

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

## Abridged Ready Reckoner

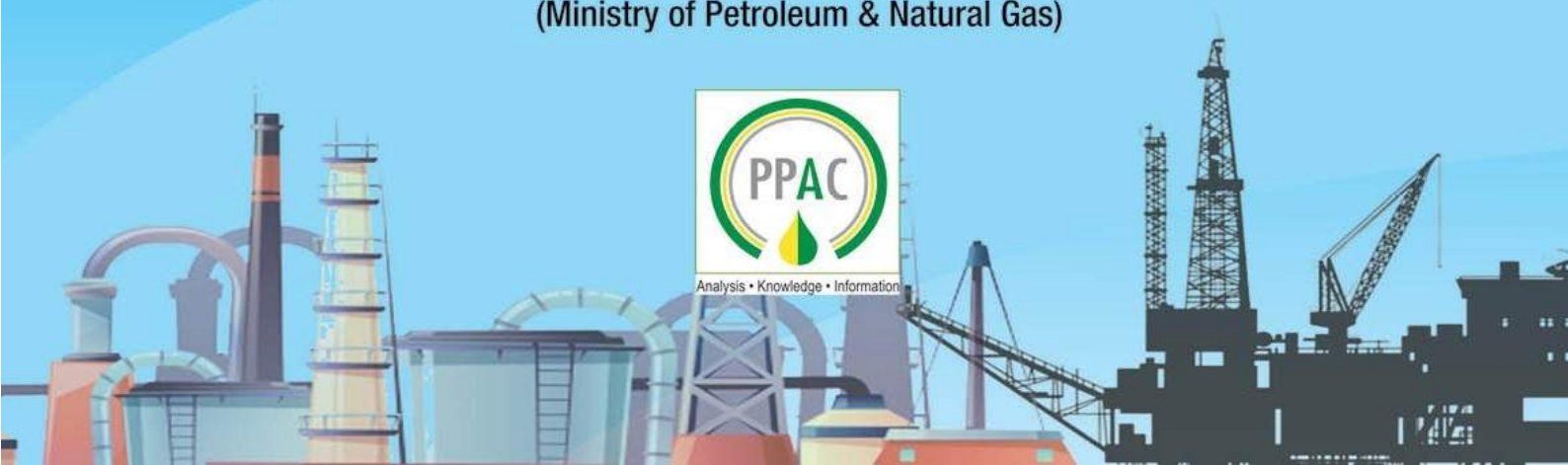
### August 2021

#### Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)



Analysis • Knowledge • Information



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As on 19.09.2021

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](http://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-August 2021 with a volume of 81.3 MMT reported a growth of 14.8% compared to the volume of 70.8 MMT during the same period of the previous year. Except SKO all other petroleum products reported a growth in consumption during April-August 2021 compared to the same period of the previous year. The consumption of petroleum products during August 2021 recorded a growth of 10.9% compared to the same period of the previous year.
- Indigenous crude oil and condensate production during August 2021 was lower by 2.3 % than that of August 2020 as compared to a de-growth of 3.2% during July 2021. OIL registered a growth of 4.3 % and ONGC registered a de-growth of 3.8 % during August 2021 as compared to August 2020. PSC registered de-growth of 0.6 % during August 2021 as compared to August 2020. De-growth of 3.2 % was registered in the total crude oil and condensate production during April- August 2021 over the corresponding period of the previous year.
- Total natural gas Consumption (including internal consumption) for the month of August 2021 was 5723 MMSCM which was 7.2% higher than the corresponding month of the previous year. The cumulative consumption of 26660 MMSCM for the current year till August 2021 was higher by 10.1% compared with the corresponding period of the previous year.
- Crude oil processed during August 2021 was 18.4 MMT, which was 14.2 % higher than August 2020 as compared to a growth of 9.6 % during July 2021. Growth of 15.3 % was registered in the total crude oil processing during April- August 2021 over the corresponding period of the previous year.
- Production of petroleum products saw a growth of 9.1 % during August 2021 over August 2020 as compared to a growth of 6.7 % during July 2021. Growth of 12.3 % was registered in the total POL production during April- August 2021 over the corresponding period of the previous year.
- Ethanol blending with Petrol was 8.1% during August 2021 and cumulative during December 2020 - August 2021 was 8.0%.

•	Gross production of natural gas for the month of August 2021 was 2924 MMSCM which was higher by 20.2% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 13986 MMSCM for April-August 2021 was higher by 19.9% compared with the corresponding period of the previous year.
•	Crude oil imports increased by 3.1% and 13.2% during August 2021 and April-August 2021 respectively as compared to the corresponding period of the previous year.
•	POL products imports increased by 16.7% and decreased by 0.7% during August 2021 and April-August 2021 respectively as compared to the corresponding period of the previous year. Decrease in POL products imports during April-August 2021 was due to decrease in imports of petcoke, high speed diesel (HSD), motor sprit (MS) And aviation turbine fuel (ATF).
•	LNG import for the month of August, 2021(P) was 2871 MMSCM which was 3.4% lower than the corresponding month of the previous year. The cumulative import of 13033 MMSCM for the current year till August, 2021 was higher by 0.7% compared with the corresponding period of the previous year.
•	Exports of POL products increased by 4.6% and decreased by 0.2% during August 2021 and April-August 2021 respectively as compared to the corresponding period of the previous year. Decrease in POL products exports during April-August 2021 (P) was due to decrease in exports of petcoke/CBFS, high speed diesel (HSD) and LOBS/Lube oil.
•	The price of Brent Crude averaged \$70.81/bbl during August, 2021 as against \$75.03/bbl during July 2021 and \$44.82/bbl during August 2020. The Indian basket crude price averaged \$69.80/bbl during August 2021 as against \$73.54/bbl during July 2021 and \$44.19 /bbl during August 2020.



# **PART-A**

## *Economic Indicators*

## 1. Selected indicators of the Indian economy

Economic indicators		Unit/ Base	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
1	Population (Census 2011)	Billion	1.2	-	-	-	-	-
2	GDP at constant (2011-12 Prices)	Growth %	8.3	6.8 3rd RE	6.5 2nd RE	4.0 1st RE	-7.3 PE	20.1 E (Q1, 2021-22)
3	Agricultural Production (Food grains)	MMT	275.1	285.0	285.2	297.5	308.7 4th AE	-
		Growth %	9.4	3.6	0.1	4.3	3.7	-
4	Gross Fiscal Deficit (as percent of GDP)	%	3.5	3.5	3.4	4.6	9.5 RE	6.8 BE

Economic indicators		Unit/ Base	2019-20	2020-21 (P)	August		April-August	
					2020-21 (P)	2021-22 (P)	2020-21 (P)	2021-22 (P)
5	Index of Industrial Production (Base: 2011-12)	Growth %	-0.8	-8.4	-10.5*	11.5* QE	-29.3#	34.1#
6	Imports	\$ Billion	474.7	393.6	31.0	47.1	121.4	219.6
7	Exports	\$ Billion	313.4	291.2	22.8	33.3	98.1	164.1
8	Trade Balance	\$ Billion	-161.3	-102.4	-8.2	-13.8	-23.4	-55.5
9	Foreign Exchange Reserves <sup>@</sup>	\$ Billion	475.6	579.3	541.4	633.6	-	-

IIP is for the month of \*July and #Apr-July; <sup>@</sup>2019-20-as on March 27, 2019, 2020-21-as on March 26, 2021, August 2020- as on August 28, 2020 and August 2021-as on August 27, 2021; E: Estimates; PE: Provisional Estimates; AE-Advanced Estimates; RE-Revised Estimates; QE-

**Source:** Ministry of Commerce & Industry, Ministry of Statistics and Programme Implementation, Ministry of Agriculture & Farmer's Welfare, Ministry of Finance, Reserve Bank of India

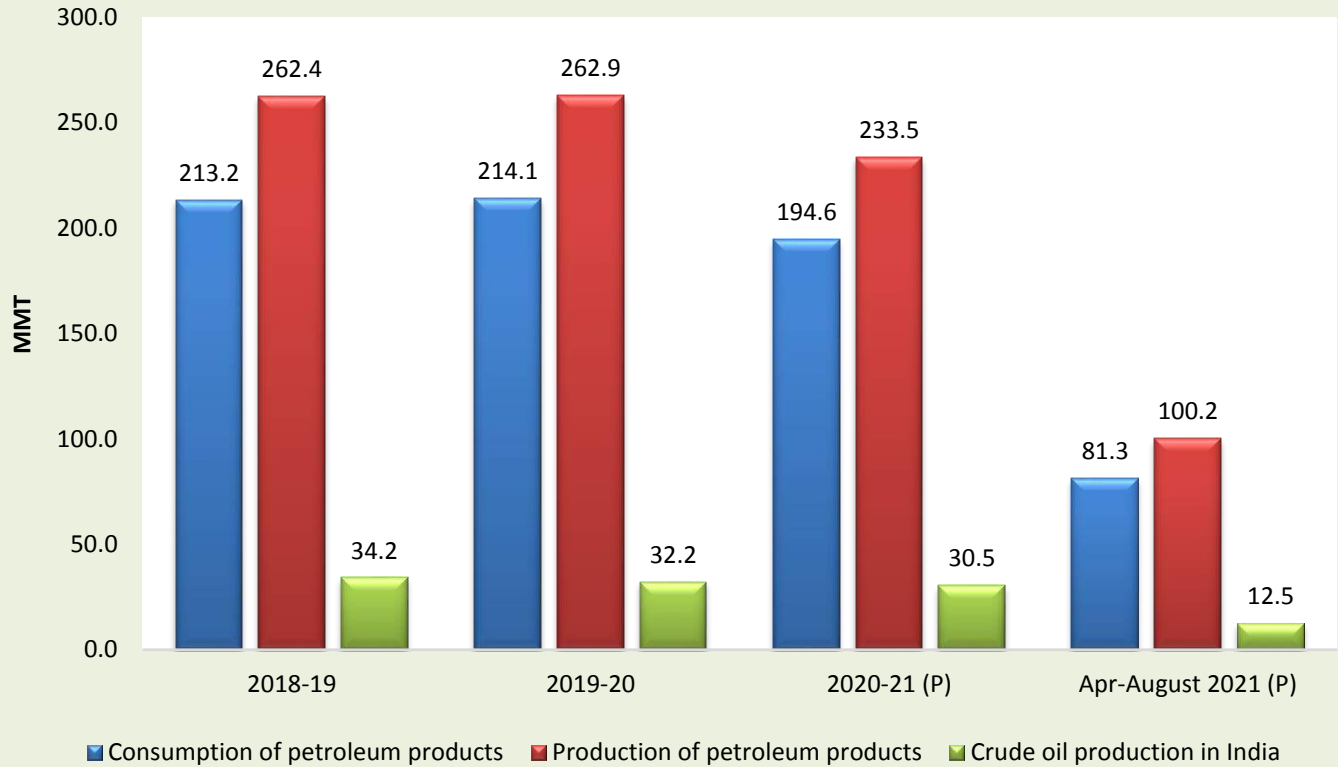


## 2. Crude oil, LNG and petroleum products at a glance

Details		Unit/ Base	2019-20	2020-21 (P)	August		April-August	
					2020-21 (P)	2021-22 (P)	2020-21 (P)	2021-22 (P)
1	Crude oil production in India <sup>#</sup>	MMT	32.2	30.5	2.6	2.5	12.9	12.5
2	Consumption of petroleum products*	MMT	214.1	194.6	14.4	16.0	70.8	81.3
3	Production of petroleum products	MMT	262.9	233.5	17.9	19.6	89.3	100.2
4	Gross natural gas production	MMSCM	31,184	28,672	2,432	2,924	11,660	13,986
5	Natural gas consumption	MMSCM	64,144	60,645	5,337	5,723	24,207	26,660
6	Imports & exports <sup>^</sup> :							
	Crude oil imports	MMT	227.0	198.1	16.9	17.4	74.0	83.8
		\$ Billion	101.4	62.7	5.5	9.1	17.8	42.2
	Petroleum products (POL) imports*	MMT	43.8	43.5	3.3	3.8	17.8	17.7
		\$ Billion	17.7	14.2	1.0	1.8	4.7	7.3
	Gross petroleum imports (Crude + POL)	MMT	270.7	241.6	20.2	21.2	91.9	101.5
		\$ Billion	119.1	76.9	6.4	10.9	22.5	49.4
	Petroleum products (POL) export	MMT	65.7	56.8	4.6	4.8	24.7	24.7
		\$ Billion	35.8	21.4	1.8	2.9	7.2	14.7
	LNG imports*	MMSCM	33,887	32,861	2,974	2,871	12,943	13,033
		\$ Billion	9.5	7.4	0.6	1.1	2.5	4.2
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	25.1	19.5	20.7	23.2	18.5	22.5
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	11.4	7.3	7.9	8.7	7.3	9.0
9	Import dependency of crude (on consumption basis)	%	85.0	84.4	82.2	84.9	82.2	85.3

<sup>#</sup>Includes condensate; \*Jul 2020- Aug 2021 DGCIS data prorated;

### Crude Oil & Petroleum Products (MMT)





## ***PART-B***

# ***Crude Oil, Refining & Production***

### 3. Indigenous crude oil production (Million Metric Tonnes)

Details	2019-20	2020-21 (P)	August			April-August		
			2020-21 (P)	2021-22 Target*	2021-22 (P)	2020-21 (P)	2021-22 Target*	2021-22 (P)
ONGC	19.2	19.1	1.6	1.8	1.6	8.0	8.4	7.7
Oil India Limited (OIL)	3.1	2.9	0.2	0.3	0.3	1.2	1.3	1.2
Private / Joint Ventures (JVs)	8.2	7.1	0.6	0.7	0.6	3.0	3.2	3.0
<b>Total Crude Oil</b>	<b>30.5</b>	<b>29.1</b>	<b>2.5</b>	<b>2.7</b>	<b>2.4</b>	<b>12.3</b>	<b>12.9</b>	<b>11.9</b>
ONGC condensate	1.4	1.1	0.1		0.1	0.5		0.4
PSC condensate	0.3	0.3	0.02		0.03	0.10		0.13
<b>Total condensate</b>	<b>1.6</b>	<b>1.4</b>	<b>0.1</b>		<b>0.1</b>	<b>0.6</b>		<b>0.5</b>
<b>Total (Crude + Condensate) (MMT)</b>	<b>32.2</b>	<b>30.5</b>	<b>2.6</b>	<b>2.7</b>	<b>2.5</b>	<b>12.9</b>	<b>12.9</b>	<b>12.5</b>
Total (Crude + Condensate) (Million Bbl/Day)	0.64	0.61	0.61		0.60	0.62		0.60

\*Provisional targets inclusive of condensate.

### 4. Domestic oil & gas production vis-à-vis overseas production

Details	2019-20	2020-21 (P)	August		April-August	
			2020-21 (P)	2021-22 (P)	2020-21 (P)	2021-22 (P)
Total domestic production (MMTOE)	63.4	59.2	5.0	5.4	24.5	26.5
Overseas production (MMTOE)	24.5	21.9	1.8	1.9	9.3	9.2
<b>Overseas production as percentage of domestic production</b>	<b>38.7%</b>	<b>37.0%</b>	<b>36.2%</b>	<b>35.2%</b>	<b>37.7%</b>	<b>34.9%</b>

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

### 5. High Sulphur (HS) & Low Sulphur (LS) crude oil processing (MMT)

Details		2019-20	2020-21 (P)	August		April-August	
				2020-21 (P)	2021-22 (P)	2020-21 (P)	2021-22 (P)
1	High Sulphur crude	192.4	161.4	11.7	13.9	59.9	71.3
2	Low Sulphur crude	62.0	60.3	4.4	4.5	22.5	23.8
<b>Total crude processed (MMT)</b>		<b>254.4</b>	<b>221.8</b>	<b>16.1</b>	<b>18.4</b>	<b>82.5</b>	<b>95.1</b>
Total crude processed (Million Bbl/Day)		5.09	4.45	3.82	4.36	3.95	4.55
<b>Percentage share of HS crude in total crude oil processing</b>		<b>75.6%</b>	<b>72.8%</b>	<b>72.5%</b>	<b>75.4%</b>	<b>72.7%</b>	<b>75.0%</b>

### 6. Quantity and value of crude oil imports

Year	Quantity (MMT)	\$ Million	Rs. Crore
2019-20	227.0	1,01,376	7,17,001
2020-21 (P)	198.1	62,711	4,62,996

### 7. Self-sufficiency in petroleum products (Million Metric Tonnes)

Particulars		2019-20	2020-21 (P)	August		April-August	
				2020-21 (P)	2021-22 (P)	2020-21 (P)	2021-22 (P)
1	Indigenous crude oil processing	29.3	28.0	2.3	2.2	11.7	11.0
2	Products from indigenous crude (93.3% of crude oil processed)	27.3	26.1	2.2	2.1	10.9	10.3
3	Products from fractionators (Including LPG and Gas)	4.8	4.2	0.4	0.3	1.8	1.7
4	Total production from indigenous crude & condensate <b>(2 + 3)</b>	32.1	30.3	2.6	2.4	12.6	12.0
5	Total domestic consumption	214.1	194.6	14.4	16.0	70.8	81.3
<b>% Self-sufficiency (4 / 5)</b>		<b>15.0%</b>	<b>15.6%</b>	<b>17.8%</b>	<b>15.1%</b>	<b>17.8%</b>	<b>14.7%</b>

## 8. Refineries: Installed capacity and crude oil processing (MMTPA / MMT)

Company	Refinery	Installed capacity (1.9.2021) MMTPA	Crude oil processing (MMT)							
			2019-20	2020-21 (P)	August			April-August		
					2020-21 (P)	2021-22 (Target)	2021-22 (P)	2020-21 (P)	2021-22 (Target)	2021-22 (P)
IOCL	Barauni (1964)	6.0	6.5	5.5	0.3	0.6	0.3	1.9	2.3	2.3
	Koyali (1965)	13.7	13.1	11.6	0.8	1.2	1.1	4.3	6.1	5.3
	Haldia (1975)	8.0	6.5	6.8	0.6	0.7	0.7	2.3	3.5	3.3
	Mathura (1982)	8.0	8.9	8.9	0.6	0.8	0.6	3.4	3.8	3.5
	Panipat (1998)	15.0	15.0	13.2	1.0	1.3	1.1	4.6	6.6	6.2
	Guwahati (1962)	1.0	0.9	0.8	0.09	0.1	0.1	0.26	0.2	0.1
	Digboi (1901)	0.65	0.7	0.6	0.06	0.04	0.06	0.3	0.2	0.3
	Bongaigaon(1979)	2.35	2.0	2.5	0.2	0.2	0.2	1.0	1.1	1.1
	Paradip (2016)	15.0	15.8	12.5	0.3	0.0	0.7	4.2	5.3	5.1
	<b>IOCL-TOTAL</b>	<b>69.7</b>	<b>69.4</b>	<b>62.4</b>	<b>3.9</b>	<b>5.0</b>	<b>4.9</b>	<b>22.2</b>	<b>29.1</b>	<b>27.3</b>
CPCL	Manali (1969)	10.5	10.2	8.2	0.6	0.8	0.6	2.6	3.6	3.5
	CBR (1993)	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	<b>CPCL-TOTAL</b>	<b>11.5</b>	<b>10.2</b>	<b>8.2</b>	<b>0.6</b>	<b>0.8</b>	<b>0.6</b>	<b>2.6</b>	<b>3.6</b>	<b>3.5</b>
BPCL	Mumbai (1955)	12.0	15.0	12.9	0.8	1.3	1.3	4.6	6.3	6.0
	Kochi (1966)	15.5	16.5	13.3	0.9	1.3	1.1	4.2	6.9	5.5
BORL	Bina (2011)	7.8	7.9	6.2	0.5	0.6	0.6	2.0	2.9	2.8
	<b>BPCL-TOTAL</b>	<b>35.3</b>	<b>39.4</b>	<b>32.4</b>	<b>2.2</b>	<b>3.2</b>	<b>3.0</b>	<b>10.8</b>	<b>16.1</b>	<b>14.2</b>
NRL	Numaligarh (1999)	3.0	2.4	2.7	0.2	0.2	0.2	1.1	1.1	1.1

Company	Refinery	Installed capacity (1.9.2021) (MMTPA)	Crude oil processing (MMT)							
			2019-20	2020-21 (P)	August			Apr-August		
					2020-21 (P)	2021-22 (Target)	2021-22 (P)	2020-21 (P)	2021-22 (Target)	2021-22 (P)
ONGC	Tatipaka (2001)	0.066	0.087	0.081	0.007	0.006	0.007	0.030	0.025	0.029
MRPL	Mangalore (1996)	15.0	14.0	11.5	0.9	1.0	1.0	3.5	5.6	5.2
	<b>ONGC-TOTAL</b>	<b>15.1</b>	<b>14.0</b>	<b>11.6</b>	<b>0.9</b>	<b>1.0</b>	<b>1.0</b>	<b>3.6</b>	<b>5.6</b>	<b>5.2</b>
HPCL	Mumbai (1954)	7.5	8.1	7.4	0.7	0.7	0.3	3.0	2.1	1.1
	Visakh (1957)	8.3	9.1	9.1	0.7	0.7	0.5	3.6	3.9	3.0
HMEL	Bathinda (2012)	11.3	12.2	10.1	1.0	0.9	1.1	4.1	4.6	5.4
	<b>HPCL- TOTAL</b>	<b>27.1</b>	<b>29.4</b>	<b>26.5</b>	<b>2.4</b>	<b>2.4</b>	<b>1.9</b>	<b>10.7</b>	<b>10.7</b>	<b>9.5</b>
RIL	Jamnagar (DTA) (1999)	33.0	33.0	34.1	3.0	3.0	2.9	14.0	14.0	13.9
	Jamnagar (SEZ) (2008)	35.2	35.9	26.8	1.4	1.4	2.2	10.0	10.0	12.0
NEL	Vadinar (2006)	20.0	20.6	17.1	1.5	1.5	1.7	7.5	7.5	8.4
<b>All India (MMT)</b>		<b>249.9</b>	<b>254.4</b>	<b>221.8</b>	<b>16.1</b>	<b>18.5</b>	<b>18.4</b>	<b>82.5</b>	<b>97.6</b>	<b>95.1</b>
<b>All India (Million Bbl/Day)</b>		<b>5.02</b>	<b>5.09</b>	<b>4.45</b>	<b>3.82</b>		<b>4.36</b>	<b>3.95</b>		<b>4.55</b>

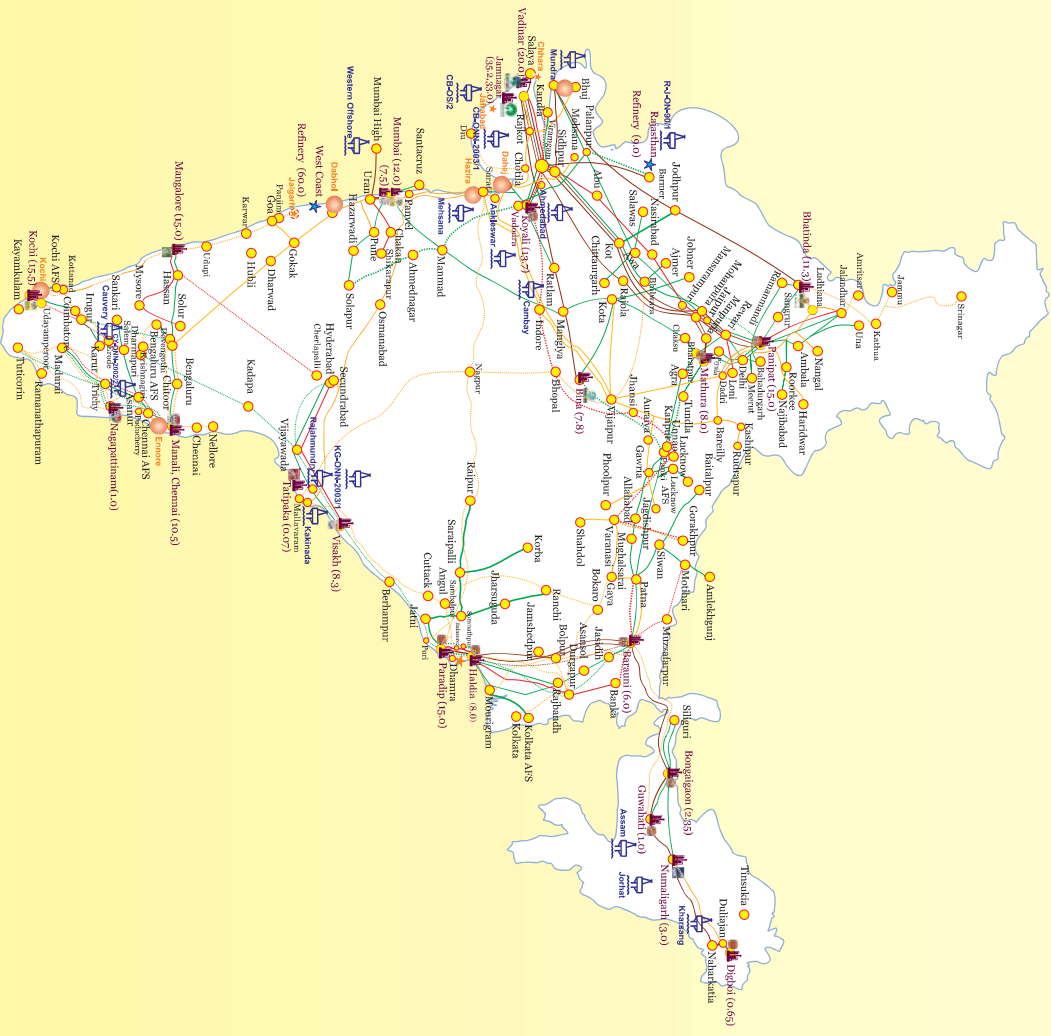
Note: Provisional Targets; Some sub-totals/ totals may not add up due to rounding off at individual levels.

### 9. Major crude oil and product pipeline network (as on 01.09.2021)

Details		ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Others*	Total
Crude Oil	Length (KM)	1,283	1,193	688	1,017	5,301	937			<b>10,419</b>
	Cap (MMTPA)	60.6	9.0	10.7	11.3	48.6	7.8			<b>147.9</b>
Products	Length (KM)		654			9,400	2,241	3,775	2,395	<b>18,465</b>
	Cap (MMTPA)		1.7			47.5	19.5	34.1	9.4	<b>112.2</b>

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

# OIL & GAS MAP OF INDIA



## LEGENDS

### Refineries



Refineries (Capacity in MMTPA)

### Producing Fields



Major Producing Fields

### LNG Terminals



- Dahej, Dana, Hazira, Kochi, Mundra, Ennore
- (Upcoming Terminals) Diamira, Jafraabad, Jagren, Chhara

## LEGENDS

### Pipelines Network

- Crude Oil Pipeline
- Ongoing Crude Oil Pipeline
- Product Pipeline
- Ongoing Product Pipeline
- LPG Pipeline
- Ongoing LPG Pipeline
- Gas Pipeline
- Ongoing Gas Pipeline



PIPELINE PROVIDERS

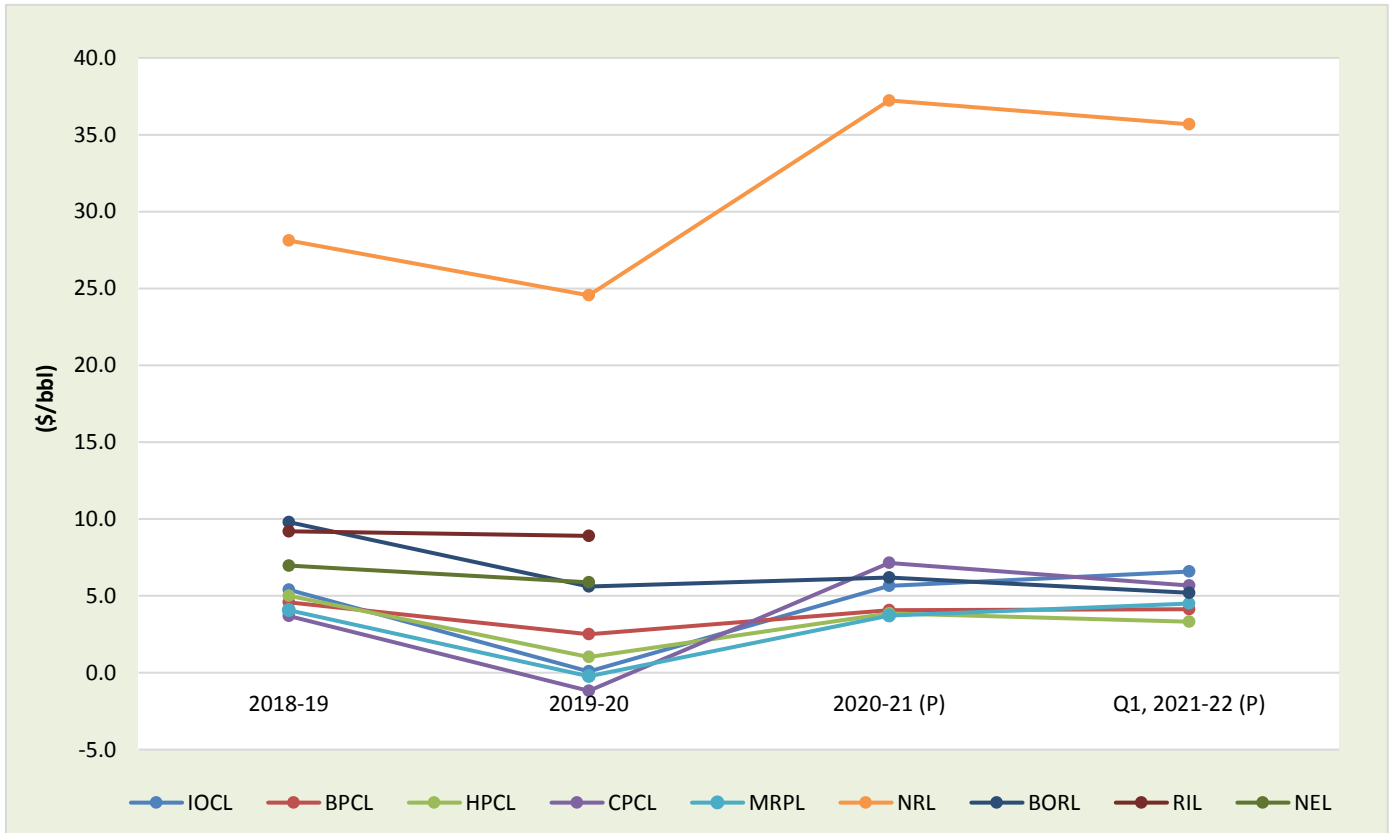


### 10. Gross Refining Margins (GRM) of refineries (\$/bbl)

Company	2018-19	2019-20	2020-21 (P)	Q1, 2021-22 (P)
IOCL	5.41	0.08	5.64	6.58
BPCL	4.58	2.50	4.06	4.12
HPCL	5.01	1.02	3.86	3.31
CPCL	3.70	-1.18	7.14	5.68
MRPL	4.06	-0.23	3.71	4.50
NRL	28.11	24.55	37.23	35.68
BORL	9.80	5.60	6.20	5.20
RIL	9.20	8.90	*	*
NEL <sup>@</sup>	6.97	5.88	*	*

\*Not available; <sup>@</sup>Nayara Energy Limited (formerly Essar Oil Limited)

## Gross Refining Margins (GRM) of refineries (\$/bbl)





***PART-C***

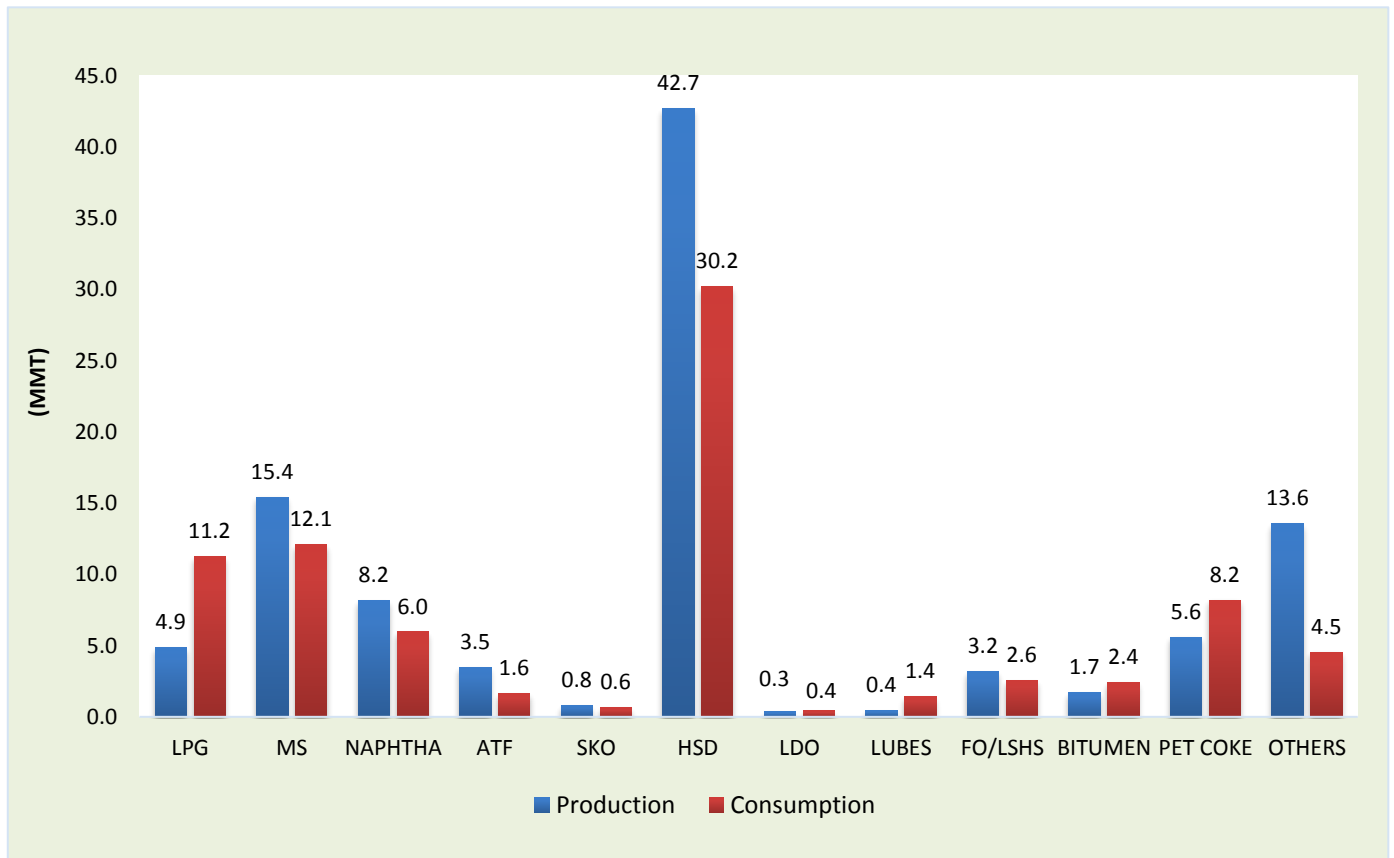
***Consumption***

### 11. Production and consumption of petroleum products (Million Metric Tonnes)

Products	2019-20		2020-21 (P)		August 2020 (P)		August 2021 (P)		Apr-Aug 2020 (P)		Apr-Aug 2021 (P)	
	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.8	26.3	12.1	27.6	0.9	2.3	0.9	2.3	4.7	11.0	4.9	11.2
MS	38.6	30.0	35.8	28.0	2.7	2.4	3.1	2.7	12.9	9.7	15.4	12.1
NAPHTHA	20.6	14.3	19.4	14.3	1.6	1.1	1.6	1.0	7.5	5.4	8.2	6.0
ATF	15.2	8.0	7.1	3.7	0.4	0.3	0.7	0.4	2.2	0.9	3.5	1.6
SKO	3.2	2.4	2.4	1.8	0.2	0.1	0.2	0.1	1.1	0.8	0.8	0.6
HSD	111.1	82.6	100.4	72.7	7.6	4.8	8.3	5.6	38.1	25.4	42.7	30.2
LDO	0.6	0.6	0.7	0.8	0.05	0.1	0.08	0.1	0.3	0.3	0.3	0.4
LUBES	0.9	3.8	1.1	3.5	0.1	0.3	0.1	0.3	0.3	1.2	0.4	1.4
FO/LSHS	9.3	6.3	7.4	6.0	0.6	0.5	0.6	0.6	3.2	2.3	3.2	2.6
BITUMEN	4.9	6.7	4.9	7.1	0.2	0.3	0.2	0.3	1.4	2.2	1.7	2.4
PET COKE	14.6	21.7	12.0	18.3	0.9	1.4	1.2	1.7	4.9	7.7	5.6	8.2
OTHERS	31.0	11.4	30.2	10.8	2.7	0.9	2.6	0.9	12.7	4.0	13.6	4.5
<b>ALL INDIA</b>	<b>262.9</b>	<b>214.1</b>	<b>233.5</b>	<b>194.6</b>	<b>17.9</b>	<b>14.4</b>	<b>19.6</b>	<b>16.0</b>	<b>89.3</b>	<b>70.8</b>	<b>100.2</b>	<b>81.3</b>
<b>Growth (%)</b>	<b>0.2%</b>	<b>0.4%</b>	<b>-11.2%</b>	<b>-9.1%</b>	<b>-19.1%</b>	<b>-15.8%</b>	<b>9.1%</b>	<b>10.9%</b>	<b>-17.5%</b>	<b>-21.6%</b>	<b>12.3%</b>	<b>14.8%</b>

Note: Prod - Production; Cons - Consumption

## Petroleum Products: April-August 2021 (P) (MMT)



## 12. Kerosene allocation vs upliftment (Kilo Litres)

Product	2018-19		2019-20		2020-21 (P)		2021-22 (P)*	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
PDS Kerosene	44,32,994	41,52,112	31,21,328	27,93,217	23,15,008	20,38,790	8,91,408	7,09,201

\* Allocation is for H1, 2021-22 and upliftment is for April-August 2021.

## 13. Ethanol blending programme

Particulars	Ethanol Supply Year *				
	2017-18	2018-19	2019-20	2020-21 (P)	
				Aug-21	Dec'20-Aug'21
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	150.5	188.6	173.0	25.2	235.0
Average Percentage of Blending Sales (EBP%)	4.2%	5.0%	5.0%	8.1%	8.0%

\*Ethanol Supply Year : Ethanol supplies take place between 1<sup>st</sup> December of the present year to 30<sup>th</sup> 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. Industry marketing infrastructure (as on 01.09.2021) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL/RBML*	NEL	SHELL	Others	Total
POL Terminal/ Depots (Nos.) <sup>§</sup>	117	80	80	18	3	-	6	304
Aviation Fuel Stations (Nos.) <sup>@</sup>	122	61	47	31	-	-	1	262
Retail Outlets (total) (Nos.) <sup>^</sup>	32,669	19,074	19,020	1,427	6,250	285	26	78,751
out of which Rural ROs	10,211	4,448	4,659	127	1,998	65	3	21,511
SKO/LDO agencies (Nos.)	3,871	930	1,638	-	-	-	-	6,439
LPG Distributors (total) (Nos.) (PSUs only)	12,760	6,178	6,201	-	-	-	-	25,139
LPG Bottling plants (Nos.) (PSUs only) <sup>#</sup>	92	53	51	-	-	-	3	199
LPG Bottling capacity (TMTPA) (PSUs only) <sup>&amp;</sup>	10,304	4,890	5,912	-	-	-	203	21,309
LPG active domestic consumers (Nos. crore) (PSUs only)	13.7	7.6	8.1	-	-	-	-	29.4

<sup>§</sup>(Others=4 MRPL & 2 NRL); <sup>@</sup>(Others=ShellMRPL); <sup>^</sup>(Others=MRPL); <sup>#</sup>(Others=NRL-1, OIL-1, CPCL-1); <sup>&</sup>(Others=NRL-60, OIL-23, CPCL-1); \*RBML- Reliance BP Mobility Limited



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**PART-D**

**LPG**

### 15. LPG consumption (Thousand Metric Tonne)

LPG category	2019-20	2020-21 (P)	August			April-August		
			2020-21 (P)	2021-22 (P)	Gr (%)	2020-21 (P)	2021-22 (P)	Gr (%)
<b>1. PSU Sales :</b>								
LPG-Packed Domestic	23,076.0	25,117.1	2,085.1	2,076.0	-0.4	10,354.3	10,197.6	-1.5
LPG-Packed Non-Domestic	2,614.4	1,884.9	134.1	198.6	48.1	481.2	790.9	64.3
LPG-Bulk	263.5	355.5	30.9	29.7	-3.8	104.0	147.3	41.6
Auto LPG	171.9	118.3	9.9	11.6	16.5	32.3	45.1	39.8
<b>Sub-Total (PSU Sales)</b>	<b>26,125.7</b>	<b>27,475.7</b>	<b>2,260.1</b>	<b>2,315.9</b>	<b>2.5</b>	<b>10,971.8</b>	<b>11,180.9</b>	<b>1.9</b>
<b>2. Direct Private Imports*</b>	<b>204.0</b>	<b>114.8</b>	<b>11.9</b>	<b>11.4</b>	<b>-4.0</b>	<b>31.8</b>	<b>58.8</b>	<b>85.2</b>
<b>Total (1+2)</b>	<b>26,329.8</b>	<b>27,590.5</b>	<b>2,271.9</b>	<b>2,327.3</b>	<b>2.4</b>	<b>11,003.5</b>	<b>11,239.7</b>	<b>2.1</b>

\*Jul 2020 -Aug 2021 DGCIS data prorated

### 16. LPG marketing at a glance

Particulars (As on 1st of April)	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021 (P)	1.9.2021 (P)
		LPG Active Domestic Customers	(Lakh)						1486	1663	1988	2243	2654	2787
	Growth							11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	3.4%
LPG Coverage (Estimated)	(Percent)						56.2	61.9	72.8	80.9	94.3	97.5	99.8	99.9
	Growth							10.1%	17.6%	11.1%	16.5%	3.4%	2.3%	1.6%
PMUY Beneficiaries	(Lakh)								200	356	719	802	800.4	812.5
	Growth									77.7%	101.9%	11.5%	-0.2%	1.4%
LPG Distributors	(No.)	9686	10541	11489	12610	13896	15930	17916	18786	20146	23737	24670	25083	25139
	Growth	3.4%	8.8%	9.0%	9.8%	10.2%	14.6%	12.5%	4.9%	7.2%	17.8%	3.9%	1.7%	1.3%
Auto LPG Dispensing Stations	(No.)	536	604	652	667	678	681	676	675	672	661	657	651	636
	Growth	19.9%	12.7%	7.9%	2.3%	1.6%	0.4%	-0.7%	-0.1%	-0.4%	-1.6%	-0.6%	-0.9%	-3.2%
Bottling Plants	(No.)	182	183	184	185	187	187	188	189	190	192	196	200	199
	Growth	0.0%	0.5%	0.5%	0.5%	1.1%	0.0%	0.5%	0.5%	0.5%	1.1%	2.1%	2.0%	2.1%

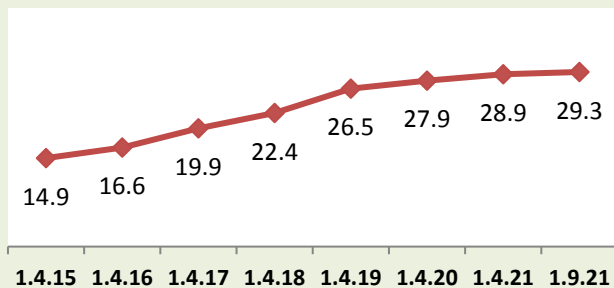
Source: PSU OMCs (IOCL, BPCL and HPCL)

1. Growth rates as on 1.9.2021 are w.r.t. figures as on 1.8.2020. All growth rates as on 1 April of any year are w.r.t. figures as on 1 April of previous year.

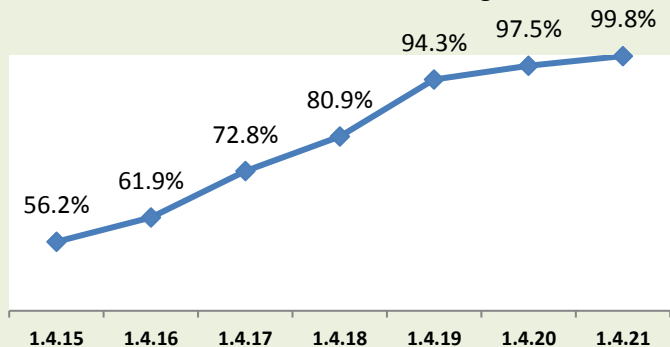
2. The methodology used for estimating LPG coverage by PSU OMC's is under review.



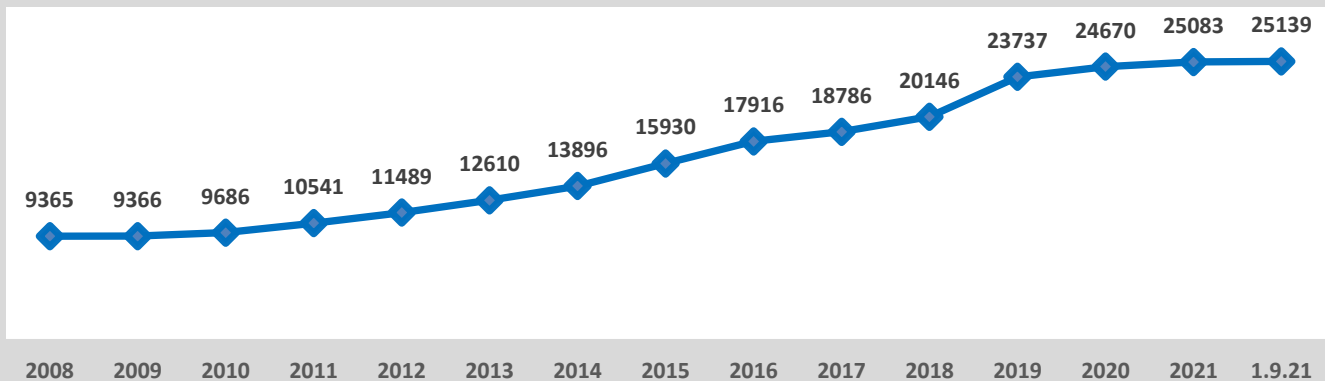
**Growth trend in active LPG domestic customers  
(In Crore)**



**Growth trend in LPG coverage**



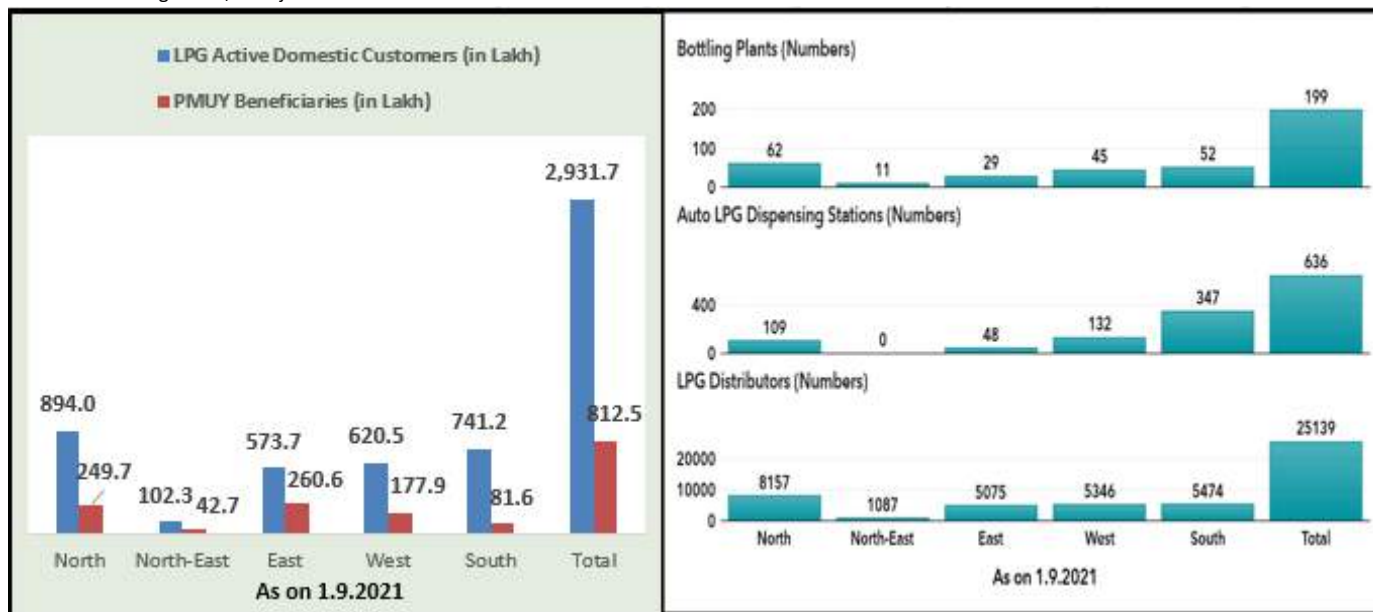
**Growth trend in LPG distributors**



### 17-Region-wise data on LPG marketing (As on 01.09.2021)

Particulars	North	North-East	East	West	South	Total
LPG Active Domestic Customers (in Lakh)	894.0	102.3	573.7	620.5	741.2	2931.7
PMUY Beneficiaries (in Lakh)	249.7	42.7	260.6	177.9	81.6	812.5
LPG Distributors (Numbers)	8157	1087	5075	5346	5474	25139
Auto LPG Dispensing Stations (Numbers)	109	0	48	132	347	636
Bottling Plants* (Numbers)	62	11	29	45	52	199

\*Includes Numaligarh BP, Duliajan BP and CPCL BP.





## ***PART-E***

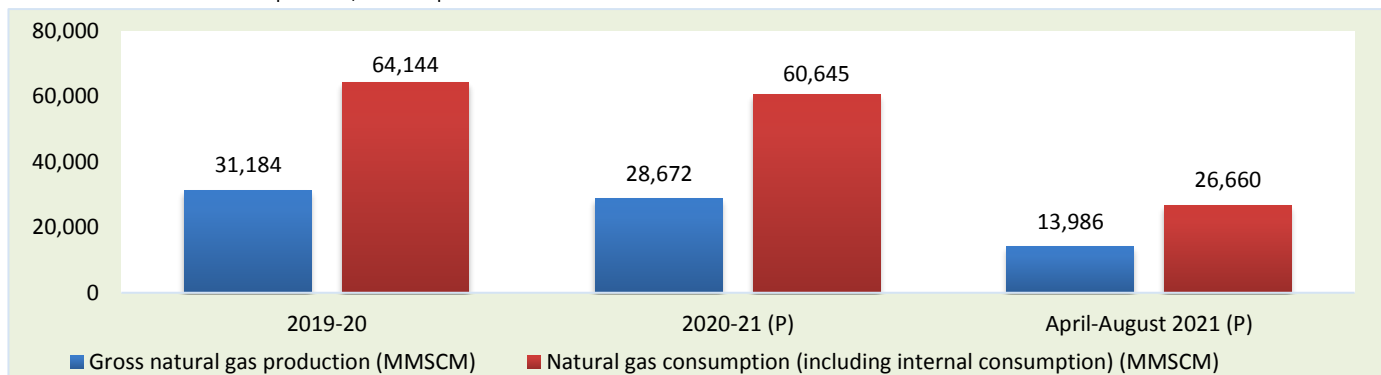
## *Natural Gas*

## 18. Natural gas at a glance

(MMSCM)

Details	2019-20	2020-21 (P)	August			April-August		
			2020-21 (P)	2021-22 (Target)	2021-22 (P)	2020-21 (P)	2021-22 (Target)	2021-22 (P)
(a) Gross production	31,184	28,672	2,432	3,254	2,924	11,660	14,941	13,986
- ONGC	23,746	21,872	1,921	2,002	1,744	9,197	9,595	8,526
- Oil India Limited (OIL)	2,668	2,480	189	251	257	1,041	1,235	1,180
- Private / Joint Ventures (JVs)	4,770	4,321	323	1,001	924	1,423	4,111	4,279
(b) Net production (excluding flare gas and loss)	30,257	27,784	2,363		2,851	11,264		13,627
(c) LNG import <sup>#</sup>	33,887	32,861	2,974		2,871	12,943		13,033
(d) Total consumption including internal consumption (b+c)	64,144	60,645	5,337		5,723	24,207		26,660
(e) Total consumption (in BCM)	64.1	60.6	5.3		5.7	24.2		26.7
(f) Import dependency based on consumption (%), {c/d*100}	52.8	54.2	55.7		50.2	53.5		48.9

#Jul 2020-Jul 2021 DGCS data prorated; RIL data prorated



## 19. Coal Bed Methane (CBM) gas development in India

Prognosticated CBM resources		91.8	TCF
Established CBM resources		10.4	TCF
CBM Resources (33 Blocks)		62.8	TCF
Total available coal bearing areas (India)		32760	Sq. KM
Total available coal bearing areas with MoPNG/DGH		21659	Sq. KM
Area awarded		16613	Sq. KM
Blocks awarded (ST CBM Block awarded twice in CBM Round II and Round IV)		32	Nos.
Exploration initiated (Area considered if any boreholes were drilled in the awarded block)		10669.55	Sq. KM
Production of CBM gas	April-August 2021 (P)	287.59	MMSCM
Production of CBM gas	August 2021 (P)	57.86	MMSCM

## 20. Natural gas pipeline network as on 31.03.2021

Nature of pipeline		GAIL	GSPL	PIL	IOCL	AGCL	RGPL	GGL	DFPCL	ONGC	GIGL	GITL	Others*	Total
Operational	Length	8,242	2,265	1,459	132	105	312	73	42	24				<b>12,653</b>
	Capacity	167.2	43.0	85.0	20.0	2.4	3.5	5.1	0.7	6.0				<b>337.3</b>
Partially commissioned <sup>#</sup>	Length	8,071			1,431						2,590	365		<b>12,457</b>
	Capacity	121.0												-
<b>Total operational length</b>		<b>16,313</b>	<b>2,265</b>	<b>1,459</b>	<b>1,563</b>	<b>105</b>	<b>312</b>	<b>73</b>	<b>42</b>	<b>24</b>	<b>2,590</b>	<b>365</b>	<b>0</b>	<b>25,110</b>
Under construction	Length	2,445									90	1,446	3,550	<b>7,531</b>
	Capacity	23.2											149.0	-
<b>Total length</b>		<b>18,758</b>	<b>2,265</b>	<b>1,459</b>	<b>1,563</b>	<b>105</b>	<b>312</b>	<b>73</b>	<b>42</b>	<b>24</b>	<b>2,680</b>	<b>1,811</b>	<b>3,550</b>	<b>32,641</b>

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

## 21. Existing LNG terminals

Location	Promoters	Capacity as on 01.09.2021	% Capacity utilisation (Apr-Jul 2021)
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	90.1
Hazira	Shell Energy India Pvt. Ltd.☒	5 MMTPA	72.0
Dabhol	Konkan LNG Limited	*5 MMTPA	52.4
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	22.5
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	16.0
Mundra	GSPC LNG Limited	5 MMTPA	21.9
<b>Total Capacity</b>		<b>42.5 MMTPA</b>	

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

**22. Status of PNG connections and CNG stations across India (Nos.), as on 31.07.2021(P)**

State/UT (State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	PNG connections		
		Domestic	Commercial	Industrial
Andhra Pradesh	89	2,16,802	301	20
Andhra Pradesh, Karnataka & Tamil Nadu	0	0	0	1
Assam	1	37,678	1,208	412
Bihar	15	35,261	11	1
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	20	20,913	47	12
Dadra & Nagar Haveli (UT)	7	6,451	43	43
Daman & Diu (UT)	4	4,831	30	31
Daman and Diu & Gujarat	9	1	1	0
Goa	7	6,432	6	14
Gujarat	813	24,79,052	20,491	5,581
Haryana	182	2,01,124	579	1,044
Haryana & Himachal Pradesh	5	0	0	0
Haryana & Punjab	9	0	0	0
Himachal Pradesh	1	1,000	0	0
Jharkhand	32	46,890	0	0
Karnataka	76	2,67,279	429	214
Kerala	31	16,405	14	12
Kerala & Puducherry	2	0	0	0
Madhya Pradesh	110	1,07,326	185	289
Madhya Pradesh and Rajasthan	13	0	0	0
Madhya Pradesh and Uttar Pradesh	6	0	0	0
Maharashtra	470	20,35,919	4,535	420
Maharashtra & Gujarat	33	37,499	0	0
National Capital Territory of Delhi (UT)	438	10,80,526	2,767	1,629
Odisha	24	32,997	0	0
Puducherry & Tamil Nadu	3	0	0	0
Punjab	100	13,559	83	73
Rajasthan	81	69,290	19	89
Tamil Nadu	57	0	0	0
Telangana	104	1,51,770	39	56
Tripura	18	50,312	497	62
Uttar Pradesh	489	9,64,820	1,598	1,952
Uttar Pradesh & Rajasthan	31	18,190	1	341
Uttar Pradesh and Uttrakhand	9	0	0	0
Uttrakhand	16	45,555	35	47
West Bengal	18	0	0	0
<b>Total</b>	<b>3,323</b>	<b>79,47,882</b>	<b>32,919</b>	<b>12,343</b>

Source: PNGRB & GEECL

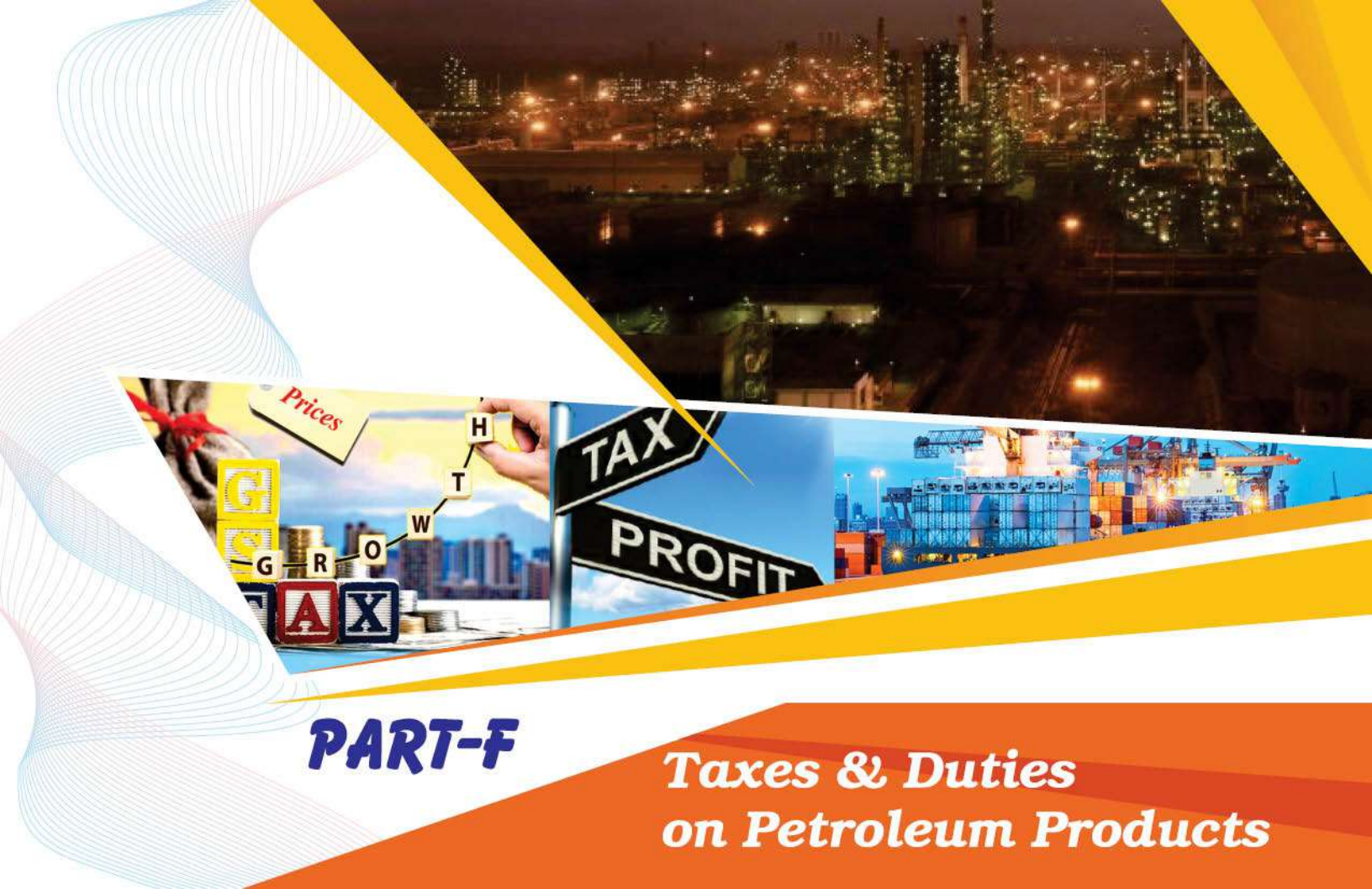
- Note-
1. All the GAs where PNG connections/CNG Stations have been established is considered as Operational.
  2. Under normal conditions. Operation of any particular GA commences within around one year of authorization.
  3. State/UTs wherever clubbed are based on the GAs authorised by PNGRB.

### 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

### 24. CNG/PNG prices

City	CNG (Rs/Kg)	PNG (Rs/SCM)	Source
Delhi	45.20	30.91	Indraprastha Gas Limited (w.e.f. 29.08.21)
Mumbai	51.98	30.4 Slab 1 36.0 Slab 2	Mahanagar Gas Limited (w.e.f. midnight 13/14 July 2021)



## ***PART-F***

# ***Taxes & Duties on Petroleum Products***



## 25. Information on Prices, Taxes and Under-recoveries/Subsidies

International FOB prices/ Exchange rates (\$/bbl)				Price buildup of petroleum products (Rs./litre/Cylinder)		
<b>Particulars</b>	<b>2019-20</b>	<b>2020-21</b>	<b>August 2021</b>	<b>Particulars</b>	<b>Petrol*</b>	<b>Diesel*</b>
Crude oil (Indian Basket)	60.47	44.82	69.80	Price charged to dealers (excluding Excise Duty and VAT)	41.21	41.39
Petrol	66.94	47.68	78.92	Excise Duty	32.90	31.80
Diesel	71.78	47.86	74.22	Dealers' Commission (Average)	3.84	2.59
Kerosene	70.56	43.60	71.86	VAT (incl VAT on dealers' commission)	23.39	12.99
LPG (\$/MT)	453.75	415.17	657.00	<b>Retail Selling Price</b>	<b>101.34</b>	<b>88.77</b>
FO (\$/MT)	321.19	259.30	401.19			
Naphtha (\$/MT)	471.08	378.93	623.07	<b>Particulars</b>	<b>PDS SKO*</b>	<b>Subsidised Domestic LPG*</b>
Exchange (Rs./\$)	70.88	74.20	74.18	Price before taxes and dealers'/distributors' commission	36.41	780.54
Customs, excise duty & GST rates				Dealers'/distributors' commission	2.64	61.84
<b>Product</b>	<b>Basic customs duty #</b>	<b>Excise duty</b>	<b>GST rates</b>	GST (incl GST on dealers'/distributors' commission)	1.95	42.12
Petrol	2.50%	Rs 32.90/Ltr <sup>^</sup>	**	<b>Retail Selling Price</b>	<b>41.00</b>	<b>884.50</b>
Diesel	2.50%	Rs 31.80/Ltr <sup>^</sup>	**			
PDS SKO	Nil	Not Applicable	5.00%	*Petrol and Diesel at Delhi as per IOCL are as on 1st September 2021. PDS SKO at Mumbai as on 1st September 2021 and Subsidised Domestic LPG at Delhi as on 1st September 2021.		
Non-PDS SKO	5.00%		18.00%			
Domestic LPG	Nil***		5.00%			
Non Domestic LPG	5.00%		18.00%			
Furnace Oil (Non-Fert)	5.00%		18.00%			
Naphtha (Non-Fert)	2.5% <sup>^</sup>		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	**			

\*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.<sup>^</sup>Effective 2.2.2021

## 25. Information on Prices, Taxes and Under-recoveries/Subsidies

PDS Kerosene /DBTL Subsidy			
PDS Kerosene			
Product	2018-19	2019-20	2020-21 (P)
	Rs./Crore		
Under recovery	5,950	1,833	0
Subsidy under DBTK #	98	42	0
<b>Total</b>	<b>6,048</b>	<b>1,875</b>	<b>0</b>
#DBTK subsidy excludes cash incentive/ assistance for establishment of institutional mechanism 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 (P)
	Rs./Crore		
DBTL subsidy	31,447	22,635	3,559
PME & IEC^	92	91	99
<b>Total</b>	<b>31,539</b>	<b>22,726</b>	<b>3,658</b>

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

Sales & profit of petroleum sector (Rs. Crores)				
Particulars	2020-21		Q1-2021-22 (P)	
	Turnover	PAT	Turnover	PAT
Upstream/midstream Companies (PSU)	1,32,830	17,878	43,268	6,373
Downstream Companies (PSU)	10,80,618	51,542	3,21,050	9,238
Standalone Refineries (PSU)	1,11,330	3,033	32,793	646
Private-RIL	2,78,940	31,944	94,803	8,595
Borrowings of OMCs (Rs. Crores), As on				
Company	Mar`20	Mar`21	June`21 (P)	
IOCL	1,16,545	1,02,327	85,720	
BPCL	41,875	26,315	21,577	
HPCL	43,021	40,009	35,197	
Petroleum sector contribution to Central/State Govt.				
Particulars	2019-20	2020-21 (P)	Q1-2021-22 (P)	
Central Government	3,34,315	4,55,058	90,750	
% of total revenue receipts	20%	29%		
State Governments	2,21,056	2,17,650	61,614	
% of total revenue receipts	8%	7%		
<b>Total (Rs. Crores)</b>	<b>5,55,370</b>	<b>6,72,708</b>	<b>1,52,364</b>	
Total Subsidy as a percentage of GDP (at current prices)				
Particulars	2018-19	2019-20	2020-21 (P)	
Petroleum subsidy	0.23	0.13	0.06	
Note: GDP figure for 2018-19 and 2019-20 are Revised Estimates and 2020-21 are Provisional Estimates				



# **PART-G**

## *Miscellaneous*

## 26. Capital expenditure of PSU oil companies

(Rs in crores)

Company	2018-19	2019-20	2020-21 (P)	2021-22 (P)	
				Target (Annual)	April-August
ONGC Ltd	28,738	30,115	26,441	29,800	9,295
ONGC Videsh Ltd (OVL)	6,013	5,363	5,351	8,380	2,324
Oil India Ltd (OIL)	3,702	3,724	12,802	4,108	1,575
GAIL (India) Ltd	5,958	4,381	5,560	5,861	2,247
Indian Oil Corp. Ltd. (IOCL)	26,548	28,316	27,195	28,547	8,707
Hindustan Petroleum Corp. Ltd (HPCL)	11,689	13,773	14,036	14,500	4,985
Bharat Petroleum Corp. Ltd (BPCL)	10,084	10,255	10,697	10,000	5,300
Mangalore Refinery & Petrochem Ltd (MRPL)	1,072	1,318	2,218	850	219
Chennai Petroleum Corp. Ltd (CPCL)	1,208	969	592	384	121
Numaligarh Refinery Ltd (NRL)	459	536	981	2,000	531
Balmer Lawrie Co. Ltd (BL)	125	40	42	40	9
Engineers India Ltd (EIL)	87	164	730	150	46
<b>Total</b>	<b>95,684</b>	<b>98,955</b>	<b>1,06,642</b>	<b>1,04,620</b>	<b>35,360</b>

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional

Totals may not tally due to roundoff.

## 27. Conversion factors and volume conversion

Weight to volume conversion				Volume conversion	
Product	Weight (MT)	Volume (KL)	Barrel (bbl)	From	To
LPG	1	1.844	11.60	1 US Barrel (bbl)	159 litres
Petrol (MS)	1	1.411	8.88	1 US Barrel (bbl)	42 US Gallons
Diesel (HSD)	1	1.210	7.61	1 US Gallon	3.78 litres
Kerosene (SKO)	1	1.285	8.08	1 Kilo litre (KL)	6.29 bbl
Aviation Turbine Fuel (ATF)	1	1.288	8.10	1 Million barrels per day	49.8 MMTPA
Light Diesel Oil (LDO)	1	1.172	7.37	<b>Energy conversion</b>	
Furnace Oil (FO)	1	1.0424	6.74	1 Kilocalorie (kcal)	4.187 kJ
Crude Oil	1	1.170	7.33	1 Kilocalorie (kcal)	3.968 Btu
<b>Exclusive Economic Zone</b>				1 Kilowatt-hour (kWh)	860 kcal
200 Nautical Miles	370.4 Kilometers			1 Kilowatt-hour (kWh)	3,412 Btu

Natural gas conversions				
1 Standard Cubic Metre (SCM)	35.31 Cubic Feet		1 MMBTU	25.2 SCM @10000 kcal/SCM
1 Billion Cubic Metres (BCM)/year of Gas	2.74 MMSCMD		GCV (Gross Calorific Value)	10,000 kcal/SCM
1 Trillion Cubic Feet (TCF) of Gas Reserve	3.88 MMSCMD		NCV (Net Calorific Value)	90% of GCV
1 Million Metric Tonne Per Annum (MMTPA) of LNG	3.60 MMSCMD		Gas required for 1 MW power generation	4,541 SCM/day
1 MT of LNG	1,325 SCM		Power generation from 1 MMSCMD of gas	220 MW

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