State Exchequers. During the first six months of FY 2024-25, Petroleum sector contributed Rs.1,83,319 crores (Rs.432,394 crores for FY 2023-24) to Central exchequer by way of various Taxes / duties on crude oil & petroleum products, Corporate Income tax and other ways like dividend, etc. The Contribution of petroleum sector to State exchequer during first six months of FY 2024-25 is Rs.1,55,866 crores (Rs. 318,761 crores for FY 2023-24) by way of VAT and other taxes, royalty, etc.



Table 8.1 : Indian Basket Crude Oil Price

Year		Indian basket
		(\$/bbl)
2002-03		26.60
2003-04		27.98
2004-05		39.21
2005-06		55.72
2006-07		62.46
2007-08		79.25
2008-09		83.57
2009-10		69.76
2010-11		85.09
2011-12		111.89
2012-13		107.97
2013-14		105.52
2014-15		84.16
2015-16		46.17
2016-17		47.56
2017-18		56.43
2018-19		69.88
2019-20		60.47
2020-21		44.82
2021-22		79.18
2022-23		93.15
2023-24		82.58
2024-25 (Apr to Oct'24)		80.88
2024 : Month wise		
January		79.22
February		81.62
March		84.49
April		89.44
May		83.62
June		82.55
July		84.15
August		78.27
September		73.69
October		75.12
Notes:		
1. The Indian basket of crude oil for the year 2024-25 period is calculated based on a weightage of 78.50% for the price of sour grades of crude oil (average of Oman & Dubai) and 21.50% sweet grade of crude oil (Brent Dated).The percentages of 78.50 and 21.50 was based on the ratio of low sulphur and high sulphur crude oil processed (indigenous and imported) by all the Indian refineries (PSU and Pvt.).		

Trend in spread of international benchmark crude oils



Trend in spreads of petroleum products vs Indian basket of crude oil

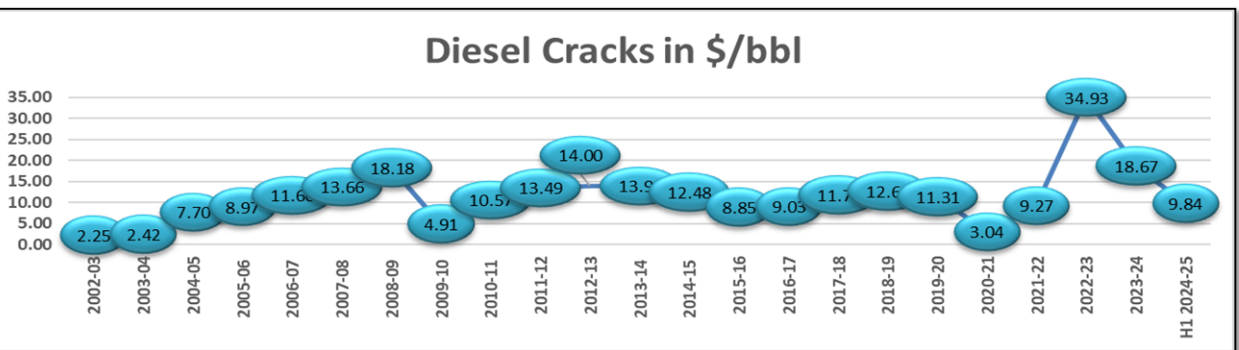
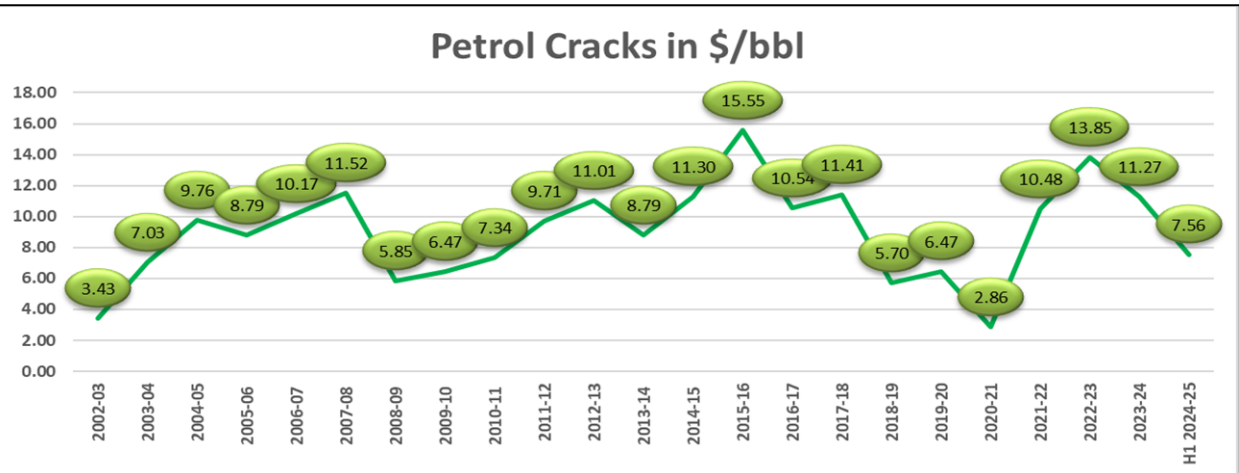


Table 8.2 : Price built-up of PDS Kerosene at Mumbai

Elements	Unit	As on 01.11.2024
Price before taxes and dealers' commission	₹ / litre	51.63
Add : Dealers' commission	₹ / litre	2.65
Add : GST (incl GST on dealers' commission)	₹ / litre	2.71
Retail selling price	₹ / litre	56.99
-As per IOCL.		

Table 8.3 : Price built-up of Domestic LPG at Delhi

Elements	Unit	As on 01.11.2024
Price before taxes and distributors' commission	₹ / 14.2 kg cylinder	691.68
Add : Distributors' commission	₹ / 14.2 kg cylinder	73.08
Add : GST (including GST on distributors' commission)	₹ / 14.2 kg cylinder	38.24
Retail selling price	₹ / 14.2 kg cylinder	803.00
-As per IOCL.		

Table 8.4 : Price built-up of Petrol at Delhi

Elements	Unit	As on 01.11.2024
Price charged to dealers (excluding excise duty and VAT)	₹ / litre	55.17
Add : Excise duty	₹ / litre	19.90
Add : Dealers' commission (average)	₹ / litre	4.30
Add : VAT (including VAT on dealers' commission)	₹ / litre	15.40
Retail selling price	₹ / litre	94.77
-As per IOCL.		

Table 8.5 : Price built-up of Diesel at Delhi

Elements	Unit	As on 01.11.2024
Price charged to dealers (excluding excise duty and VAT)	₹ / litre	56.11
Add : Excise duty	₹ / litre	15.80
Add : Dealers' commission (average)	₹ / litre	2.93
Add : VAT (including VAT on dealer's commission)	₹ / litre	12.83
Retail selling price	₹ / litre	87.67
-As per IOCL.		

Table 8.6 : Break up of Central excise duty on Petrol & Diesel

	₹/litre	
Particulars	Petrol	Diesel
Basic duty	1.40	1.80
Additional excise duty (Road & Infrastructure Cess)	5.00	2.00
Special additional excise duty	11.00	8.00
Agriculture Infrastructure and Development Cess	2.50	4.00
Total excise duty	19.90	15.80

Note - An additional Basic Excise duty @Rs 2/ltr has been levied on unblended petrol (not blended with ethanol or methonal) intended for retail sale w.e.f. 01.11.2022.

Table 8.6A : Excise duty on Export of MS, HSD & ATF and Special Additional Excise Duty (SAED) on Domestic Crude Production

Effective Date	Excise duty on Export			SAED on production of Crude oil
	Motor Spirit	High Speed Diesel	Aviation Turbine Fuel	
	₹/Ltr	₹/Ltr	₹/Ltr	₹ /MT
01-Jul-22	6.00	13.00	6.00	23,250.00
20-Jul-22	-	11.00	4.00	17,000.00
03-Aug-22	-	5.00	-	17,750.00
19-Aug-22	-	7.00	2.00	13,000.00
01-Sep-22	-	13.50	9.00	13,300.00
17-Sep-22	-	10.00	5.00	10,500.00
02-Oct-22	-	5.00	-	8,000.00
16-Oct-22	-	12.00	3.50	11,000.00
02-Nov-22	-	13.00	5.00	9,500.00
17-Nov-22	-	10.50	5.00	10,200.00
02-Dec-22	-	8.00	5.00	4,900.00
16-Dec-22	-	5.00	1.50	1,700.00
03-Jan-23	-	6.50	4.50	2,100.00
17-Jan-23	-	5.00	3.50	1,900.00
04-Feb-23	-	7.50	6.00	5,050.00
16-Feb-23	-	2.50	1.50	4,350.00
04-Mar-23	-	0.50	-	4,400.00
21-Mar-23	-	1.00	-	3,500.00
04-Apr-23	-	0.50	-	-
19-Apr-23	-	-	-	6,400.00
02-May-23	-	-	-	4,100.00
16-May-23	-	-	-	-
15-Jul-23	-	-	-	1,600.00
01-Aug-23	-	1.00	-	4,250.00
15-Aug-23	-	5.50	2.00	7,100.00
02-Sep-23	-	6.00	4.00	6,700.00
16-Sep-23	-	5.50	3.50	10,000.00
30-Sep-23	-	5.00	2.50	12,100.00
18-Oct-23	-	4.00	1.00	9,050.00
01-Nov-23	-	2.00	-	9,800.00
16-Nov-23	-	1.00	-	6,300.00
01-Dec-23	-	1.00	-	5,000.00
19-Dec-23	-	0.50	-	1,300.00
02-Jan-24	-	-	-	2,300.00
16-Jan-24	-	-	-	1,700.00
03-Feb-24	-	-	-	3,200.00
16-Feb-24	-	1.50	-	3,300.00
01-Mar-24	-	-	-	4,600.00
16-Mar-24	-	-	-	4,900.00
04-Apr-24	-	-	-	6,800.00
16-Apr-24	-	-	-	9,600.00
01-May-24	-	-	-	8,400.00
16-May-24	-	-	-	5,700.00
01-Jun-24	-	-	-	5,200.00
15-Jun-24	-	-	-	3,250.00
02-Jul-24	-	-	-	6,000.00
16-Jul-24	-	-	-	7,000.00
01-Aug-24	-	-	-	4,600.00
17-Aug-24	-	-	-	2,100.00
31-Aug-24	-	-	-	1,850.00
18-Sep-24	-	-	-	-

Source: www.cbic.gov.in

Share of taxes in retail selling price of petroleum products

Table 8.7 : Share of taxes in retail selling price of PDS Kerosene as on 01.11.2024 at Mumbai

Particulars	₹ /litre	Share in RSP (%)
Price before taxes and dealers' commission	51.63	90.6%
Customs duty	-	
GST (Including GST on dealers' commission)	2.71	
Total taxes	2.71	4.8%
Dealers' commission	2.65	4.6%
Retail selling price	56.99	100.0%

Table 8.8 : Share of taxes in retail selling price of Domestic LPG as on 01.11.2024 at Delhi

Particulars	₹ /14.2 kg cylinder	Share in RSP (%)
Price before taxes and distributors' commission	691.68	86.1%
Customs duty	-	
GST (including GST on distributors' commission)	38.24	
Total taxes	38.24	4.8%
Distributors' commission	73.08	9.1%
Retail selling price	803.00	100.0%

Table 8.9 : Weightage of crude oil, natural gas and petroleum products in Wholesale Price Index (WPI)

Product	Weight in %
Crude Petroleum	1.95
Natural Gas	0.46
High Speed Diesel	3.10
Petrol	1.60
Naphtha	0.87
Furnace Oil	0.67
LPG	0.64
Aviation Turbine Fuel	0.32
Lube Oils	0.29
Bitumen	0.23
Kerosene	0.19
Petroleum Coke	0.05
Total	10.37

Source: Website of Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade

Dealers' / Distributors' commission on petroleum products

Table 8.10 : Dealers' commission on petrol & diesel

(₹/KL)

Effective date	Petrol	Diesel
As on 1-Apr-04	707.00	425.00
21-Jun-05	778.00	467.00
1-Aug-05	848.00	509.00
1-Mar-07	894.00	529.00
16-May-07	1024.00	600.00
23-May-08	1052.00	631.00
27-Oct-09	1125.00	673.00
7-Sep-10	1218.00	757.00
1-Jul-11	1499.00	912.00
27-Oct-12	1794.00	1089.00
21-Dec-13	₹ 1390.15/KL + 0.883% of product billable price	1186.00
23-Oct-14	₹ 1499.37/KL + 0.887% of product billable price	₹ 1116.09/KL + 0.290% of product billable price
1-Aug-15	₹ 1749.86/KL + 0.883% of product billable price	₹ 1301.70/KL + 0.286% of product billable price
16-Nov-15	₹ 1750.08/KL + 0.883% of product billable price	₹ 1301.88/KL + 0.286% of product billable price
1-Jun-16	₹ 1750.29/KL + 0.883% of product billable price	₹ 1302.06/KL + 0.286% of product billable price
5-Oct-16	₹ 1868.14/KL + 0.875% of product billable price	₹ 1389.35/KL + 0.280% of product billable price
16-Nov-16	₹ 2006.33/KL + 0.875% of product billable price	₹ 1491.72/KL + 0.280% of product billable price
1-Apr-17	₹ 2020.38/KL + 0.859% of product billable price	₹ 1502.13/KL + 0.267% of product billable price
1-Jul-17	₹ 2025.97/KL + 0.859% of product billable price	₹ 1506.81/KL + 0.267% of product billable price
1-Aug-17	₹ 2674.74/KL + 0.859% of product billable price	₹ 2031.38/KL + 0.257% of product billable price
19-Feb-19	₹ 2637.80/KL + 0.859% of product billable price	₹ 2000.60/KL + 0.257% of product billable price
30-Oct-24	₹ 3154.00/KL + 0.859% of product billable price	₹ 2340.16/KL + 0.257% of product billable price

Note: In addition to above, effective 1st Aug 2017, slab based incentive is also given to eligible dealers through credit notes.

Table 8.11 : Wholesale dealers' commission on PDS kerosene

(₹/KL)

Effective date	With form XV	Other than form XV
As on 01-Apr-04	204.00	161.00
1-Mar-07	243.00	200.00
24-May-08	255.00	212.00
7-Jul-09	263.00	220.00
7-Sep-10	275.00	232.00
28-Dec-12	438.24	377.73
21-Oct-14	536.09	475.58
5-Feb-16	714.18	649.16
28-Oct-16	787.82	723.87
5-Sep-17	1008.83	928.10
4-Oct-18	1016.37	1005.95
22-Feb-19	1341.88	1230.98



Table 8.12: Distributors' commission on domestic LPG

(₹/ cylinder)			
Effective date	14.2 KG cyl.	Additional commission for sale at market determined price (₹/14.2 KG cyl.)	5 KG cyl.
As on 01-April-04	16.71	NA	8.60
01-Mar-07	19.05	NA	9.81
04-Jun-08	20.54	NA	10.58
30-Jun-09	21.94	NA	11.30
01-Jul-11	25.83	NA	13.30
07-Oct-12	37.25	0.75	18.63
11-Dec-13	40.71	0.75	20.36
23-Oct-14	44.06	0.82	22.03
09-Dec-15	45.83	0.26	22.67
01-Jan-16	45.83	0.33	22.67
01-Feb-16	45.83	0.22	22.67
01-Mar-16	45.83	0.13	22.67
01-May-16	45.83	0.15	22.67
01-Jun-16	45.83	0.18	22.67
01-Jul-16	45.83	0.16	22.67
01-Aug-16	45.83	0.09	22.67
01-Sep-16	45.83	0.06	22.67
01-Oct-16	45.83	0.09	22.67
28-Oct-16	47.48	0.09	23.74
01-Nov-16	47.48	0.14	23.74
01-Dec-16	47.48	0.21	23.74
01-Feb-17	47.48	0.30	23.74
01-Mar-17	47.48	0.43	23.74
01-Apr-17	47.48	0.40	23.74
01-May-17	47.48	0.27	23.74
01-Jun-17	47.48	0.15	23.74
01-Jul-17	47.48	0.13	23.74
01-Aug-17	47.48	0.06	23.74
01-Sep-17	47.48	0.16	23.74
30-Sep-17	48.89	0.16	24.20
01-Oct-17	48.89	0.23	24.20
01-Nov-17	48.89	0.36	24.20
01-Jan-18	48.89	0.35	24.20
01-Feb-18	48.89	0.34	24.20
01-Mar-18	48.89	0.28	24.20
01-Apr-18	48.89	0.23	24.20
01-Jun-18	48.89	0.29	24.20
01-Jul-18	48.89	0.36	24.20
01-Aug-18	48.89	0.42	24.20
01-Sep-18	48.89	0.46	24.20
01-Oct-18	48.89	0.54	24.20
01-Nov-18	48.89	0.63	24.20
07-Nov-18	50.58	0.63	25.29
01-Dec-18	50.58	0.45	25.29
01-Jan-19	50.58	0.28	25.29
01-Feb-19	50.58	0.24	25.29
01-Mar-19	50.58	0.30	25.29
01-Apr-19	50.58	0.31	25.29
01-Jun-19	50.58	0.35	25.29
01-Jul-19	50.58	0.21	25.29
01-Aug-19	56.20	-	28.10
01-Sep-19	59.02	-	29.51
01-Oct-19	61.84	-	30.92
19-May-22	64.84	-	32.42
04-Oct-23	73.08	-	36.54

Source: MoP&NG circulars & OMCs

**Table 8.13A: Retail selling price of major petroleum products
in India & neighbouring countries**

Country/ City	Petrol (₹ /ltr)	Diesel (₹ /ltr)	Kerosene (₹ /ltr)	Domestic LPG (₹ /14.2 kg cyl.)
India (New Delhi)	94.77 [^]	87.67 [^]	56.99 [#]	803.00 ^{**}
Pakistan (Lahore)	75.38	77.43	49.02	1095.41 ^{##}
Bangladesh (Dhaka)	86.08	74.70	74.70	557.63
Sri Lanka (Colombo)	89.86	81.77	52.88	1211.24
Nepal (Kathmandu)	100.66	95.60	95.60	1209.21

[^] Petrol and Diesel at Delhi as on 01.11.2024 as per IOCL

[#] at Mumbai as on 01.11.2024 for PDS Kerosene

^{##} at Islamabad as on 01.11.2024 for Domestic LPG

^{**}Non subsidised Domestic LPG at Delhi as on 01.11.2024

Note - Prices for neighboring countries as available on their respective website as on 01.11.2024

Sources:Websites:

Pakistan- Pakistan State Oil (www.psopk.com) and Oil and Gas Regulatory Authority (www.ogra.org.pk);

Bangladesh- Bangladesh Petroleum Corporation (www.bpc.gov.bd);

Nepal- Nepal Oil Corporation (www.nepaloil.com.np);

Sri Lanka- Petrol, Diesel & Kerosene- Ceylon Petroleum Corporation (www.ceypetco.gov.lk); LPG- Litro Gas Lanka (www.litrogas.com) ;

Exchange rate - www.oanda.com

**Table 8.13B : Monthly Average End-User Prices For Petroleum Products
in India & Developed Countries**

Country	Petrol ¹ (₹ /ltr)	Diesel ² (₹ /ltr)
India (Delhi)	94.77	87.67
France	161.08	148.51
Germany	158.57	143.40
Italy	164.10	152.53
Spain	140.63	129.15
UK	151.53	157.06
Japan	102.16	90.26
Canada	94.70	99.15
USA	71.15	78.78

Note:

1. Unleaded premium (95 RON) for France, Germany, Italy, Spain, UK; regular unleaded for Canada, Japan and the United States

2. Automotive Diesel For Non Commercial Use

3. Prices of France, Germany, Italy, Spain, UK, Japan, Canada & USA: IEA report for Oct 2024 with prices of Sept'24. Monthly Average Exchange Rates of Sept 2024 considered for conversion: Rs. 83.81/USD.

4. Prices in India as of 01.11.2024 as per IOCL. Monthly Average exchange rate of Oct 2024 (up to 31.10.2024).

Table 8.14 : Retail selling price of petroleum products at State capitals / UTs as on 01.11.2024				
State/Union Territory	City	Petrol	Diesel	Domestic LPG (₹/14.2 KG Cylinder)
		(₹/litre)		Non subsidized
Andaman & Nicobar Islands	Port Blair	82.46	78.05	879.00
Andhra Pradesh	Amaravati	109.74	97.57	835.50
Arunachal Pradesh	Itanagar	90.92	80.41	868.50
Assam	Guwahati	98.19	89.42	852.00
Bihar	Patna	105.23	92.09	901.00
Chandigarh	Chandigarh	94.30	82.45	812.50
Chhattisgarh	Raipur	100.39	93.33	874.00
Dadra and Nagar Haveli and Daman & Diu	Daman	92.44	87.94	812.50
Delhi	New Delhi	94.77	87.67	803.00
Goa	Panjim	96.43	88.20	817.00
Gujarat	Gandhinagar	94.70	90.38	828.50
Haryana	Ambala	95.54	88.37	820.50
Himachal Pradesh	Shimla	95.03	87.29	847.50
Jammu & Kashmir	Srinagar	99.71	84.88	919.00
Jharkhand	Ranchi	97.81	92.56	860.50
Karnataka	Bengaluru	102.92	88.99	805.50
Kerala	Thiruvananthapuram	107.48	96.48	812.00
Ladakh	Leh	102.58	87.58	1040.00
Madhya Pradesh	Bhopal	106.52	91.89	808.50
Maharashtra	Mumbai	103.44	89.97	802.50
Manipur	Imphal	99.20	85.26	954.50
Meghalaya	Shillong	96.33	87.52	870.00
Mizoram	Aizawl	99.26	88.05	955.00
Nagaland	Kohima	97.75	88.85	822.00
Odisha	Bhubaneswar	101.11	92.69	829.00
Puducherry	Puducherry	94.26	84.48	815.00
Punjab	Jullandhar	96.87	87.38	832.50
Rajasthan	Jaipur	104.72	90.21	806.50
Sikkim	Gangtok	101.75	88.95	955.50
Tamil Nadu	Chennai	100.80	92.39	818.50
Telangana	Hyderabad	107.46	95.70	855.00
Tripura	Agartala	97.53	86.55	963.50
Uttar Pradesh	Lucknow	94.69	87.81	840.50
Uttarakhand	Dehradun	93.50	88.34	822.00
West Bengal	Kolkata	104.95	91.76	829.00
Source: IOCL				
Highest		Lowest		
Table 8.15 : Retail selling price of PDS kerosene at major Metro cities as on 01.11.2024				
State		Metro City		(₹/litre)
Maharashtra		Mumbai		56.99
Tamil Nadu		Chennai		15.00
West Bengal		Kolkata		59.86
Source: IOCL				
Note: The allocation of PDS kerosene in Delhi is nil presently.				

Table 8.16 : Customs, Excise duty and GST rates on petroleum products as on 01.11.2024

8.16A -Customs duty and Excise duty (Petroleum products on which GST is not levied)

Particulars	Customs duty			Central excise duty			
	Basic customs duty	Additional customs duty (CVD)	Additional customs duty	Basic cenvat duty	Special additional excise duty	Additional excise duty (Road and Infrastructure Cess)	Additional excise duty (Agriculture Infrastructure & Development Cess)
Crude oil	Rs 1/MT + Rs. 50/MT as NCCD	Rs.1/MT	-	Rs. 1/MT+ Cess @ 20% +Rs.50/ MT as NCCD	Rs. NIL/ MT	-	-
Petrol	2.50%	Rs.1.40/ltr. + Rs.11.00/ ltr SAD+ Rs.2.50/ ltr AIDC	Rs.5.00/ltr.	Rs.1.40/ltr	Rs.11.00/ltr	Rs.5.00/ltr.	Rs.2.50/ltr
Petrol (branded)	2.50%	Rs.2.60/ltr. + Rs.11.00/ ltr SAD+ Rs.2.50/ ltr AIDC	Rs.5.00/ltr.	Rs.2.60/ltr	Rs.11.00/ltr	Rs.5.00/ltr.	Rs.2.50/ltr
High speed diesel	2.50%	Rs.1.80/ltr. + Rs.8.00/ ltr SAD+ Rs.4.00/ ltr AIDC	Rs.2.00/ltr.	Rs.1.80/ltr	Rs.8.00/ltr	Rs.2.00/ltr.	Rs.4.00/ltr
High speed diesel (branded)	2.50%	Rs.4.20/ltr. + Rs.8.00/ ltr SAD+ Rs.4.00/ ltr AIDC	Rs.2.00/ltr.	Rs.4.20/Ltr	Rs.8.00/ltr	Rs.2.00/ltr.	Rs.4.00/ltr
Aviation Turbine Fuel (ATF) (note-2)	5.00%	11%	-	11%	-	-	-
Liquefied Natural Gas (LNG)	2.50%	Nil	-	Nil	-	-	-
Natural gas [gaseous state]	5.00%	Nil	-	Nil	-	-	-
Natural gas [compressed]	5.00%	14.00%	-	14.00%	-	-	-

8.16B-Customs duty and GST rates (Petroleum products on which GST is levied)

Particulars		Customs		GST
		Basic Customs Duty	CVD (in lieu of IGST)	
LPG	Domestic (Note-3)	Nil	5.00%	5.00%
	Non - Domestic	5.00%	18.00%	18.00%
Kerosene	PDS	5.00%	5.00%	5.00%
	Non PDS	5.00%	18.00%	18.00%
Naphtha	Fertilizer	Nil	18.00%	18.00%
	Non- Fertilizer	2.50%	18.00%	18.00%
Butane / Propane	Domestic (Note-5)	Nil	5.00%	5.00%
	Non - Domestic	2.50%	18.00%	18.00%
Bitumen & Asphalt		5.00%	18.00%	18.00%
Furnace Oil	Fertilizer	Nil	18.00%	18.00%
	Non- Fertilizer	2.50%	18.00%	18.00%
Light Diesel Oil		5.00%	18.00%	18.00%
Low Sulphur Heavy Stock/ HPS & other Residue	Fertilizer	Nil	18.00%	18.00%
	Non- Fertilizer	5.00%	18.00%	18.00%
Lube oil/greases		5.00%	18.00%	18.00%
Petroleum Coke		10.00%	18.00%	18.00%
Petroleum Jelly		5.00%	18.00%	18.00%
Transformer Oil		5.00%	18.00%	18.00%
Waxes all types		5.00%	18.00%	18.00%

Source: www.cbic.gov.in

Note :

- In addition to the above , 10% Social Welfare Surcharge is also applicable on the total duties of Customs. However, where CVD is payable in lieu of IGST, social welfare surcharge is not applicable on the amount of CVD.
- In case of ATF, Basic Excise Duty / Additional Customs Duty (CVD) is 2% in place of 11%, for supply to scheduled commuter airlines (SCA) from the regional connectivity scheme (RCS) airports.
- Basic Customs duty is Nil for import of domestic LPG sold to household consumers (including non domestic exempted category) by PSU OMCs. Basic Customs duty rate is 5% for other importers of domestic LPG
- An additional Basic Excise duty @Rs 2/ltr has been levied on unblended petrol (not blended with ethanol or methonal) intended for retail sale w.e.f. 01.11.2022.
- Basic Customs duty is Nil for import of Butane / Propane intended to be used as domestic LPG sold to household consumers (including NDEC) by PSU OMCs.

Table 8.17 : Actual rate of sales tax/ VAT/GST and other taxes levied by State/UT Governments on major petroleum products as on 01.11.2024

Sl.no.	State/Union Territory	Petrol	Diesel	PDS kerosene	Domestic LPG
		Sales Tax/VAT		GST	
1	Andaman & Nicobar Islands	1%	1%	5%	5%
2	Andhra Pradesh	31% VAT + Rs.4/litre VAT+Rs.1/litre Road Development Cess and Vat thereon	22.25% VAT + Rs.4/litre VAT+Rs.1/litre Road Development Cess and Vat thereon		
3	Arunachal Pradesh	14.50%	7.00%		
4	Assam	24.77% or Rs.18.80 per litre whichever is higher	22.19% OR Rs. 14.60 per litre whichever is higher Rebate of Rs. 1.50 per litre subject to minimum tax of Rs. 14.60 per litre		
5	Bihar	23.58% or Rs 16.65/Litre whichever is higher (30% Surcharge on VAT as irrecoverable tax)	16.37% or Rs 12.33/Litre whichever is higher (30% Surcharge on VAT as irrecoverable tax)		
6	Chandigarh	Rs.10/KL cess +15.24% or Rs 12.42 per liter which ever is higher	Rs.10/KL cess + 6.66% or Rs5.07 per liter which ever is higher		
7	Chhattisgarh	24% VAT + Rs.2/litre VAT	23% VAT + Rs.1/litre VAT		
8	Dadra & Nagar Haveli and Daman & Diu	12.75% VAT	13.50% VAT		
9	Delhi	19.40% VAT	Rs.250/KL air ambience charges + 16.75% VAT		
10	Goa	21.5% VAT + 0.5% Green cess	17.5% VAT + 0.5% Green cess		
11	Gujarat	13.7% VAT+ 4% Cess on Town Rate & VAT	14.9% VAT + 4 % Cess on Town Rate & VAT		
12	Haryana	18.20% or Rs.14.50/litre whichever is higher as VAT+5% additional tax on VAT	16% VAT or Rs.11.86/litre whichever is higher as VAT+5% additional tax on VAT		
13	Himachal Pradesh	17.50% or Rs 13.50/Litre- whichever is higher	13.90% or Rs 10.40/Litre- whichever is higher		
14	Jammu & Kashmir	24% MST+ Rs.2/Litre employment cess, Reduction of Rs.4.50/Litre	16% MST+ Rs.1.00/Litre employment cess, Reduction of Rs.6.50/Litre		
15	Jharkhand	22% on the sale price or Rs. 17.00 per litre , which ever is higher + Cess of Rs 1.00 per Ltr	22% on the sale price or Rs. 12.50 per litre , which ever is higher + Cess of Rs 1.00 per Ltr		
16	Karnataka	29.84% sales tax	18.44% sales tax		
17	Kerala	30.08% sales tax+ Rs.1/litre additional sales tax + 1% cess , Social security cess Rs.2 per litre	22.76% sales tax+ Rs.1/litre additional sales tax + 1% cess , Social security cess Rs.2 per litre		
18	Ladakh	15% MST+ Rs.5/Litre employment cess, Reduction of Rs.2.5/Litre	6% MST+ Rs.1/Litre employment cess , Reduction of Rs.0.50/Litre		
19	Lakshadweep	10% VAT	10% VAT		
20	Madhya Pradesh	29 % VAT + Rs.2.5/litre VAT+1% Cess	19% VAT+ Rs.1.50/litre VAT+1% Cess		
21	Maharashtra - Mumbai, Thane , Navi Mumbai, & Aurangabad	25% VAT+ Rs.5.12/Litre additional tax	21% VAT		
22	Maharashtra (Rest of State)	25% VAT+ Rs.5.12/Litre additional tax	21% VAT		
23	Manipur	25% VAT	13.50% VAT		
24	Meghalaya	13.50% or Rs13.50/Litre- whichever is higher (Rs.0.10/Litre pollution surcharge)	5% or Rs 9.50/Litre- whichever is higher (Rs.0.10/Litre pollution surcharge)		
25	Mizoram	18%, Social Infrastructure and Services Cess Rs 2000/KL, Road Maintenance Cess Rs 2000/KL	10%, Social Infrastructure and Services Cess Rs 2000/KL, Road Maintenance Cess Rs 2000/KL		
26	Nagaland	21.75% VAT or Rs. 16.94/litre whichever is higher	17.20% VAT or Rs. 12.83/litre whichever is higher		
27	Odisha	28% VAT	24% VAT		
28	Puducherry	14.55% VAT	8.65% VAT		
29	Punjab	Rs.2050/KL (cess)+ Rs.0.10 per Litre (Urban Transport Fund) + 0.25 per Litre (Special Infrastructure Development Fee)+16.58% VAT plus 10% additional tax or Rs.14.93/Litre whichever is higher	Rs.1050/KL (cess) + Rs.0.10 per Litre (Urban Transport Fund) +0.25 per Litre (Special Infrastructure Development Fee) + 13.1% VAT plus 10% additional tax and or Rs.10.94/Litre whichever is higher		
30	Rajasthan	29.04% VAT+Rs 1500/KL road development cess	17.30% VAT+ Rs.1750/KL road development cess		
31	Sikkim	20% VAT+ Rs.4000/KL cess	10% VAT + Rs.3500/KL cess		
32	Tamil Nadu	13% + Rs.11.52 per litre	11% + Rs.9.62 per litre		
33	Telangana	35.20% VAT	27% VAT		
34	Tripura	17.50% VAT+ 3% Tripura Road Development Cess	10.00% VAT+ 3% Tripura Road Development Cess		
35	Uttar Pradesh	19.36% or Rs 14.85/Litre whichever is higher	17.08% or Rs 10.41/Litre whichever is higher		
36	Uttarakhand	16.97% or Rs 13.14 Per Ltr whichever is greater	17.15% or Rs Rs 10.41 Per Ltr whichever is greater		
37	West Bengal	25% or Rs.13.12/litre whichever is higher as sales tax+ Rs.1000/KL cess(20% Additional tax on VAT as irrecoverable tax)	17% or Rs.7.70/litre whichever is higher as sales tax + Rs 1000/KL cess (20% Additional tax on VAT as irrecoverable tax)		

Source: IOCL.

Note:

For Petrol & Diesel, VAT/Sales Tax at applicable rates is also levied on Dealer's commission in Delhi, Gujarat, Dadra & Nagar Haveli and Daman & Diu, Punjab, Haryana, Madhya Pradesh, Rajasthan, Chandigarh, Puducherry, Andaman & Nikobar, Meghalaya & Lakshadweep.

Table 8.18 : Contribution of petroleum sector to exchequer							
							(₹ Crore)
Particulars	2020-21	2021-22	2022-23	2023-24	H1 2023-24	H1 2024-25 (P)	
1. Contribution to Central exchequer							
A.	Tax/ duties on crude oil & petroleum products						
	Cess on crude oil	10676.3	19213.6	21444.7	19580.4	8047.7	7768.9
	Royalty on crude oil / natural gas	3589.8	5638.7	9821.9	9286.2	4612.6	4674.6
	Customs duty	13514.2	11423.4	14985.3	13133.7	6103.6	6695.4
	NCCD on Crude Oil	1016.4	1120.9	1192.4	1190.9	573.0	578.5
	Excise duty	372970.0	363305.0	287575.3	273683.9	116769.0	122507.4
	Service tax	0.3	0.0	0.0	0.0	0.0	0.0
	IGST	11594.1	19726.3	22235.8	20929.7	10109.0	10363.9
	CGST	6157.7	10843.3	13011.6	12230.1	6341.5	5522.8
	Others	365.2	337.6	59.5	51.5	28.2	23.1
	Sub total (A)	419884.0	431608.9	370326.5	350086.4	152584.6	158134.5
B.	Dividend to Government/ income tax etc.						
	Corporate/ income tax	21908.9	29219.3	33291.8	57493.3	21,751.9	19052.6
	Dividend income to Central Government	10392.7	22612.2	15672.7	19309.7	3378.5	4294.4
	Dividend distribution tax	0.0	0.0	0.0	0.0	0.0	0.0
	Profit petroleum on exploration of oil/ gas*	2883.5	8862.1	8776.1	5504.7	3,006.3	1837.5
	Sub total (B)	35185.1	60693.6	57740.7	82307.7	28136.8	25184.5
Total contribution to Central exchequer (A+B)		455069.0	492302.5	428067.1	432394.1	180721.3	183319.0
2. Contribution to State exchequer							
C.	Tax/ duties on crude oil & petroleum products						
	Royalty on crude oil / natural gas	7178.6	13525.5	17914.3	12529.5	5,892.9	6174.4
	Sales tax/ VAT	202937.1	256248.0	288086.2	292716.4	140,540.2	143588.0
	SGST/ UTGST	6120.9	11016.9	13187.6	12288.6	6,379.2	5541.4
	Octroi/ duties (incl. electricity duty)	705.9	826.8	829.9	687.3	349.9	279.6
	Entry tax / others	328.7	354.5	293.0	301.5	148.2	216.1
	Sub total (C)	217271.2	281971.7	320310.9	318523.3	153310.4	155799.3
D.	Dividend to Government/ direct tax etc.						
	Dividend income to State Government	378.6	150.8	340.2	238.5	73.7	67.2
	Sub total (D)	378.6	150.8	340.2	238.5	73.7	67.2
Total contribution to State exchequer (C+D)		217649.7	282122.5	320651.1	318761.8	153384.1	155866.5
Total contribution of petroleum sector to exchequer (1+2)		672718.8	774425.0	748718.3	751155.9	334105.4	339185.5
Source: Based on data provided by 15 oil & gas companies							
Note: Totals may not tally due to round off							
* as provided by MOP&NG.							
(P)- Provisional							

Table 8.19 : State/UT wise collection of sales tax/ VAT by petroleum sector

₹ Crore

Sl. no.	State/Union territory						
		2020-21	2021-22	2022-23	2023-24	H1 2023-24	H1 202-25 (P)
1	Andaman & Nicobar Islands	73.6	80.3	63.2	55.3	28.6	29.0
2	Andhra Pradesh	11013.5	14724.2	16428.6	16688.0	8435.7	7973.6
3	Arunachal Pradesh	104.2	135.9	158.1	176.7	87.2	96.1
4	Assam	3747.1	3901.2	5073.1	5669.5	2706.7	2979.6
5	Bihar	5854.1	6866.9	9848.4	9359.9	4173.5	4183.5
6	Chandigarh	60.1	86.8	99.4	97.2	47.5	49.2
7	Chhattisgarh	4107.1	5178.1	6163.9	6383.1	2865.2	2953.3
8 & 9	Dadra and Nagar Haveli and Daman & Diu	1.3	1.7	0.5	0.6	0.3	0.4
10	Delhi	2652.6	3658.7	4398.1	4002.1	2154.7	2289.8
11	Goa	681.5	993.6	1278.1	1182.7	598.3	617.2
12	Gujarat	15140.8	20697.0	24631.2	23604.9	11441.9	12444.8
13	Haryana	7923.1	10066.7	10029.6	9922.0	5032.5	5188.6
14	Himachal Pradesh	882.5	1313.1	1222.4	1529.6	760.0	831.8
15	Jammu & Kashmir	1443.5	1858.9	1542.6	1621.4	821.6	862.7
16	Jharkhand	3619.4	4392.2	5532.5	5876.2	2733.5	2561.0
17	Karnataka	15476.2	18310.2	18458.7	20030.0	9880.1	10956.6
18	Kerala	6923.8	9264.8	11827.4	12240.5	5219.2	5223.6
19	Ladakh	49.4	81.4	67.7	77.3	42.2	45.9
20	Lakshadweep	0.0	0.0	3.3	19.1	9.6	8.4
21	Madhya Pradesh	11907.8	14157.2	15573.2	15038.4	7026.0	6991.3
22	Maharashtra	25430.1	34002.4	37619.0	36359.3	18481.7	18249.6
23	Manipur	264.6	318.6	330.7	263.6	129.5	134.7
24	Meghalaya	0.0	0.0	0.0	0.0	0.0	0.0
25	Mizoram	84.4	119.7	86.8	96.9	48.9	56.9
26	Nagaland	148.4	179.8	168.5	173.0	84.6	89.8
27	Odisha	6224.2	7655.5	9328.3	9761.5	4142.6	4374.4
28	Puducherry	9.7	10.6	8.5	0.7	0.6	0.1
29	Punjab	6291.4	7889.7	6900.0	7834.4	3942.0	4100.0
30	Rajasthan	15118.6	17401.4	18573.7	19235.7	9465.9	9288.6
31	Sikkim	110.5	155.4	179.4	186.1	96.0	93.1
32	Tamil Nadu	17063.2	20586.2	24309.2	24470.8	11817.8	12045.9
33	Telangana	8690.8	13170.9	14928.9	15159.5	7687.9	7800.2
34	Tripura	444.6	473.9	624.5	578.4	244.4	214.0
35	Uttar Pradesh	21955.8	26333.2	28170.2	30411.4	13878.2	14089.0
36	Uttarakhand	1523.8	1846.5	2072.7	2390.2	1050.0	1124.6
37	West Bengal	7915.7	10335.4	12385.9	12220.5	5405.8	5640.8
	TOTAL	202937.1	256248.0	288086.1	292716.4	140540.2	143588.0

Source: Based on data provided by 15 oil & gas companies

(P)- Provisional

Totals may not tally due to round off

Table 8.20 : State/UT wise collection of SGST/UTGST by petroleum sector

₹ Crore							
Sl. no.	State/Union territory/Others	2020-21	2021-22	2022-23	2023-24	H1 2023-24	H1 202-25 (P)
1	Andaman & Nicobar Islands	0.3	1.0	0.7	0.5	0.2	0.3
2	Andhra Pradesh	111.8	203.5	289.9	310.3	157.3	138.8
3	Arunachal Pradesh	0.3	0.3	0.6	0.8	0.4	0.5
4	Assam	331.8	414.0	445.0	364.2	178.1	168.8
5	Bihar	121.8	146.9	210.5	202.9	107.2	75.0
6	Chandigarh	1.0	1.2	1.9	1.3	0.7	0.7
7	Chhattisgarh	14.3	26.1	29.8	39.5	26.4	9.7
8 & 9	Dadra and Nagar Haveli and Daman & Diu	20.5	14.7	41.2	17.9	8.0	15.3
10	Delhi	36.7	53.8	56.2	71.6	46.3	64.3
11	Goa	10.6	14.6	9.6	18.1	5.3	1.9
12	Gujarat	1566.2	3179.9	3921.9	3343.5	1665.7	1474.8
13	Haryana	528.8	1064.1	1118.6	1032.9	571.9	519.7
14	Himachal Pradesh	5.8	8.0	18.1	8.4	4.6	3.6
15	Jammu & Kashmir	39.5	35.2	24.1	26.5	14.1	9.5
16	Jharkhand	11.9	10.3	28.7	38.4	25.6	8.2
17	Karnataka	260.2	461.2	576.9	436.5	201.6	205.0
18	Kerala	136.5	254.7	332.7	314.7	164.2	165.1
19	Ladakh	0.7	1.0	5.6	1.1	0.5	0.7
20	Lakshadweep	0.0	0.7	0.0	0.0	0.0	0.0
21	Madhya Pradesh	67.6	116.9	173.6	174.8	95.3	67.0
22	Maharashtra	932.5	1822.4	2101.5	1935.4	1111.1	811.0
23	Manipur	1.6	1.8	2.1	2.3	0.9	0.9
24	Meghalaya	0.1	0.2	0.3	0.1	0.0	0.1
25	Mizoram	0.5	0.4	0.5	0.6	0.3	0.3
26	Nagaland	0.5	0.6	0.8	0.7	0.3	0.4
27	Odisha	195.0	420.7	578.9	587.3	292.3	243.6
28	Puducherry	1.2	1.3	4.0	4.5	2.8	2.9
29	Punjab	43.2	345.8	257.5	297.7	133.6	117.1
30	Rajasthan	144.5	196.3	259.7	423.6	185.5	146.2
31	Sikkim	0.3	0.5	0.4	0.5	0.2	0.3
32	Tamil Nadu	439.2	640.3	860.6	768.8	406.4	375.0
33	Telangana	22.4	44.8	32.8	58.7	35.8	22.4
34	Tripura	38.3	16.9	23.0	24.2	12.3	14.0
35	Uttar Pradesh	603.0	826.8	859.3	957.6	474.7	456.2
36	Uttarakhand	8.2	7.4	7.9	6.7	4.1	8.4
37	West Bengal	417.6	673.6	897.5	767.7	405.1	407.2
Others							

Table 8.21: Profit After Tax (PAT) of oil companies						
						(₹ Crore)
Companies	2020-21	2021-22	2022-23	2023-24	H1 2023-24	H1 2024-25 (P)
PSU upstream/midstream companies						
ONGC	11246	40306	38829	40526	20765	20922
OIL	1742	3887	6810	5552	1939	3301
GAIL	4890	10364	5302	8836	3817	5396
Total	17878	54557	50941	54914	26521	29619
PSU downstream Oil Marketing Companies (OMCs)						
IOCL	21836	24184	8242	39619	26718	2823
BPCL*	19042	11363	1870	26674	19052	5412
HPCL	10664	6383	-8974	14694	11322	987
Total	51542	41930	1138	80986	57092	9222
PSU stand alone refineries						
MRPL	-240	2955	2638	3596	2072	-617
CPCL	238	1342	3534	2711	1739	-287
NRL	3036	3562	3703	2163	658	606
Total	3033	7859	9875	8470	4469	-298
PSU consultancy company						
EIL	260	344	342	357	216	134
Total	260	344	342	357	216	134
Private sector companies						
RIL**	31944	39084	44190	42042	20835	15324
NEL	467	1030	9592	12085	#NA	#NA
Total	32411	40114	53782	54127	20835	15324
Source: Published results/ information provided by oil companies. Note: Financials are on standalone basis * BPCL figures for 2022-23 includes BORL & BGRL also after its merger with BPCL. BPCL Figures for 2021-22 have been reinstated here after merger. ** RIL Figures for 2022-23 have been reinstated here after demerger. #NA - Not Available						

Table 8.22 : Financial details of major oil companies

2023-24										
Particulars	IOCL	BPCL	HPCL	ONGC	OIL	GAIL	MRPL	CPCL	NRL	RIL
(₹ Crore)										
Sales turnover	862099	505476	459815	137774	21596	130284	105190	79207	23731	574956
Profit Before Interest and Tax (PBIT)	59672	38021	21669	57098	7505	12252	6635	3883	2963	68703
Interest	7328	2473	2516	4081	760	697	1114	223	48	13430
Tax	12725	8875	4459	12490	1194	2718	1925	949	752	13231
Profit After Tax (PAT)	39619	26674	14694	40526	5552	8836	3596	2711	2163	42042
Net worth	176715	74675	41030	305977	44122	64179	13251	8593	13926	515096
Borrowings (loan fund)	116496	18767	60254	6109	11341	16413	12452	2762	8111	211790
Ratios										
PAT as % of turnover (net sales)	4.60%	5.28%	3.20%	29.41%	25.71%	6.78%	3.42%	3.42%	9.11%	7.31%
Debt (loan fund) to equity ratio	0.66	0.25	1.47	0.02	0.26	0.26	0.94	0.32	0.58	0.41
Earnings Per Share (EPS)	28.77	125.21	103.58	32.22	51.20	13.44	20.52	182.07	13.97	62.14
H1 2023-24										
Particulars	IOCL	BPCL	HPCL	ONGC	OIL	GAIL	MRPL	CPCL	NRL	RIL
(₹ Crore)										
Sales turnover	421531	244155	220888	68622	10328	63866	47652	37959	9794	279567
Profit Before Interest and Tax (PBIT)	38716	26772	16241	29569	2677	5366	3743	2458	910	34079
Interest	3472	1447	1168	2024	389	348	578	122	19	6835
Tax	8526	6273	3751	6781	349	1202	1092	596	233	6409
Profit After Tax (PAT)	26718	19052	11322	20765	1939	3817	2072	1739	658	20835
Net worth	161742	70328	39244	280333	36784	60904	11907	7618	23431	493272
Borrowings (loan fund)	99407	22568	51758	8703	11306	13961	13978	3423	6635	189,500
Ratios										
PAT as % of turnover (net sales)	6.34%	7.80%	5.13%	30.26%	18.77%	5.98%	4.35%	4.58%	6.72%	7.45%
Debt (loan fund) to equity ratio	0.61	0.32	1.32	0.03	0.31	0.23	1.17	0.45	0.28	0.38
Earnings Per Share (EPS)	19.40	89.47	79.81	16.51	17.88	5.81	11.82	116.77	4.33	30.79
H1 2024-25										
Particulars	IOCL	BPCL	HPCL	ONGC	OIL	GAIL	MRPL	CPCL	NRL	RIL
(₹ Crore)										
Sales turnover	408989	245299	228062	68899	11097	66441	56060	34786	11662	280350
Profit Before Interest and Tax (PBIT)	8000	8139	2980	29331	4707	7494	(441)	(288)	865	25985
Interest	4374	913	1673	2339	427	399	499	100	17	5625
Tax	802	1814	320	6070	979	1699	(324)	(101)	242	5036
Profit After Tax (PAT)	2823	5412	987	20922	3301	5396	(617)	(287)	606	15324
Net worth	174278	76244	40220	326888	47638	70493	12282	7480	14265	524317
Borrowings (loan fund)	142727	21529	65666	6141	11375	14583	13245	6114	12683	199871
Ratios										
PAT as % of turnover (net sales)	0.69%	2.21%	0.43%	30.37%	29.75%	8.12%	-1.10%	-0.82%	5.19%	5.47%
Debt (loan fund) to equity ratio	0.82	0.28	1.63	0.02	0.24	0.21	1.08	0.82	0.89	0.38
Earnings Per Share (EPS)	2.05	12.67	4.64	16.63	20.29	8.21	(3.52)	(19.27)	3.91	22.65
NA = Not available										
Source: Published results/ information provided by oil companies										

Table 8.23 : Total subsidy on Peroleum Products & Natural Gas						
						(₹ Crore)
Particulars	2020-21	2021-22	2022-23	2023-24	H1 2023-24	H1 2024-25 (P)
PDS kerosene	0	0	0	0	0	0
Domestic LPG	0	0	22000	0	0	0
Total under-recoveries (A)	0	0	22000	0	0	0
Direct Benefit Transfer for LPG (DBTL) subsidy	3559	0	823	1143	702	99
Project Management Expenditure (PME)*	99	242	32	84	13	0
Total DBTL related subsidies (B)	3658	242	855	1227	715	99
Pradhan Mantri Ujjwala Yojana (PMUY) claims	(34)	1569	6110	10217	3236	2984
Project Management Expenditure (PME) & Information Education and Communication (IEC) expenditure under PMUY*	110	0	0	0	0	0
Total PMUY related subsidy (C)	76	1569	6110	10217	3236	2984
Direct Benefit Transfer of Kerosene (DBTK) subsidy (D)	0	0	0	0	0	0
PMGKY (E)	8162	0	0	0	0	0
Natural gas subsidy for North East	336	405	1354	1174	601	288
Scheme for Promotion of Flagging of Merchant Ships in India	0	22	76	78	44	22
Other subsidies (F)	336	427	1431	1253	645	310
Total subsidy/ under-recovery on petroleum products & natural gas (A+B+C+D+E+F)	12231	2237	30396	12696	4596	3394
(P)- Provisional. Totals may not tally due to round off						
*on payment basis.						
Note: 1. DBTK subsidy for 2019-20 is till Oct'19. The subsidy excludes cash incentive/assistance for establishment of institutional mechanism for direct transfer of subsidy paid to States/UTs.						
Table 8.24 : Quantity and value of Indian crude oil imports						
Year	Quantity (MMT)	Quantity (Million Bbl)	\$ Million	Rs. Crore	\$/bbl (approx)	
2018-19	226.5	1660.2	111,915	7,83,183	67.4	
2019-20	227.0	1663.6	101,376	7,17,001	60.9	
2020-21	196.5	1440.1	62,248	4,59,779	43.2	
2021-22	212.4	1556.8	120,675	9,01,262	77.5	
2022-23	232.7	1705.7	157,531	12,60,372	92.4	
2023-24 (P)	234.2	1717.1	133,366	11,05,176	77.7	
April-Sept 2023-24 (P)	116.7	855.3	64,058	5,28,445	74.9	
April-Sept 2024-25 (P)	120.4	882.7	71,047	5,94,331	80.5	
(P) Provisional						

Chapter-9

Miscellaneous

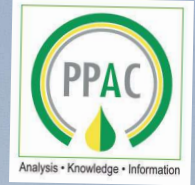


Table 9.1 : Average international Calorific Values of different fuels				
A.	Oil products	M Cals/tonne or K Cal/Kg		
	NGL	12135		
	Kerosene	10638		
	Motor Gasoline	11135		
	Fuel Oil	10440		
B.	Natural gas production (average) - India	8000-9480 K cal/SCM		
C.	India	M Cals/tonne or K Cal/Kg		
	Charcoal	6900		
	Hard coal	5000		
	Firewood	4750		
	Lignite-Brown coal	2310		
Source: Indian Petroleum & Natural Gas Statistics, MOP&NG				
Conversion factor: 1 K Cal = 4.19 K Joules				
Conversion factors				
Table 9.2 : Weight to volume conversion				
Product	Weight (MT)	Volume (KL)	BBL	To convert volume at 29.5° C to volume at 15° C multiply by
Petrol	1	1.4110	8.88	0.9830
Diesel	1	1.2100	7.61	0.9879
Kerosene	1	1.2850	8.08	0.9864
ATF	1	1.2880	8.10	0.9862
Light Diesel Oil	1	1.1720	7.37	0.9877
Furnace Oil	1	1.0424	6.74	0.9899
Crude Oil	1	1.1700	7.33	
Note: Petrol and Diesel are as per BS-IV norms				
Table 9.3 : Volume conversion				
1 US Bbl.			159 Litres	
1 US Gallon			3.78 Litres	
1 Kilo Litre (KL)			6.29 Bbl.	
1 US Bbl.			42 Gallons	
1 MBD (million barrels per day)			50 MMTPA	
Table 9.4 : Contents of LPG & Natural Gas				
Natural Gas	Contains 60-95 % Methane			
LPG	Contains Propane (40%) & Butane (60%)			

Table 9.5 : Natural Gas Conversions

1 SCM (Standard Cubic Meter)	= 1 cubic metre @ 1 atmosphere pressure and 15.56 ° C	
1 Cubic Metre	= 35.31 Cubic feet	
1 BCM(Billion Cubic Metre) / Year of gas	= 2.74 MMSCMD	365 days a year
1 TCF (Trillion Cubic Feet) of Gas Reserve	= 3.88 MMSCMD	100% recoverable
1 MMTPA of LNG	= 3.60 MMSCMD	Molecular weight
1 MT of LNG	= 1314 SCM	Molecular weight
Gross Calorific Value (GCV)	= 10000 Kcal/ SCM	
Net Calorific Value (NCV)	= 90% of GCV	
1 Million BTU (MMBTU)	= 25.2 SCM	@10000
Specific Gravity of Gas	= 0.62	Molecular weight
Density of Gas	= 0.76 Kg/SCM	Molecular weight
Gas required for 1 MW of Power generation	= 4541 SCM per day	Station Heat Rate
Power Generation from 1 MMSCMD Gas	= 220 MWH	Station Heat Rate

Source : GAIL (India) Ltd.

Table 9.6 : Major end use of petroleum products

Product	Major end use
LPG	Domestic and auto fuel. Also for industrial application where technically essential. Now
Naphtha	Feedstock/fuel for fertiliser units, feedstock for petrochemical sector and fuel for power
MS	Fuel for passenger cars, taxis, two & three wheelers.
ATF	Fuel for aircrafts.
SKO	Fuel for cooking & lighting.
HSD	Fuel for transport sector (railways/road), agriculture (tractors, pumpsets, threshers, etc.)
LDO	Fuel for agricultural pumpsets, small industrial units, start up fuel for power generation.
FO/LSHS	Secondary fuel for thermal power plants, fuel/feedstock for fertiliser plants, industrial
Bitumen	Surfacing of roads.
Lubes	Lubrication for automotive and industrial applications.
Petroleum coke	Fuel grade petcoke is used as fuel for cement kilns and electric power plants. Calcined
Other products (Benzene, Toluene,	Feedstock for value added products.



List of Abbreviations			
BBL	Barrel	MMTPA	Million Metric Tonne Per Annum
BCM	Billion Cubic Meter	MoA	Ministry of Agriculture
BPCL	Bharat Petroleum Corporation Limited	MoC&I	Ministry of Commerce & Industry
BPRL	Bharat Petro Resources Limited	MoF	Ministry of Finance
CBM	Coal Bed Methane	MoP&NC	Ministry of Petroleum & Natural Gas
CBR	Cauvery Basin Refinery	MoSPI	Ministry of Statistics and Programme Implementation
CGD	City Gas Distribution	MRPL	Mangalore Refinery and Petrochemicals Limited
CNG	Compressed Natural Gas	Mtoe	Million tonnes of oil equivalent,
DBTL	Direct Benefit Transfer for LPG	NELP	New Exploration Licensing Policy
DGCIS	Directorate General of Commercial Intelligence and Statistics	NGLs	Natural Gas Liquids
DGH	Directorate General of Hydrocarbons	NRL	Numaligarh Refinery Limited
DSF	Discovered Small Field	OALP	Open Acreage Licensing Policy
EBP	Ethanol Blending Programme	OECD	Organisation for Economic Co-operation and Development
FBIL	Financial Benchmark India Private Limited	OIL	Oil India Limited
GA	Geographical Areas	OMCs	Oil Marketing Companies
GAIL	Gas Authority of India Limited	ONGC	Oil and Natural Gas Corporation Limited
GREP	Gas Rehabilitation and Expansion Project	OPEC	Organization of the Petroleum Exporting Countries
GRM	Gross Refining Margins	PDS	Public Distribution System
GSPL	Gujarat State Petronet Limited	PMUY	Pradhan Mantri Ujjwala Yojana
GST	Goods & Service Tax	PNG	Piped Natural Gas
HELP	Hydrocarbon Exploration and Licensing Policy	POL	Petroleum, Oil and Lubricants
HPCL	Hindustan Petroleum Corporation Limited	PPAC	Petroleum Planning & Analysis Cell
IEA	International Energy Agency	PSC	Production Sharing Contracts
IOCL	Indian Oil Corporation Limited	PSU	Public Sector Undertaking
KL	Kilo Litre	R/P ratio	Reserves-to-production ratio
LNG	Liquefied Natural Gas	RBI	Reserve Bank of India
LPG	Liquefied Petroleum Gas	SEZ	Special Economic Zone
MBN	MBTU/Bbl/NRGF	TCF	Trillion cubic feet
MBTU	Thousand British Thermal Unit	Toe	Tonnes of oil equivalent
MMBTU	Metric Million British Thermal Unit	WPI	Wholesale Price Index
MMSCMD	Million Standard Cubic Meter Per Day		
MMT	Million Metric Tonne		



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