

Cover Page - 2nd generation (2G) Ethanol Plant of Indian Oil Corporation Ltd at Panipat, Haryana dedicated to the nation by Hon'ble Prime Minister of India on 10th August, 2022.

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

# Abridged Ready Reckoner July, 2022

## **Petroleum Planning & Analysis Cell**

(Ministry of Petroleum & Natural Gas)



As on 17.08.2022

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-July 2022 with a volume of 72.7 MMT reported a growth of 14.0% compared to the volume of 63.8 MMT during the same period of the previous year. This growth was led by 23.1% growth in MS, 17.4% in HSD & about 85.6% in ATF consumption during the quarter. The consumption of petroleum products during July 2022 recorded a growth of 6.1% with a volume of 17.6 MMT compared to the same period of the previous year.
- Indigenous crude oil and condensate production during July 2022 was down by 3.8 % than that of July 2021 as compared to a de-growth of 1.7 % during June 2022. OIL registered a growth of 4.1 % and ONGC registered a de-growth of 1.7 % during July 2022 as compared to July 2021. PSC registered de-growth of 12.3 % during July 2022 as compared to July 2021. Degrowth of 0.5 % was registered in the total crude oil and condensate production during April July 2022 over the corresponding period of the previous year.
- Total Natural Gas Consumption (including internal consumption) for the month of July 2022 was 5382 MMSCM which was 1.5% lower than the corresponding month of the previous year. The cumulative consumption of 21123 MMSCM for the current year till July 2022 was lower by 2.2% compared with the corresponding period of the previous year.
- Crude oil processed during July 2022 was 21.4 MMT, which was 10.5 % higher than July 2021. Growth of 13.8 % was registered in the total crude oil processing during April- July 2022 over the corresponding period of the previous year.
- Production of petroleum products saw a growth of 6.2 % during July 2022 over July 2021. Growth of 11.7 % was registered in the total POL production during April- July 2022 over the corresponding period of the previous year.
- Ethanol blending with Petrol was 10.33% during June 2022 and cumulative ethanol blending during December 2021- July 2022 was 10.16%.

- Gross production of natural gas for the month of July 2022 was 2883 MMSCM which was lower by 0.4% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 11436 MMSCM for the current financial year till July 2022 was higher by 3.4% compared with the corresponding period of the previous year.
- LNG import for the month of June2022 (P) was 2571 MMSCM which was 2.7 % lower than the corresponding month of the previous year. The cumulative import of 9971 MMSCM for the current year till July 2022 was lower by 7.9% compared with the corresponding period of the previous year.
- Crude oil imports increased by 35.4% and 21.3% during July 2022 and April-July 2022 respectively as compared to the corresponding period of the previous year. The net import bill for oil & gas was \$14.9 billion in July 2022 compared to \$8.0 billion in July 2021. In this the crude oil imports constitutes \$16.1 billion, LNG imports \$1.2 billion and the exports were \$4.9 billion during July 2022.
- POL products imports increased by 5.3% and 15.0% during July 2022 and April-July 2022 respectively as compared to the
  corresponding period of the previous year. Increase in POL products imports during April-July 2022 were due to increase in
  imports of all products except naphtha, fuel oil and bitumen etc.
- Exports of POL products decreased by 0.3% and increased by 6.8% during July 2022 and April-July 2022 respectively as compared to the corresponding period of the previous year. Increase in POL products exports during April-July 2022 (P) 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 \$112.70/bbl during July 2022 as against \$123.70/bbl during June 2022 and \$75.03/bbl during July 2021. The Indian basket crude price averaged \$105.49/bbl during July 2022 as against \$116.01/bbl during June 2022 and \$73.54 /bbl during July 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	7.2				
	at constant (2011-12 Prices)		3rd RE	2nd RE	1st RE	1st RE	PE (2021-22)	E (RBI)				
		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				

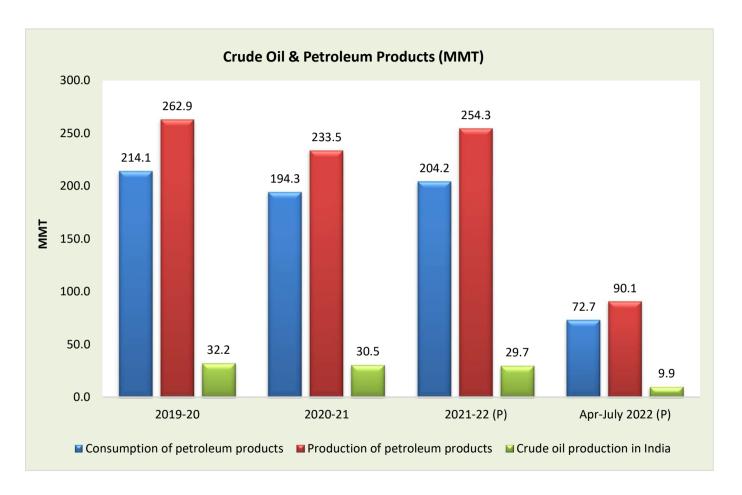
	Economic indicators	Unit/ Base	2020-21	2021-22	July		April-July	
				(P)	2021-22	2022-23 (P)	2021-22	2022-23 (P)
5	Index of Industrial Production (Base: 2011-12)	Growth %	-8.4	11.4	13.8*	12.3* QE	44.4#	12.7#
6	Imports^	\$ Billion	394.4	611.9	46.2	66.3	173.1	256.4
7	Exports^	\$ Billion	291.8	419.7	35.5	36.3	131.1	157.4
8	Trade Balance	\$ Billion	-102.6	-192.2	-10.6	-30.0	-42.1	-99.0
9	Foreign Exchange Reserves <sup>@</sup>	\$ Billion	579.3	617.6	620.6	573.9	-	-

IIP is for the month of \*June and #April-June; <sup>@</sup>2020-21-as on March 26, 2021, 2021-22 - as on March 26, 2022, July 2021 as on July 30, 2021 and July 2022-as on July 29, 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	Ju	ıly	April	-July				
				(P)	2021-22 (P)	2022-23 (P)	2021-22 (P)	2022-23 (P)				
1	Crude oil production in India <sup>#</sup>	MMT	30.5	29.7	2.5	2.5	10.0	9.9				
2	Consumption of petroleum products*	MMT	194.3	204.2	16.6	17.6	63.8	72.7				
3	Production of petroleum products	MMT	233.5	254.3	20.7	22.0	80.7	90.1				
4	Gross natural gas production	MMSCM	28,672	34,024	2,894	2,883	11,062	11,436				
5	Natural gas consumption	MMSCM	60,815	63,907	5,463	5,382	21,602	21,123				
6	Imports & exports:											
	Crude oil imports	MMT	196.5	212.0	15.0	20.3	66.4	80.6				
	Crude on imports	\$ Billion	62.2	120.4	8.0	16.1	33.1	63.9				
	Petroleum products (POL)	MMT	43.2	42.1	3.5	3.7	12.4	14.2				
	imports*	\$ Billion	14.8	25.2	1.9	2.5	6.4	10.1				
	Gross petroleum imports	MMT	239.7	254.0	18.6	24.1	78.8	94.8				
	(Crude + POL)	\$ Billion	77.0	145.7	9.9	18.6	39.5	74.0				
	Petroleum products (POL)	MMT	56.8	62.7	4.7	4.7	19.9	21.2				
	export	\$ Billion	21.4	44.4	2.9	4.9	11.8	23.6				
	LNG imports*	MMSCM	33,031	30,776	2,644	2,571	10,825	9,971				
	LING IIIIports	\$ Billion	7.9	13.4	1.0	1.2	3.3	4.5				
	Net oil & gas imports	\$ Billion	63.5	114.7	8.0	14.9	31.0	54.9				
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	19.5	23.8	21.5	28.0	22.8	28.9				
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	7.3	10.6	8.2	13.4	9.0	15.0				
9	Import dependency of crude oil (on POL consumption basis)	%	84.4	85.6	84.7	86.2	85.0	86.4				

#Includes condensate; \*Private direct imports are prorated for the period April'22 to July'22 for POL & Natural Gas. RIL Data prorated for month of July 2022; Total may not tally due to rounding off.





Crude Oil, Refining & Production

3. Indigenous crude oil production (Million Metric Tonnes)												
Details	2020-21	2021-22		July			April-July					
		(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	1.6	6.2	6.4	6.3				
Oil India Limited (OIL)	2.9	3.0	0.3	0.3	0.3	1.0	1.1	1.0				
Private / Joint Ventures (JVs)	7.1	7.0	0.6	0.8	0.5	2.4	2.6	2.2				
Total Crude Oil	29.1	28.4	2.4	2.7	2.3	9.5	10.1	9.5				
ONGC condensate	1.1	0.9	0.08	0.0	0.1	0.3	0.0	0.3				
PSC condensate	0.3	0.30	0.03	0.0	0.03	0.10	0.0	0.09				
Total condensate	1.4	1.2	0.11	0.0	0.1	0.4	0.0	0.4				
Total (Crude + Condensate) (MMT)	30.5	29.7	2.5	2.7	2.5	10.0	10.1	9.9				
Total (Crude + Condensate) (Million Bbl/Day)	0.61	0.60	0.60	0.65	0.58	0.60	0.61	0.60				

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

4. Domestic oil & gas production vis-à-vis overseas production										
Details 2020-21 2021-22 July April-Ju										
		(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	21.0	21.3				
Overseas production (MMTOE)	21.9	21.7	1.9	1.6	7.3	6.5				
Overseas production as percentage of domestic production	37.0%	34.1%	34.4%	30.1%	34.8%	30.3%				

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

	5. High Sulphur (HS) & Low Sulphur (LS) crude oil processing (MMT)											
	Details	2020-21	2021-22	Ju	ily	Apri	l-July					
			(P)	2021-22 (P)	2022-23 (P)	2021-22 (P)	2022-23 (P)					
1	High Sulphur crude	161.4	185.0	14.7	17.1	57.4	68.2					
2	Low Sulphur crude	60.3	56.7	4.7	4.3	19.2	19.0					
Total cr	ude processed (MMT)	221.8	241.7	19.4	21.4	76.6	87.2					
Total cr	ude processed (Million Bbl/Day)	4.45	4.85	4.58	5.07	4.60	5.24					
Percent	age share of HS crude in total crude oil processing	72.8%	76.5%	75.6%	79.8%	74.9%	78.2%					

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-July 2022(P)	80.6	63,925	4,96,100								

	7. Self-sufficiency in petroleum products (Million Metric Tonnes)											
	Particulars	2020-21	2021-22	Ju	ıly	Apri	l-July					
	Faiticulais		(P)	2021-22 (P)	2022-23 (P)	2021-22 (P)	2022-23 (P)					
1	1 Indigenous crude oil processing		27.1	2.3	2.2	8.8	9.3					
2	Products from indigenous crude (93.3% of crude oil processed)		25.3	2.2	2.1	8.2	8.7					
3	Products from fractionators (Including LPG and Gas)	4.2	4.1	0.4	0.3	1.4	1.2					
4	Total production from indigenous crude & condensate (2 + 3)	30.3	29.3	2.5	2.4	9.5	9.9					
5	Total domestic consumption	194.3	204.2	16.6	17.6	63.8	72.7					
% Self	-sufficiency (4 / 5)	15.6%	14.4%	15.3%	13.8%	15.0%	13.6%					

	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		July				April-July			
		(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	0.6	0.6	0.6	2.0	2.0	2.3			
2	Koyali (1965)	13.7	11.6	13.5	1.1	1.2	1.3	4.2	4.5	5.3			
3	Haldia (1975)	8.0	6.8	7.3	0.6	0.7	0.7	2.6	2.8	2.8			
4	Mathura (1982)	8.0	8.9	9.1	0.7	0.7	0.7	2.9	3.1	3.2			
5	Panipat (1998)	15.0	13.2	14.8	1.3	0.9	1.2	5.0	4.8	4.8			
6	Guwahati (1962)	1.0	0.8	0.7	0.00	0.1	0.1	0.06	0.3	0.4			
7	Digboi (1901)	0.65	0.6	0.7	0.06	0.06	0.06	0.2	0.2	0.2			
8	Bongaigaon(1979)	2.70	2.5	2.6	0.2	0.2	0.2	0.9	0.8	0.8			
9	Paradip (2016)	15.0	12.5	13.2	1.1	0.0	1.3	4.5	3.9	5.3			
	IOCL-TOTAL	70.1	62.4	67.7	5.7	4.4	6.2	22.4	22.5	25.1			
10	Manali (1969)	10.5	8.2	9.0	0.8	0.9	1.0	2.9	3.4	3.9			
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	0.8	0.9	1.0	2.9	3.4	3.9			
12	Mumbai (1955)	12.0	12.9	14.4	1.3	1.1	0.7	4.7	4.3	4.1			
13	Kochi (1966)	15.5	13.3	15.4	1.1	1.4	1.4	4.4	5.5	5.5			
14	Bina (2011)	7.8	6.2	7.4	0.6	0.6	0.6	2.2	2.7	2.6			
	BPCL-TOTAL	35.3	32.4	37.2	3.0	3.1	2.7	11.3	12.5	12.3			
15	Numaligarh (1999)	3.0	2.7	2.6	0.2	0.2	0.3	0.9	1.0	1.0			

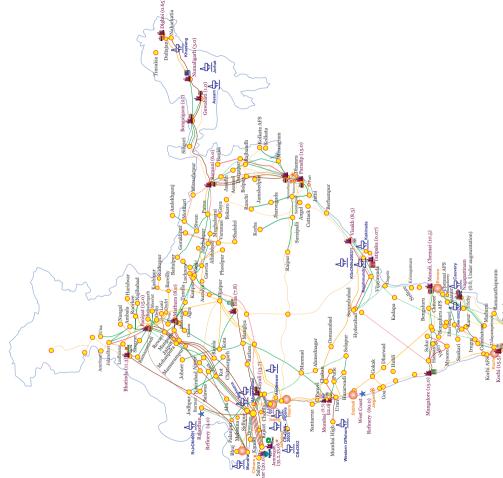
Sl. no.	Refinery	Installed			Cruc	le oil proce	essing (MM	IT)			
		capacity	2020-21 2021-22 July					April-July			
		(1.01.2022) (MMTPA)		(P)	2021-22 (P)	2022-23 (Target)	2022-23 (P)	2021-22 (P)	2022-23 (Target)	2022-23 (P)	
16	Tatipaka (2001)	0.066	0.081	0.075	0.003	0.006	0.005	0.023	0.019	0.025	
17	MRPL-Mangalore (1996)	15.0	11.5	14.9	1.1	1.3	1.4	4.2	5.1	5.8	
	ONGC-TOTAL	15.1	11.6	14.9	1.1	1.3	1.4	4.2	5.1	5.8	
18	Mumbai (1954)	9.5	7.4	5.6	0.3	0.8	0.9	0.8	3.0	3.3	
19	Visakh (1957)	8.3	9.1	8.4	0.5	0.8	0.7	2.5	2.8	3.1	
20	HMEL-Bathinda (2012)	11.3	10.1	13.0	1.1	1.0	1.1	4.3	3.8	4.3	
	HPCL- TOTAL	29.1	26.5	27.0	1.9	2.5	2.7	7.6	9.6	10.7	
21	RIL-Jamnagar (DTA) (1999)	33.0	34.1	34.8	2.7	2.7	2.9	11.0	11.0	12.0	
22	RIL-Jamnagar (SEZ) (2008)	35.2	26.8	28.3	2.3	2.3	2.5	9.7	9.7	9.6	
23	NEL-Vadinar (2006)	20.0	17.1	20.2	1.7	1.7	1.7	6.7	6.7	6.8	
All India (	MMT)	251.2	221.8	241.7	19.4	19.2	21.4	76.6	81.5	87.2	
All India (Million Bbl/Day) 5.02			4.45	4.85	4.58	4.54	5.07	4.60	4.90	5.24	

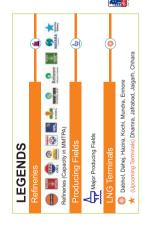
Note: Provisional Targets; Some sub-totals/ totals may not add up due to rounding off at individual levels.

	9. Major crude oil and product pipeline network (as on 01.08.2022)												
Det	Details ONGC OIL Cairn HMEL IOCL BPCL HPCL									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			9,406	2,596	3,775	2,386	18,817			
	Cap (MMTPA)		1.7			48.0	23.0	34.1	9.4	116.2			

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

# OIL & GAS MAP OF INDIA



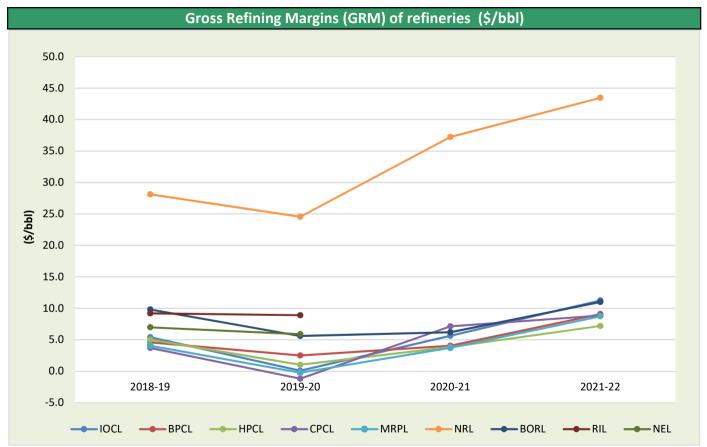




	10. Gross Refinin	g Margins (GRM) of r	efineries (\$/bbl)	
Company	2018-19	2019-20	2020-21	2021-22
IOCL <sup>#</sup>	5.41	0.08	5.64	11.25
BPCL	4.58	2.50	4.06	9.09
HPCL	5.01	1.02	3.86	7.19
CPCL	3.70	-1.18	7.14	8.85
MRPL	4.06	-0.23	3.71	8.72
NRL <sup>#</sup>	28.11	24.55	37.23	43.46
BORL	9.80	5.60	6.20	11.00
RIL	9.20	8.90	*	*
NEL	6.97	5.88	*	*

<sup>#</sup> GRM of North Eastern refineries are including excise duty benefit

<sup>\*</sup>Not available



# GRM of North Eastern refineries are including excise duty benefit

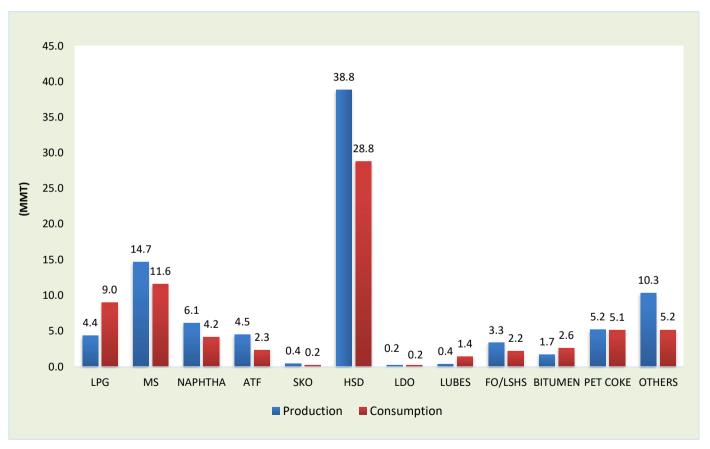


Consumption

	11. Pro	duction	and cor	sumption	on of pe	troleun	n produ	cts (Mil	lion Me	tric Ton	nes)	
Decidents	202	0-21	2021-	·22 (P)	July 2	2021	July 2022 (P)		Apr-July 2021		Apr-July 2022 (P)	
Products	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.1	27.6	12.2	28.3	1.0	2.4	1.1	2.4	4.0	8.9	4.4	9.0
MS	35.8	28.0	40.2	30.8	3.2	2.6	3.6	2.8	12.3	9.4	14.7	11.6
NAPHTHA	19.4	14.1	19.9	14.3	1.7	1.2	1.4	1.1	6.6	4.9	6.1	4.2
ATF	7.1	3.7	10.3	5.0	0.6	0.3	1.2	0.6	2.8	1.3	4.5	2.3
SKO	2.4	1.8	1.9	1.5	0.2	0.1	0.1	0.0	0.6	0.5	0.4	0.2
HSD	100.4	72.7	107.1	76.7	8.9	6.1	9.3	6.6	34.3	24.5	38.8	28.8
LDO	0.7	0.9	0.8	1.0	0.05	0.08	0.08	0.06	0.3	0.3	0.2	0.2
LUBES	1.1	4.1	1.2	4.6	0.1	0.3	0.1	0.3	0.3	1.3	0.4	1.4
FO/LSHS	7.4	5.6	8.9	6.3	0.7	0.5	0.9	0.6	2.7	1.9	3.3	2.2
BITUMEN	4.9	7.5	4.7	7.9	0.3	0.4	0.2	0.4	1.7	2.5	1.7	2.6
PET COKE	12.0	15.6	14.7	15.8	1.3	1.3	1.3	1.3	4.7	4.4	5.2	5.1
OTHERS	30.2	12.8	32.2	12.1	2.7	1.2	2.6	1.3	10.4	3.8	10.3	5.2
ALL INDIA	233.5	194.3	254.3	204.2	20.7	16.6	22.0	17.6	80.7	63.8	90.1	72.7
Growth (%)	-11.0%	-8.9%	8.9%	5.1%	6.7%	6.5%	6.2%	6.1%	13.1%	13.1%	11.7%	14.0%

Note: Prod - Production; Cons - Consumption

## Petroleum Products: April-July 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	1,87,457			

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

13. Ethanol blending programme											
	Ethanol Supply Year *										
Particulars	2018-19	2019-20	2020-21	2021	-22 (P)						
		2019-20	2020-21	July-22	Dec'21-July'22						
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	188.6	173.0	296.1	36.4	299.1						
Ethanol blended under EBP Program (in Cr. Litrs)	191.2	170.5	302.3	38.4	293.0						
Average Percentage of Blending Sales (EBP%)	5.0%	5.0%	8.1%	10.3%	10.2%						

<sup>\*</sup>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 01.08.	.2022) (Pr	ovisional)		
Particulars	IOCL	BPCL	HPCL	RIL/RBML/RSIL	NEL	SHELL	Others	Total
POL Terminal/ Depots (Nos.) <sup>\$</sup>	122	82	81	18	3		6	312
Aviation Fuel Stations (Nos.)@	128	61	52	30			2	273
Retail Outlets (total) (Nos.),	34,904	20,259	20,252	1,470	6,640	327	36	83,888
out of which Rural ROs	11,188	4,945	4,991	130	2,167	85	10	23,516
SKO/LDO agencies (Nos.)	3,871	927	1,638					6,436
LPG Distributors (total) (Nos.) (PSUs only)	12,831	6,227	6,250					25,308
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	P				31.1

S(Others=4 MRPL & 2 NRL); (Others=ShellMRPL); (Others=36 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 01.08.2022	) (Provisional)
Alternate fuel	PSU	Private	Total
CNG_LNG	3886	38	3924
EV Charging	3632	17	3649
Auto LPG	571	123	694
Compressed Bio-Gas (standalone CBG outlets CBG )	48	0	48
Total	8089	178	8267



PART-D

**LPG** 

		15. LPG cons	sumption (The	ousand Metr	ic Tonne)				
LPG category	2020-21	2021-22		July		April-July			
			2022-23 (P)	Growth (%)	2021-22	2022-23 (P)	Growth (%)		
I. PSU Sales :									
LPG-Packed Domestic	25,128.1	25,501.6	2,115.9	2,157.1	1.9%	8,121.6	8,087.5	-0.4%	
LPG-Packed Non-Domestic	1,886.0	2,238.8	195.7	202.0	3.2%	592.3	703.6	18.8%	
LPG-Bulk	361.9	390.9	33.6	35.3	4.8%	119.2	117.0	-1.8%	
Auto LPG	118.4	122.0	11.6	9.2	-20.3%	33.6	37.2	10.7%	
Sub-Total (PSU Sales)	27,494.3	28,253.3	2,356.8	2,403.6	2.0%	8,866.7	8,945.3	0.9%	
2. Direct Private Imports*	64.2	82.0	12.83	6.4	-50.4%	30.2	25.4	-15.9%	
Total (1+2)	27,558.4	28,335.3	2,369.6	2,410.0	1.7%	8,896.9	8,970.7	0.8%	

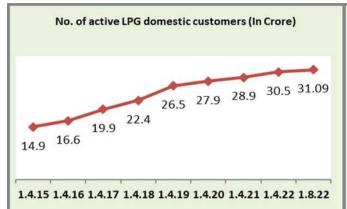
\*Apr -June 2022 DGCIS data is prorated

				16. I	LPG ma	arketin	g at a	glance						
Particulars	Unit	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	1.08.22
(As on 1st of April)														(P)
LPG Active Domestic	(Lakh)					1486	1663	1988	2243	2654	2787	2895	3053	3109
Customers	Growth						11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	5.5%	6.7%
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	944.2
PIVIOT Belleficiaries	Growth								77.7%	101.9%	11.5%	-0.2%	12.2%	17.8%
LPG Distributors	(No.)	10541	11489	12610	13896	15930	17916	18786	20146	23737	24670	25083	25269	25308
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	571
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%	-13.1%
Dattling Dlants	(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)

<sup>1.</sup> Growth rates as on 01.08.2022 are with respect to figs as on 01.08.2021. Growth rates as on 1 April of any year are with respect to figs as on 1 April of previous year.

<sup>2.</sup> The LPG coverage is calculated by PSU OMCs based upon the active LPG domestic connections and the estimated number of households. The number of households has been projected by PSU OMCs based on 2011 census data. Factors like increasing nuclearization of families, migration of individuals/ families due to urbanization and reduction in average size of households etc. impact the growth of number of households. Due to these factors, the estimated no. of households through projection of 2011 census data may slightly differ from the actual no. of households in a State/UT. Further, this methodology does not include PNG (domestic) connections.

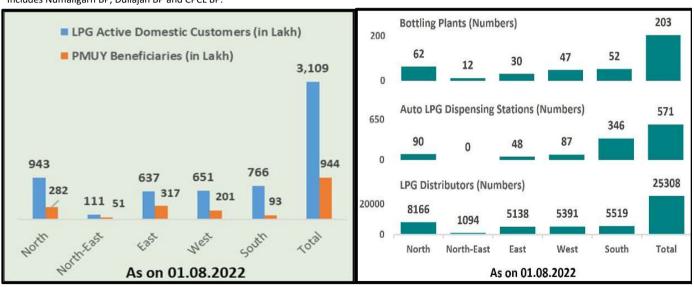






17-Region-wise data on LPG marketing (As on 01.08.2022)												
Particulars	North	North-East	East	West	South	Total						
LPG Active Domestic Customers (in Lakh)	943.5	111.1	636.6	651.5	766.1	3108.8						
PMUY Beneficiaries (in Lakh)	282.0	51.0	317.2	201.4	92.6	944.2						
LPG Distributors (Numbers)	8166	1094	5138	5391	5519	25308						
Auto LPG Dispensing Stations (Numbers)	90	0	48	87	346	571						
Bottling Plants* (Numbers)	62	12	30	47	52	203						

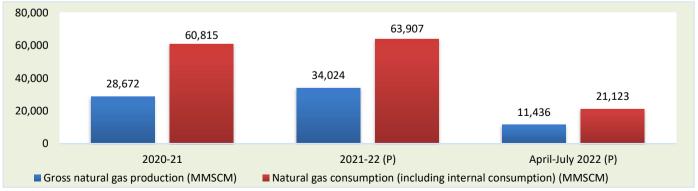
<sup>\*</sup>Includes Numaligarh BP, Duliajan BP and CPCL BP.





	18. Natural gas at a glance												
								(MMSCM)					
Details	2020-21	2021-22		July									
	(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	2,894	2,982	2,883	11,062	11,766	11,436					
- ONGC	21,872	20,629	1,731	1,697	1,663	6,783	6,774	6,749					
- Oil India Limited (OIL)	2,480	2,893	248	316	263	924	1,241	1,005					
- Private / Joint Ventures (JVs)	4,321	10,502	915	968	957	3,356	3,751	3,681					
(b) Net production (excluding flare gas and loss)	27,784	33,131	2,819		2,811	10,776		11,152					
(c) LNG import <sup>#</sup>	33,031	30,776	2,644		2,571	10,825		9,971					
(d) Total consumption including internal consumption (b+c)	60,815	63,907	5,463		5,382	21,602		21,123					
(e) Total consumption (in BCM)	60.8	63.9	5.5		5.4	21.6		21.1					
(f) Import dependency based on consumption (%), {c/d*100}	54.3	48.2	48.4		47.8	50.1		47.2					

# Jul-2020 - June 2022 DGCIS data prorated. RIL 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-July 2022 (P)	227.98	MMSCM
Production of CBM gas	July 2022 (P)	58.78	MMSCM

<sup>\*</sup>ST CBM Block awarded & relinquished twice- in CBM Round II and Round IV -Area considered if any boreholes were drilled in the awarded block.

<sup>\*\*</sup> 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	peline	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				-							-		-
<b>Total operationa</b>	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 34135 Kms

	21. Existing LNG terminals					
Location	Promoters	% Capacity utilisation (April-Jun 2022)				
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	86.7			
Hazira Shell Energy India Pvt. Ltd.		5.2 MMTPA	43.1			
Dabhol	Konkan LNG Limited	*5 MMTPA	29.9			
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	17.8			
Ennore Indian Oil LNG Pvt Ltd		5 MMTPA	13.0			
Mundra	GSPC LNG Limited	5 MMTPA	18.1			
	Total Capacity 42.7 MMTPA					

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

State/UT		, as on 30.06.2022(P) PNG connections		
(State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	Domestic	Commercial	Industrial
Andhra Pradesh	137	236,063	378	28
Andhra Pradesh. Karnataka & Tamil Nadu	23	339	0	2
Assam	1	44.156	1.289	430
Bihar	56	78.916	40	1
Bihar & Jharkhand	0	5.339	0	0
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	23	22.966	95	18
Dadra & Nagar Haveli (UT)	7	9.314	52	53
Daman & Diu (UT)	4	5.081	40	37
Daman and Diu & Guiarat	13	549	1	0
Goa	10	10.080	13	22
Gujarat	952	2,738,906	21,434	5,710
larvana	271	262,400	706	1.226
Harvana & Himachal Pradesh	9	0	0	0
daryana & Puniab	16	0	0	0
limachal Pradesh	7	2.710	0	0
harkhand	50	87,382	2	0
Karnataka	208	347.120	435	247
Kerala	86	19.987	16	12
Cerala & Puducherry	9	0	0	0
Madhya Pradesh	184	163,070	258	368
Madhya Pradesh and Chhattisgrah	3	Ö	0	0
Madhya Pradesh and Rajasthan	21	19	0	0
Madhya Pradesh and Uttar Pradesh	15	0	0	0
Maharashtra	579	2,404,696	4,740	517
Лаharashtra & Gujarat	48	127,164	2	10
National Capital Territory of Delhi (UT)	458	1,283,407	3,213	1,723
Odisha	46	69,679	3	0
uducherry & Tamil Nadu	7	14	0	0
lunjab	163	40,713	163	158
Rajasthan	182	160,051	29	176
amil Nadu	132	0	0	4
elangana	122	167,880	62	87
ripura	18	55,557	501	62
Ittar Pradesh	650	1,202,641	1,907	2,268
Jttar Pradesh & Rajasthan	36	18,958	34	340
Ittar Pradesh and Uttrakhand	16	6,263	0	0
lttrakhand	27	63,184	43	70
Vest Bengal	40	0	0	0
otal	4.629	9,634,604	35,456	13,569

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	CNG (Rs/Kg)	PNG (Rs/SCM)	Sou	urce	
Delhi	75.61 50.59 IGL website (18.08.2022)		(18.08.2022)		
Mumbai	80.00	48.50	MGL website (18.08.2022)		
India	n Natural Gas Spot	<b>Price for Physical D</b>	Pelivery		
IGX Price Index Month	Avg. Price		Volume	Source	
IGA Price ilidex Month	INR/MMBtu	\$/MMBtu	(MMSCM)	Source	
July 2022	1690	21.23	41.29	As per IGX website:	
July 2022	1050	21.23	71.23	www.igxindia.com	

<sup>\*</sup>Prices are weighted average prices | \$1=INR79.60 | 1 MMBtu=25.2 SCM



PART-F

Taxes & Duties on Petroleum Products

	25. ln	formation or	n Prices, T	axes and Under-recoveries/Subsidi	es
Internationa	I FOB prices/	Exchange rates (	\$/bbl)	Price buildup of petroleum products	(R
Particulars	2020-21	2021-22	July 2022	Particulars	Γ
Crude oil (Indian Basket)	44.82	79.18	105.49	Price charged to dealers (excluding Excise Duty and VAT)	Г
Petrol	47.68	89.66	116.53	Excise Duty	Г
Diesel	47.86	88.45	139.93	Dealers' Commission (Average)	Г
Kerosene	43.60	85.31	129.80	VAT (incl VAT on dealers' commission)	T
LPG (\$/MT)	415.17	692.67	725.00	Retail Selling Price	Т
FO (\$/MT)	259.30	445.25	478.45		_
Naphtha (\$/MT)	378.93	698.25	710.05	Built I	Т
Exchange (Rs./\$)	74.20	74.51	79.60	Particulars	
Custo	oms, excise du	ity & GST rates		Price before taxes and dealers'/distributors' commission	Г
Product	Basic customs	Excise duty	GST rates	Dealers'/distributors' commission	Г
	duty#	•		GST (incl GST on dealers'/distributors' commission)	⇈
Petrol	2.50%	Rs 19.90/Ltr	**	Retail Selling Price	Г
Diesel	2.50%	Rs 15.80/Ltr	**	*Petrol and Diesel at Delhi as per IOCL are	as
PDS SKO	5.00%		5.00%	SKO at Mumbai as on 1st August 2022 and	
Non-PDS SKO	5.00%		18.00%	I ~	50
Domestic LPG	Nil***	Not Applicable	5.00%	Delhi as on 1st August 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. 13000/ MT			
		SAED ^^			

<sup>\*2%</sup> 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 19.08.2022 SAED on crude oil.

	•							
I	Price buildup of petroleum products (Rs./litre/Cylinder) *							
l	Particulars	Petrol	Diesel					
l	Price charged to dealers (excluding Excise Duty and VAT)	57.35	58.16					
l	Excise Duty	19.90	15.80					
	Dealers' Commission (Average)	3.76	2.55					
l	VAT (incl VAT on dealers' commission)	15.71	13.11					
l	Retail Selling Price	96.72	89.62					

Particulars	PDS SKO	Subsidised Domestic LPG
Price before taxes and dealers'/distributors' commission	77.99	938.02
Dealers'/distributors' commission	2.67	64.84
GST (incl GST on dealers'/distributors' commission)	4.03	50.14
Retail Selling Price	84.69	1053.00

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

## 25. Information on Prices. Taxes and Under-recoveries/Subsidies PDS Kerosene / DBTL Subsidy **PDS Kerosene Product** 2018-19 2019-20 2020-21 Rs./Crore Under recovery 5,950 1,833 0 Subsidy under DBTK # 98 42 0 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		
rai ticulai s	Rs./Crore	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 Education and Communication)

es, raxes and officer-recoveries/ substitues						
Sales & profit of petroleum sector (Rs. Crores)						
Particulars	2020	2020-21		21-22		
	Turnover	PAT	Turnover	PAT		
Upstream/midstream	122 020	17,878	215 625	F4 FF7		
Companies (PSU)	132,830	17,878	215,625	54,557		
Downstream Companies (PSU)	1,080,618	51,542	15,29,502	39,355		
Standalone Refineries (PSU)	111,330	3,033	169,984	7,859		
Private-RIL	278,940	31,944	466,425	39,084		
Borrov	Borrowings of OMCs (Rs. Crores), As on					
Company Mar'20 Mar'21 Mar'22						
IOCL		116,545	102,327	110,799		
BPCL		41,875	26,315	24,123		

Petroleum sector contribution to Central/State Govt.							
Particulars	2019-20	2020-21	2021-22				
Central Government	3,34,315	455,069	492,303				
% of total revenue receipts	20%	29%					
State Governments	2,21,056	217,650	282,122				
% of total revenue receipts	8%	7%					
Total (Rs. Crores)	5,55,370	6,72,719	774,425				

43.021

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 are Revised Estimates and 2020-21 are **Provisional Estimates** 

HPCL

40.009

43.193

<sup>\*\*</sup>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 -July 22** (Annual) ONGC Ltd 30,115 26,441 26,621 29,950 7,949 ONGC Videsh Ltd (OVL) 5,351 5,363 4.836 8.180 923 Oil India Ltd (OIL) 3.724 12.802 4.239 4.302 1.403 5,560 GAIL (India) Ltd 4,381 6,970 7.500 2,154 Indian Oil Corp. Ltd. (IOCL) 28,316 27,195 29,604 28,549 8,420 Hindustan Petroleum Corp. Ltd (HPCL) 13,773 14,036 16,205 14,500 3,154 Bharat Petroleum Corp. Ltd (BPCL) 10,255 10,697 11,449 10,000 5,027 Mangalore Refinery & Petrochem Ltd (MRPL) 1.318 604 815 2,218 141 Chennai Petroleum Corp. Ltd (CPCL) 969 592 575 584 128 Numaligarh Refinery Ltd (NRL) 536 981 3.403 6.774 1,363 Balmer Lawrie Co. Ltd (BL) 40 42 23 40 5 Engineers India Ltd (EIL) 164.43 67 730 160 10

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional

Total

Totals may not tally due to roundoff.

106,642

104,596

98,955

30,676

111,354

27. Conversion fact						
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 (kca	1)	4.187 kJ	
	1 Kilocalorie (kca	1)	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

as conversions			
1 MMBTU	25.2 SCM @10000 kcal/SCM		
GCV (Gross Calorific Value)	10,000 kcal/SCM		
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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