

Snapshot of India's Oil & Gas data

Monthly Ready Reckoner
October 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 October 2023 was 2.5 MMT. OIL registered a production of 0.3 MMT, ONGC registered a production of 1.6 MMT whereas PSC registered production of 0.6 MMT during October 2023. There is a growth of 1.3% in crude oil and condensate production during October 2023 as compared to October 2022.
- Total Crude oil processed during October 2023 was 20.6 MMT which is 0.7% higher than October 2022, where PSU/JV refiners processed 14.3 MMT and Private refiners processed 6.2 MMT of crude oil. Total indigenous crude oil processed was 2.3 MMT and total imported crude oil processed was 18.3 MMT by all Indian Refineries (PSU+JV+PVT). There was a growth of 2.5 % in total crude oil processed in April October FY 2023 24 as compared to same period of FY 2022 23.
- Crude oil imports increased by 2.2% and 0.6% during October 2023 and April-October 2023 respectively as compared to the corresponding period of the previous year. As compared to net import bill for Oil & Gas for October 2022 of \$11.9 billion, the net import bill for Oil & Gas for October 2023 was \$11.8 billion. Out of which, crude oil imports constitutes \$11.7 billion, LNG imports \$1.2 billion and the exports were \$3.6 billion during October 2023.
- The price of Brent Crude averaged \$91.05/bbl during October 2023 as against \$94.00/bbl during September 2023 and \$93.33/bbl during October 2022. The Indian basket crude price averaged \$90.08/bbl during October 2023 as against \$93.54/bbl during September 2023 and \$91.70 /bbl during October 2022.
- Production of petroleum products was 21.8 MMT during October 2023 which is 4.2% higher than October 2022. Out of 21.8 MMT, 21.5 MMT was from refinery production & 0.3 MMT was from fractionator. There was a growth of 4.0 % in production of petroleum products in April October FY 2023 24 as compared to same period of FY 2022 23. Out of total POL production, in October 2023, share of HSD is 43.1 %, MS 15.1 %, naphtha 6.6 %, ATF 5.9 %, petcoke 5.0 %, LPG 4.4% which are of major products and rest are shared by bitumen, FO/LSHS, LDO, lubes & others.

POL products imports increased by 12.1% and 12.8% during October 2023 and April-October 2023 respectively as compared to the corresponding period of the previous year. Increase in POL products imports during April-October 2023 were mainly due to increase in imports of petcoke, bitumen and fuel oil (FO).

- Exports of POL products increased by 12.6% and decreased by 0.8% during October 2023 and April-October 2023 respectively as compared to the corresponding period of the previous year. Decrease in POL products exports during April-October 2023 were mainly due to decrease in exports of high-speed diesel (HSD) and naphtha.
- The consumption of petroleum products during April-October 2023, with a volume of 133.6 MMT, reported a growth of 6.0 % compared to the volume of 126 MMT during the same period of the previous year. This growth was led by 6.% growth in MS, 6.7% in HSD & 13.1% in ATF & 12.6% in Naptha consumption besides LPG, Lubes, Bitumen, Petcoke and LDO during the period. The consumption of petroleum products during October 2023 recorded a growth of 3.7% with a volume of 19.3 MMT compared to the same period of the previous year.
- Ethanol blending with Petrol was 12.38% during October 2023 and cumulative ethanol blending during December 2022-October 2023 was 12.06%.
- Total Natural Gas Consumption (including internal consumption) for the month of October 2023 was 5447 MMSCM which
 was 13.4% higher than the corresponding month of the previous year. The cumulative consumption of 38368 MMSCM for
 the current financial year till October 2023 was higher by 8.8% compared with the corresponding period of the previous
 year.
- Gross production of natural gas for the month of October 2023 (P) was 3161 MMSCM which was higher by 9.3% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 21040 MMSCM for the current financial year till October 2023 was higher by 4.8% compared with the corresponding period of the previous year.
- LNG import for the month of October 2023 (P) was 2337 MMSCM which was 18.2% higher than the corresponding month of the previous year. The cumulative import of 17753(P) MMSCM for the current financial year till October 2023 was higher by 13.4% compared with the corresponding period of the previous year.



	1. S	elected ind	licators of	the Indiar	n economy	1		
	Economic indicators	Unit/ Base	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	4.0	-6.6	9.1	7.2	7.8
	dbi at constant (2011-12 i rices)		2nd RE	1st RE	1st RE	1st RE	PE	Q1, 2023-24 (E)
	A seise de une la Bose de setions	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)
	(as percent of GDP)				RE	RE	RE	E
	Economic indicators	Unit/ Base	2021-22	2022-23	Octo	ober	April-C	October

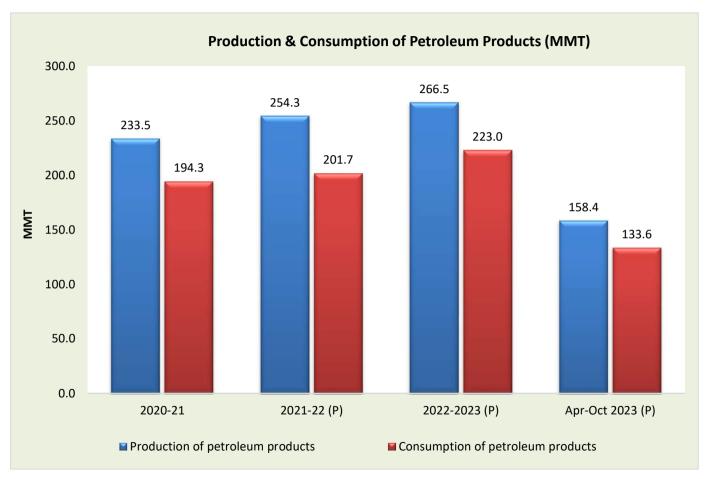
	Economic indicators	Unit/ Base	2021-22	2022-23	October		April-October	
					2022-23	2023-24 (P)	2022-23	2023-24 (P)
15	Index of Industrial Production (Base: 2011-12)	Growth %	11.4	5.5#	3.3*	5.8* QE	7.1#	6.0#
6	Imports^	\$ Billion	611.9	714.2	57.9	65.0	430.5	392.0
7	Exports^	\$ Billion	422.0	451.0	31.6	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 [@]	\$ Billion	617.6	578.4	524.5	581.2	-	-

Population projection by RGI is taken as on 1st July for the year. IIP is for the month of *Sept'23 and #April-Sept'23; @2021, 2021-22 - as on March 26, 2022, Mar 2022 as on Mar 25, 2022, Mar 2023-as on Mar 31, 2023, September 2022 as on September 30, 2022 and September, 2023 as on September 29, 2023; ^Imports & Exports are for Merchandise for the month of September 23; E: Estimates; PE: Provisional Estimates: AE-Advanced 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	Octo	ber	April-0	ctober				
			(P)	(P)	2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)				
1	Crude oil production in India [#]	MMT	29.7	29.2	2.5	2.5	17.2	17.2				
2	Consumption of petroleum products*	MMT	201.7	223.0	18.6	19.3	126.0	133.6				
3	Production of petroleum products	MMT	254.3	266.5	20.9	21.8	152.3	158.4				
4	Gross natural gas production	MMSCM	34,024	34,450	2,893	3,161	20,077	21,040				
5	Natural gas consumption	MMSCM	64,159	59,969	4,806	5,447	35,256	38,368				
6	Imports & exports:											
	Crude oil imports	MMT	212.4	232.7	18.1	18.5	133.6	134.4				
	crude on imports	\$ Billion	120.7	157.5	12.1	11.7	101.2	75.5				
	Petroleum products (POL)	MMT	39.0	44.6	3.9	4.4	24.7	27.8				
	imports*	\$ Billion	23.7	26.9	2.1	2.4	16.2	13.2				
	Gross petroleum imports	MMT	251.4	277.3	22.1	22.9	158.3	162.2				
	(Crude + POL)	\$ Billion	144.3	184.4	14.2	14.1	117.3	88.6				
	Petroleum products (POL)	MMT	62.8	61.0	4.0	4.5	35.4	35.2				
	export	\$ Billion	44.4	57.3	3.7	3.6	36.7	27.2				
	LNG imports*	MMSCM	31,028	26,304	1,977	2,337	15,657	17,753				
	LING IIIIports	\$ Billion	13.5	17.1	1.4	1.2	9.4	6.6				
	Net oil & gas imports	\$ Billion	113.4	144.2	11.9	11.8	90.1	68.0				
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	23.6	25.8	24.5	21.7	27.3	22.6				
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	10.5	12.7	11.8	10.8	13.9	11.1				
9	Import dependency of crude oil (on POL consumption basis)	%	85.5	87.4	86.9	87.4	86.6	87.6				

#Includes condensate; *Private direct imports are prorated for the period Sept'23 to Oct'23 for POL. LNG Imports figure from DGCIS are prorated for Sept'23 to October 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		October			April-Octobe	r				
		(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	10.9	11.4	10.6				
Oil India Limited (OIL)	3.0	3.2	0.3	0.3	0.3	1.8	2.0	1.9				
Private / Joint Ventures (JVs)	7.0	6.2	0.5	0.6	0.5	3.7	4.3	3.4				
Total Crude Oil	28.4	27.8	2.3	2.6	2.3	16.4	17.6	15.9				
ONGC condensate	0.9	1.0	0.09	0.0	0.09	0.6	0.0	0.6				
PSC condensate	0.3	0.31	0.03	0.0	0.1	0.2	0.0	0.6				
Total condensate	1.2	1.4	0.11	0.0	0.2	0.8	0.0	1.2				
Total (Crude + Condensate) (MMT)	29.7	29.2	2.5	2.6	2.5	17.2	17.6	17.2				
Total (Crude + Condensate) (Million Bbl/Day)	0.60	0.59	0.58	0.61	0.59	0.59	0.60	0.59				

^{*}Provisional targets inclusive of condensate.

4. Domestic and overseas oil & gas production (by Indian Companies)											
Details 2021-22 2022-23 October April-Octol											
		(P)	2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)					
Total domestic production (MMTOE)	63.7	63.6	5.4	5.7	37.3	38.2					
Overseas production (MMTOE)	21.8	19.5	1.6	1.6	11.3	11.5					

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

	5. High Sulphur (HS) & Low Sulphur (LS) crude oil processing (MMT)												
	Details	2021-22	2022-23	Oct	ober	April-October							
			(P)	2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)						
1	High Sulphur crude	185.0	197.9	15.4	16.1	113.7	116.2						
2	Low Sulphur crude	56.7	57.4	5.0	4.4	33.0	34.1						
Total c	rude processed (MMT)	241.7	255.2	20.4	20.6	146.7	150.4						
Total c	rude processed (Million Bbl/Day)	4.85	5.13	4.83	4.86	5.03	5.15						
Percer	tage share of HS crude in total crude oil processing	76.6%	77.5%	75.7%	78.4%	77.5%	77.3%						

6. Qua	6. Quantity and value of crude oil imports										
Year	Quantity (MMT)	\$ Million	Rs. Crore								
2021-22	212.4	120,675	9,01,262								
2022-23	232.7	157,531	12,60,372								
April-Oct 2023-24(P)	134.4	75,464	6,23,188								

	7. Self-sufficiency in petroleum products (Million Metric Tonnes)											
	Particulars	2021-22	2022-23	Octo	ober	April-C	ctober					
	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	2.3	15.9	15.6					
2	Products from indigenous crude (93.3% of crude oil processed)	25.2	24.7	2.2	2.1	14.8	14.6					
3	Products from fractionators (Including LPG and Gas)	4.1	3.5	0.3	0.3	2.1	2.0					
4	Total production from indigenous crude & condensate (2 + 3)	29.3	28.2	2.4	2.4	16.9	16.6					
5	Total domestic consumption	201.7	223.0	18.6	19.3	126.0	133.6					
% Self	sufficiency (4 / 5)	14.5%	12.6%	13.1%	12.6%	13.4%	12.4%					

	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		October		А	April-October				
		(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	0.5	4.0	3.8	3.8			
2	Koyali (1965)	13.7	13.5	15.6	1.3	1.2	1.3	9.2	8.0	8.8			
3	Haldia (1975)	8.0	7.3	8.5	0.7	0.7	0.7	5.0	4.1	4.5			
4	Mathura (1982)	8.0	9.1	9.6	0.8	0.9	0.9	5.4	5.1	5.2			
5	Panipat (1998)	15.0	14.8	13.8	1.2	1.4	1.3	8.4	8.9	8.7			
6	Guwahati (1962)	1.0	0.7	1.1	0.09	0.0	0.0	0.6	0.5	0.6			
7	Digboi (1901)	0.65	0.7	0.7	0.06	0.06	0.07	0.4	0.4	0.4			
8	Bongaigaon(1979)	2.70	2.6	2.8	0.3	0.3	0.3	1.5	1.7	1.8			
9	Paradip (2016)	15.0	13.2	13.6	1.2	1.2	0.7	6.8	8.8	8.5			
	IOCL-TOTAL	70.1	67.7	72.4	6.2	6.2	5.7	41.3	41.4	42.2			
10	Manali (1969)	10.5	9.0	11.3	0.7	0.9	1.0	6.5	5.6	6.7			
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	0.7	0.9	1.0	6.5	5.6	6.7			
12	Mumbai (1955)	12.0	14.4	14.5	1.3	1.0	0.7	7.9	8.2	8.8			
13	Kochi (1966)	15.5	15.4	16.0	0.6	1.3	1.5	8.6	9.1	9.9			
14	Bina (2011)	7.8	7.4	7.8	0.7	0.7	0.7	4.4	3.7	3.8			
	BPCL-TOTAL	35.3	37.2	38.4	2.6	2.9	3.0	21.0	21.0	22.5			
15	Numaligarh (1999)	3.0	2.6	3.1	0.3	0.3	0.3	1.8	1.4	1.1			

Sl. no.	Refinery	Installed			Cruc	de oil proce	essing (MM	IT)		
		capacity	2021-22	2022-23	October			April-October		
		(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	0.01	0.005	0.04	0.04	0.04
17	MRPL-Mangalore (1996)	15.0	14.9	17.1	1.5	1.3	1.4	9.8	8.7	9.0
	ONGC-TOTAL	15.1	14.9	17.2	1.5	1.3	1.4	9.8	8.7	9.0
18	Mumbai (1954)	9.5	5.6	9.8	0.8	0.8	0.9	5.6	5.5	5.9
19	Visakh (1957)	11.0	8.4	9.3	0.8	1.1	1.0	5.2	6.6	7.2
20	HMEL-Bathinda (2012)	11.3	13.0	12.7	1.1	1.0	1.1	7.4	6.5	7.6
	HPCL- TOTAL	31.8	27.0	31.8	2.7	2.9	3.0	18.2	18.6	20.7
21	RIL-Jamnagar (DTA) (1999)	33.0	34.8	34.4	2.9	2.9	2.9	20.8	20.8	20.1
22	RIL-Jamnagar (SEZ) (2008)	35.2	28.3	27.9	1.8	1.8	1.6	15.4	15.4	16.2
23	NEL-Vadinar (2006)	20.0	20.2	18.7	1.7	1.7	1.7	12.0	12.0	11.8
All India	(MMT)	253.9	241.7	255.2	20.4	20.9	20.6	146.7	145.0	150.4
All India	(Million Bbl/Day)	5.02	4.85	5.13	4.83	4.95	4.86	5.03	4.97	5.15

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 01.11.2023)												
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			

^{*}Others include GAIL and Petronet India. HPCL and BPCL lubes pipeline included in products pipeline data

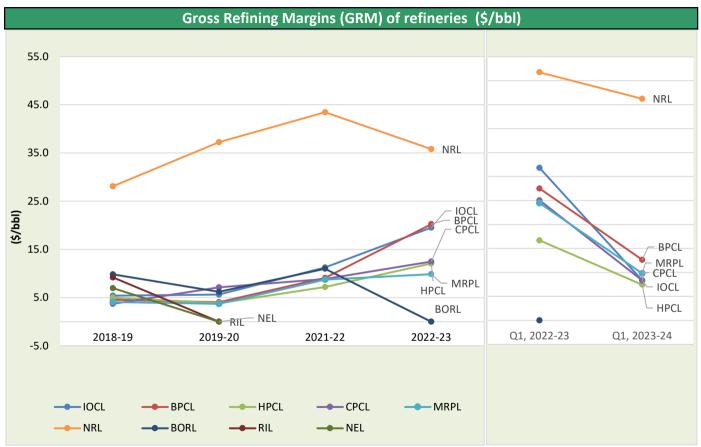
OIL & GAS MAP OF INDIA LEGENDS LEGENDS

	10. Gross	Refining Margins	(GRM) of refineri	es (\$/bbl)	
Company	2020-21	2021-22	2022-23	Apr -	June
Company	1010 11		1011 10	2022-23	2023-24
IOCL	5.64	11.25	19.52	31.81	8.34
BPCL	4.06	9.09	20.24	27.51	12.64
HPCL	3.86	7.19	12.09	16.69	7.44
CPCL	7.14	8.85	12.48	25.04	8.33
MRPL	3.71	8.72	9.88	24.45	9.81
NRL	37.23	43.46	35.82	51.76	46.23
BORL	6.20	11.00	#	#	#
RIL	*	*	* *		*
NEL	*	*	*	*	*

GRM of North Eastern refineries are including excise duty benefit

[#] BPCL figures effective 2022-23 includes BORL also after its merger with BPCL

^{*}Not available



GRM of North Eastern refineries are including excise duty benefit

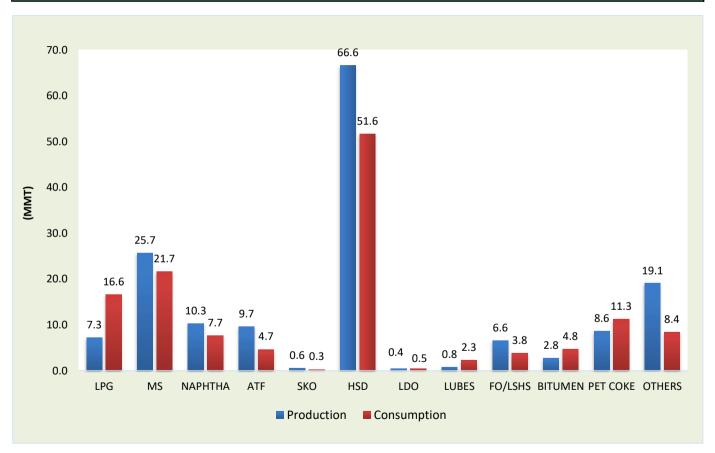


Consumption

	11. Pro	duction	and cor	sumption	on of pe	troleun	n produ	ıcts (Mil	lion Me	tric Ton	nes)	
Duradicata	202	1-22	2022-	·23 (P)	Oct-	2022	Oct-2	023 (P)	Apr-O	ct 2022	Apr-Oct	2023 (P)
Products	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.2	28.3	12.8	28.5	1.2	2.4	1.0	2.5	7.5	16.2	7.3	16.6
MS	40.2	30.8	42.8	35.0	3.3	3.0	3.3	3.1	24.4	20.4	25.7	21.7
NAPHTHA	20.0	13.2	17.0	12.2	1.2	0.9	1.4	1.1	10.0	6.8	10.3	7.7
ATF	10.3	5.0	15.0	7.4	1.3	0.6	1.3	0.7	8.3	4.1	9.7	4.7
SKO	1.9	1.5	0.9	0.5	0.0	0.0	0.0	0.0	0.6	0.3	0.6	0.3
HSD	107.2	76.7	113.8	85.9	9.0	7.0	9.4	7.6	65.5	48.4	66.6	51.6
LDO	0.8	1.0	0.6	0.7	0.04	0.1	0.06	0.1	0.3	0.4	0.4	0.5
LUBES	1.2	4.5	1.3	3.7	0.1	0.4	0.1	0.3	0.7	2.1	0.8	2.3
FO/LSHS	8.9	6.3	10.4	7.0	1.0	0.6	0.7	0.5	6.2	4.0	6.6	3.8
BITUMEN	5.1	7.8	4.9	8.0	0.3	0.6	0.4	0.7	2.5	3.8	2.8	4.8
PET COKE	15.5	14.3	15.4	18.3	1.2	1.7	1.1	1.5	8.9	10.5	8.6	11.3
OTHERS	30.9	12.3	31.5	15.8	2.1	1.4	3.0	1.0	17.3	8.9	19.1	8.4
ALL INDIA	254.3	201.7	266.5	223.0	20.9	18.6	21.8	19.3	152.3	126.0	158.4	133.6
Growth (%)	-3.1%	-5.4%	4.8%	10.6%	-3.1%	5.7%	4.2%	3.7%	8.1%	13.2%	4.0%	6.0%

Note: Prod - Production; Cons - Consumption

Petroleum Products: April-October 2023 (P) (MMT)



12. Kerosene allocation vs upliftment (Kilo Litres)											
Product	0-21	202	1-22	202	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	795,048	241,695			

* Allocation is for Apr-Dec 2023-24 and upliftment is for Apr-Oct 2023

	13. Ethanol	blending programm									
		Ethanol Su	upply Year *								
Particulars	2019-20	2020-21	2021-22		-23 (P)						
		2020-21	2021-22	Oct-23	Dec'22-Oct'23						
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	173.0	296.1	408.1	35.8	494.0						
Ethanol blended under EBP Program (in Cr. Litrs)	170.5	302.3	433.6	48.8	508.8						
Average Percentage of Blending Sales (EBP%)	5.0%	8.1%	10.0%	12.4%	12.1%						

^{*}Ethanol Supply Year: Ethanol supplies take place between 1st December of the present year to 30th November of the following year.

Note: With effect from 0.14.2019 FRP Programme has been extended to whole of India except. ITs of Andaman and Nicobar Islands and Lakshadween.

14. Industry marketing infrastructure (as on 01.11.2023) (Provisional)											
14. Indust	ry marketi	ng infrastr	ucture (as	on 01.11.	.2023) (Pr	ovisional)					
Particulars	IOCL	BPCL	HPCL	RIL/RBML/RSIL	NEL	SHELL	MRPL & Others	Total			
POL Terminal/ Depots (Nos.) ^{\$}	126	83	81	18	3		6	317			
Aviation Fuel Stations (Nos.) [@]	129	65	54	30			1	279			
Retail Outlets (total) (Nos.),	36,792	21,391	21,482	1,670	6,491	347	75	88,248			
out of which Rural ROs	11,934	5,371	5,313	130	2,094	89	25	24,956			
SKO/LDO agencies (Nos.)	3,849	927	1,638					6,414			
LPG Distributors (total) (Nos.) (PSUs only)	12,869	6,247	6,321					25,437			
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					31.6			

(Others=4 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.

Industry Alternate fuel i	ntrastructı	ure at Reta	il outlets (Nos. of RO	Os as on 0:	<u>1.11.2023</u>) (Provision	nal)
Alternate fuel	IOCL	BPCL	HPCL	RBML/RSIL	NEL	SHELL	MRPL	Total
CNG_LNG	1920	1663	1540	24	36	0	2	5185
EV Charging	6314	855	2355	42	185	234	7	9992
Auto LPG	326	44	126	61	52	0	0	609
Compressed Bio-Gas outlets	55	41	32	1	0	0	0	129
Total Retail outlets with at least one	7968	2304	3691	117	271	232	9	14592
Solarization at Retail outlets	21768	5149	11340	74	963	0	0	39294



PART-D

LPG

		15. LPG cons	sumption (The	ousand Metr	ic Tonne)						
LPG category	2021-22	2022-23		October		A	April-October				
			2022-23	2023-24 (P)	Growth (%)	2022-23	2023-24 (P)	Growth (%)			
1. PSU Sales :	PSU Sales :										
LPG-Packed Domestic	25,501.6	25,381.5	2,109.9	2,187.6	3.7%	14,501.9	14,631.5	0.9%			
LPG-Packed Non-Domestic	2,238.8	2,606.0	243.8	238.7	-2.1%	1,391.7	1,598.3	14.8%			
LPG-Bulk	390.9	408.9	31.4	62.0	97.0%	210.4	346.1	64.5%			
Auto LPG	122.0	106.7	8.9	7.5	-15.9%	64.1	55.2	-13.9%			
Sub-Total (PSU Sales)	28,253.3	28,503.1	2,394.0	2,495.7	4.2%	16,168.1	16,631.1	2.9%			
2. Direct Private Imports*	0.1	0.1	0.00	0.01	-	0.02	0.05	166.4%			
Total (1+2)	28,253.4	28,503.2	2,394.0	2,495.7	4.2%	16,168.1	16,631.1	2.9%			

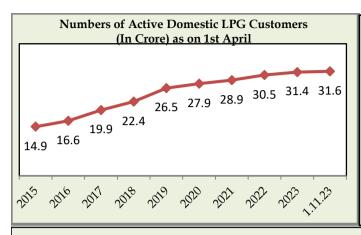
*Sept-Oct'23 DGCIS data is prorated

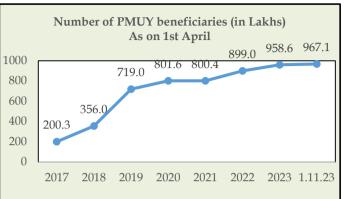
				16.	LPG ma	arketin	g at a	glance						
Particulars	Unit	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	1.11.23
(As on 1st of April)														(P)
LPG Active Domestic	(Lakh)				1486	1663	1988	2243	2654	2787	2895	3053	3140	3164
Customers	Growth					11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	5.5%	2.9%	1.2%
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%	-	-	-
D14111/D 6:::	(Lakh)						200.3	356	719	802	800	899.0	958.6	967.1
PMUY Beneficiaries	Growth							77.7%	101.9%	11.5%	-0.2%	12.2%	6.6%	1.2%
LPG Distributors	(No.)	11489	12610	13896	15930	17916	18786	20146	23737	24670	25083	25269	25386	25437
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	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%	-13.0%
Bottling Plants	(No.)	184	185	187	187	188	189	190	192	196	200	202	208	210
	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%

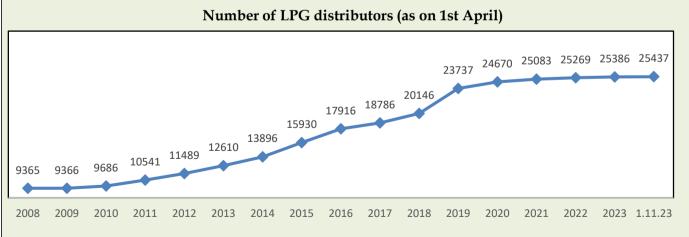
Source: PSU OMCs (IOCL, BPCL and HPCL)

^{1.} Growth rates as on 01.11.2023 are with respect to figs as on 01.11.2022. Growth rates as on 1 April of any year are with respect to figs as on 1 April of previous year.

^{2.} 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.

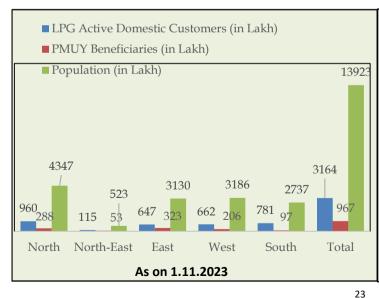


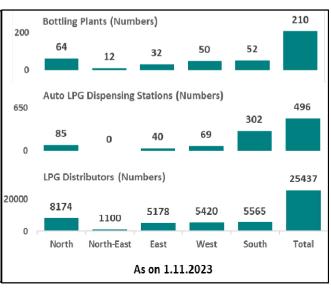




17-Region-w	17-Region-wise data on LPG marketing (As on 01.11.2023)											
Particulars	North	North-East	East	West	South	Total						
LPG Active Domestic Customers (in Lakh)	959.7	114.7	646.9	662.1	780.9	3164.2						
Population^ (in Lakh)	4347.5	523.0	3130.2	3185.9	2736.7	13923.3						
PMUY Beneficiaries (in Lakh)	287.8	53.3	323.1	206.4	96.5	967.1						
LPG Distributors (Numbers)	8174	1100	5178	5420	5565	25437						
Auto LPG Dispensing Stations (Numbers)	85	0	40	69	302	496						
Bottling Plants* (Numbers)	64	12	32	50	52	210						

^{*}Includes Numaligarh BP, Duliajan BP and CPCL BP. ^Population as on 1st July 2023 taken from RGI POPULATION PROJECTIONS 2011 – 2036

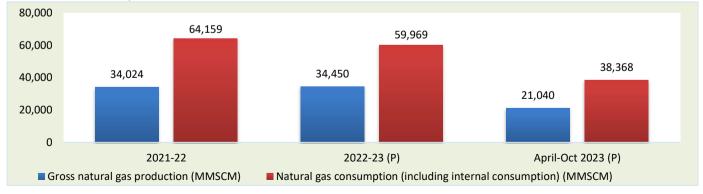






	18. Natural gas at a glance										
								(MMSCM)			
Details	2021-22	2022-23		October			April-Octobe	er			
	(P)	(P)	2022-23	2023-24	2023-24	2022-23	2023-24	2023-24 (P)			
			(P)	(Target)	(P)	(P)	(Target)				
(a) Gross production	34,024	34,450	2,893	3,331	3,161	20,077	21,829	21,040			
- ONGC	20,629	19,969	1,683	1,756	1,634	11,759	12,087	11,385			
- Oil India Limited (OIL)	2,893	3,041	260	274	273	1,786	1,831	1,791			
- Private / Joint Ventures (JVs)	10,502	11,440	951	1,302	1,254	6,532	7,912	7,865			
(b) Net production (excluding flare gas and loss)	33,131	33,664	2,829		3,111	19,600		20,615			
(c) LNG import [#]	31,028	26,304	1,977		2,337	15,657		17,753			
(d) Total consumption including internal consumption (b+c)	64,159	59,969	4,806		5,447	35,256		38,368			
(e) Total consumption (in BCM)	64.2	60.0	4.8		5.4	35.3		38.4			
(f) Import dependency based on consumption (%), {c/d*100}	48.4	43.9	41.1		42.9	44.4		46.3			

October 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)	vailable coal bearing areas (India)							
Total available coal bearing areas with MoPNG/DGH								
Area awarded		20,460**	Sg. KM					
Blocks awarded*		36	Nos.					
Exploration initiated (Area considered if any boreholes were drilled	l in the awarded block) April-Oct 2023 (P)	10670	Sg. KM					
Production of CBM gas	379.93	MMSCM						
Production of CBM gas	55.23	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 01.11.2023) (Provisional)											
Particulars	Units	IOCL	HPCL	BPCL	GAIL	IGL	Total					
No. of CBG plants commissioned and initiated sale of CBG	No. of plants	22	6	3	10	5	46					
Start of CBG sale from retail outlet(s)	Nos.	52	31	45	1	3	132					
Sale of CBG in 2022-23	Tons	5,822	77	6	5322		11,227					
Sale of CBG in 2023-24 (up to October, 2023)	Tons	3699	84	27	5737*		9548					
Sale of CBG in CGD network	GA Nos.				18		18					

*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 30.06.2023													
Nature of pip	oeline	GAIL	GSPL	PIL	IOCL	AGCL	RGPL	GGL	DFPCL	ONGC	GIGL	GITL	Others*	Total
Operational	Length	10,932	2,716	1,479	143	107	304	73	42	24				15,820
ļ '	Capacity	233.2	43.0	85.0	20.0	2.4	3.5	5.1	0.7	6.0				-
Partially	Length	4,342			386						1,279		365	6,371
commissioned#	Capacity													-
Total operational len	gth	15,274	2,716	1,479	529	107	304	73	42	24	1,279	0	365	22,191
Under construction	Length	4,327	100		1,110						1,053	220	4,361	11,171
onder construction	Capacity	-	3.0								-	-	-	-
Total lengt	:h	19,601	2,816	1,479	1,639	107	304	73	42	24	2,332	220	4,726	33,363

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 35,515 Kms (P)

	21. Existing Livid terminals						
Location	Promoters	Capacity as on 01.11.2023	% Capacity utilisation (April-Sept 2023)				
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	94.3				
Hazira	Shell Energy India Pvt. Ltd.	5.2 MMTPA	39.8				
Dabhol	Konkan LNG Limited	*5 MMTPA	29.0				
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	19.9				
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	16.2				
Mundra	GSPC LNG Limited	5 MMTPA	12.5				
Dhamra	Adani Total Private Limited	5 MMTPA	26.4				
	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 30.09.2023(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	168	263,433	450	36		
Andhra Pradesh, Karnataka & Tamil Nadu	41	3,311	1	5		
Assam	7	53,107	1,375	450		
Bihar	111	113,900	95	4		
Bihar & Jharkhand	6	7,658	2	0		
Bihar & Uttar Pradesh	14	0	0	0		
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	26	26,224	142	31		
Chhattisgarh	10	0	0	0		
Dadra & Nagar Haveli (UT)	7	11,563	55	60		
Daman & Diu (UT)	5	5,169	58	45		
Daman and Diu & Gujarat	15	3,325	15	0		
Goa	12	11,426	20	34		
Gujarat	999	3,128,413	22,790	5,758		
Haryana	357	362,734	937	2,010		
Haryana & Himachal Pradesh	10	10	0	0		
Haryana & Punjab	26	553	0	0		
Himachal Pradesh	10	6,559	8	0		
Jharkhand	83	114,540	14	2		
Karnataka	330	408,754	549	336		
Kerala	115	52,218	27	18		
Kerala & Puducherry	9	446	0	0		
Madhya Pradesh	254	218,603	400	475		
Madhya Pradesh and Chhattisgrah	7	0	0	0		
Madhya Pradesh and Rajasthan	32	586	0	0		
Madhya Pradesh and Uttar Pradesh	16	0	0	2		
Maharashtra	795	3,072,239	4,708	930		
Maharashtra & Gujarat	60	187,645	8	28		
Maharashtra and Madhya Pradesh	13	0	0	0		
National Capital Territory of Delhi (UT)	481	1,473,969	3,726	1,846		

State/UT	CNG Stations	PNG connections			
(State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	Domestic	Commercial	Industrial	
Odisha	70	93,776	6	0	
Puducherry	2	0	0	0	
Puducherry & Tamil Nadu	8	233	0	0	
Punjab	211	76,690	471	272	
Punjab & Rajasthan	12	0	0	0	
Rajasthan	262	236,375	143	1,589	
Tamil Nadu	243	10,384	3	10	
Telangana	161	194,519	95	106	
Telangana and Karnataka	4	0	0	0	
Tripura	18	60,209	506	62	
Uttar Pradesh	849	1,464,380	2,398	2,889	
Uttar Pradesh & Rajasthan	42	19,116	45	346	
Uttar Pradesh and Uttrakhand	26	12,089	0	0	
Uttarakhand	31	71,069	73	88	
West Bengal	77	1,623	3	1	
Total	6,035	11,766,848	39,123	17,433	

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.

Period		Domest	ic Natural Gas price in	Gas price ceiling in US\$/MMBTU		
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	
pril 2019 - September 2019			3.69		9.32	
October 2019 - March 2020			3.23	8.43		
pril 2020 - September 2020			2.39	5.61		
October 2020 - March 2021		1.79		4.06		
pril 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	
. April 2023 - 7 April 2023			9.16		12.12	
	Domestic Ga	is calculated	Domestic Gas ceiling price for		HP-HT Gas price ceiling i	
Period	price in US	\$/MMBTU	ONGC/OIL in US\$/MMBTU	Period	US\$/MMBTU	
8 April 2023 - 30 April 2023	7.9		6.50	_		

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	October'2023 - March 2024	9.96
1 Nov 2023 - 30 Nov 2023	9.12	6.50	October 2023 - March 2024	5.90

Natural Gas prices are on GCV basis

24. CNG/PNG prices							
City	CNG (Rs/Kg)		PNG (Rs/SCM)	Source			
Delhi	74.59		48.59				
Mumbai	76.00		47.00				
	Indian Natural Gas Spot Price for Physical Delivery						
IGX Price Index Month	Avg.	Price	Volume	Source			
IGA Price ilidex Month	INR/MMBtu	\$/MMBtu	(MMSCM)	550155			
`Oct 2023	1012	12.20	147.00	As per IGX website:			
				www.igxindia.com			

^{*}Prices are weighted average prices |\$1=INR 83.23| 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
Internationa	FOB prices/	Exchange rates (\$	(bbl)	Price buildup of petroleum products (Rs
Particulars	2021-22	2022-23	Oct 2023	Particulars
Crude oil (Indian Basket)	79.18	93.15	90.08	Price charged to dealers (excluding Excise Duty and VAT)
Petrol	89.66	107.00	93.78	Excise Duty
Diesel	88.45	128.08	113.58	Dealers' Commission (Average)
Kerosene	85.31	120.55	109.84	VAT (incl VAT on dealers' commission)
LPG (\$/MT)	692.67	711.50	609.00	Retail Selling Price
FO (\$/MT)	445.25	452.66	456.08	
Naphtha (\$/MT)	698.25	666.53	613.53	Particulars
Exchange (Rs./\$)	74.51	80.39	83.24	Particulars
Custo	ms, excise du	ity & GST rates		Price before taxes and dealers'/distributors' commission
Product	Basic customs	Excise duty	GST rates	Dealers'/distributors' commission
	dutv #			GST (incl GST on dealers'/distributors' commission)
Petrol	2.50%	Rs 19.90/Ltr	**	Retail Selling Price
Diesel	2.50%	Rs 15.80/Ltr	**	*Petrol and Diesel at Delhi as per IOCL are as on
PDS SKO	5.00%		5.00%	Mumbai as on 1st Nov 2023 and Subsidised Do
Non-PDS SKO	5.00%		18.00%	
Domestic LPG	Nil***	Not Applicable	5.00%	1st Nov 2023.
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% *	**	
Crude Oil	Rs.1/MT+ Rs.50/-MT as NCCD	Rs.1/MT+ Cess@20% + Rs.50 /-MT NCCD + Rs.9800/ MT SAED	**	

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

ixes and under-recoveries/Substate	es <u> </u>	
Price buildup of petroleum products (Rs./litre/Cylir	nder) *
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 Nov 2023. PDS SKO at Mumbai as on 1st Nov 2023 and Subsidised Domestic LPG at Delhi as on 1st Nov 2023.

^{*2%} for scheduled commuter airlines from regional connectivity scheme airports;

^{**} GST Council shall recommend the date on which GST shall be levied on petroleum crude, HSD, MS, natural gas and ATF;

^{***} 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;

^{^^^} Effective 01.11.2023 SAED on crude oil.

25. Information on Price **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

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

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		

[^] 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	H1-2023-24 (P)				
	Turnover	PAT	Turnover	PAT			
Upstream/midstream	321,099	50,941	70,340	13,040			
Companies (PSU)	321,099	30,941	70,340	13,040			
Downstream Companies (PSU)	19,16,438	1,138	4,66,763	30,505			
Standalone Refineries (PSU)	245,272	9,875	45,025	1,484			
Private-RIL	566,805	44,205	125,715	9,726			
Borrov	wings of OM	Cs (Rs. Cror	es), As on				
Company		Mar'22	Mar'23	June'23			
IOCL		110,799	132,495	101,012			
BPCL		24,123	35,855	27,939			
HPCL	43,193	64,517	51,698				
Petroleum sector contribution to Central/State Govt.							
Particulars		2020-21	2021-22	2022-23			
Control Covernment	4 55 060	4.02.202	4 20 067				

Petroleum sector contribution to Central/State Govt.			
Particulars	2020-21	2021-22	2022-23
Central Government	4,55,069	4,92,303	4,28,067
% of total revenue receipts	28%	23%	18%
State Governments	2,17,650	2,82,122	3,20,651
% of total revenue receipts	8%	8%	8%
Total (Rs. Crores)	6,72,719	7,74,425	7,48,718

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

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

^{**}Totals may not tally due to roundoff.



26. Capital expenditure of PSU oil companies					
	(Rs in crores)				(Rs in crores)
Company	2020-21	2021-22	2022-23 (P)	2023-24 (P)	
				Target (Annual)	Apr-Oct'23 (P)
ONGC Ltd	26,441	26,621	29,209	30,125	17,714
ONGC Videsh Ltd (OVL)	5,351	4,836	2,723	3,229	1,637
Oil India Ltd (OIL)	12,802	4,239	5,057	4,896	2,722
GAIL (India) Ltd	5,560	6,970	8,313	7,750	5,036
Indian Oil Corp. Ltd. (IOCL)	27,195	29,604	35,205	30,395	20,180
Hindustan Petroleum Corp. Ltd (HPCL)	14,036	16,205	13,847	10,210	7,425
Bharat Petroleum Corp. Ltd (BPCL)	10,697	11,449	11,527	10,000	5,796
Mangalore Refinery & Petrochem Ltd (MRPL)	2,218	604	641	820	607
Chennai Petroleum Corp. Ltd (CPCL)	592	575	609	548	346
Numaligarh Refinery Ltd (NRL)	981	3,403	6,615	8,290	4,069
Balmer Lawrie Co. Ltd (BL)	42	23	46	40	26
Engineers India Ltd (EIL)	730	67	60	98	53
Total	106,642	104,596	113,853	106,401	65,610

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional

Totals may not tally due to roundoff.

27. Conversion fac			
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)	42 US Gallons			
	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



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