

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

Abridged Ready Reckoner





August 2022

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 PPAC's Snapshot of India's Oil & Gas data (Abridged Ready Reckoner) provides a comprehensive compilation of the latest 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

- The consumption of petroleum products during April-Aug 2022 with a volume of 90.6 MMT reported a growth of 14.5% compared to the volume of 79.1 MMT during the same period of the previous year. This growth was led by 11.6% growth in MS, 13.0% in HSD & 57.0% in ATF consumption during the quarter. The consumption of petroleum products during Aug 2022 recorded a growth of 16.3% with a volume of 17.8 MMT compared to the same period of the previous year.
- Indigenous crude oil and condensate production during August 2022 was down by 3.3 % than that of August 2021 as compared to a de-growth of 3.8 % during July 2022. OIL registered a growth of 3.7 % and ONGC registered a de-growth of 1.0 % during August 2022 as compared to August 2021. PSC registered de-growth of 12.2 % during August 2022 as compared to August 2021. De-growth of 1.1 % was registered in the total crude oil and condensate production during April August 2022 over the corresponding period of the previous year.
- Total Natural Gas Consumption (including internal consumption) for the month of August 2022 was 5198 MMSCM which was 10.0% lower than the corresponding month of the previous year. The cumulative consumption of 26321 MMSCM for the current year till August 2022 was lower by 3.8 % compared with the corresponding period of the previous year.
- Crude oil processed during August 2022 was 19.5 MMT, which was 5.9 % higher than August 2021 as compared to a growth
 of 10.5 % during July 2022. Growth of 12.3 % was registered in the total crude oil processing during April- August 2022 over
 the corresponding period of the previous year.
- Production of petroleum products saw a growth of 7.0% during August 2022 over August 2021 as compared to a growth of 6.2% during July 2022. Growth of 10.7 % was registered in the total POL production during April- August 2022 over the corresponding period of the previous year.
- Ethanol blending with Petrol was 9.12% during Aug 2022 and cumulative ethanol blending during December 2021- Aug 2022 was 10.03%.

- Gross production of natural gas for the month of August 2022 was 2896 MMSCM which was lower by 1.0% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 14332 MMSCM for the current financial year till August 2022 was higher by 2.5% compared with the corresponding period of the previous year.
- LNG import for the month of August 2022 (P) was 2369 MMSCM which was 18.9% lower than the corresponding month of the previous year. The cumulative import of 12340 (P) MMSCM for the current year till August 2022 was lower by 10.2% compared with the corresponding period of the previous year.
- Crude oil imports increased by 0.9% and 17.0% during August 2022 and April-August 2022 respectively as compared to the corresponding period of the previous year. The net import bill for oil & gas was \$11.6 billion in August 2022 compared to \$9.0 billion in August 2021. In this the crude oil imports constitutes \$13.1 billion, LNG imports \$1.2 billion and the exports were \$4.9 billion during August 2022.
- POL products imports increased by 13.7% and 14.5% during August 2022 and April-August 2022 respectively as compared to
 the corresponding period of the previous year. Increase in POL products imports during April-August 2022 were due to
 increase in imports of all products except aviation turbine fuel (ATF) and fuel oil (FO) etc.
- Exports of POL products increased by 9% during August 2022 and by 7.3% April-August 2022 respectively as compared to the corresponding period of the previous year. Increase in POL products exports during April-August 2022 were due to increase in exports of all products except superior kerosene oil (SKO), fuel oil (FO) and vacuum gas oil (VGO) etc.
- The price of Brent Crude averaged \$99.99/bbl during August 2022 as against \$112.70/bbl during July 2022 and \$70.81/bbl during August 2021. The Indian basket crude price averaged \$97.40/bbl during August 2022 as against \$105.49/bbl during July 2022 and \$69.80 /bbl during August 2021.



	1. Selected indicators of the Indian economy												
	Economic indicators	Unit/ Base	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23					
1	Population (Census 2011)	Billion	1.2	-	-	-	-	-					
	GDP	Growth %	6.8	6.5	4.0	-6.6	8.7	13.5					
	at constant (2011-12 Prices)		3rd RE	2nd RE	1st RE	1st RE	PE (2021-22)	QE (Q1, 2022-23)					
		MMT	285.0	285.2	297.5	310.7	315.7	-					
3	Agricultural Production						4th AE						
	(Food grains)	Growth %	3.6	0.1	4.3	4.5	1.6	-					
1	Gross Fiscal Deficit	%	3.5	3.4	4.6	9.5	6.8	6.4					
4	(as percent of GDP)					RE	BE	BE					

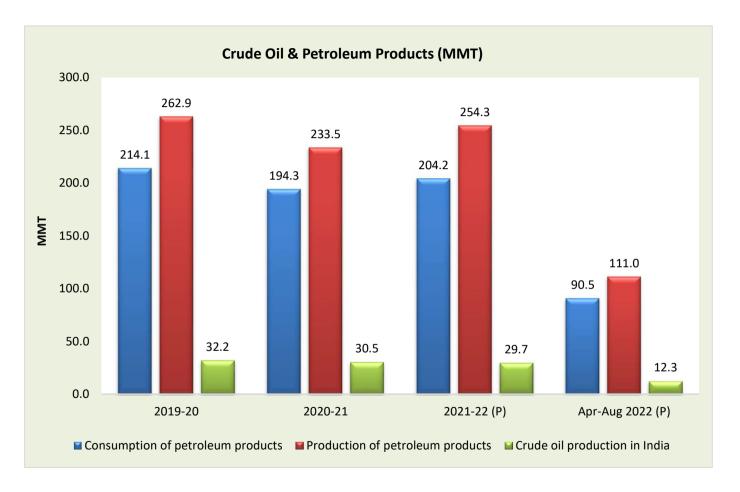
	Economic indicators	Unit/ Base	2020-21	2021-22	Aug		April-Aug	
				(P)	2021-22	2022-23 (P)	2021-22	2022-23 (P)
5	Index of Industrial Production (Base: 2011-12)	Growth %	-8.4	11.4	11.5*	2.4* QE	33.9#	10.0#
6	Imports^	\$ Billion	394.4	611.9	45.1	61.9	218.2	318.0
7	Exports^	\$ Billion	291.8	419.7	33.4	33.9	164.4	193.5
8	Trade Balance	\$ Billion	-102.6	-192.2	-11.7	-28.0	-53.8	-124.5
9	Foreign Exchange Reserves [@]	\$ Billion	579.3	617.6	633.6	561.0	-	-

IIP is for the month of *July and #April-July; [@]2020-21-as on March 26, 2021, 2021-22 - as on March 26, 2022, Aug 2021 as on Aug 27, 2021 and Aug 2022-as on Aug 26, 2022; ^Imports & Exports are for Merchandise; E: Estimates; PE: Provisional Estimates; AE-Advanced Estimates; RE-Revised Estimates; QE-Quick Estimates.

Source: 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	2020-21	2021-22	A	ug	April-Aug					
				(P)	2021-22 (P)	2022-23 (P)	2021-22 (P)	2022-23 (P)				
1	Crude oil production in India [#]	MMT	30.5	29.7	2.5	2.4	12.5	12.3				
2	Consumption of petroleum products*	MMT	194.3	204.2	15.3	17.8	79.1	90.5				
3	Production of petroleum products	MMT	233.5	254.3	19.6	20.9	100.2	111.0				
4	Gross natural gas production	MMSCM	28,672	34,024	2,926	2,896	13,989	14,332				
5	Natural gas consumption	MMSCM	60,815	63,907	5,773	5,198	27,375	26,321				
6	Imports & exports:											
	Crude oil imports	MMT	196.5	212.0	17.4	17.5	83.8	98.1				
	Crude on imports	\$ Billion	62.2	120.4	9.1	13.1	42.2	76.9				
	Petroleum products (POL)	MMT	43.2	42.1	3.2	3.6	15.6	17.8				
	imports*	\$ Billion	14.8	25.2	1.9	2.2	8.4	12.2				
	Gross petroleum imports	MMT	239.7	254.0	20.6	21.2	99.4	115.9				
	(Crude + POL)	\$ Billion	77.0	145.7	11.0	15.3	50.5	89.1				
	Petroleum products (POL)	MMT	56.8	62.7	4.8	5.2	24.7	26.5				
	export	\$ Billion	21.4	44.4	2.9	4.9	14.7	28.5				
	LNG imports*	MMSCM	33,031	30,776	2,920	2,369	13,745	12,340				
	ENG Imports	\$ Billion	7.9	13.4	1.2	1.0	4.5	5.6				
	Net oil & gas imports	\$ Billion	63.5	114.7	9.2	11.5	40.3	66.2				
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	19.5	23.8	24.4	24.7	23.1	28.0				
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	7.3	10.6	8.7	14.3	8.9	14.7				
9	Import dependency of crude oil (on POL consumption basis)	%	84.4	85.6	84.2	87.1	84.9	86.5				

#Includes condensate; *Private direct imports are prorated for the period April'22 to Aug'22 for POL & Natural Gas. Total may not tally due to rounding off.





& Production

3. Indige	3. Indigenous crude oil production (Million Metric Tonnes)												
Details	2020-21	2021-22		Aug		April-Aug							
		(P)	2021-22 (P)	2022-23 Target*	2022-23 (P)	2021-22 (P)	2022-23 Target*	2022-23 (P)					
ONGC	19.1	18.5	1.6	1.6	1.5	7.7	8.0	7.8					
Oil India Limited (OIL)	2.9	3.0	0.3	0.3	0.3	1.2	1.4	1.3					
Private / Joint Ventures (JVs)	7.1	7.0	0.6	0.8	0.5	3.0	3.4	2.7					
Total Crude Oil	29.1	28.4	2.4	2.8	2.3	11.9	12.8	11.8					
ONGC condensate	1.1	0.9	0.08	0.0	0.1	0.4	0.0	0.4					
PSC condensate	0.3	0.30	0.03	0.0	0.03	0.13	0.0	0.11					
Total condensate	1.4	1.2	0.11	0.0	0.1	0.5	0.0	0.5					
Total (Crude + Condensate) (MMT)	30.5	29.7	2.5	2.8	2.4	12.5	12.8	12.3					
Total (Crude + Condensate) (Million Bbl/Day)	0.61	0.60	0.60	0.65	0.58	0.60	0.61	0.59					

^{*}Provisional targets inclusive of condensate.

4. Domestic oil & gas production vis-à-vis overseas production										
Details 2020-21 2021-22 Aug April-A										
		(P)	2021-22 (P)	2022-23 (P)	2021-22 (P)	2022-23 (P)				
Total domestic production (MMTOE)	59.2	63.7	5.4	5.3	26.5	26.7				
Overseas production (MMTOE)	21.9	21.7	1.9	1.6	9.2	8.1				
Overseas production as percentage of domestic production	37.0%	34.1%	35.3%	30.7%	34.9%	30.4%				

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

	5. High Sulphur (HS) & Low Sulphur (LS) crude oil processing (MMT)											
	Details	2020-21	2021-22	Α	ug	April-Aug						
			(P)	2021-22 (P)	2022-23 (P)	2021-22 (P)	2022-23 (P)					
1	High Sulphur crude	161.4	185.0	13.9	15.0	71.3	83.2					
2	Low Sulphur crude	60.3	56.7	4.5	4.5	23.8	23.5					
Total cr	ude processed (MMT)	221.8	241.7	18.4	19.5	95.1	106.8					
Total cr	ude processed (Million Bbl/Day)	4.45	4.85	4.36	4.62	4.55	5.11					
Percent	age share of HS crude in total crude oil processing	72.8%	76.5%	75.4%	76.7%	75.0%	78.0%					

6. Qua	6. Quantity and value of crude oil imports										
Year	Quantity (MMT)	Rs. Crore									
2020-21	196.5	62,248	4,59,779								
2021-22 (P)	212.0	120,445	8,99,312								
April-Aug 2022(P)	98.1	76,861	6,00,500								

	7. Self-sufficiency in petroleum products (Million Metric Tonnes)											
	Particulars	2020-21	2021-22	Aı	ug	April	-Aug					
	Faiticulais		(P)	2021-22 (P)	2022-23 (P)	2021-22 (P)	2022-23 (P)					
1	Indigenous crude oil processing	28.0	27.1	2.2	2.2	11.0	11.5					
2	Products from indigenous crude (93.3% of crude oil processed)	26.1	25.3	2.1	2.0	10.3	10.7					
3	Products from fractionators (Including LPG and Gas)	4.2	4.1	0.3	0.3	1.7	1.5					
4	Total production from indigenous crude & condensate (2 + 3)	30.3	29.3	2.4	2.3	12.0	12.2					
5	Total domestic consumption	194.3	204.2	15.3	17.8	79.1	90.5					
% Self	-sufficiency (4 / 5)	15.6%	14.4%	15.8%	12.9%	15.1%	13.5%					

	8. Refineries: Installed capacity and crude oil processing (MMTPA / MMT)												
Sl. no.	Refinery	Installed			Cru	ıde oil prod	essing (MN	/IT)					
		capacity	2020-21	2021-22		Aug			April-Aug				
		(01.01.2022)		(P)	2021-22	2022-23	2022-23	2021-22	2022-23	2022-23			
_		MMTPA			(P)	(Target)	(P)	(P)	(Target)	(P)			
1	Barauni (1964)	6.0	5.5	5.6	0.3	0.6	0.6	2.3	2.6	2.8			
2	Koyali (1965)	13.7	11.6	13.5	1.1	1.2	1.3	5.3	5.8	6.6			
3	Haldia (1975)	8.0	6.8	7.3	0.7	0.7	0.7	3.3	3.5	3.5			
4	Mathura (1982)	8.0	8.9	9.1	0.6	0.7	0.6	3.5	3.8	3.9			
5	Panipat (1998)	15.0	13.2	14.8	1.1	1.4	1.2	6.2	6.2	6.0			
6	Guwahati (1962)	1.0	0.8	0.7	0.06	0.1	0.1	0.13	0.4	0.5			
7	Digboi (1901)	0.65	0.6	0.7	0.06	0.05	0.06	0.3	0.3	0.3			
8	Bongaigaon(1979)	2.70	2.5	2.6	0.2	0.2	0.2	1.1	1.0	1.0			
9	Paradip (2016)	15.0	12.5	13.2	0.7	0.7	0.002	5.1	4.6	5.3			
	IOCL-TOTAL	70.1	62.4	67.7	4.9	5.6	4.8	27.3	28.1	29.9			
10	Manali (1969)	10.5	8.2	9.0	0.6	0.9	0.9	3.5	4.3	4.8			
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	8.2	9.0	0.6	0.9	0.9	3.5	4.3	4.8			
12	Mumbai (1955)	12.0	12.9	14.4	1.3	1.1	1.2	6.0	5.5	5.4			
13	Kochi (1966)	15.5	13.3	15.4	1.1	1.4	1.4	5.5	6.9	6.9			
14	Bina (2011)	7.8	6.2	7.4	0.6	0.6	0.4	2.8	3.3	3.0			
	BPCL-TOTAL	35.3	32.4	37.2	3.0	3.1	3.0	14.2	15.6	15.3			
15	Numaligarh (1999)	3.0	2.7	2.6	0.2	0.2	0.3	1.1	1.2	1.3			

Sl. no.	Refinery	Installed		Crude oil processing (MMT)							
		capacity	2020-21	2021-22				April-Aug			
		(1.01.2022)		(P)	2021-22	2022-23	2022-23	2021-22	2022-23	2022-23	
		(MMTPA)			(P)	(Target)	(P)	(P)	(Target)	(P)	
16	Tatipaka (2001)	0.066	0.081	0.075	0.007	0.006	0.004	0.029	0.025	0.028	
17	MRPL-Mangalore (1996)	15.0	11.5	14.9	1.0	1.2	1.2	5.2	6.3	6.9	
	ONGC-TOTAL	15.1	11.6	14.9	1.0	1.2	1.2	5.2	6.3	7.0	
18	Mumbai (1954)	9.5	7.4	5.6	0.3	0.8	0.8	1.1	3.7	4.1	
19	Visakh (1957)	8.3	9.1	8.4	0.5	0.8	0.6	3.0	3.6	3.6	
20	HMEL-Bathinda (2012)	11.3	10.1	13.0	1.1	1.0	1.0	5.4	4.8	5.4	
	HPCL- TOTAL	29.1	26.5	27.0	1.9	2.5	2.3	9.5	12.2	13.1	
21	RIL-Jamnagar (DTA) (1999)	33.0	34.1	34.8	2.9	2.9	3.0	13.9	13.9	15.1	
22	RIL-Jamnagar (SEZ) (2008)	35.2	26.8	28.3	2.2	2.2	2.1	12.0	12.0	11.8	
23	NEL-Vadinar (2006)	20.0	17.1	20.2	1.7	1.7	1.8	8.4	8.4	8.6	
All India (All India (MMT) 251.2		221.8	241.7	18.4	20.5	19.5	95.1	102.0	106.8	
All India (All India (Million Bbl/Day) 5.02			4.85	4.36	4.84	4.62	5.71	6.13	6.41	

Note: Provisional Targets; Some sub-totals/ totals may not add up due to rounding off at individual levels.

	9. Major crude oil and product pipeline network (as on 01.09.2022)												
Det	ails	ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Others*	Total			
Crude Oil	Length (KM)	1,284	1,193	688	1,017	5,301	937			10,420			
	Cap (MMTPA)	60.6	9.0	10.7	11.3	48.6	7.8			147.9			
Products	Length (KM)		654			9,661	2,596	3,775	2,386	19,072			
	Cap (MMTPA)		1.7			48.0	23.0	34.1	9.4	116.2			

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

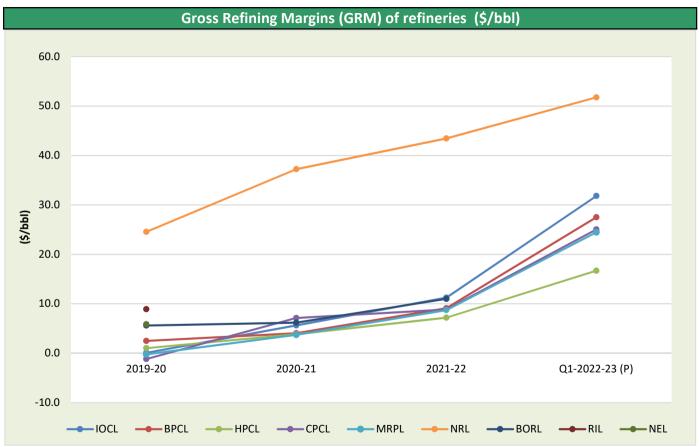
OIL & GAS MAP OF INDIA LEGENDS LEGENDS

	10. Gross Refinin	g Margins (GRM) of I	refineries (\$/bbl)	
Company	2019-20	2020-21	2021-22	Q1-2022-23 (P)
IOCL	0.08	5.64	11.25	31.81
BPCL	2.50	4.06	9.09	27.51
HPCL	1.02	3.86	7.19	16.69
CPCL	-1.18	7.14	8.85	25.04
MRPL	-0.23	3.71	8.72	24.45
NRL	24.55	37.23	43.46	51.76
BORL	5.60	6.20	11.00	#
RIL	8.90	*	*	*
NEL	5.88	*	*	*

GRM of North Eastern refineries are including excise duty benefit

[#] BPCL figures effective 2022-23 (Q1) includes BORL also after its merger with BPCL

^{*}Not available



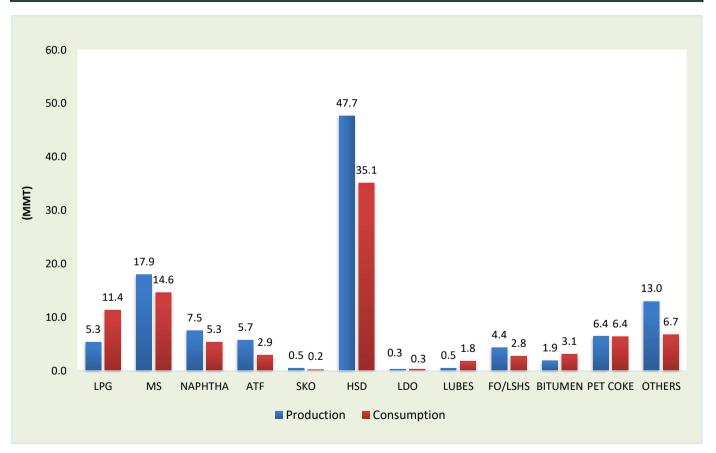


Consumption

	11. Pro	duction	and cor	sumption	on of pe	troleun	n produ	ıcts (Mil	lion Me	tric Ton	nes)	
Decidents	202	0-21	2021-22 (P)		Aug	2021	Aug 2022 (P)		Apr-Aug 2021		Apr-Aug 2022 (P)	
Products	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.1	27.6	12.2	28.3	0.9	2.3	1.0	2.4	4.9	11.2	5.3	11.4
MS	35.8	28.0	40.2	30.8	3.1	2.7	3.3	3.0	15.4	12.1	17.9	14.6
NAPHTHA	19.4	14.1	19.9	14.3	1.6	0.9	1.4	1.2	8.2	5.8	7.5	5.3
ATF	7.1	3.7	10.3	5.0	0.7	0.4	1.2	0.6	3.5	1.6	5.7	2.9
SKO	2.4	1.8	1.9	1.5	0.2	0.1	0.0	0.0	0.8	0.6	0.5	0.2
HSD	100.4	72.7	107.1	76.7	8.3	5.6	8.9	6.3	42.7	30.1	47.7	35.1
LDO	0.7	0.9	0.8	1.0	0.08	0.08	0.04	0.07	0.3	0.4	0.3	0.3
LUBES	1.1	4.1	1.2	4.6	0.1	0.4	0.1	0.3	0.4	1.7	0.5	1.8
FO/LSHS	7.4	5.6	8.9	6.3	0.8	0.5	1.0	0.6	3.4	2.4	4.4	2.8
BITUMEN	4.9	7.5	4.7	7.9	0.2	0.3	0.2	0.5	1.9	2.8	1.9	3.1
PET COKE	12.0	15.6	14.7	15.8	1.2	1.0	1.2	1.2	5.9	5.5	6.4	6.4
OTHERS	30.2	12.8	32.2	12.1	2.4	0.9	2.6	1.6	12.8	4.7	13.0	6.7
ALL INDIA	233.5	194.3	254.3	204.2	19.6	15.3	20.9	17.8	100.2	79.1	111.0	90.5
Growth (%)	-11.0%	-8.9%	8.9%	5.1%	9.1%	6.4%	7.0%	16.3%	12.3%	11.7%	10.7%	14.5%

Note: Prod - Production; Cons - Consumption

Petroleum Products: April-Aug 2022 (P) (MMT)



12. Kerosene allocation vs upliftment (Kilo Litres)											
Product 2019-20 2020-21 2021-22 2022-23 (P)*											
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment			
PDS Kerosene	31,21,328	27,93,217	23,15,008	20,38,790	17,83,344	16,59,906	7,45,224	2,09,596			

* Allocation is for Q1 & Q2, 2022-23 and upliftment is for Apr-Aug 2022

	13. Ethanol blending programme											
	Ethanol Supply Year *											
Particulars	2018-19	2019-20	2020-21	2021	-22 (P)							
		2013-20	2020-21	Aug-22	Dec'21-Aug'22							
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	188.6	173.0	296.1	31.4	330.4							
Ethanol blended under EBP Program (in Cr. Litrs)	191.2	170.5	302.3	36.1	329.1							
Average Percentage of Blending Sales (EBP%)	5.0%	5.0%	8.1%	9.1%	10.0%							

^{*}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 01.04.2019, EBP Programme has been extended to whole of India except UTs of Andaman and Nicobar Islands and Lakshadweep.

14. Indust	ry marketi	ng infrastr	ucture (as	on 01.09 .	.2022) (Pr	ovisional)		
Particulars	IOCL	BPCL	HPCL	RIL/RBML/RSIL	NEL	SHELL	Others	Total
POL Terminal/ Depots (Nos.) ^S	122	82	81	18	3		6	312
Aviation Fuel Stations (Nos.) [@]	128	61	52	30			2	273
Retail Outlets (total) (Nos.),	34,999	20,346	20,361	1,473	6,664	326	36	84,205
out of which Rural ROs	11,234	4,975	5,026	130	2,173	84	10	23,632
SKO/LDO agencies (Nos.)	3,871	927	1,638					6,436
LPG Distributors (total) (Nos.) (PSUs only)	12,836	6,229	6,253					25,318
LPG Bottling plants (Nos.) (PSUs only)#	93	54	53				3	203
LPG Bottling capacity (TMTPA) (PSUs only)&	10,418	4,950	6,170				203	21,741
LPG active domestic consumers (Nos. crore) (PSUs only)	14.5	8.0	8.6					31.2

S(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 in	nfrastructure at Retail outlets (Nos. of ROs as on 01.09.2022) (Provisional)
Alternate fuel	PSU	Private	Total
CNG_LNG	3937	37	3974
EV Charging	3766	23	3789
Auto LPG	570	127	697
Compressed Bio-Gas outlets	61	0	61
Total Retail outlets with at least one Alternate fuel	8334	187	8521



PART-D

LPG

	15. LPG consumption (Thousand Metric Tonne)												
LPG category	2020-21	2021-22		Aug	April-Aug								
			2021-22	2022-23 (P)	Growth (%)	2021-22	2022-23 (P)	Growth (%)					
1. PSU Sales :	. PSU Sales :												
LPG-Packed Domestic	25,128.1	25,501.6	2,076.0	2,136.8	2.9%	10,197.6	10,224.3	0.3%					
LPG-Packed Non-Domestic	1,886.0	2,238.8	198.6	212.4	6.9%	790.9	915.9	15.8%					
LPG-Bulk	361.9	390.9	30.5	29.8	-2.2%	149.7	146.8	-1.9%					
Auto LPG	118.4	122.0	11.6	9.2	-20.7%	45.2	46.4	2.6%					
Sub-Total (PSU Sales)	27,494.3	28,253.3	2,316.7	2,388.1	3.1%	11,183.4	11,333.4	1.3%					
2. Direct Private Imports*	64.2	82.0	6.90	6.4	-7.8%	37.1	31.8	-14.3%					
Total (1+2)	27,558.4	28,335.3	2,323.6	2,394.5	3.1%	11,220.5	11,365.2	1.3%					

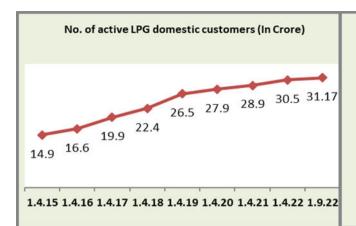
*Apr -Aug 2022 DGCIS data is prorated

				16.	LPG ma	arketin	g at a	glance						
Particulars	Unit	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	1.09.22
(As on 1st of April)														(P)
LPG Active Domestic	(Lakh)					1486	1663	1988	2243	2654	2787	2895	3053	3117
Customers	Growth						11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	5.5%	6.3%
LPG Coverage (Estimated)	(Percent)					56.2	61.9	72.8	80.9	94.3	97.5	99.8	-	-
Li d coverage (Estimated)	Growth						10.1%	17.6%	11.1%	16.5%	3.4%	2.3%	-	-
PMUY Beneficiaries	(Lakh)							200	356	719	802	800.4	899.0	949.7
PIVIOY Beneficiaries	Growth								77.7%	101.9%	11.5%	-0.2%	12.2%	18.5%
LPG Distributors	(No.)	10541	11489	12610	13896	15930	17916	18786	20146	23737	24670	25083	25269	25318
LFG Distributors	Growth	8.8%	9.0%	9.8%	10.2%	14.6%	12.5%	4.9%	7.2%	17.8%	3.9%	1.7%	0.7%	0.7%
Auto LPG Dispensing	(No.)	604	652	667	678	681	676	675	672	661	657	651	601	570
Stations	Growth	12.7%	7.9%	2.3%	1.6%	0.4%	-0.7%	-0.1%	-0.4%	-1.6%	-0.6%	-0.9%	-8.5%	-13.2%
Dattina Dianta	(No.)	183	184	185	187	187	188	189	190	192	196	200	202	203
Bottling Plants	Growth	0.5%	0.5%	0.5%	1.1%	0.0%	0.5%	0.5%	0.5%	1.1%	2.1%	2.0%	1.0%	2.0%

Source: PSU OMCs (IOCL, BPCL and HPCL)

^{1.} Growth rates as on 01.09.2022 are with respect to figs as on 01.09.2021. 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.

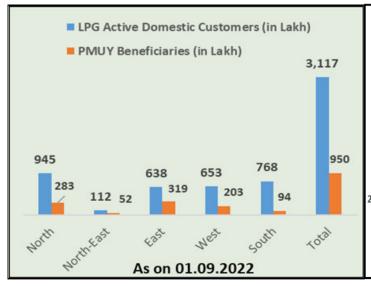


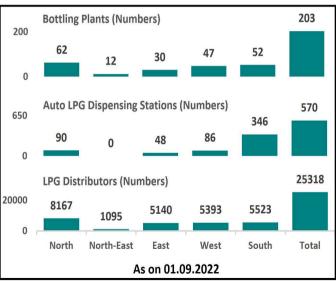




17-Region-wise data on LPG marketing (As on 01.09.2022)												
Particulars	North	North-East	East	West	South	Total						
LPG Active Domestic Customers (in Lakh)	945.3	111.8	638.4	653.2	767.9	3116.6						
PMUY Beneficiaries (in Lakh)	283.3	51.6	318.6	202.6	93.6	949.7						
LPG Distributors (Numbers)	8167	1095	5140	5393	5523	25318						
Auto LPG Dispensing Stations (Numbers)	90	0	48	86	346	570						
Bottling Plants* (Numbers)	62	12	30	47	52	203						

^{*}Includes Numaligarh BP, Duliajan BP and CPCL BP.

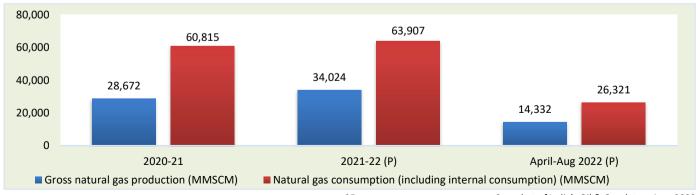






	18. Natural gas at a glance											
								(MMSCM)				
Details	2020-21	2021-22		Aug		April-Aug						
	(P)	(P)	2021-22	2022-23	2022-23	2021-22	2022-23	2022-23 (P)				
			(P)	(Target)	(P)	(P)	(Target)					
(a) Gross production	28,672	34,024	2,926	2,982	2,896	13,989	14,748	14,332				
- ONGC	21,872	20,629	1,744	1,697	1,662	8,526	8,471	8,411				
- Oil India Limited (OIL)	2,480	2,893	257	316	265	1,180	1,557	1,271				
- Private / Joint Ventures (JVs)	4,321	10,502	926	968	969	4,282	4,719	4,650				
(b) Net production (excluding flare gas and loss)	27,784	33,131	2,853		2,829	13,630		13,981				
(c) LNG import [#]	33,031	30,776	2,920		2,369	13,745		12,340				
(d) Total consumption including internal consumption (b+c)	60,815	63,907	5,773		5,198	27,375		26,321				
(e) Total consumption (in BCM)	60.8	63.9	5.8		5.2	27.4		26.3				
(f) Import dependency based on consumption (%), {c/d*100}	54.3	48.2	50.6		45.6	50.2		46.9				

April - Aug 2022 DGCIS data prorated.



19. Coal Bed Metha	ne (CBM) gas development in In	dia (July 2022)	
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	Sq. KM	
Total available coal bearing areas with MoPNG/DGH		17886**	Sq. KM
Area awarded		16598	Sq. KM
Blocks awarded*		32	Nos.
Exploration initiated (Area considered if any borehole	es were drilled in the awarded block)	10669.55**	Sq. KM
Production of CBM gas	April-Aug 2022 (P)	286.52	MMSCM
Production of CBM gas	Aug 2022 (P)	58.50	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 offered 8458 sq.km. area for 15 CBM Blocks under Special CBM Bid Round-2021. The award of the Blocks is under progress.

	20. Common Carrier Natural Gas pipeline network as on 30.06.2022													
Nature of pip	oeline	GAIL	GSPL	PIL	IOCL	AGCL	RGPL	GGL	DFPCL	ONGC	GIGL	GITL	Others*	Total
Operational	Length	9,602	2,695	1,459	143	107	304	73	42	24				14,449
<u> </u>	Capacity	167.2	43.0	85.0	20.0	2.4	3.5	5.1	0.7	6.0				333
Partially	Length	4,519			166						1,131	365		6,180
commissioned#	Capacity				-						-	-		
Total operationa	al length	14,121	2,695	1,459	309	107	304	73	42	24	1,131	365	0	20,629
Under	Length	5,404	100		1,265						1,201	1,666	3,550	13,186
construction	Capacity	-	3.0		-						-	-	149.0	-
Total leng	th	19,524	2,795	1,459	1,574	107	304	73	42	24	2,332	2,031	3,550	33,815

Source: PNGRB; Length in KMs; Authorized Capacity in MMSCMD; *Others-APGDC, HEPL, IGGL, IMC, Consortium of H-Energy

Total authorized Natural Gas pipelines including Tie-in connectivity, dedicated & STPL is 33501 Kms (P)

	21. Existing LNG terminals					
Location	Promoters	Capacity as on 01.09.2022	% Capacity utilisation (April-July 2022)			
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	87.6			
Hazira	Shell Energy India Pvt. Ltd.	5.2 MMTPA	47.0			
Dabhol	Konkan LNG Limited	*5 MMTPA	23.6			
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	16.8			
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	13.0			
Mundra	GSPC LNG Limited	5 MMTPA	18.2			
	Total Capacity 42.7 MMTPA					

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

L CNG Stations ├──	22. Status of PNG connections and CNG stations across India (Nos.), as on 3:	PNG connections		
Andhra Pradesh 140 Andhra Pradesh, Karnataka & Tamil Nadu 24 Assam 1 Bihar 56 Bihar & Jharkhand 0 Chandigarh (UT), Haryana, Punjab & Himachal Pradesh 23 Dadra & Nagar Haveli (UT) 7 Daman & Diu (UT) 4 Daman & Diu (UT) 4 Daman and Diu & Gujarat 10 Goa 10 Gujarat 956 Haryana & Himachal Pradesh 9 Haryana & Himachal Pradesh 9 Haryana & Punjab 16 Himachal Pradesh 7 Jharkhand 52 Kerala & Punjab 16 Himachal Pradesh 7 Jharkhand 52 Kerala & Puducherry 9 Madhya Pradesh and Chhattisgrah 181 Madhya Pradesh and Chhattisgrah 3 Madhya Pradesh and Rajasthan 21 Maharashtra & Gujarat 48 Maharashtra & Gujarat 48 Maharashtra & Gujarat 48 Maharashtra & Gujarat 48	CNG Stations	Domestic Commercial Industrial		
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Assam 1 Bihar 56 Bihar & Jharkhand 0 Chandigarh (UT), Haryana, Punjab & Himachal Pradesh 23 Dadra & Nagar Haveli (UT) 7 Daman & Diu (UT) 4 Daman and Diu & Gujarat 13 Goa 10 Gujarat 956 Haryana & Himachal Pradesh 9 Haryana & Punjab 16 Himachal Pradesh 7 Jharkhand 52 Karnataka 214 Kerala 9 Kerala & Puducherry 9 Madhya Pradesh 181 Madhya Pradesh and Chhattisgrah 3 Madhya Pradesh and Rajasthan 21 Madhya Pradesh and Uttar Pradesh 15 Maharashtra & Gujarat 48 National Capital Territory of Delhi (UT) 458 Odisha 7 Punjab 163 Rajasthan 183 Tamil Nadu 7 Punjab 163 Rajasthan 183 </td <td></td> <td>0</td> <td>28</td>		0	28	
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National Capital Territory of Delhi (UT) 258 268 269 270 290 290 290 290 290 290 29	587 2,426,096	4,638	641	
Odisha 41 Vuducherry & Tamil Nadu 7 Punjab 163 kajasthan 183 Tamil Nadu 136 Felangana 122 Fripura 18 Jttar Pradesh 655 Jttar Pradesh & Rajasthan 36 Jttar Pradesh and Uttrakhand 16 Jttrakhand 29	rat 48 130,502	2	11	
Puducherry & Tamil Nadu 7 Punjab 163 Rajasthan 183 Tamil Nadu 136 Telangana 122 Tripura 18 Uttar Pradesh 655 Jttar Pradesh & Rajasthan 36 Jttar Pradesh and Uttrakhand 16 Uttrakhand 29	itory of Delhi (UT) 458 1,288,880	3,223	1,737	
Punjab 163 Rajasthan 183 Gamil Nadu 136 Felangana 122 Fripura 18 Jttar Pradesh 655 Jttar Pradesh & Rajasthan 36 Jttar Pradesh and Uttrakhand 16 Jttrakhand 29	41 70,975	4	0	
Rajasthan 183 Tamil Nadu 136 Felangana 122 Iripura 18 Jttar Pradesh 655 Jttar Pradesh & Rajasthan 36 Jttar Pradesh and Uttrakhand 16 Jttarkhand 29	Nadu 7 23	0	0	
Famil Nadu 136 elangana 122 Iripura 18 Ittar Pradesh 655 Ittar Pradesh & Rajasthan 36 Jttar Pradesh and Uttrakhand 16 Ittarkhand 29	163 42,496	186	182	
Felangana 122 Tripura 18 Jttar Pradesh 655 Jttar Pradesh & Rajasthan 36 Jttar Pradesh and Uttrakhand 16 Jttrakhand 29	183 163,540	47	180	
Felangana 122 Tripura 18 Jttar Pradesh 655 Jttar Pradesh & Rajasthan 36 Jttar Pradesh and Uttrakhand 16 Jttrakhand 29	136 0	0	5	
Tripura 18 Jttar Pradesh 655 Jttar Pradesh & Rajasthan 36 Jttar Pradesh and Uttrakhand 16 Jttar Aband 29		69	88	
Jttar Pradesh 655 Jttar Pradesh & Rajasthan 36 Jttar Pradesh and Uttrakhand 16 Jttarkhand 29		503	62	
Uttar Pradesh & Rajasthan36Uttar Pradesh and Uttrakhand16Uttrakhand29		1,945	2,310	
Uttar Pradesh and Uttrakhand 16 Uttrakhand 29		34	340	
Jttrakhand 29		0	0	
		44	72	
		0	0	
Total 4,664			13,833	

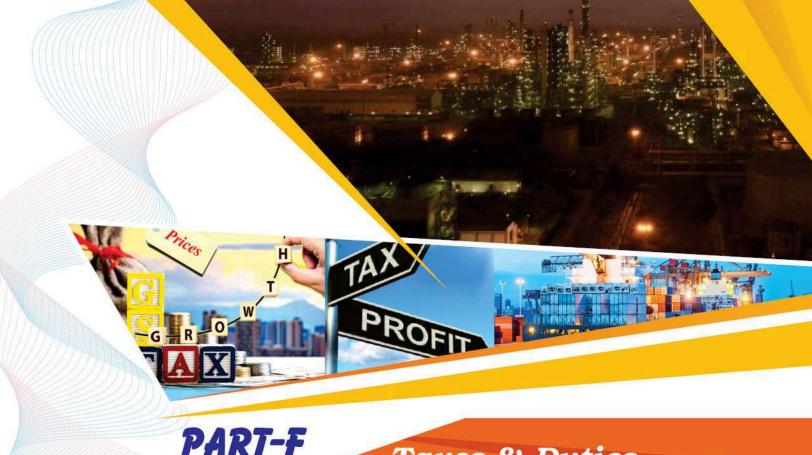
Source: PNGRB

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. Domestic natural gas price and gas price ceiling (GCV basis)					
Period	Domestic Natural Gas price in US\$/MMBTU	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			
April 2019 - September 2019	3.69	9.32			
October 2019 - March 2020	3.23	8.43			
April 2020 - September 2020	2.39	5.61			
October 2020 - March 2021	1.79	4.06			
April 2021 - September 2021	1.79	3.62			
October 2021 - March 2022	2.9	6.13			
April 2022 - September 2022	6.1	9.92			

24. CNG/PNG prices					
City	City CNG (Rs/Kg) PNG (Rs/SCM) Source				
Delhi	75.61	50.59	IGL website (15.09.2022)		
Mumbai	80.00	48.50	MGL website (15.09.2022)		
India	n Natural Gas Spot	Price for Physical D	elivery		
IGX Price Index Month	Avg. Price Volume				
IGA Price ilidex Month	INR/MMBtu	\$/MMBtu	(MMSCM)	Source	
Aug 2022	2375	29.86	65.40	As per IGX website: www.igxindia.com	

^{*}Prices are weighted average prices | \$1=INR79.54 | 1 MMBtu=25.2 SCM



PART-F

Taxes & Duties on Petroleum Products

					_
	25. In	formation o	n Prices, T	axes and Under-recoveries/Subsidi	es
Internationa	I FOB prices/	Exchange rates (\$/bbl)	Price buildup of petroleum products	(Rs
Particulars	2020-21	2021-22	Aug 2022	Particulars	
Crude oil (Indian Basket)	44.82	79.18	97.40	Price charged to dealers (excluding Excise Duty and VAT)	Т
Petrol	47.68	89.66	107.16	Excise Duty	T
Diesel	47.86	88.45	134.48	Dealers' Commission (Average)	Т
Kerosene	43.60	85.31	127.28	VAT (incl VAT on dealers' commission)	Г
LPG (\$/MT)	415.17	692.67	664.00	Retail Selling Price	Т
FO (\$/MT)	259.30	445.25	465.70		_
Naphtha (\$/MT)	378.93	698.25	623.17	Built I	Т
Exchange (Rs./\$)	74.20	74.51	79.56	Particulars	
Custo	ms, excise du	ity & GST rates		Price before taxes and dealers'/distributors' commission	Т
Product	Basic customs	Excise duty	GST rates	Dealers'/distributors' commission	T
	duty #	,		GST (incl GST on dealers'/distributors' commission)	Т
Petrol	2.50%	Rs 19.90/Ltr	**	Retail Selling Price	П
Diesel	2.50%	Rs 15.80/Ltr	**	*Petrol and Diesel at Delhi as per IOCL are	as (
PDS SKO	5.00%		5.00%	PDS SKO at Mumbai as on 1st September 20	
Non-PDS SKO	5.00%		18.00%	LPG at Delhi as on 1st September 2022.	
Domestic LPG	Nil***	Not Applicable	5.00%	LPG at Delili as Oil 1st September 2022.	
Non Domestic LPG	5.00%	Not Applicable	18.00%		
Furnace Oil (Non-Fert)	2.50%		18.00%		
Naphtha (Non-Fert)	1.00%		18.00%		
ATF	5.00%	11% *	**		
		Rs.1/MT+			
	Rs.1/MT+	Cess@20% +			
Crude Oil	Rs.50/-MT as	Rs.50 /-MT NCCD +	**		
	NCCD	Rs. 13300/ MT			
		SAED ^^			

^{*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; # Social welfare surcharge @ 10% is levied on aggregate duties of Customs excluding CVD in lieu of IGST.*** Customs duty is Nil for import of Domestic LPG sold to household consumers (including NDEC) by PSU OMCs. Customs duty rate is 5% for other importers of domestic LPG, ^^ Effective 01.09.2022 SAED on crude oil.

	•							
	Price buildup of petroleum products (Rs./litre/Cylinder) *							
	Particulars	Petrol	Diesel					
	Price charged to dealers (excluding Excise Duty and VAT)	57.35	58.16					
	Excise Duty	19.90	15.80					
	Dealers' Commission (Average)	3.76	2.55					
	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	74.32	938.01
Dealers'/distributors' commission	2.67	64.84
GST (incl GST on dealers'/distributors' commission)	3.85	50.15
Retail Selling Price	80.84	1053.00

*Petrol and Diesel at Delhi as per IOCL are as on 01st September 2022. PDS SKO at Mumbai as on 1st September 2022 and Subsidised Domestic LPG at Delhi as on 1st September 2022.

25. Information on Prices. Taxes and Under-recoveries/Subsidies PDS Kerosene / DBTL Subsidy **PDS Kerosene** 2020-21 **Product** 2018-19 2019-20 Rs./Crore Under recovery 5,950 1,833 0 Subsidy under DBTK # 0 98 42 Total 6,048 1,875 0

#DBTK subsidy excludes cash incentive/ assistance for establishment of institutional mechanisam for direct transfer of subsidy paid to States/UTs. DBTK subsidy for 2019-20 is till Oct 2019.

Domestic LPG under DBTL (Direct benefit transfer for LPG)						
Particulars	2018-19	2019-20	2020-21			
raiticulais	Rs./Crore					
DBTL subsidy	31,447	22,635	3,559			
PME &IEC^	92	91	99			
Total	31,539	22,726	3,658			

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

es, rakes and orider recoveries, substates					
Sales & profit of petroleum sector (Rs. Crores)					
Particulars	2021	2021-22		22-23 (P)	
	Turnover	PAT	Turnover	PAT	
Upstream/midstream	245 625	F4 FF7	05 452	10.677	
Companies (PSU)	215,625	54,557	85,453	19,677	
Downstream Companies (PSU)	15,29,502	39,355	5,09,823	-18,480	
Standalone Refineries (PSU)	169,984	7,859	72,077	6,473	
Private-RIL	466,425	39,084	157,716	15,096	
Borrowings of OMCs (Rs. Crores), As on					
Company		Mar`21	Mar'22	June`22 (P)	
10.01					

Company	Mar`21	Mar'22	June`22 (P)
IOCL	102,327	110,799	108,900
BPCL	26,315	24,123	32,284
HPCL	40,009	43,193	47,283

Petroleum sector contribution to Central/State Govt.					
Particulars	2020-21	2021-22	Q1-2022-23 (P)		
Central Government	4,55,069	492,303	85,157		
% of total revenue receipts	28%	24%			
State Governments	2,17,650	282,122	79,914		
% of total revenue receipts	8%	8%			
Total (Rs. Crores)	6,72,719	7,74,425	165,071		

Total Subsidy as a percentage of GDP (at current prices)					
Particulars	2018-19	2019-20	2020-21		
Petroleum subsidy	0.23	0.13	0.06		

Note: GDP figure for 2018-19, 2019-20 and 2020-21 are Revised Estimates.

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



26. Capital expenditure of PSU oil companies (Rs in crores) Company 2019-20 2020-21 2021-22 (P) 2022-23 (P) **Target** April -Aug 22 (Annual) ONGC Ltd 30,115 26,441 26,621 29,950 9,923 ONGC Videsh Ltd (OVL) 5,351 5,363 4.836 8.180 1.048 Oil India Ltd (OIL) 3.724 12.802 4.239 4.302 1.639 5,560 GAIL (India) Ltd 4,381 6,970 7.500 2,536 Indian Oil Corp. Ltd. (IOCL) 28,316 27,195 29,604 28,549 10,464 Hindustan Petroleum Corp. Ltd (HPCL) 13,773 14,036 16,205 14,500 3,831 Bharat Petroleum Corp. Ltd (BPCL) 10,255 10,697 11,449 10,000 5,685 Mangalore Refinery & Petrochem Ltd (MRPL) 1.318 604 815 2,218 155 Chennai Petroleum Corp. Ltd (CPCL) 969 592 575 584 157 Numaligarh Refinery Ltd (NRL) 536 981 3.403 6.774 1.794 Balmer Lawrie Co. Ltd (BL) 40 42 23 40 8 Engineers India Ltd (EIL) 164.43 67 730 160 17 Total 98,955 106,642 104,596 111,354 37,257

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)	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		

Na		
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		
1	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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