

### Snapshot of India's Oil & Gas data

# Monthly Ready Reckoner November-23



**Petroleum Planning & Analysis Cell** 

(Ministry of Petroleum & Natural Gas)

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 November 2023 was 2.4 MMT. OIL registered a production of 0.3 MMT, ONGC registered a production of 1.6 MMT whereas PSC registered production of 0.5 MMT during November 2023. There is a degrowth of 0.4% in crude oil and condensate production during November 2023 as compared to November 2022.
- Total Crude oil processed during November 2023 was 21.7 MMT which is 10.7% higher than November 2022, where PSU/JV refiners processed 15.0 MMT and private refiners processed 6.7 MMT of crude oil. Total indigenous crude oil processed was 2.0 MMT and total Imported crude oil processed was 19.7 by all Indian refineries (PSU+JV+PVT). There was a growth of 3.5 % in total crude oil processed in April November FY 2023 24 as compared to same period of FY 2022 23.
- Crude oil imports decreased by 2.3% and increased by 0.4% during November 2023 and April-November 2023 respectively as compared to the corresponding period of the previous year. As compared to net import bill for Oil & Gas for November 2022 of \$12.3 billion, the net import bill for Oil & Gas for November 2023 was \$11.1 billion. Out of which, crude oil imports constitutes \$11.5 billion, LNG imports \$1.8 billion and the exports were \$4.3 billion during November 2023.
- The price of Brent Crude averaged \$83.18/bbl during November 2023 as against \$91.05/bbl during October 2023 and \$91.67/bbl during November 2022. The Indian basket crude price averaged \$83.46/bbl during November 2023 as against \$90.08/bbl during October 2023 and \$87.55 /bbl during November 2022.
- Production of petroleum products was 22.8 MMT during November 2023 which is 12.4% higher than November 2022. Out of 22.8 MMT, 22.5 MMT was from refinery production & 0.3 MMT was from fractionator. There was a growth of 5.0 % in production of petroleum products in April November FY 2023 24 as compared to same period of FY 2022 23. Out of total POL production, in November 2023, share of HSD is 43.7 %, MS 15.6 %, Naphtha 6.5 %, ATF 6.2 %, Pet Coke 5.5 %, LPG 4.7% which are of major products and rest are shared by Bitumen, FO/LSHS, LDO, Lubes & others.
- POL products imports increased by 2.6% and 11.5% during November 2023 and April-November 2023 respectively as compared to the corresponding period of the previous year. Increase in POL products imports during April-November 2023 were mainly due to increase in imports of petcoke, fuel oil (FO), and bitumen.

- Exports of POL products increased by 32.1% and 2.7% during November 2023 and April-November 2023 respectively as compared to the corresponding period of the previous year. Increase in POL products exports during April-November 2023 were mainly due to increase in exports of vacuum gas oil (VGO), motor-spirit (MS) and aviation turbine fuel (ATF).
- The consumption of petroleum products during April-November 2023, with a volume of 152.3 MMT, reported a growth of 4.9 % compared to the volume of 145.10 MMT during the same period of the previous year. This growth was led by 6.5% growth in MS, 5.4% in HSD & 12.9% in ATF & 12.4% in Naptha consumption besides LPG, Lubes, Bitumen, Petcoke and LDO during the period. The consumption of petroleum products during November 2023 recorded a de-growth of 2% with a volume of 18.7 MMT compared to the same period of the previous year.
- Ethanol Blending with Petrol during November 2023, the first month of the Ethanol Supply Year(ESY) 2023-24, achieved 10.24% as compared to 12.06 % during the ESY December 2022- October 2023.
- Total Natural Gas Consumption (including internal consumption) for the month of November 2023 was 5328 MMSCM which
  was 6.6% higher than the corresponding month of the previous year. The cumulative consumption of 43696 MMSCM for
  the current financial year till November 2023 was higher by 8.5% compared with the corresponding period of the previous
  year.
- Gross production of natural gas for the month of November 2023 (P) was 3041 MMSCM which was higher by 7.1% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 24081 MMSCM for the current financial year till November 2023 was higher by 5.1% compared with the corresponding period of the previous year.
- LNG import for the month of November 2023 (P) was 2337 MMSCM which was 5.3% higher than the corresponding month of the previous year. The cumulative import of 20090(P) MMSCM for the current financial year till November 2023 was higher by 12.4% compared with the corresponding period of the previous year.



	1. S	elected ind	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
7	GDP at constant (2011-12 Prices)	Growth %	6.5	4.0	-6.6	9.1	7.2	7.7
	ddr at constant (2011-12 rnces)		2nd RE	1st RE	1st RE	1st RE	PE	H1, 2023-24 (E)
	A section like week Broad weakings	MMT	285.2	297.5	310.7	315.7	323.6	_
3	Agricultural Production					4th AE	2nd AE	
	(Food grains)	Growth %	0.1	4.3	4.5	1.6	2.5	-
4	Gross Fiscal Deficit	%	3.4	4.6	9.5	6.7	6.4	7.8 (Q1)
4	(as percent of GDP)				RE	RE	RE	Е
	Economic indicators	Unit/ Base	2021-22	2022-23	November		April-November	
						(-)		(-)

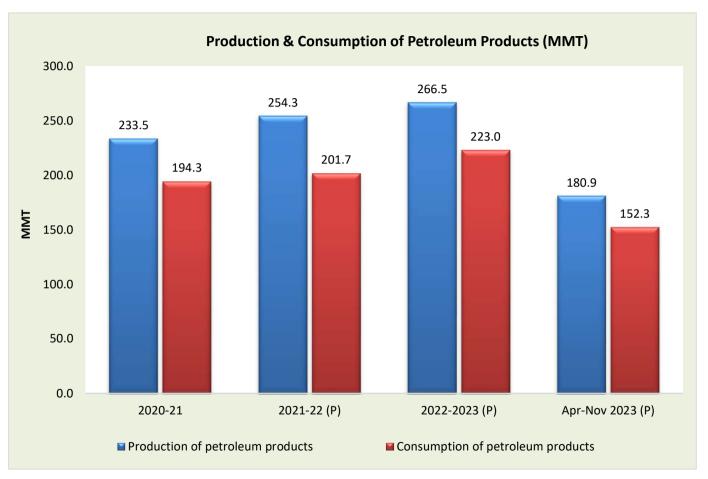
	<b>Economic indicators</b>	Unit/ Base	2021-22	2022-23	November		April-November	
					2022-23	2023-24 (P)	2022-23	2023-24 (P)
5	Index of Industrial Production	Growth %	11.4	5.5#	-4.1*	11.7*	5.3#	6.9#
Ľ	(Base: 2011-12)	Growen 70				QE		
6	Imports^	\$ Billion	611.9	714.2	57.9	65.0	430.5	392.0
7	Exports^	\$ Billion	422.0	451.0	31.6	33.6	263.3	244.9
8	Trade Balance	\$ Billion	-189.9	-263.2	-26.3	-31.5	-167.1	-147.1
9	Foreign Exchange Reserves <sup>@</sup>	\$ Billion	617.6	578.4	550.1	597.9	-	-

Population projection by RGI is taken as on 1st July for the year. IIP is for the month of \*Oct'23 and #April-Oct'23; @2021, 2021-22 - as on March 26, 2022, Mar 2022 as on Mar 25, 2022, Mar 2023-as on Mar 31, 2023, November 2022 as on November 25, 2022 and November, 2023 as on November 24, 2023; Almports & Exports are for Merchandise for the month of October 2023; E: Estimates; PE: Provisional Estimates: AF-Advanced Estimates: AF-Advanced Estimates: OF-Ouick Estimates

Estimates: AE-Advanced Estimates: 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

	2. Crude oil, LNG and petroleum products at a glance											
	Details	Unit/ Base	2021-22	2022-23	Nove	mber	April-No	vember				
			(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	2.4	2.4	19.6	19.6				
2	Consumption of petroleum products*	MMT	201.7	223.0	19.1	18.7	145.1	152.3				
3	Production of petroleum products	MMT	254.3	266.5	20.3	22.8	172.5	180.9				
4	Gross natural gas production	MMSCM	34,024	34,450	2,840	3,041	22,917	24,081				
5	Natural gas consumption	MMSCM	64,159	59,969	4,998	5,328	40,254	43,696				
6	Imports & exports:											
	Crude oil imports	MMT	212.4	232.7	19.0	18.6	152.6	153.2				
	crude on imports	\$ Billion	120.7	157.5	12.3	11.5	113.4	87.1				
	Petroleum products (POL)	MMT	39.0	44.6	4.0	4.1	28.7	32.0				
	imports*	\$ Billion	23.7	26.9	2.2	2.2	18.4	15.4				
	Gross petroleum imports	MMT	251.4	277.3	23.0	22.7	181.3	185.2				
	(Crude + POL)	\$ Billion	144.3	184.4	14.4	13.7	131.8	102.4				
	Petroleum products (POL)	MMT	62.8	61.0	4.3	5.6	39.7	40.8				
	export	\$ Billion	44.4	57.3	3.8	4.3	40.5	31.5				
	LNG imports*	MMSCM	31,028	26,304	2,219	2,337	17,875	20,090				
	LIVO IMPORTS	\$ Billion	13.5	17.1	1.5	1.2	12.6	8.9				
	Net oil & gas imports	\$ Billion	113.4	144.2	12.2	10.5	103.9	79.7				
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	23.6	25.8	25.0	21.0	30.6	26.1				
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	10.5	12.7	12.0	12.8	15.4	12.9				
9	Import dependency of crude oil (on POL consumption basis)	%	85.5	87.4	89.2	88.5	86.9	87.9				

#Includes condensate; \*Private direct imports are prorated for the period Sept'23 to Nov'23 for POL. LNG Imports figure from DGCIS are prorated for Oct'23 to November 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		November		A	April-November					
		(P)	2022-23 (P)	2023-24 Target*	2023-24 (P)	2022-23 (P)	2023-24 Target*	2023-24 (P)				
ONGC	18.5	18.4	1.5	1.6	1.5	12.4	12.9	12.1				
Oil India Limited (OIL)	3.0	3.2	0.3	0.3	0.3	2.1	2.2	2.2				
Private / Joint Ventures (JVs)	7.0	6.2	0.5	0.6	0.4	4.2	4.9	3.8				
Total Crude Oil	28.4	27.8	2.3	2.5	2.2	18.7	20.1	18.1				
ONGC condensate	0.9	1.0	0.09	0.0	0.09	0.7	0.0	0.7				
PSC condensate	0.3	0.31	0.03	0.0	0.1	0.2	0.0	0.7				
Total condensate	1.2	1.4	0.12	0.0	0.2	0.9	0.0	1.4				
Total (Crude + Condensate) (MMT)	29.7	29.2	2.4	2.5	2.4	19.6	20.1	19.6				
Total (Crude + Condensate) (Million Bbl/Day)	0.60	0.59	0.59	0.61	0.59	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 November April-Novemb											
		(P)	2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)					
Total domestic production (MMTOE)	63.7	63.6	5.2	5.4	42.5	43.6					
Overseas production (MMTOE)	21.8	19.5	1.7	1.6	12.9	13.2					

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

	5. High Sulphur (HS) & Low Sulphur (LS) crude oil processing (MMT)												
	Details	2021-22	2022-23	Nove	mber	April-No	vember						
			(P)	2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)						
1	High Sulphur crude	185.0	197.9	15.0	17.4	128.7	133.7						
2	Low Sulphur crude	56.7	57.4	4.6	4.3	37.6	38.4						
Total c	rude processed (MMT)	241.7	255.2	19.6	21.7	166.3	172.0						
Total c	rude processed (Million Bbl/Day)	4.85	5.13	4.78	5.29	5.00	5.17						
Percen	tage share of HS crude in total crude oil processing	76.6%	77.5%	76.4%	80.3%	77.4%	77.7%						

6. Qua	6. Quantity and value of crude oil imports										
Year	Quantity (MMT)	\$ Million	Rs. Crore								
2021-22	212.4	1,20,675	9,01,262								
2022-23	232.7	1,57,531	12,60,372								
April-Nov 2023-24(P)	153.2	87,065	7,19,806								

	7. Self-sufficiency in petroleum products (Million Metric Tonnes)											
	Particulars	2021-22	2022-23	Nove	mber	April-No	vember					
	Faiticulais		(P)	2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)					
1	Indigenous crude oil processing	27.0	26.4	1.9	2.0	17.8	17.6					
2	Products from indigenous crude (93.3% of crude oil processed)	25.2	24.7	1.8	1.9	16.6	16.4					
3	Products from fractionators (Including LPG and Gas)	4.1	3.5	0.3	0.3	2.4	2.3					
4	Total production from indigenous		28.2	2.1	2.2	19.0	18.7					
5	Total domestic consumption	201.7	223.0	19.1	18.7	145.1	152.3					
% Self	-sufficiency (4 / 5)	14.5%	12.6%	10.8%	11.5%	13.1%	12.3%					

	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		November		April-November					
		(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	0.6	0.6	0.6	4.5	4.2	4.4			
2	Koyali (1965)	13.7	13.5	15.6	1.3	1.2	1.3	10.4	9.4	10.1			
3	Haldia (1975)	8.0	7.3	8.5	0.7	0.7	0.7	5.7	5.7	5.2			
4	Mathura (1982)	8.0	9.1	9.6	0.8	0.8	0.9	6.2	6.4	6.0			
5	Panipat (1998)	15.0	14.8	13.8	0.7	1.3	1.3	9.1	9.7	10.0			
6	Guwahati (1962)	1.0	0.7	1.1	0.09	0.09	0.03	0.7	0.7	0.6			
7	Digboi (1901)	0.65	0.7	0.7	0.06	0.02	0.07	0.5	0.4	0.4			
8	Bongaigaon(1979)	2.70	2.6	2.8	0.2	0.2	0.2	1.8	1.8	2.0			
9	Paradip (2016)	15.0	13.2	13.6	1.3	1.3	1.3	8.1	8.7	9.8			
	IOCL-TOTAL	70.1	67.7	72.4	5.8	6.3	6.3	47.1	47.0	48.5			
10	Manali (1969)	10.5	9.0	11.3	0.9	0.9	1.0	7.4	7.1	7.7			
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	0.9	0.9	1.0	7.4	7.1	7.7			
12	Mumbai (1955)	12.0	14.4	14.5	1.2	1.2	0.9	9.2	9.1	9.7			
13	Kochi (1966)	15.5	15.4	16.0	1.4	1.4	1.5	10.0	10.1	11.4			
14	Bina (2011)	7.8	7.4	7.8	0.7	0.7	0.7	5.1	5.0	4.4			
	BPCL-TOTAL	35.3	37.2	38.4	3.3	3.2	3.1	24.2	24.2	25.6			
15	Numaligarh (1999)	3.0	2.6	3.1	0.2	0.2	0.3	2.1	2.1	1.4			

Sl. no.	Refinery	Installed			Cruc	le oil proce	essing (MM	T)		
		capacity	2021-22	2022-23	November			April-November		
		(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	0.004	0.005	0.05	0.05	0.04
17	MRPL-Mangalore (1996)	15.0	14.9	17.1	1.5	1.5	1.5	11.2	11.2	10.5
	ONGC-TOTAL	15.1	14.9	17.2	1.5	1.5	1.5	11.3	11.3	10.5
18	Mumbai (1954)	9.5	5.6	9.8	0.8	0.4	0.9	6.4	5.7	6.7
19	Visakh (1957)	11.0	8.4	9.3	0.8	0.8	0.8	6.0	6.0	8.0
20	HMEL-Bathinda (2012)	11.3	13.0	12.7	1.0	0.9	1.1	8.4	7.7	8.7
	HPCL- TOTAL	31.8	27.0	31.8	2.6	2.2	2.8	20.8	19.3	23.4
21	RIL-Jamnagar (DTA) (1999)	33.0	34.8	34.4	2.6	3.0	2.8	23.3	22.9	22.9
22	RIL-Jamnagar (SEZ) (2008)	35.2	28.3	27.9	2.7	2.5	2.2	18.0	19.4	18.4
23	NEL-Vadinar (2006)	20.0	20.2	18.7	0.0	1.7	1.7	12.0	13.5	13.5
All India	(MMT)	253.9	241.7	255.2	19.6	21.5	21.7	166.3	166.7	172.0
All India	(Million Bbl/Day)	5.02	4.85	5.13	4.78	5.24	5.29	5.00	5.01	5.17

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 01.12.2023)												
Det	ails	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

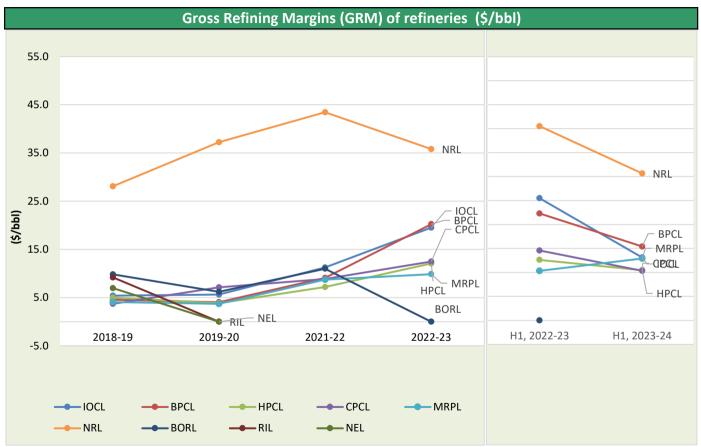
# OIL & GAS MAP OF INDIA LEGENDS LEGENDS

	10. Gross	Refining Margins	(GRM) of refineri	es (\$/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	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

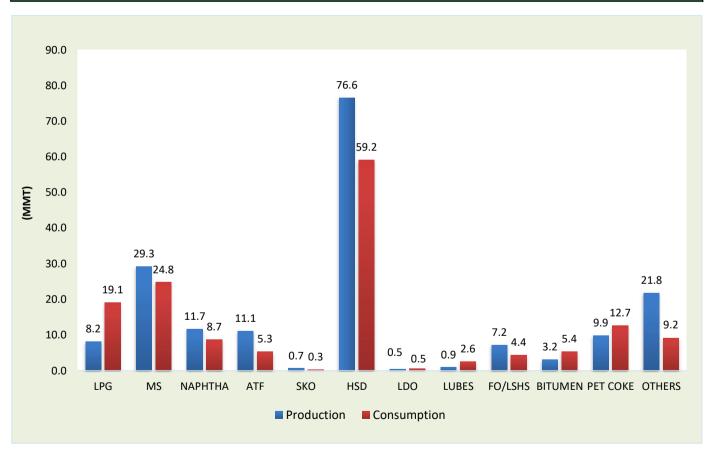


Consumption

	11. Pro	duction	and cor	sumption	on of pe	troleun	n produ	ıcts (Mil	lion Me	tric Ton	nes)	
Decidents	202	1-22	2022-	·23 (P)	Nov-	2022	Nov-2	023 (P)	Apr-No	ov 2022	Apr-Nov	2023 (P)
Products	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.2	28.3	12.8	28.5	1.0	2.5	1.1	2.5	8.5	18.6	8.3	19.1
MS	40.2	30.8	42.8	35.0	3.3	2.9	3.6	3.1	27.7	23.3	29.3	24.8
NAPHTHA	20.0	13.2	17.0	12.2	1.2	0.9	1.5	1.0	11.3	7.8	11.8	8.7
ATF	10.3	5.0	15.0	7.4	1.2	0.6	1.4	0.7	9.5	4.7	11.1	5.3
SKO	1.9	1.5	0.9	0.5	0.1	0.0	0.1	0.0	0.6	0.4	0.7	0.3
HSD	107.2	76.7	113.8	85.9	8.4	7.8	10.0	7.5	73.9	56.1	76.6	59.2
LDO	0.8	1.0	0.6	0.7	0.06	0.1	0.05	0.1	0.4	0.5	0.5	0.5
LUBES	1.2	4.5	1.3	3.7	0.1	0.3	0.1	0.3	0.8	2.4	0.9	2.6
FO/LSHS	8.9	6.3	10.4	7.0	0.8	0.6	0.7	0.5	7.1	4.6	7.2	4.4
BITUMEN	5.1	7.8	4.9	8.0	0.4	0.8	0.4	0.6	3.0	4.7	3.2	5.4
PET COKE	15.5	14.3	15.4	18.3	1.1	1.5	1.3	1.4	9.9	12.0	9.9	12.7
OTHERS	30.9	12.3	31.5	15.8	2.5	1.1	2.7	0.8	19.8	10.1	21.8	9.2
ALL INDIA	254.3	201.7	266.5	223.0	20.3	19.1	22.8	18.7	172.5	145.1	181.2	152.3
Growth (%)	-3.1%	-5.4%	4.8%	10.6%	-9.3%	14.3%	12.4%	-2.0%	5.7%	13.3%	5.0%	4.9%

Note: Prod - Production; Cons - Consumption

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



12. Kerosene allocation vs upliftment (Kilo Litres)											
Product	202	0-21	202	1-22	2022	2-23	2023-2	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	2,75,514			

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

Timodation is its rip. Bee 2020 2 raina apine		blending programme			
		Ethanol Su	pply Year *		
Particulars	2019-20	2020-21	2021-22	Dec'22- Oct'23	Nov'23
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	173.0	296.1	408.1	494.0	12.6
Ethanol blended under EBP Program (in Cr. Litrs)	170.5	302.3	433.6	508.8	40.5
Average Percentage of Blending Sales (EBP%)	5.0%	8.1%	10.0%	12.1%	10.2%

<sup>\*</sup>Ethanol Supply Year: Ethanol supply year for 2022-23 taken for Dec'22-Oct'23 & thereafter changed to ethanol supplies between 1<sup>st</sup> November 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	ry marketi	ng infrastr	ucture (as	on 01.12.	2023) (Pro	ovisional)		
Particulars	IOCL	BPCL	HPCL	RIL/RBML/RSIL	NEL	SHELL	MRPL & Others	Total
POL Terminal/ Depots (Nos.) <sup>\$</sup>	126	83	81	17	3		6	316
Aviation Fuel Stations (Nos.) <sup>@</sup>	131	65	54	30			1	281
Retail Outlets (total) (Nos.),	36,888	21,463	21,525	1,670	6,518	344	77	88,485
out of which Rural ROs	11,973	5,399	5,331	130	2,091	87	25	25,036
SKO/LDO agencies (Nos.)	3,849	927	1,638					6,414
LPG Distributors (total) (Nos.) (PSUs only)	12,872	6,244	6,324					25,440
LPG Bottling plants (Nos.) (PSUs only)#	98	53	56				3	210
LPG Bottling capacity (TMTPA) (PSUs only)&	10,782	4,890	6,530				203	22,405
LPG active domestic consumers (Nos. crore) (PSUs only)	14.8	8.2	8.7			120\- PPMI I	Polianco PD Mobil	31.8

'(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	nfrastructı	ıre at Reta	il outlets (	Nos. of RC	<b>)s as on 0</b> :	l.12.2023	) (Provisio	nal)
Alternate fuel	IOCL	BPCL	HPCL	RBML/RSIL	NEL	SHELL	MRPL	Total
CNG_LNG	1946	1684	1553	24	36	0	2	5245
EV Charging	6641	859	2394	42	297	237	7	10477
Auto LPG	326	44	126	61	52	0	0	609
Compressed Bio-Gas outlets	65	41	4	1		0	0	111
Total Retail outlets with at least one	8286	2342	3703	117	383	237	9	15077
Solarization at Retail outlets	22038	5527	11628	74	979	0	0	40246



PART-D

**LPG** 

		15. LPG cons	sumption (The	ousand Metr	ic Tonne)	)		
LPG category	2021-22	2022-23		November		Ар	ril-November	
			2022-23 2023-24 (P) Growth			2022-23	2023-24 (P)	Growth (%)
1. PSU Sales :								
LPG-Packed Domestic	25,501.6	25,381.5	2,135.6	2,222.4	4.1%	16,637.6	16,853.9	1.3%
LPG-Packed Non-Domestic	2,238.8	2,606.0	264.1	215.1	-18.6%	1,655.8	1,813.4	9.5%
LPG-Bulk	390.9	408.9	52.2	42.6	-18.4%	262.6	388.7	48.0%
Auto LPG	122.0	106.7	9.3	6.3	-32.0%	73.4	61.5	-16.2%
Sub-Total (PSU Sales)	28,253.3	28,503.1	2,461.2	2,486.5	1.0%	18,629.4	19,117.5	2.6%
2. Direct Private Imports*	0.1	0.1	0.00 0.01 - 0.02		0.06	206.0%		
Total (1+2)	28,253.4	28,503.2	2,461.2	2,486.5	1.0%	18,629.4	19,117.6	2.6%

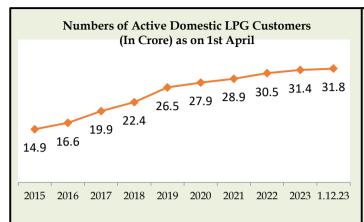
\*Oct-Nov'23 DGCIS data is prorated

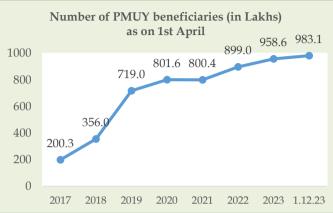
				16.	LPG ma	arketin	g at a	glance						
Particulars	Unit	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	1.12.23
(As on 1st of April)														(P)
LPG Active Domestic	(Lakh)				1486	1663	1988	2243	2654	2787	2895	3053	3140	3180
Customers	Growth					11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	5.5%	2.9%	1.5%
LDC Coverage (Estimated)	(Percent)				56.2	61.9	72.8	80.9	94.3	97.5	99.8	-	-	-
LPG Coverage (Estimated)	Growth					10.1%	17.6%	11.1%	16.5%	3.4%	2.3%	-	-	-
PMUY Beneficiaries	(Lakh)						200.3	356	719	802	800	899.0	958.6	983.1
PIVIOT Belleficiaries	Growth							77.7%	101.9%	11.5%	-0.2%	12.2%	6.6%	2.7%
LPG Distributors	(No.)	11489	12610	13896	15930	17916	18786	20146	23737	24670	25083	25269	25386	25440
LPG DISTIBUTORS	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	496
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%	-12.5%
Pottling 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%	2.4%

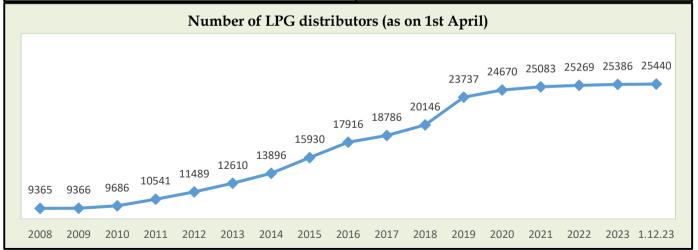
Source: PSU OMCs (IOCL, BPCL and HPCL)

<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.

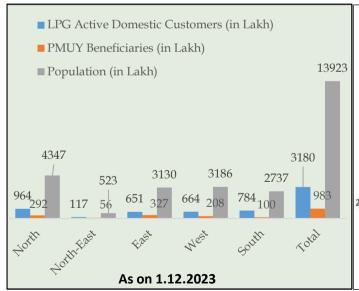


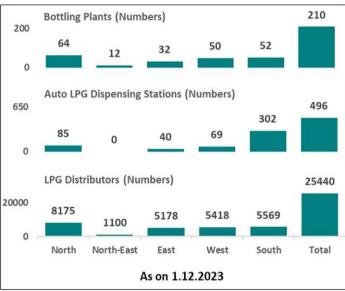




17-Region-w	17-Region-wise data on LPG marketing (As on 01.12.2023)										
Particulars	North	North-East	East	West	South	Total					
LPG Active Domestic Customers (in Lakh)	963.5	116.8	651.0	664.3	784.4	3180.0					
Population^ (in Lakh)	4347.5	523.0	3130.2	3185.9	2736.7	13923.3					
PMUY Beneficiaries (in Lakh)	291.6	56.0	327.5	208.2	99.8	983.1					
LPG Distributors (Numbers)	8175	1100	5178	5418	5569	25440					
Auto LPG Dispensing Stations (Numbers)	85	0	40	69	302	496					
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

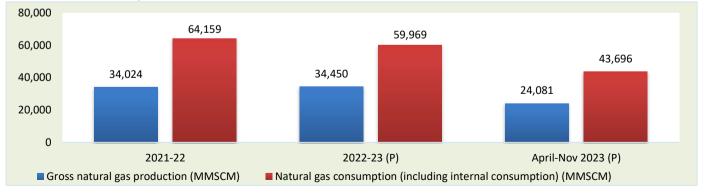






		18. Natura	al gas at a	glance				
								(MMSCM)
Details	2021-22	2022-23		November	Α	April-November		
	(P)	(P)	2022-23	2023-24	2023-24	2022-23	2023-24	2023-24 (P)
			(P)	(Target)	(P)	(P)	(Target)	
(a) Gross production	34,024	34,450	2,840	3,262	3,041	22,917	25,092	24,081
- ONGC	20,629	19,969	1,619	1,722	1,560	13,377	13,808	12,945
- Oil India Limited (OIL)	2,893	3,041	251	265	257	2,037	2,095	2,048
- Private / Joint Ventures (JVs)	10,502	11,440	970	1,276	1,223	7,502	9,188	9,088
(b) Net production (excluding flare gas and loss)	33,131	33,664	2,779		2,991	22,379		23,606
(c) LNG import <sup>#</sup>	31,028	26,304	2,219		2,337	17,875		20,090
(d) Total consumption including internal consumption (b+c)	64,159	59,969	4,998		5,328	40,254		43,696
(e) Total consumption (in BCM)	64.2	60.0	5.0		5.3	40.3		43.7
(f) Import dependency based on consumption (%), {c/d*100}	48.4	43.9	44.4		43.9	44.4		45.977

# November 2023 DGCIS data prorated.



19. Coal Bed	Methane (CBM) gas development	t 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		20,460**	Sg. KM					
Blocks awarded*		36	Nos.					
Exploration initiated (Area considered if any boreholes were drilled	in the awarded block)	10670	Sg. KM					
Production of CBM gas	April-Nov 2023 (P)	432.19	MMSCM					
Production of CBM gas	Nov 2023 (P)	52.26	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) project	19a. Status of Compressed Bio Gas (CBG) projects under SATAT (as on 01.12.2023) (Provisional)											
Particulars	Units	IOCL	HPCL	BPCL	GAIL	IGL	Total					
No. of CBG plants commissioned and initiated sale of CBG	No. of plants	23	4	1	10	5	43					
Start of CBG sale from retail outlet(s)	Nos.	67	4	1	0	0	72					
Sale of CBG in 2022-23	Tons	5,822	77	6.35	5341		11,227					
Sale of CBG in 2023-24 (up to November, 2023)	Tons	4152	117.1	27.46	6579*		9548					
Sale of CBG in CGD network	GA Nos.				19		19					

\*Sale of CBG sourced under CBG-CGD synchronization scheme by GAIL through its own marketing channels as well as other CGDs/OMCs.

	20. Common Carrier Natural Gas pipeline network as on 30.09.2023													
Nature of pig	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
onder construction	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 35,483Kms (P)

21. Existing Ling terminals						
Location	Promoters	Capacity as on 01.12.2023	% Capacity utilisation (April-Oct 2023)			
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	95.1			
Hazira	Shell Energy India Pvt. Ltd.	5.2 MMTPA	37.1			
Dabhol	Konkan LNG Limited	*5 MMTPA	34.3			
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	19.5			
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	16.8			
Mundra	GSPC LNG Limited	5 MMTPA	12.2			
Dhamra	Adani Total Private Limited	5 MMTPA	26.0			
	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 31.10.2023(P)							
State/UT	CNG Stations	PNG connections					
(State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	Domestic	Commercial	Industrial			
Andhra Pradesh	169	2,63,922	460	36			
Andhra Pradesh, Karnataka & Tamil Nadu	42	4,113	1	6			
Assam	7	53,440	1,380	452			
Bihar	113	1,15,542	100	4			
Bihar & Jharkhand	6	7,663	3	0			
Bihar & Uttar Pradesh	14	0	0	0			
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	27	26,354	143	33			
Chhattisgarh	10	0	0	0			
Dadra & Nagar Haveli (UT)	7	11,724	57	60			
Daman & Diu (UT)	5	5,169	60	45			
Daman and Diu & Gujarat	15	3,562	17	0			
Goa	12	11,514	23	35			
Gujarat	1,000	31,57,238	23,045	5,772			
Haryana	361	3,67,025	939	2,074			
Haryana & Himachal Pradesh	10	10	0	0			
Haryana & Punjab	26	629	0	0			
Himachal Pradesh	11	6,712	4	0			
Jharkhand	83	1,15,267	18	3			
Karnataka	332	4,10,921	554	342			
Kerala	116	53,578	29	18			
Kerala & Puducherry	9	454	0	0			
Madhya Pradesh	257	2,20,862	417	481			
Madhya Pradesh and Chhattisgrah	7	0	0	0			
Madhya Pradesh and Rajasthan	34	594	0	0			
Madhya Pradesh and Uttar Pradesh	16	0	0	2			
Maharashtra	802	31,29,438	4,736	936			
Maharashtra & Gujarat	60	1,87,645	8	28			
Maharashtra and Madhya Pradesh	13	0	0	0			
National Capital Territory of Delhi (UT)	481	14,94,562	3,753	1,858			

State/UT	CNG Stations	PNG connections			
(State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	Domestic	Commercial	Industrial	
Odisha	71	95,613	6	0	
Puducherry	2	0	0	0	
Puducherry & Tamil Nadu	8	249	0	0	
Punjab	213	78,337	510	271	
Punjab & Rajasthan	12	0	0	0	
Rajasthan	267	2,39,225	152	1,612	
Tamil Nadu	248	12,852	4	11	
Telangana	164	1,94,739	95	107	
Telangana and Karnataka	4	0	0	0	
Tripura	18	60,566	506	62	
UT of Jammu and Kashmir	0	0	0	0	
Uttar Pradesh	859	14,72,406	2,437	2,959	
Uttar Pradesh & Rajasthan	42	19,219	45	348	
Uttar Pradesh and Uttrakhand	26	12,993	0	0	
Uttrakhand	32	71,189	81	92	
West Bengal	77	2,077	3	1	
Total	6,088	1,19,07,403	39,586	17,648	

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.

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Period		Domestic Natural Gas price in		G	Gas price ceiling in US\$/MMBTI		
November 2014 - March 2015			5.05		-		
April 2015 - September 2015			4.66			-	
october 2015 - March 2016			3.82			-	
pril 2016 - September 2016			3.06			5.61	
october 2016 - March 2017			2.5			5.3	
pril 2017 - September 2017			2.48			5.56	
october 2017 - March 2018			2.89			6.3	
pril 2018 - September 2018		3.06			6.78		
ctober 2018 - March 2019		3.36			7.67		
pril 2019 - September 2019		3.69			9.32		
october 2019 - March 2020		3.23			8.43		
pril 2020 - September 2020		2.39			5.61		
ctober 2020 - March 2021		1.79			4.06		
pril 2021 - September 2021		1.79			3.62		
october 2021 - March 2022		2.9			6.13		
pril 2022 - September 2022			6.1			0.92	
October 2022 - March 2023			8.57			2.46	
1 April 2023 - 7 April 2023			9.16		1.	2.12	
David	Domestic Gas ca	iculated Do	mestic Gas ceiling price for	D-	Period HP-HT		
Period	price in US\$/M	MRTII 0	NGC/OIL in US\$/MMBTU	PE	rioa	US\$/MMBTU	
April 2023 - 30 April 2023	7.92		6.50			Was William	
May 2023 - 31May 2023	8 27		6.50	_		1	

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	April 2023 September 2023	12.12
1 Aug 2023 - 31 Aug 2023	7.85	6.50		
1 Aug 2023 - 31 Aug 2023	7.85	6.50		
1 Oct 2023 - 31 Oct 2023	9.20	6.50		
1 Nov 2023 - 30 Nov 2023	9.12	6.50	October'2023 - March 2024	9.96
1 Dec 2023 - 31 Dec 2023	8.47	6.50		

Natural Gas prices are on GCV basis

24. CNG/PNG prices								
City	CNG (Rs/Kg)		PNG (Rs/SCM)					
Delhi	75.59		48.59	IGL website (12.12.2023)				
Mumbai	76.00	47.00		MGL website (12.12.2023)				
	Indian Natural Gas Spot Price for Physical Delivery							
ICV Drice Index Month	Avg.	Price	Volume	Source				
IGX Price Index Month	INR/MMBtu	\$/MMBtu	(MMSCM)	55005				
`Nov 2023	1131	13.60	200.00	As per IGX website:				

<sup>\*</sup>Prices are weighted average prices | \$1=INR 83.29 | 1 MMBtu=25.2 SCM (Data Excluding Ceiling Price Gas)



PART-F

Taxes & Duties on Petroleum Products

25. ln	formation or	n Prices, T	axes and Under-recoveries/Subsidies
FOB prices/ I	Exchange rates (\$	(bbl)	Price buildup of petroleum products (Rs
2021-22	2022-23	Nov 2023	Particulars
79.18	93.15	83.46	Price charged to dealers (excluding Excise Duty and VAT)
89.66	107.00	92.41	Excise Duty
88.45	128.08	103.21	Dealers' Commission (Average)
85.31	120.55	103.38	VAT (incl VAT on dealers' commission)
692.67	711.50	616.00	Retail Selling Price
445.25	452.66	428.68	
698.25	666.53	603.26	Built I
74.51	80.39	83.30	Particulars
ms, excise du	ty & GST rates		Price before taxes and dealers'/distributors' commission
		GST rates	Dealers'/distributors' commission
dutv #	,		GST (incl GST on dealers'/distributors' commission)
2.50%	Rs 19.90/Ltr	**	Retail Selling Price
2.50%	Rs 15.80/Ltr	**	*Petrol and Diesel at Delhi as per IOCL are as or
5.00%		5.00%	Mumbai as on 1st Dec 2023 and Subsidised Do
5.00%		18.00%	
Nil***	Not Applicable	5.00%	1st Dec 2023.
5.00%	Not Applicable	18.00%	
2.50%		18.00%	
2.50%		18.00%	
5.00%	11% *	**	
Rs.1/MT+ Rs.50/-MT as NCCD	Rs.1/MT+ Cess@20% + Rs.50 /-MT NCCD + Rs.5000/ MT SAED	**	
	79.18 89.66 88.45 85.31 692.67 445.25 698.25 74.51 ms, excise du Basic customs duty" 2.50% 5.00% 5.00% Nil*** 5.00% 2.50% 6.00% Rs.1/MT+ Rs.50/-MT as	FOB prices/ Exchange rates (\$\frac{9}{2021-22}\$           2021-22         2022-23           79.18         93.15           89.66         107.00           88.45         128.08           85.31         120.55           692.67         711.50           445.25         452.66           698.25         666.53           74.51         80.39           ms, excise duty & GST rates         Excise duty           Basic customs dutv *         2.50%         Rs 19.90/Ltr           2.50%         Rs 15.80/Ltr         5.00%           5.00%         Not Applicable           2.50%         Not Applicable           8s.1/MT+         Cess@20% +           Rs.50/-MT as         Rs.50/-MT NCCD +           Rs.500/ MT SAED	FOB prices/ Exchange rates (\$/bbl)           2021-22         2022-23         Nov 2023           79.18         93.15         83.46           89.66         107.00         92.41           88.45         128.08         103.21           85.31         120.55         103.38           692.67         711.50         616.00           445.25         452.66         428.68           698.25         666.53         603.26           74.51         80.39         83.30           ms, excise duty & GST rates         Excise duty           Basic customs duty *         GST rates           2.50%         Rs 19.90/Ltr         **           2.50%         Rs 15.80/Ltr         **           5.00%         5.00%         5.00%           18.00%         5.00%         18.00%           2.50%         18.00%         18.00%           5.00%         18.00%         18.00%           7.00%         18.00%         18.00%           7.00%         18.00%         18.00%           7.00%         18.00%         18.00%           8.50/MT+         8s.50/MT NCCD + RS.500/MT NCCD + RS.500/MT NAED         **

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

kes 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	67.41	786.91
Dealers'/distributors' commission	2.66	73.08
GST (incl GST on dealers'/distributors' commission)	3.50	43.01
Retail Selling Price	77.61	903.00

\*Petrol and Diesel at Delhi as per IOCL are as on 1st Dec 2023. PDS SKO at Mumbai as on 1st Dec 2023 and Subsidised Domestic LPG at Delhi as on 1st Dec 2023.

<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 01.12.2023 SAED on crude oil.

#### 25. Information on Prices, Taxe **DBTL/ PMUY Subsidy** Domestic LPG under DBTL (Direct benefit transfer for LPG) **Product** 2020-21 2021-22 2022-23 (P) 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)

ces, Taxes and Unde								
Sales & profit of petroleum sector (Rs. Crores)								
Particulars	2-23	H1-202	3-24 (P)					
	Turnover	PAT	Turnover	PAT				
Upstream/midstream	3,21,099	50,941	1,42,816	25,987				
Companies (PSU)	3,21,099	30,941	1,42,810	23,367				
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	ts	28%	23%	18%				
State Governments	2,17,650	2,82,122	3,20,651					
% of total revenue receipt	8%	8%	8%					
Total (Rs. Cror	es)	6,72,719	7,74,425	7,48,718				
Total Subsidy	as a percent	age of GDP	(at current pr	ices)				

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

2020-21

0.06

\*\*Totals may not tally due to roundoff.

**Particulars** 

Petroleum subsidy

2021-22

0.01

2022-23 (P)

0.03

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



26. Capital expenditure of PSU oil companies					
(Rs in crores)					
Company	2020-21	2021-22	2022-23 (P)	2023-24 (P)	
				Target (Annual)	Apr-Nov'23 (P)
ONGC Ltd	26,441	26,621	29,209	30,125	20,131
ONGC Videsh Ltd (OVL)	5,351	4,836	2,723	3,229	1,891
Oil India Ltd (OIL)	12,802	4,239	5,057	4,896	3,087
GAIL (India) Ltd	5,560	6,970	8,313	7,750	5,365
Indian Oil Corp. Ltd. (IOCL)	27,195	29,604	35,205	30,395	23,468
Hindustan Petroleum Corp. Ltd (HPCL)	14,036	16,205	13,847	10,210	8,763
Bharat Petroleum Corp. Ltd (BPCL)	10,697	11,449	11,527	10,000	6,746
Mangalore Refinery & Petrochem Ltd (MRPL)	2,218	604	641	820	678
Chennai Petroleum Corp. Ltd (CPCL)	592	575	609	548	395
Numaligarh Refinery Ltd (NRL)	981	3,403	6,615	8,290	4,799
Balmer Lawrie Co. Ltd (BL)	42	23	46	40	28
Engineers India Ltd (EIL)	730	67	60	98	67
Total	1,06,642	1,04,596	1,13,853	1,06,401	75,418

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional

Totals may not tally due to roundoff.

	27. Conversion factor				
Weight to	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 conv	ersion				
	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	
	G	GCV (Gross Calorific Value)	10,000 kcal/SCM	
	N	ICV (Net Calorific Value)	90% of GCV	
		Sas required for 1 MW power eneration	4,541 SCM/day	
		ower generation from 1 MMSCMD f gas	220 MW	



## **Petroleum Planning & Analysis Cell**

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