

# Snapshot of India's Oil & Gas data

Monthly Ready Reckoner

December 2023







Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

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Petroleum Planning & Analysis Cell (PPAC), an attached office of the Ministry of Petroleum & Natural Gas (MoPNG), Government of India, collects and analyses data on the Oil and Gas sector. It disseminates many reports on the Oil & Gas sector to the various stakeholders. The data is obtained from the Public Sector companies, Government agencies as well as the Private companies. Given the ever-increasing demand for energy and transition of energy demand to renewables and Biofuels, Policy makers and Analysts need to be well informed about the updated trends in the Oil & Gas industry.

The Snapshot of India's Oil & Gas data (Monthly Ready Reckoner), released by PPAC, provides monthly data/information in a single volume for the latest month and historical time series. The Snapshot of India's Oil & Gas data is also published on PPAC's website (www.ppac.gov.in) and is accessible on mobile app-PPACE.

This publication is a concerted effort by all divisions of PPAC. The cooperation of the Oil and Gas industry is acknowledged for their timely inputs.

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#### Highlights for the month

- Indigenous crude oil and condensate production during December 2023 was 2.5 MMT. OIL registered a production of 0.3 MMT, ONGC registered a production of 1.6 MMT whereas PSC/RSC registered production of 0.6 MMT during December 2023. There is a degrowth of 1.03% in crude oil and condensate production during December 2023 as compared to December 2022.
- Total Crude oil processed during December 2023 was 22.7 MMT which is 1.9% higher than December 2022, where PSU/JV refiners processed 15.7 MMT and private refiners processed 7.0 MMT of crude oil. Total indigenous crude oil processed was 2.6 MMT and total Imported crude oil processed was 20.1 by all Indian refineries (PSU+JV+PVT). There was a growth of 3.3 % in total crude oil processed in April December FY 2023 24 as compared to same period of FY 2022 23.
- Crude oil imports increased by 1.1% and 0.4% during December 2023 and April-December 2023 respectively as compared to the corresponding period of the previous year. As compared to net import bill for Oil & Gas for December 2022 of \$10.2 billion, the net import bill for Oil & Gas for December 2023 was \$10.3 billion. Out of which, crude oil imports constitutes \$11.4 billion, LNG imports \$1.1 billion and the exports were \$4.2 billion during December 2023.
- The price of Brent Crude averaged \$77.91/bbl during December 2023 as against \$83.18/bbl during November 2023 and \$81.12/bbl during December 2022. The Indian basket crude price averaged \$77.42/bbl during December 2023 as against \$83.46/bbl during November 2023 and \$78.10 /bbl during December 2022.
- Production of petroleum products was 24.5 MMT during December 2023 which is 4.0% higher than December 2022. Out of 24.5 MMT, 24.2 MMT was from refinery production & 0.3 MMT was from fractionator. There was a growth of 4.9 % in production of petroleum products in April December FY 2023 24 as compared to same period of FY 2022 23. Out of total POL production, in December 2023, share of HSD is 41.7 %, MS 17.4 %, Naphtha 6.1 %, ATF 6.1 %, Pet Coke 5.5 %, LPG 4.8% which are of major products and rest are shared by Bitumen, FO/LSHS, LDO, Lubes & others.

POL products imports decreased by 3.0% and increased by 10.1% during December 2023 and April-December 2023

respectively as compared to the corresponding period of the previous year. Increase in POL products imports during April-December 2023 were mainly due to increase in imports of petcoke, bitumen and fuel oil (FO).

- Exports of POL products decreased by 4.8% and increased by 1.8% during December 2023 and April-December 2023 respectively as compared to the corresponding period of the previous year. Increase in POL products exports during April-December 2023 were mainly due to increase in exports of aviation turbine fuel (ATF) and motor-spirit (MS)
- The consumption of petroleum products during April-December 2023, with a volume of 172.7 MMT, reported a growth of 4.9 % compared to the volume of 164.60 MMT during the same period of the previous year. This growth was led by 5.7% growth in MS, 4.4% in HSD & 12.4% in ATF & 15.4% in Naptha consumption besides LPG, Lubes, Bitumen, Petcoke and LDO during the period. The consumption of petroleum products during December 2023 recorded growth of 2.6% with a volume of 20.1 MMT compared to the same period of the previous year.
- Ethanol blending with Petrol was 11.1% during December 2023 and cumulative ethanol blending during November 2023 December 2023 was 10.7%.
- Total Natural Gas Consumption (including internal consumption) for the month of December 2023 was 5472 MMSCM which was 8.9% higher than the corresponding month of the previous year. The cumulative consumption of 49540 MMSCM for the current financial year till December 2023 was higher by 9.4% compared with the corresponding period of the previous year.
- Gross production of natural gas for the month of December 2023 (P) was 3132 MMSCM which was higher by 6.1 % compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 27213 MMSCM for the current financial year till December 2023 was higher by 5.2 % compared with the corresponding period of the previous year.
- LNG import for the month of December 2023 (P) was 2393 MMSCM which was 12.1% higher than the corresponding month of the previous year. The cumulative import of 22856 (P) MMSCM for the current financial year till December 2023 was higher by 14.2% compared with the corresponding period of the previous year.



	1. S	elected inc	licators of	the Indiar	n economy	1		
	<b>Economic indicators</b>	<b>Unit/ Base</b>	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	Population (basis RGI projections)	Billion	1.323	1.337	1.351	1.365	1.377	1.388
2	GDP at constant (2011-12 Prices)	Growth %	6.5 2nd RE	4.0 1st RE	-6.6 1st RE	9.1 1st RE	7.2 PE	7.3 H1, 2023-24 (E)
3	Agricultural Production	MMT	285.2	297.5	310.7	315.7 4th AE	323.6 2nd AE	-
	(Food grains)	Growth %	0.1	4.3	4.5	1.6	2.5	-
4	Gross Fiscal Deficit (as percent of GDP)	%	3.4	4.6	9.5 RE	6.7 RE	6.4 RE	7.8 (Q1) E
	Economic indicators	Unit/ Base	2021-22	2022-23	Dece	mber	April-De	ecember
					2022-23	2023-24 (P)	2022-23	2023-24 (P)
5	Index of Industrial Production (Base: 2011-12)	Growth %	11.4	5.5#	7.6*	2.4* QE	5.6#	6.4#
6	Imports^	\$ Billion	611.9	714.2	61.2	58.3	548.6	505.2
7	Exports^	\$ Billion	422.0	451.0	38.1	38.5	336.3	317.1

Population projection by RGI is taken as on 1st July for the year. IIP is for the month of \*Nov'23 and #April-Nov'23; @ 2021-22 - as on March 25, 2022, 2022-23 as on March 31, 2023, December 2022 as on December 30, 2022 and December, 2023 as on December 29, 2023; ^Imports & Exports are for Merchandise for the month of December 2023; E: Estimates; PE: Provisional Estimates; AE-Advanced Estimates; RE-Revised Estimates: OF-Quick Estimates.

-263.2

578.4

-23.1

562.9

RE-Revised Estimates: QE-Quick Estimates. **Source**: Registrar General India, Ministry of Commerce & Industry, Ministry of Statistics and Programme Implementation, Ministry of Agriculture & Farmer's Welfare, Ministry of Finance, Reserve Bank of India

-189.9

617.6

\$ Billion

\$ Billion

Trade Balance

Foreign Exchange Reserves @

-212.3

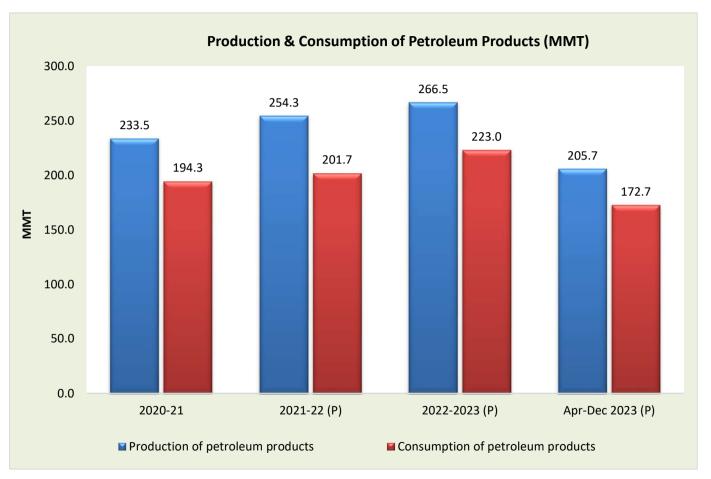
-188.0

-19.8

623.2

	2. Crude oil, LNG and petroleum products at a glance											
	Details	Unit/ Base	2021-22	2022-23	Dece	mber	April-De	cember				
			(P)	(P)	2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)				
1	Crude oil production in India <sup>#</sup>	MMT	29.7	29.2	2.5	2.5	22.1	22.0				
2	Consumption of petroleum products*	MMT	201.7	223.0	19.5	20.1	164.6	172.7				
3	Production of petroleum products	MMT	254.3	266.5	23.6	24.5	196.1	205.7				
4	Gross natural gas production	MMSCM	34,024	34,450	2,951	3,132	25,868	27,213				
5	Natural gas consumption	MMSCM	64,159	59,969	5,023	5,472	45,278	49,541				
6	Imports & exports:											
	Crude oil imports	MMT	212.4	232.7	19.6	19.8	172.3	172.9				
	crude on imports	\$ Billion	120.7	157.5	11.4	11.4	124.9	98.4				
	Petroleum products (POL)	MMT	39.0	44.6	4.1	3.9	32.7	36.0				
	imports*	\$ Billion	23.7	26.9	2.2	2.0	20.5	17.3				
	Gross petroleum imports	MMT	251.4	277.3	23.7	23.8	205.0	209.0				
	(Crude + POL)	\$ Billion	144.3	184.4	13.6	13.4	145.4	115.7				
	Petroleum products (POL)	MMT	62.8	61.0	5.7	5.4	45.4	46.2				
	export	\$ Billion	44.4	57.3	4.5	4.2	44.9	35.7				
	LNG imports*	MMSCM	31,028	26,304	2,136	2,393	20,011	22,856				
	LING Imports	\$ Billion	13.5	17.1	1.1	1.1	13.7	9.9				
	Net oil & gas imports	\$ Billion	113.4	144.2	10.2	10.3	114.2	89.9				
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	23.6	25.8	23.9	24.6	29.8	26.0				
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	10.5	12.7	12.9	12.3	15.1	12.8				
9	Import dependency of crude oil (on POL consumption basis)	%	85.5	87.4	87.3	86.5	87.0	87.5				

#Includes condensate; \*Private direct imports are prorated for the period Nov'23 to Dec'23 for POL. RIL data prorated. LNG Imports figure from DGCIS are prorated for Nov'23 to December 2023. Total may not tally due to rounding off.





Crude Oil, Refining & Production

3. Indigenous crude oil production (Million Metric Tonnes)												
Details	2021-22	2022-23		December		A	April-December					
		(P)	2022-23 (P)	2023-24 Target*	2023-24 (P)	2022-23 (P)	2023-24 Target*	2023-24 (P)				
ONGC	18.5	18.4	1.6	1.6	1.5	14.0	14.5	13.6				
Oil India Limited (OIL)	3.0	3.2	0.3	0.3	0.3	2.4	2.5	2.5				
Private / Joint Ventures (JVs)	7.0	6.2	0.5	0.6	0.5	4.8	5.5	4.3				
Total Crude Oil	28.4	27.8	2.4	2.5	2.3	21.1	22.6	20.4				
ONGC condensate	0.9	1.0	0.1	0.0	0.1	0.8	0.0	0.8				
PSC condensate	0.3	0.31	0.03	0.0	0.1	0.2	0.0	0.8				
Total condensate	1.2	1.4	0.12	0.0	0.2	1.0	0.0	1.6				
Total (Crude + Condensate) (MMT)	29.7	29.2	2.5	2.5	2.5	22.1	22.6	22.0				
Total (Crude + Condensate) (Million Bbl/Day)	0.60	0.59	0.59	0.59	0.58	0.59	0.60	0.59				

<sup>\*</sup>Provisional targets inclusive of condensate.

4. Domestic and overseas oil & gas production (by Indian Companies)											
Details 2021-22 2022-23 December April-December											
		(P)	2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)					
Total domestic production (MMTOE)	63.7	63.6	5.4	5.6	47.9	49.2					
Overseas production (MMTOE)	21.8	19.5	1.5	1.7	14.2	14.9					

Source: ONGC Videsh, GAIL, OIL, IOCL, HPCL & BPRL

	5. High Sulphur (HS) & Low Sulphur (LS) crude oil processing (MMT)												
	Details	2021-22	2022-23	Dece	mber	April-December							
			(P)	2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)						
1	High Sulphur crude	185.0	197.9	17.0	18.0	145.7	151.5						
2	Low Sulphur crude	56.7	57.4	5.2	4.7	42.9	43.2						
Total c	rude processed (MMT)	241.7	255.2	22.3	22.7	188.6	194.7						
Total c	rude processed (Million Bbl/Day)	4.85	5.13	5.27	5.36	5.03	5.19						
Percer	tage share of HS crude in total crude oil processing	76.6%	77.5%	76.5%	79.2%	77.3%	77.8%						

6. Quantity and value of crude oil imports										
Year	Quantity (MMT)	Quantity (MMT) \$ Million								
2021-22	212.4	1,20,675	9,01,262							
2022-23	232.7	1,57,531	12,60,372							
April-Dec 2023-24(P)	172.9	98,375	8,13,733							

	7. Self-sufficiency in petroleum products (Million Metric Tonnes)												
	Particulars	2021-22	2022-23	Dece	mber	April-De	cember						
	Faiticulais		(P)	2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)						
1	Indigenous crude oil processing	27.0	26.4	2.3	2.6	20.1	20.3						
2	Products from indigenous crude (93.3% of crude oil processed)	25.2	24.7	2.2	2.4	18.8	18.9						
3	Products from fractionators (Including LPG and Gas)	4.1	3.5	0.3	0.3	2.7	2.6						
4	Total production from indigenous crude & condensate (2 + 3)	29.3	28.2	2.5	2.7	21.4	21.5						
5	Total domestic consumption	201.7	223.0	19.5	20.1	164.6	172.7						
% Self	-sufficiency (4 / 5)	14.5%	12.6%	12.7%	13.5%	13.0%	12.5%						

	8. Refineries: Installed capacity and crude oil processing (MMTPA / MMT)												
Sl. no.	Refinery	Installed			Crı	ıde oil prod	essing (MN	/IT)					
		capacity	2021-22	2022-23		December		April-December					
		(01.04.2023)		(P)	2022-23	2023-24	2023-24	2022-23	2023-24	2023-24			
		MMTPA			(P)	(Target)	(P)	(P)	(Target)	(P)			
1	Barauni (1964)	6.0	5.6	6.8	0.5	0.6	0.6	5.1	5.0	5.0			
2	Koyali (1965)	13.7	13.5	15.6	1.3	1.3	1.3	11.7	10.6	11.4			
3	Haldia (1975)	8.0	7.3	8.5	0.7	0.7	0.7	6.4	5.5	5.9			
4	Mathura (1982)	8.0	9.1	9.6	0.9	0.9	0.8	7.1	6.8	6.8			
5	Panipat (1998)	15.0	14.8	13.8	0.9	1.2	1.2	10.0	10.7	11.3			
6	Guwahati (1962)	1.0	0.7	1.1	0.07	0.09	0.1	0.8	0.7	0.7			
7	Digboi (1901)	0.65	0.7	0.7	0.06	0.06	0.07	0.5	0.5	0.5			
8	Bongaigaon(1979)	2.70	2.6	2.8	0.3	0.2	0.3	2.0	2.2	2.3			
9	Paradip (2016)	15.0	13.2	13.6	1.4	1.3	1.4	9.6	11.4	11.2			
	IOCL-TOTAL	70.1	67.7	72.4	6.2	6.4	6.5	53.2	53.4	55.0			
10	Manali (1969)	10.5	9.0	11.3	1.0	0.9	0.8	8.4	7.5	8.6			
11	CBR (1993)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	CPCL-TOTAL	10.5	9.0	11.3	1.0	0.9	0.8	8.4	7.5	8.6			
12	Mumbai (1955)	12.0	14.4	14.5	1.3	1.3	1.4	10.5	10.7	11.1			
13	Kochi (1966)	15.5	15.4	16.0	1.5	1.4	1.6	11.5	11.8	13.0			
14	Bina (2011)	7.8	7.4	7.8	0.7	0.7	0.7	5.8	5.1	5.1			
	BPCL-TOTAL	35.3	37.2	38.4	3.6	3.3	3.6	27.8	27.6	29.2			
15	Numaligarh (1999)	3.0	2.6	3.1	0.3	0.3	0.3	2.4	2.0	1.7			

Sl. no.	Refinery	Installed			Cruc	de oil proce	essing (MM	IT)		
		capacity	2021-22	2022-23		December	•	April-December		
		(01.04.2023)			2022-23	2023-24	2023-24	2022-23	2023-24	2023-24
		MMTPA				(Target)	(P)		(Target)	(P)
16	Tatipaka (2001)	0.07	0.08	0.07	0.01	0.006	0.006	0.06	0.05	0.05
17	MRPL-Mangalore (1996)	15.0	14.9	17.1	1.5	1.5	1.6	12.7	11.6	12.0
	ONGC-TOTAL	15.1	14.9	17.2	1.5	1.5	1.6	12.8	11.6	12.1
18	Mumbai (1954)	9.5	5.6	9.8	0.9	0.5	0.8	7.3	6.7	7.6
19	Visakh (1957)	11.0	8.4	9.3	0.8	1.1	0.9	6.8	8.7	8.9
20	HMEL-Bathinda (2012)	11.3	13.0	12.7	1.1	1.0	1.1	9.5	8.5	9.8
	HPCL- TOTAL	31.8	27.0	31.8	2.8	2.6	2.9	23.6	23.9	26.3
21	RIL-Jamnagar (DTA) (1999)	33.0	34.8	34.4	2.8	2.8	2.8	26.2	26.2	25.7
22	RIL-Jamnagar (SEZ) (2008)	35.2	28.3	27.9	2.5	2.5	2.5	20.5	20.5	20.9
23	NEL-Vadinar (2006)	20.0	20.2	18.7	1.7	1.7	1.7	13.7	13.7	15.2
All India	(MMT)	253.9	241.7	255.2	22.3	22.0	22.7	188.6	186.4	194.7
All India	(Million Bbl/Day)	5.02	4.85	5.13	5.27	5.20	5.36	5.03	4.97	5.19

Note: Provisional Targets; Some sub-totals/ totals may not add up due to rounding off at individual levels. The Inputs to Refinery includes both Crude Oil and Other Inputs (OI), however Other Inputs (OI) do not form part of the above data.

	9. Major crude oil and product pipeline network (as on 01.01.2024)												
Det	Details ONGC OIL Cairn HMEL IOCL BPCL HPCL Others* Total												
Crude Oil	Length (KM)	1,284	1,193	688	1,017	5,819	937			10,938			
	Cap (MMTPA)	60.6	9.0	10.7	11.3	53.8	7.8			153.1			
Products	Length (KM)		654			12,235	2,600	5,123	2,399	23,011			
	Cap (MMTPA)		1.7			70.6	22.6	35.2	10.2	140.3			

<sup>\*</sup>Others include GAIL and Petronet India. HPCL and BPCL lubes pipeline included in products pipeline data

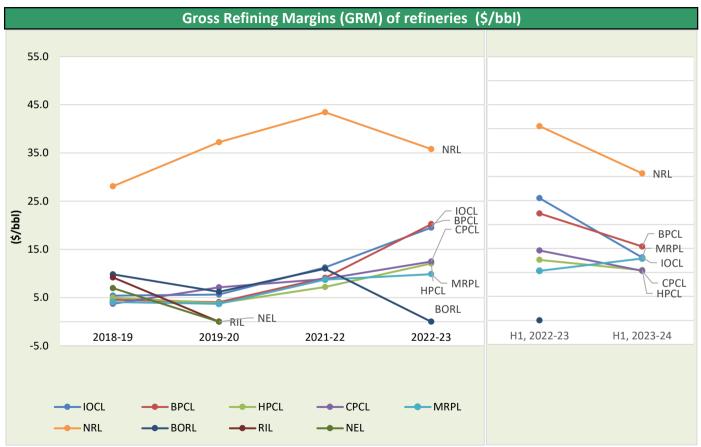
# OIL & GAS MAP OF INDIA LEGENDS LEGENDS

	10. Gross Refining Margins (GRM) of refineries (\$/bbl)											
Company	2020-21	2021-22	2022-23	Apr -	Sept							
Company	1010 11		1011 10	2022-23	2023-24							
IOCL	5.64	11.25	19.52	25.49	13.12							
BPCL	4.06	9.09	20.24	22.30	15.42							
HPCL	3.86	7.19	12.09	12.62	10.49							
CPCL	7.14	8.85	12.48	14.58	10.34							
MRPL	3.71	8.72	9.88	10.33	12.91							
NRL	37.23	43.46	35.82	40.51	30.65							
BORL	6.20	11.00	#	#	#							
RIL	*	*	*	*	*							
NEL	*	*	*	*	*							

GRM of North Eastern refineries are including excise duty benefit

<sup>#</sup> BPCL figures effective 2022-23 includes BORL also after its merger with BPCL

<sup>\*</sup>Not available



# GRM of North Eastern refineries are including excise duty benefit



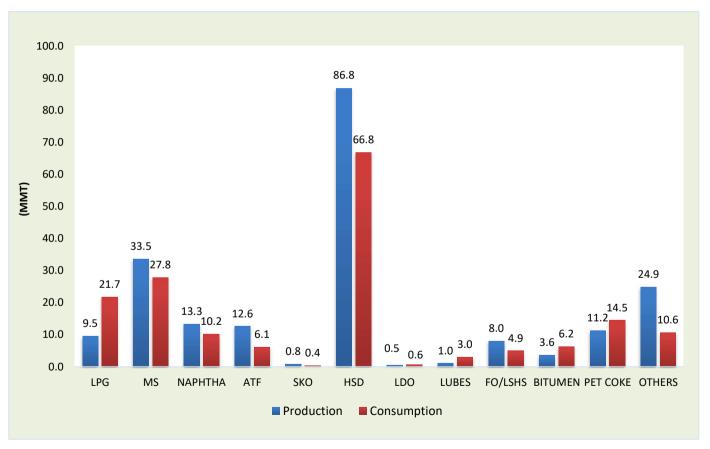
PART-C

Consumption

	11. Production and consumption of petroleum products (Million Metric Tonnes)												
Duaduata	202	1-22	2022-23 (P)		Dec-	2022	Dec-2	023 (P)	Apr-De	ec 2022	Apr-Dec	2023 (P)	
Products	Prod	Cons	Prod	Cons	Prod	Prod Cons		Cons	Prod	Cons	Prod	Cons	
LPG	12.2	28.3	12.8	28.5	1.1	2.6	1.2	2.6	9.6	21.2	9.5	21.7	
MS	40.2	30.8	42.8	35.0	3.7	3.0	4.3	3.0	31.4	26.3	33.5	27.8	
NAPHTHA	20.0	13.2	17.0	12.2	1.4	1.0	1.5	1.3	12.7	8.8	13.3	10.2	
ATF	10.3	5.0	15.0	7.4	1.3	0.7	1.5	0.7	10.9	5.4	12.6	6.1	
SKO	1.9	1.5	0.9	0.5	0.0	0.0	0.1	0.0	0.7	0.4	0.8	0.4	
HSD	107.2	76.7	113.8	85.9	10.0	7.8	10.2	7.6	83.9	63.9	86.8	66.8	
LDO	0.8	1.0	0.6	0.7	0.04	0.1	0.05	0.1	0.4	0.5	0.5	0.6	
LUBES	1.2	4.5	1.3	3.7	0.1	0.3	0.1	0.3	0.9	2.7	1.0	3.0	
FO/LSHS	8.9	6.3	10.4	7.0	0.9	0.6	0.8	0.6	8.0	5.2	8.0	4.9	
BITUMEN	5.1	7.8	4.9	8.0	0.4	0.7	0.5	0.8	3.4	5.4	3.6	6.2	
PET COKE	15.5	14.3	15.4	18.3	1.4	1.4	1.3	1.6	11.3	13.4	11.2	14.5	
OTHERS	30.9	12.3	31.5	15.8	3.2	1.3	3.0	1.4	23.0	11.4	24.9	10.6	
ALL INDIA	254.3	201.7	266.5	223.0	23.6	19.5	24.5	20.1	196.1	164.6	205.7	172.7	
Growth (%)	-3.1%	-5.4%	4.8%	10.6%	3.7%	3.4%	4.0%	2.6%	5.4%	12.0%	4.9%	4.9%	

Note: Prod - Production; Cons - Consumption

#### Petroleum Products: April-December 2023 (P) (MMT)



12. Kerosene allocation vs upliftment (Kilo Litres)												
Product	202	0-21	202	1-22	2022	2-23	2023-24 (P)*					
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment				
PDS Kerosene 23,15,008 20,38,790 17,83,344 16,59,906 12,43,644 3,96,115 7,95,048 4,88,444												

\* Allocation is for Apr-Dec 2023-24 and upliftment is for Apr-Dec' 2023

13. Ethanol blending programme												
	Ethanol Supply Year *											
Particulars	2020-21	2021-22	2022-23	Dec'23	Nov'23-Dec'23							
Ethanol received by PSU OMCs under EBP Program			(Dec'22- Oct'23)									
(in Cr. Litrs)	296.1	408.1	494.0	51.5	64.0							
Ethanol blended under EBP Program (in Cr. Litrs)	302.3	433.6	508.8	41.6	82.1							
Average Percentage of Blending Sales (EBP%)	8.1%	10.0%	12.1%	11.1%	10.7%							

<sup>\*</sup>Ethanol Supply Year: Ethanol supply year for 2022-23 taken for Dec'22-Oct'23 & thereafter changed to ethanol supplies between 1st December of the present year to 31st October of the following year.

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

14. Industi	rv marketi	ng infrastr	ucture (as	on 01.01.	.2024) (Pro	ovisional)		
Particulars	IOCL	BPCL	HPCL	RIL/RBML/RSIL	NEL	SHELL	MRPL & Others	Total
POL Terminal/ Depots (Nos.) <sup>5</sup>	126	83	81	17	3		6	316
Aviation Fuel Stations (Nos.) <sup>@</sup>	132	65	55	31			1	284
Retail Outlets (total) (Nos.),	36,994	21,532	21,593	1,671	6,582	341	80	88,793
out of which Rural ROs	12,016	5,422	5,349	130	2,111	88	27	25,143
SKO/LDO agencies (Nos.)	3,849	927	1,638					6,414
LPG Distributors (total) (Nos.) (PSUs only)	12,871	6,246	6,332					25,449
LPG Bottling plants (Nos.) (PSUs only)#	98	53	56				3	210
LPG Bottling capacity (TMTPA) (PSUs only)	10,913	4,980	6,530				203	22,626
LPG active domestic consumers (Nos. crore) (PSUs only)	14.9	8.3	8.8					32.0
3(Others=1 MRDI & 2 NRI) (Others=ShellMRDI)	"(Others-MPDI)	· #/Othors-NDI-1	OII_1 CDCI_1\	· */Others-NDL-	20 UII-33 CDCI	-120\· RRMI - F	Reliance RP Mohil	ity Limited DSII -

others=4 MRPL & 2 NRL); "(Others=ShellMRPL); "(Others=MRPL); "(Others=NRL-1, OlL-1, CPCL-1); "(Others=NRL-60, OlL-23, CPCL-120); RBML- Reliance BP Mobility Limited; RSIL-

RBML Solutions India Ltd.

Industry Alternate fuel in	กfrastructเ	ıre at Reta	il outlets (	Nos. of RC	)s as on 01	L.01.2024	) (Provisio	nal)
Alternate fuel	IOCL	BPCL	HPCL	RBML/RSIL	NEL	SHELL	MRPL	Total
CNG_LNG	1971	1711	1570	25	36	0	2	5315
EV Charging	7309	975	2402	47	323	263	7	11326
Auto LPG	326	44	105	56	51	0	0	582
Compressed Bio-Gas outlets	67	41	4	4		0	0	116
Total Retail outlets with at least one	8945	2450	3727	113	410	263	9	15917
Solarization at Retail outlets	22394	5527	11930	74	979	0	0	40904



PART-D

LPG

LPG category	2021-22	2022-23		December		Ар	ril-December					
			2022-23	2022-23 2023-24 (P) Growth (%)		2022-23	2023-24 (P)	Growth (%)				
I. PSU Sales :												
LPG-Packed Domestic	25,501.6	25,381.5	2,253.9	2,334.2	3.6%	18,891.4	19,188.1	1.6%				
LPG-Packed Non-Domestic	2,238.8	2,606.0	266.4	241.7	-9.3%	1,922.2	2,055.1	6.9%				
LPG-Bulk	390.9	408.9	40.3	45.6	13.2%	302.9	434.4	43.4%				
Auto LPG	122.0	106.7	9.0	6.7	-25.3%	82.4	68.2	-17.2%				
Sub-Total (PSU Sales)	28,253.3	28,503.1	2,569.6	2,628.3	2.3%	21,198.9	21,745.9	2.6%				
2. Direct Private Imports*	0.1	0.1	0.03	0.01	-70.2%	0.05	0.05	14.4%				
Total (1+2)	28,253.4	28,503.2	2,569.6	2,628.3	2.3%	21,198.9	21,745.9	2.6%				

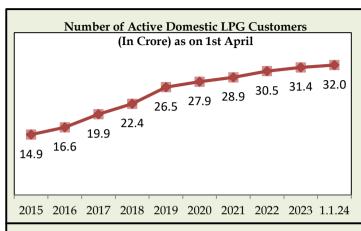
\*Nov-Dec'23 DGCIS data is prorated

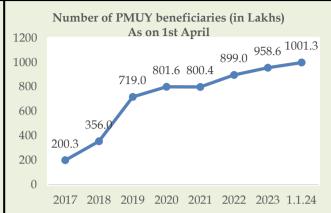
				16.	LPG ma	arketin	g at a g	glance						
Particulars	Unit	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	1.01.24
(As on 1st of April)														(P)
LPG Active Domestic	(Lakh)				1486	1663	1988	2243	2654	2787	2895	3053	3140	3199
Customers	Growth					11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	5.5%	2.9%	2.0%
LPG Coverage (Estimated)	(Percent)				56.2	61.9	72.8	80.9	94.3	97.5	99.8	-	-	-
LPG Coverage (Estimateu)	Growth					10.1%	17.6%	11.1%	16.5%	3.4%	2.3%	-	-	-
DNALLY Depositions	(Lakh)						200.3	356	719	802	800	899.0	958.6	1001.3
PMUY Beneficiaries	Growth							77.7%	101.9%	11.5%	-0.2%	12.2%	6.6%	4.4%
LPG Distributors	(No.)	11489	12610	13896	15930	17916	18786	20146	23737	24670	25083	25269	25386	25449
LPG DISTRIBUTORS	Growth	9.0%	9.8%	10.2%	14.6%	12.5%	4.9%	7.2%	17.8%	3.9%	1.7%	0.7%	0.5%	0.4%
Auto LPG Dispensing	(No.)	652	667	678	681	676	675	672	661	657	651	601	526	475
Stations	Growth	7.9%	2.3%	1.6%	0.4%	-0.7%	-0.1%	-0.4%	-1.6%	-0.6%	-0.9%	-8.5%	-12.5%	-16.2%
Dottling Dlants	(No.)	184	185	187	187	188	189	190	192	196	200	202	208	210
Bottling Plants	Growth	0.5%	0.5%	1.1%	0.0%	0.5%	0.5%	0.5%	1.1%	2.1%	2.0%	1.0%	4.5%	1.9%

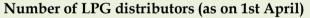
Source: PSU OMCs (IOCL, BPCL and HPCL)

<sup>1.</sup> Growth rates as on 01.12.2023 are with respect to figs as on 01.12.2022. Growth rates as on 1 April of any year are with respect to figs as on 1 April of previous year.

<sup>2.</sup> 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.



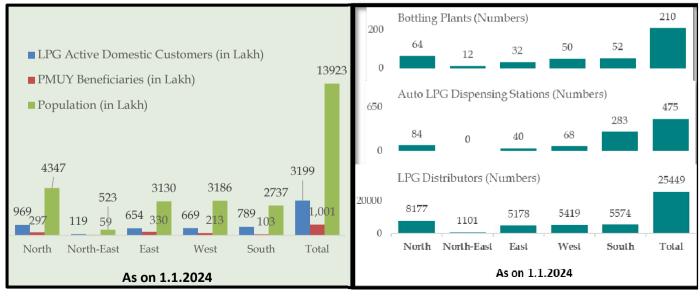






17-Region-wise data on LPG marketing (As on 01.01.2024)												
Particulars	North	North-East	East	West	South	Total						
LPG Active Domestic Customers (in Lakh)	968.8	119.2	653.9	668.8	788.9	3199.5						
Population^ (in Lakh)	4347.5	523.0	3130.2	3185.9	2736.7	13923.3						
PMUY Beneficiaries (in Lakh)	296.6	58.6	329.9	213.0	103.1	1001.3						
LPG Distributors (Numbers)	8177	1101	5178	5419	5574	25449						
Auto LPG Dispensing Stations (Numbers)	84	0	40	68	283	475						
Bottling Plants* (Numbers)	64	12	32	50	52	210						

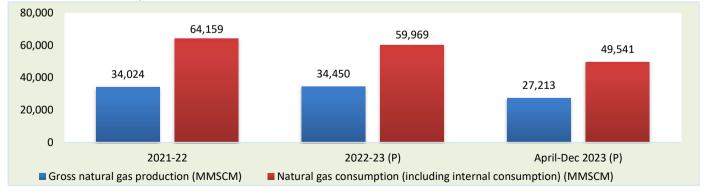
<sup>\*</sup>Includes Numaligarh BP, Duliajan BP and CPCL BP. ^Population as on 1st July 2023 taken from RGI POPULATION PROJECTIONS 2011 – 2036





18. Natural gas at a glance												
								(MMSCM)				
Details	2021-22	2022-23		December		April-December						
	(P)	(P)	2022-23	2023-24	2023-24	2022-23	2023-24	2023-24 (P)				
			(P)	(Target)	(P)	(P)	(Target)					
(a) Gross production	34,024	34,450	2,951	3,296	3,132	25,868	28,387	27,213				
- ONGC	20,629	19,969	1,680	1,687	1,605	15,057	15,496	14,550				
- Oil India Limited (OIL)	2,893	3,041	257	273	263	2,295	2,368	2,311				
- Private / Joint Ventures (JVs)	10,502	11,440	1,014	1,336	1,264	8,516	10,524	10,352				
(b) Net production (excluding flare gas and loss)	33,131	33,664	2,888		3,079	25,267		26,685				
(c) LNG import <sup>#</sup>	31,028	26,304	2,136		2,393	20,011		22,856				
(d) Total consumption including internal consumption (b+c)	64,159	59,969	5,023		5,472	45,278		49,541				
(e) Total consumption (in BCM)	64.2	60.0	5.0		5.5	45.3		49.5				
(f) Import dependency based on consumption (%), {c/d*100}	48.4	43.9	42.5		43.7	44.2		46.136				

# December 2023 DGCIS data prorated.



19. Coal Bed Methane (CBM) gas development in India												
Prognosticated CBM resources		91.8	TCF									
Established CBM resources	10.4	TCF										
CBM Resources (33 Blocks)	62.8	TCF										
Total available coal bearing areas (India)	32760	Sg. KM										
Total available coal bearing areas with MoPNG/DGH		12254*	Sg. KM									
Area awarded		21,177**	Sg. KM									
Blocks awarded*		39	Nos.									
Exploration initiated (Area considered if any boreholes were drilled	in the awarded block)	10670	Sg. KM									
Production of CBM gas	486.14	MMSCM										
Production of CBM gas	Dec 2023 (P)	53.92	MMSCM									

\*ST CBM Block awarded & relinquished twice- in CBM Round II and Round IV -Area considered if any boreholes were drilled in the awarded block. \*\*MoPNG awarded 04 new CBM Blocks (Area 3862 sq. km) under Special CBM Bid Round 2021 in September 2022. \*\*\*Area considered if any boreholes were drilled in the awarded block.

19a. Status of Compressed Bio Gas (CBG) projects under SATAT (as on 01.01.2024) (Provisional)													
Particulars	Units	IOCL	HPCL	BPCL	GAIL#	IGL	Total						
No. of CBG plants commissioned and initiated sale of CBG	No. of plants	25	7	5	10	5	52						
Start of CBG sale from retail outlet(s)	Nos.	69	34	45	1	3	152						
Sale of CBG in 2022-23	Tons	5,822	77	6	5322		11,227						
Sale of CBG in 2023-24 (up to December, 2023)	Tons	4622	153	27	6579*		11421						
Sale of CBG in CGD network	GA Nos.				21		21						

#Sale of CBG sourced under CBG-CGD synchronization by GAIL through its own marketing channels and other CGDs/OMCs. \*Sale through synchronization is upto November' 2023.

	20. Common Carrier Natural Gas pipeline network as on 30.09.2023													
Nature of pip	oeline	GAIL	GSPL	PIL	IOCL	AGCL	RGPL	GGL	DFPCL	ONGC	GIGL	GITL	Others*	Total
Operational	Length	11,007	2,716	1,479	143	107	304	73	42	24	0	0	0	15,895
-	Capacity	167.2	43.0	85.0	20.0	2.4	3.5	5.1	0.7	6.0				-
Partially	Length	4,714	0	0	1,040	0	0	0	0	0	1,285	0	365	7,403
commissioned#	Capacity	55.0	0.0	0.0	84.7	0.0	0.0	0.0	0.0	0.0	122.5	0.0	0.0	-
Total operational len	gth	15,720	2,716	1,479	1,183	107	304	73	42	24	1,285	0	365	23,298
Under construction	Length	3,955	100	0	456	0	0	0	0	0	916	220	4,361	10,009
	Capacity	26.3	3.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	36.0	0.0	-
Total lengt	:h	19,676	2,816	1,479	1,639	107	304	73	42	24	2,201	220	4,726	33,307

Source: PNGRB; Length in KMs; Authorized Capacity in MMSCMD (Arithmetic sum taken for each entity -capacity may vary from pipeline to pipeline); \*Others-APGDC, , IGGL, IMC,GTIL,HPPL Consortium of

H-Energy. Total authorized Natural Gas pipelines including Tie-in connectivity, dedicated & STPL is 33,307 Kms (P), however total operational and Under Construction Pipeline length is 35,483 Kms (P).

21. Existing LNG terminals				
Location	Promoters	Capacity as on 01.01.2024	% Capacity utilisation (April-Nov 2023)	
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	94.4	
Hazira	Shell Energy India Pvt. Ltd.	5.2 MMTPA	34.6	
Dabhol	Konkan LNG Limited	*5 MMTPA	35.5	
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	19.8	
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	17.2	
Mundra	GSPC LNG Limited	5 MMTPA	11.6	
Dhamra	Adani Total Private Limited	5 MMTPA	25.4	
	Total Capacity	47.7 MMTPA		

\* To increase to 5 MMTPA with breakwater. Only HP stream of capacity of 2.9 MMTPA is commissioned

22. Status of PNG connections and CNG stations across India (Nos.), as on 30.11.2023(P)						
State/UT	CNG Stations	PNG connections				
(State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations		Commercial	Industrial		
Andhra Pradesh	169	2,65,181	458	36		
Andhra Pradesh, Karnataka & Tamil Nadu	42	6,097	1	6		
Assam	7	53,754	1,383	453		
Bihar	117	1,16,961	102	4		
Bihar & Jharkhand	6	7,723	3	0		
Bihar & Uttar Pradesh	14	0	0	0		
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	27	26,427	151	39		
Chhattisgarh	13	0	0	0		
Dadra & Nagar Haveli (UT)	6	11,791	57	60		
Daman & Diu (UT)	5	5,169	60	45		
Daman and Diu & Gujarat	15	3,657	20	0		
Goa	12	11,562	28	37		
Gujarat	1,006	31,72,749	23,132	5,782		
Haryana	341	3,49,267	852	2,082		
Haryana	21	20,447	126	53		
Haryana & Himachal Pradesh	10	20	0	0		
Haryana & Punjab	26	763	0	0		
Himachal Pradesh	11	6,876	17	0		
Jharkhand	87	1,16,462	20	3		
Karnataka	336	4,13,078	558	344		
Kerala	120	55,195	31	18		
Kerala & Puducherry	10	462	0	0		
Madhya Pradesh	260	2,21,669	429	487		
Madhya Pradesh and Chhattisgrah	7	0	0	0		
Madhya Pradesh and Rajasthan	34	608	0	0		
Madhya Pradesh and Uttar Pradesh	16	0	0	3		
Maharashtra	819	32,03,105	4,754	949		
Maharashtra & Gujarat	61	1,87,645	8	28		
Maharashtra and Madhya Pradesh	13	0	0	0		

State/UT	CNC Stations	PNG connections		
(State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	Domestic	Commercial	Industrial
National Capital Territory of Delhi (UT)	481	15,06,457	3,791	1,861
Odisha	73	96,735	7	0
Puducherry	2	0	0	0
Puducherry & Tamil Nadu	8	267	0	0
Punjab	214	78,853	538	275
Punjab & Rajasthan	12	0	0	0
Rajasthan	270	2,41,250	155	1,628
Tamil Nadu	253	14,402	4	13
Telangana	166	1,95,546	99	109
Telangana and Karnataka	4	0	0	0
Tripura	18	60,864	506	62
Uttar Pradesh	841	14,79,503	2,471	3,005
Uttar Pradesh	28	4,939	10	7
Uttar Pradesh & Rajasthan	42	19,442	45	348
Uttar Pradesh and Uttrakhand	26	13,604	0	0
Uttarakhand	33	71,513	83	92
West Bengal	77	3,623	3	1
Total	6,159	1,20,43,666	39,902	17,830

Source: PNGRB

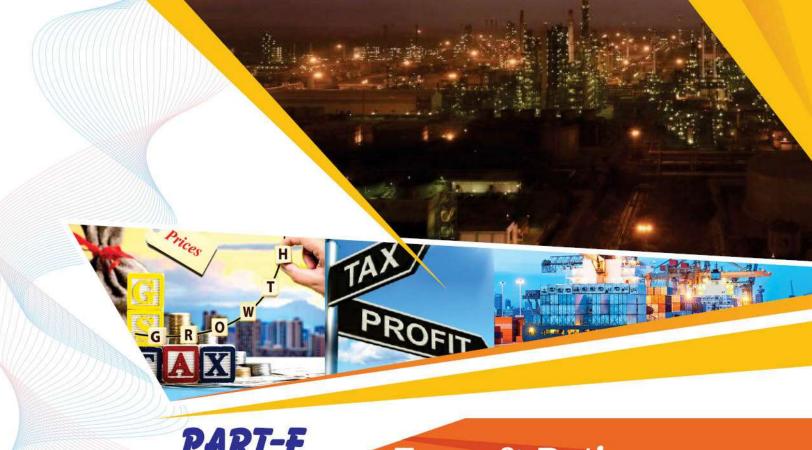
**Note:** 1. All the GAs where PNG connections/CNG Stations have been established are considered as Operational, 2. Under normal conditions. Operation of any particular GA commences within around one year of authorization. 3. State/UTs wherever clubbed are based on the GAs authorised by PNGRB.

	23. Domes			ice ceiling (GCV basis)	
Period		Domesti	ic Natural Gas price in	Gas price ceiling	in US\$/MMBTU
December 2014 - March 2015			5.05	-	•
April 2015 - September 2015			4.66	-	•
October 2015 - March 2016			3.82	-	•
April 2016 - September 2016			3.06	6.0	
October 2016 - March 2017			2.5	5.	
April 2017 - September 2017			2.48	5.5	
October 2017 - March 2018			2.89	6.	
April 2018 - September 2018			3.06	6.	
October 2018 - March 2019			3.36		67
April 2019 - September 2019			3.69	9.3	
October 2019 - March 2020		3.23		8.43 5.61	
April 2020 - September 2020			2.39		
October 2020 - March 2021			1.79	4.0	
April 2021 - September 2021			1.79	3.0	
October 2021 - March 2022			2.9	6.2	
April 2022 - September 2022 October 2022 - March 2023			6.1 8.57	9.9	
1 April 2023 - 7 April 2023			9.16	12.	
1 April 2023 - 7 April 2023	L Down onting Co			12.	
Period	Domestic G	as calculated	Domestic Gas ceiling price for	Period	HP-HT Gas price ceiling in
Fellou	price in US	S/MMBTU	ONGC/OIL in US\$/MMBTU	Periou	US\$/MMBTU
8 April 2023 - 30 April 2023	7.	92	6.50		
1 May 2023 - 31May 2023	8.	27	6.50	1	
1 June 2023 - 30 June 2023	7.	58	6.50	Anril 2023 - Sentember 2023	12 12

Period	Domestic Gas calculated	Domestic Gas ceiling price for	Period	HP-HT Gas price ceiling in
Period	price in USS/MMBTU	ONGC/OIL in US\$/MMBTU	Period	US\$/MMBTU
8 April 2023 - 30 April 2023	7.92	6.50		
1 May 2023 - 31May 2023	8.27	6.50		
1 June 2023 - 30 June 2023	7.58	6.50	April 2023 - September 2023	12.12
1 July 2023 - 31 July 2023	7.48	6.50	74pm 2023   September 2023	12.12
1 Aug 2023 - 31 Aug 2023	7.85	6.50		
1 Sept 2023 - 30 Sept 2023	7.85	6.50		
1 Oct 2023 - 31 Oct 2023	9.20	6.50		
1 Dec 2023 - 30 Dec 2023	9.12	6.50	October'2023 - March 2024	9.96
1 Dec 2023 - 31 Dec 2023	8.47	6.50	October 2023 - Warch 2024	9.90
1 Jan 2024 - 31 Jan 2024	7.82	6.50		
Natural Gas prices are on GCV basis	-		-	•

24. CNG/PNG prices					
City	CNG (Rs/Kg)		PNG (Rs/SCM)	Source	
Delhi	76.59		48.59	IGL website (11.01.2024)	
Mumbai	76.00	6.00 47.00		MGL website (11.01.2024)	
	Indian Natura	I Gas Spot Price for Ph			
IGX Price Index Month	Avg.	Price	Volume	Source	
IGX Price Index Month	INR/MMBtu	\$/MMBtu	(MMSCM)	55355	
`Dec 2023	1098	13.20	93.90	As per IGX website:	

<sup>\*</sup>Prices are weighted average prices |\$1=INR 83.28 | 1 MMBtu=25.2 SCM (Data Excluding Ceiling Price Gas)



PART-F

Taxes & Duties on Petroleum Products

	25. ln	formation or	າ Prices, Ta
International	FOB prices/	Exchange rates (	S/bbl)
Particulars	2021-22	2022-23	Dec 2023
Crude oil (Indian Basket)	79.18	93.15	77.42
Petrol	89.66	107.00	87.28
Diesel	88.45	128.08	95.99
Kerosene	85.31	120.55	97.90
LPG (\$/MT)	692.67	711.50	616.00
FO (\$/MT)	445.25	452.66	405.72
Naphtha (\$/MT)	698.25	666.53	616.27
Exchange (Rs./\$)	74.51	80.39	83.28
Custo	ms, excise du	ty & GST rates	
Product	Basic customs	Excise duty	GST rates
	dutv <sup>#</sup>		
Petrol	2.50%	Rs 19.90/Ltr	**
Diesel	2.50%	Rs 15.80/Ltr	**
PDS SKO	5.00%		5.00%
Non-PDS SKO	5.00%		18.00%
Domestic LPG	Nil***	Not Applicable	5.00%
Non Domestic LPG	5.00%	Not Applicable	18.00%
Furnace Oil (Non-Fert)	2.50%		18.00%
Naphtha (Non-Fert)	2.50%		18.00%
ATF	5.00%	11% *	**
	Rs.1/MT+	Rs.1/MT+ Cess@20% +	
Crude Oil	Rs.50/-MT as NCCD	Rs.50 /-MT NCCD + Rs.2300/ MT SAED	**

# Social welfare surcharge @ 10% is levied on aggregate duties of Customs excluding CVD in lieu of IGST;

xes and Under-recoveries/Subsidies						
Price buildup of petroleum products (Rs./litre/Cylinder) *						
Particulars	Petrol	Diesel				
Price charged to dealers (excluding Excise Duty and VAT)	57.27	58.07				
Excise Duty	19.90	15.80				
Dealers' Commission (Average)	3.84	2.64				
VAT (incl VAT on dealers' commission)	15.71	13.11				
Retail Selling Price	96.72	89.62				

Particulars	PDS SKO	Subsidised Domestic LPG
Price before taxes and dealers'/distributors' commission	60.78	786.91
Dealers'/distributors' commission	2.66	73.08
GST (incl GST on dealers'/distributors' commission)	3.17	43.01
Retail Selling Price	66.61	903.00

\*Petrol and Diesel at Delhi as per IOCL are as on 1st Jan 2024. PDS SKO at Mumbai as on 1st Jan 2024 and Subsidised Domestic LPG at Delhi as on 1st Jan 2024.

<sup>\*2%</sup> for scheduled commuter airlines from regional connectivity scheme airports;

<sup>\*\*</sup> GST Council shall recommend the date on which GST shall be levied on petroleum crude , HSD, MS, natural gas and ATF;

<sup>\*\*\*</sup> Basic Customs duty is Nil for import of domestic LPG sold to household consumers (including NDEC) by PSU OMCs. Basic Customs duty rate is 5% for other importers of domestic LPG;

<sup>^^^</sup> Effective 02.01.2024 SAED on crude oil.

#### 25. Information on Prices, Taxes and Under-recoveries/Subsidies **DBTL/ PMUY Subsidy** Domestic LPG under DBTL (Direct benefit transfer for LPG) 2021-22 2022-23 (P) **Product** 2020-21 Rs./Crore **DBTL** subsidy 3,559 823 PMF &IFC^ 242 32 99 Total 3.658 242 855

Note: During FY 2022-23 Government of India has approved a one-time grant of Rs. 22,000 crores to PSU OMCs towards under-recoveries in Domestic LPG.

PMUY					
Particulars	2020-21	2021-22	2022-23 (P)		
raiticulais	Rs./Crore				
PMUY	-34	1,569	6,110		
PME &IEC^	110	-	-		
Pradhan Mantri Gareeb Kalyan Yojana	8,162	-	-		
Total	8,238	1,569	6,110		

<sup>^</sup> On payment basis (PME & IEC - Project Management Expenditure & Information , Education and Communication)

es, Taxes and Under-recoveries/Subsidies							
Sales & profit of petroleum sector (Rs. Crores)							
Particulars	202	2-23 H1-202		3-24 (P)			
	TurDecer	PAT	TurDecer	PAT			
Upstream/midstream	3,21,099	50,941	1,42,816	25,987			
Companies (PSU)	5,21,099	50,941	1,42,610	25,967			
Downstream Companies (PSU)	19,16,438	1,138	8,86,575	57,092			
Standalone Refineries (PSU)	2,45,272	9,875	95,405	4,469			
Private-RIL	5,78,088	44,190	2,79,567	20,835			
Borrowings of OMCs (Rs. Crores), As on							
Company		Mar'22	Mar'23	Sept'23			
IOCL		1,10,799	1,32,495	99,407			
BPCL		24,123	35,855	22,568			
HPCL		43,193	64,517	51,758			
			-	-			
Petroleum se	ector contrib	ution to Cer	ntral/State Go	ovt.			
Particulars		2020-21	2021-22	2022-23			
Central Government		4,55,069	4,92,303	4,28,067			
% of total revenue receipt	:S	28%	23%	18%			
State Governments		2,17,650	2,82,122	3,20,651			
% of total revenue receipt	:S	8%	8%	8%			

Total Subsidy as a percentage of GDP (at current prices)						
Particulars	2020-21	2021-22	2022-23 (P)			
Petroleum subsidy	0.06	0.01	0.03			

6,72,719

Note: GDP figure for 2020-21 & 2021-22 are Revised Estimates (RE) and 2022-23 are Second Advance Estimates (SAE).

Total (Rs. Crores)

7,74,425

7,48,718

<sup>^</sup> On payment basis (PME & IEC - Project Management Expenditure & Information , Education and Communication)

<sup>\*\*</sup>Totals may not tally due to roundoff.



26. Capital expenditure of PSU oil companies						
(Rs in crores						
Company	2020-21	2021-22	2022-23 (P)	2023-24 (P)		
				Target (Annual)	Apr-Dec'23 (P)	
ONGC Ltd	26,441	26,621	29,209	30,125	24,473	
ONGC Videsh Ltd (OVL)	5,351	4,836	2,723	3,229	2,406	
Oil India Ltd (OIL)	12,802	4,239	5,057	4,896	4,074	
GAIL (India) Ltd	5,560	6,970	8,313	7,750	6,369	
Indian Oil Corp. Ltd. (IOCL)	27,195	29,604	35,205	30,395	27,027	
Bharat Petroleum Corp. Ltd (BPCL)	10,697	11,449	11,527	10,000	8,025	
Hindustan Petroleum Corp. Ltd (HPCL)	14,036	16,205	13,847	10,210	9,514	
Mangalore Refinery & Petrochem Ltd (MRPL)	2,218	604	641	820	738	
Chennai Petroleum Corp. Ltd (CPCL)	592	575	609	548	452	
Numaligarh Refinery Ltd (NRL)	981	3,403	6,615	8,290	5,937	
Balmer Lawrie Co. Ltd (BL)	42	23	46	40	32	
Engineers India Ltd (EIL)	730	67	60	98	103	
Total	1,06,642	1,04,596	1,13,853	1,06,401	89,151	

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional

Totals may not tally due to roundoff.

	27. Conversion factor				
Weight to volume conversion					
Product	Weight (MT)	Volume (KL)	Barrel (bbl)		
LPG	1	1.844	11.60		
Petrol (MS)	1	1.411	8.88		
Diesel (HSD)	1	1.210	7.61		
Kerosene (SKO)	1	1.285	8.08		
Aviation Turbine Fuel (ATF)	1	1.288	8.10		
Light Diesel Oil (LDO)	1	1.172	7.37		
Furnace Oil (FO)	1	1.0424	6.74		
Crude Oil	1	1.170	7.33		
Exclusive Economic Zone					
200 Nautical Miles	370.4 Kilometers				

tors and volume conversion				
	Volume conversion			
	From	То		
	1 US Barrel (bbl)	159 litres		
	1 US Barrel (bbl)	20130.81		
	1 US Gallon	3.78 litres		
	1 Kilo litre (KL)	6.29 bbl		
	1 Million barrels per day	49.8 MMTPA		
	Energy conversion			
	1 Kilocalorie (kcal)	4.187 kJ		
	1 Kilocalorie (kcal)	3.968 Btu		
	1 Kilowatt-hour (kWh)	860 kcal		
	1 Kilowatt-hour (kWh)	3,412 Btu		

	Natural	
1 Standard Cubic Metre (SCM)	35.31 Cubic Feet	
1 Billion Cubic Metres (BCM)/year of Gas	2.74 MMSCMD	
1 Trillion Cubic Feet (TCF) of Gas Reserve	3.88 MMSCMD	
1 Million Metric Tonne Per Annum (MMTPA) of LNG	3.60 MMSCMD	
1 MT of LNG	1,325 SCM	

l gas conversions				
	1 MMBTU	25.2 SCM @10000 kcal/SCM		
	GCV (Gross Calorific Value)	10,000 kcal/SCM		
1	NCV (Net Calorific Value)	90% of GCV		
	Gas required for 1 MW power generation	4,541 SCM/day		
	Power generation from 1 MMSCMD of gas	220 MW		



## Petroleum Planning & Analysis Cell

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