

# Ready Reckoner

Snapshot of India's Oil & Gas data

September, 2019



**Petroleum Planning & Analysis Cell**  
(Ministry of Petroleum & Natural Gas)

As on 22.10.2019

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## Highlights for the month

- Indigenous crude oil and condensate production during September 2019 was lower by 5.4% than that of September 2018. OIL, ONGC and PSC registered lower production of 5.4%, 2.6% and 11.4% respectively during September 2019 as compared to September 2018. On cumulative basis indigenous crude oil and condensate production of the country was lower by 6% during April-September 2019 as compared to the corresponding period of the previous year.
- Total crude oil processed during September 2019 was 19.4 MMT, which was 6.9% lower than September 2018. On cumulative basis total crude oil processed was lower by 2.3% during April-September 2019 as compared to the corresponding period of the previous year. Indian refineries processed 73.4% high sulphur crude during September 2019 as compared to 75.9% during September 2018.
- Production of petroleum products saw a de-growth of 6.7% and 2% during September 2019 and April-September 2019 respectively as compared to the corresponding period of the previous year.
- Crude oil imports decreased by 6.2% and 1.3% during September 2019 and April-September 2019 respectively as compared to the same period of the previous year.
- POL products imports increased by 76.2% and 30.8% during September 2019 and April-September 2019 respectively as compared to the same period of the previous year. Increase in POL products imports during April-September 2019 was due to increase in imports of all products except naphtha, ATF and “others” category.
- Exports of POL products increased by 11% and 3% during September 2019 and April-September 2019 as compared to the same period of the previous year. Increase in POL products exports during April - September 2019 was due to increase in exports of all products except ATF, fuel oil and petcoke /CBFS.
- Petroleum product consumption registered a de-growth of 0.3% during September 2019 and a cumulative growth of 1.4% during April-September 2019. Except for LPG, MS, LDO, lubes & greases and petcoke all other products registered de-growth during September 2019.

<ul style="list-style-type: none"> <li>• Total LPG consumption recorded a growth of 6% during September 2019 and a cumulative growth of 4.1% during April-September 2019. During September 2019, out of the five regions, Northern region had the highest share in total LPG consumption of 30.6% followed by Southern region at 27.8%, Western region at 22.6%, Eastern region at 16.5% and North Eastern region at 2.5%.</li> </ul>
<ul style="list-style-type: none"> <li>• SKO consumption registered a de-growth of 37.7% during September 2019 and cumulative de-growth of 22.4% during April-September 2019. This was mainly because of reduced Q1 &amp; Q2, 2019-20 PDS SKO allocations to the states and voluntary surrender of some of the allocation by the states.</li> </ul>
<ul style="list-style-type: none"> <li>• Gross production of natural gas for the month of September 2019 was 2568 MMSCM which was lower by 4.3% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 16005 MMSCM for the current financial year till September 2019 was lower by 1.5% compared with the corresponding period of the previous year.</li> </ul>
<ul style="list-style-type: none"> <li>• LNG import for the month of September 2019 was 2728 MMSCM which was 4.9 % higher than the corresponding month of the previous year. The cumulative import of 16276 MMSCM for the current year till September 2019 was higher by 7.9% compared with the corresponding period of the previous year.</li> </ul>
<ul style="list-style-type: none"> <li>• The price of Brent Crude averaged \$62.77/bbl during September 2019 as against \$59/bbl during August 2019 and \$78.85/bbl during September 2018. The Indian basket crude price averaged \$61.73/bbl during September 2019 as against \$59.35/bbl during August 2019 and \$77.88 /bbl during September 2018.</li> </ul>

## 1. Selected indicators of the Indian economy

Economic indicators		Unit/ Base	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
1	Population (as on 1 <sup>st</sup> May, 2011)	Billion	1.2	-	-	-	-	-
2	GDP at constant (2011-12 Prices)	Growth %	7.4	8.0 3 <sup>rd</sup> RE	8.2 2 <sup>nd</sup> RE	7.2 1 <sup>st</sup> RE	6.8 PE	5.0 E (Q1)
3	Agricultural Production (Food grains)	MMT	252.0	251.5	275.1	285.0 FE	285.0 4 <sup>th</sup> AE	140.6 1 <sup>st</sup> AE (Kharif <sup>®</sup> )
		Growth %	-4.9	-0.2	9.4	3.6	0.0	-0.7
4	Gross Fiscal Deficit (as percent of GDP)	%	4.1	3.9	3.5	3.5	3.4 RE	3.4 BE

Economic indicators		Unit/ Base	2017-18	2018-19	September		April-September	
					2018-19	2019-20	2018-19	2019-20
5	Index of Industrial Production (Base: 2011-12)	Growth %	4.4	3.6	4.8*	-1.1* QE	5.3 <sup>#</sup>	2.4 <sup>#</sup>
6	Imports	\$ Billion	465.6	514.1	42.8	36.9	261.6	243.3
7	Exports	\$ Billion	303.5	330.1	27.9	26.0	163.5	159.6
8	Trade Balance	\$ Billion	-162.1	-184.0	-15.0	-10.9	-98.2	-83.7
9	Foreign Exchange Reserves <sup>@</sup>	\$ Billion	424.4	411.9	400.5	433.6	-	-

<sup>®</sup>Kharif 2018-19- 141.59 (1<sup>st</sup> AE ); IIP is for the month of \*August, <sup>#</sup>April-August; <sup>@</sup>2017-18-as on March 30, 2018, 2018-19-as on March 29, 2019, September 2018- as on September 28, 2018 and September 2019-as on September 27, 2019; E-Estimates; AE-Advanced Estimates; RE-Revised Estimates; QE-Quick Estimates; FE: Final Estimates; PE: Provisional Estimates.

**Source:** Ministry of Commerce & Industry, Ministry of Agriculture & Farmer's Welfare, Reserve Bank of India

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

Details		Unit/ Base	2017-18	2018-19	September		April-September	
					2018-19	2019-20 (P)	2018-19	2019-20 (P)
1	Crude oil production in India	MMT	35.7	34.2	2.8	2.6	17.4	16.4
2	Consumption of petroleum products	MMT	206.2	213.2	16.1	16.0	104.2	105.7
3	Production of petroleum products	MMT	254.3	262.4	21.3	19.9	130.8	128.1
4	Gross natural gas production	MMSCM	32,649	32,873	2,684	2,568	16,254	16,005
5	Natural gas consumption	MMSCM	59,170	60,796	5,219	5,219	30,941	31,815
6	Imports & exports:							
Crude oil imports		MMT	220.4	226.5	17.9	16.8	112.9	111.4
		\$ Billion	87.8	111.9	9.8	7.4	58.6	52.5
Petroleum products (POL) imports		MMT	35.5	33.3	2.3	4.0	15.9	20.8
		\$ Billion	13.6	16.3	1.4	1.6	8.3	8.6
Gross petroleum imports (Crude + POL)		MMT	255.9	259.8	20.2	20.9	128.8	132.2
		\$ Billion	101.4	128.3	11.2	9.1	66.9	61.1
Petroleum products exports		MMT	66.8	61.1	6.1	6.7	30.7	31.6
		\$ Billion	34.9	38.2	4.1	3.8	20.4	18.2
LNG imports		MMSCM	27,439	28,740	2,601	2,728	15,078	16,276
		\$ Billion	8.1	10.3	1.0	0.8	5.3	4.7
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	21.8	24.9	26.1	24.6	25.6	25.1
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	11.5	11.6	14.8	14.4	12.5	11.4
9	Import dependency of crude (on consumption basis)	%	82.9	83.8	83.2	83.1	83.3	84.5

August - September 2019 private import (POL) quantity is prorated on the basis of August 2018 - July 2019 actual data provided by DGCIS.

Note: Crude oil imports (\$ Billion) during 2018-19 does not include value of crude oil quantity of 0.8 MMT imported at ISPRL, Mangalore.

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

Details	2017-18	2018-19	September			April-September		
			2018-19	2019-20 (Target)*	2019-20 (P)	2018-19	2019-20 (Target)*	2019-20 (P)
ONGC	20.8	19.6	1.6	1.8	1.6	9.9	10.5	9.5
Oil India Limited (OIL)	3.4	3.3	0.3	0.3	0.3	1.7	1.7	1.6
Private / Joint Ventures (JVs)	9.9	9.6	0.8	0.8	0.7	4.9	4.9	4.4
<b>Total Crude Oil</b>	<b>34.0</b>	<b>32.5</b>	<b>2.7</b>	<b>2.8</b>	<b>2.5</b>	<b>16.6</b>	<b>17.1</b>	<b>15.5</b>
ONGC condensate	1.5	1.5	0.1		0.1	0.7		0.7
PSC condensate	0.2	0.2	0.02		0.02	0.1		0.1
<b>Total condensate</b>	<b>1.6</b>	<b>1.7</b>	<b>0.1</b>		<b>0.1</b>	<b>0.9</b>		<b>0.8</b>
<b>Total (Crude + Condensate) (MMT)</b>	<b>35.7</b>	<b>34.2</b>	<b>2.8</b>	<b>2.8</b>	<b>2.6</b>	<b>17.4</b>	<b>17.1</b>	<b>16.4</b>
Total (Crude + Condensate) (Million Bbl)	261.6	250.7	20.5	20.9	19.4	127.6	125.7	120.0

\*Target is inclusive of condensate.

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

Details	2017-18	2018-19	September		April-September	
			2018-19	2019-20 (P)	2018-19	2019-20 (P)
Total domestic production (MMTOE)	68.3	67.1	5.5	5.2	33.7	32.4
Overseas production (MMTOE)	22.7	24.7	2.0	2.0	12.0	12.4
<b>Overseas production as percentage of domestic production</b>	<b>33.2%</b>	<b>36.8%</b>	<b>36.3%</b>	<b>38.5%</b>	<b>35.7%</b>	<b>38.2%</b>

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

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

Details		2017-18	2018-19	September		April-September	
				2018-19	2019-20 (P)	2018-19	2019-20 (P)
1	High Sulphur crude	188.4	194.2	15.8	14.3	98.2	92.9
2	Low Sulphur crude	63.6	63.0	5.0	5.2	30.5	32.8
<b>Total crude processed</b>		<b>251.9</b>	<b>257.2</b>	<b>20.9</b>	<b>19.4</b>	<b>128.7</b>	<b>125.7</b>
<b>Percentage share of HS crude in total crude oil processing</b>		<b>74.8%</b>	<b>75.5%</b>	<b>75.9%</b>	<b>73.4%</b>	<b>76.3%</b>	<b>73.9%</b>

## 6. Quantity and value of crude oil imports

Year	Quantity (MMT)	\$ Million	Rs. Crore
2018-19	226.5	111,915	7,83,183
2019-20 (Estimated)	233.0	111,348	7,84,418

**Note:** 2019-20 imports are estimated based on April 2019- September 2019 at actuals and for October 2019- March 2020 at average price of Indian basket crude oil \$66/bbl and average exchange rate for Rs.71/\$.

Impact of variation in crude oil price & exchange rate on value of crude oil imports for October 2019 - March 2020 :

If crude prices changes by one \$/bbl - Crude oil import bill changes by Rs. 6,328 crores

If exchange rate of Rs./\$ changes by Rs. 1/\$ - Crude oil import bill changes by Rs. 5,883 crores

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

Particulars		2017-18	2018-19	September		April-September	
				2018-19	2019-20 (P)	2018-19	2019-20 (P)
1	Indigenous crude oil processing	32.8	31.7	2.4	2.5	16.0	15.0
2	Products from indigenous crude (93.3% of crude oil processed)	30.6	29.6	2.3	2.4	15.0	14.0
3	Products from fractionators (Including LPG and Gas)	4.6	4.9	0.4	0.3	2.4	2.4
4	Total production from indigenous crude & condensate (2 + 3)	35.2	34.5	2.7	2.7	17.4	16.4
5	Total domestic consumption*	206.2	213.2	16.1	16.0	104.2	105.7
<b>% Self-sufficiency (4 / 5)</b>		<b>17.1%</b>	<b>16.2%</b>	<b>16.8%</b>	<b>16.9%</b>	<b>16.7%</b>	<b>15.5%</b>

\*Total domestic consumption of petroleum products for FY 2018-19 are provisional



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

Company	Refinery	Installed capacity (1.10.2019) MMTPA	Crude oil processing (MMT)							
			2017-18	2018-19	September			April-September		
					2018-19	2019-20 (Target)*	2019-20 (P)	2018-19	2019-20 (Target)*	2019-20 (P)
IOCL	Barauni (1964)	6.0	5.8	6.7	0.5	0.4	0.4	3.2	3.2	3.2
	Koyali (1965)	13.7	13.8	13.5	1.0	1.2	1.1	6.6	5.7	5.6
	Haldia (1975)	7.5	7.7	8.0	0.7	0.4	0.5	4.0	3.9	3.9
	Mathura (1982)	8.0	9.2	9.7	0.7	0.8	0.8	4.8	5.1	5.2
	Panipat (1998)	15.0	15.7	15.3	1.3	0.7	0.6	8.2	7.3	7.1
	Guwahati (1962)	1.0	1.0	0.9	0.09	0.09	0.09	0.5	0.5	0.5
	Digboi (1901)	0.65	0.7	0.7	0.06	0.05	0.05	0.3	0.3	0.3
	Bongaigaon(1979)	2.35	2.4	2.5	0.2	0.1	0.2	1.2	1.2	1.2
	Paradip (2016)	15.0	12.7	14.6	1.2	1.4	1.4	6.6	7.9	7.8
	<b>IOCL-TOTAL</b>	<b>69.2</b>	<b>69.0</b>	<b>71.8</b>	<b>5.7</b>	<b>5.2</b>	<b>5.2</b>	<b>35.5</b>	<b>35.1</b>	<b>34.8</b>
CPCL	Manali (1969)	10.5	10.3	10.3	0.9	0.7	0.7	5.3	5.1	5.2
	CBR (1993)	1.0	0.5	0.4	0.04	0.0	0.0	0.2	0.0	0.0
		<b>CPCL-TOTAL</b>	<b>11.5</b>	<b>10.8</b>	<b>10.7</b>	<b>1.0</b>	<b>0.7</b>	<b>0.7</b>	<b>5.5</b>	<b>5.1</b>
BPCL	Mumbai (1955)	12.0	14.1	14.8	1.1	1.3	1.3	7.2	7.0	7.0
	Kochi (1966)	15.5	14.1	16.1	1.4	1.4	1.0	8.2	8.4	8.2
BORL	Bina (2011)	7.8	6.7	5.7	0.0	0.6	0.5	2.5	3.9	3.8
NRL	Numaligarh (1999)	3.0	2.8	2.9	0.2	0.3	0.2	1.4	1.5	1.4
	<b>BPCL-TOTAL</b>	<b>38.3</b>	<b>37.7</b>	<b>39.4</b>	<b>2.7</b>	<b>3.6</b>	<b>3.0</b>	<b>19.3</b>	<b>20.8</b>	<b>20.4</b>

Company	Refinery	Installed capacity (1.10.2019) (MMTPA)	Crude oil processing (MMT)							
			2017-18	2018-19	September			April-September		
					2018-19	2019-20 (Target)*	2019-20 (P)	2018-19	2019-20 (Target)*	2019-20 (P)
ONGC	Tatipaka (2001)	0.066	0.080	0.066	0.005	0.004	0.007	0.029	0.021	0.043
MRPL	Mangalore (1996)	15.0	16.1	16.2	1.3	1.1	1.0	7.7	6.7	6.0
	<b>ONGC-TOTAL</b>	<b>15.1</b>	<b>16.2</b>	<b>16.3</b>	<b>1.3</b>	<b>1.1</b>	<b>1.0</b>	<b>7.7</b>	<b>6.8</b>	<b>6.1</b>
HPCL	Mumbai (1954)	7.5	8.6	8.7	0.7	0.7	0.8	4.4	4.2	3.8
	Visakh (1957)	8.3	9.6	9.8	0.8	0.4	0.6	4.9	4.5	4.6
HMEL	Bathinda (2012)	11.3	8.8	12.5	1.0	0.9	0.6	6.2	5.5	5.9
	<b>HPCL- TOTAL</b>	<b>27.1</b>	<b>27.1</b>	<b>30.9</b>	<b>2.6</b>	<b>2.0</b>	<b>2.0</b>	<b>15.5</b>	<b>14.2</b>	<b>14.3</b>
RIL	Jamnagar (DTA) (1999)	33.0	33.2	31.8	2.7	2.7	2.9	16.5	16.5	15.4
	Jamnagar (SEZ) (2008)	35.2	37.3	37.4	3.1	3.1	3.0	18.1	18.1	19.1
NEL <sup>#</sup>	Vadinar (2006)	20.0	20.7	18.9	1.7	1.7	1.6	10.5	10.5	10.4
<b>All India</b>		<b>249.4</b>	<b>251.9</b>	<b>257.2</b>	<b>20.9</b>	<b>20.0</b>	<b>19.4</b>	<b>128.7</b>	<b>127.1</b>	<b>125.7</b>

#Nayara Energy Limited (formerly Essar Oil Limited). Note: 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 01.10.2019)

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	-	-	9,104	2,241	3,371	2,395	<b>17,765</b>
	Cap (MMTPA)	-	1.7	-	-	46.0	19.5	31.8	9.4	<b>108.4</b>

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

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

Company	Refinery	2016-17	2017-18	2018-19	Q1, 2019-20
IOCL	Barauni	6.52	6.60	3.86	4.27
	Koyali	7.55	9.44	4.87	3.43
	Haldia	6.80	6.86	5.36	3.47
	Mathura	7.01	7.09	4.65	3.98
	Panipat	7.95	7.74	4.66	4.37
	Guwahati **	22.14	21.88	16.35	16.69
	Digboi **	24.49	24.86	22.74	21.47
	Bongaigaon **	20.15	20.62	16.94	19.81
	Paradip #	4.22	7.02	4.46	3.35
	<b>Weighted average</b>	<b>7.77</b>	<b>8.49</b>	<b>5.41</b>	<b>4.69</b>
BPCL	Kochi	5.16	6.44	4.27	2.33
	Mumbai	5.36	7.26	4.92	3.49
	<b>Weighted average</b>	<b>5.26</b>	<b>6.85</b>	<b>4.58</b>	<b>2.81</b>
HPCL	Mumbai	6.95	8.35	5.79	2.20
	Visakhapatnam	5.51	6.55	4.31	-0.21
	<b>Weighted average</b>	<b>6.20</b>	<b>7.40</b>	<b>5.01</b>	<b>0.75</b>
CPCL	Chennai	6.05	6.42	3.70	1.41
MRPL	Mangalore	7.75	7.54	4.06	-0.42
NRL	Numaligarh **	28.56	31.92	28.11	26.36
BORL	Bina	11.80	11.70	9.80	7.50
RIL	Jamnagar	11.00	11.60	9.20	8.10
NEL@	Vadinar	9.14	8.95	*	*

\*Data not available; \*\* GRM of North Eastern refineries are including excise duty benefit. For GRM excluding excise duty benefit, refer table 11; # Commissioned in February, 2016; @Nayara Energy Limited (formerly Essar Oil Limited)

### 11. GRM of North-East refineries excluding excise duty benefit (\$/bbl)

Company	Refinery	2016-17	2017-18	2018-19	Q1, 2019-20
IOCL	Guwahati	1.12	3.70	0.63	-0.21
	Digboi	7.73	8.27	8.84	8.32
	Bongaigaon	6.03	6.22	4.21	5.41
NRL	Numaligarh	8.50	11.43	11.80	10.67

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

Products	2018-19		September 2018		September 2019 (P)		April-September 2018		April-September 2019 (P)	
	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.8	24.9	1.0	2.1	1.0	2.2	6.3	12.1	6.1	12.5
MS	38.0	28.3	3.1	2.2	3.0	2.4	19.1	14.0	19.2	15.3
NAPHTHA	19.6	14.1	1.7	1.1	1.6	0.8	9.8	6.8	9.3	6.1
ATF	15.5	8.3	1.2	0.7	1.3	0.7	7.7	4.1	7.4	4.0
SKO	4.1	3.5	0.4	0.3	0.2	0.2	2.1	1.8	1.6	1.4
HSD	110.6	83.5	8.7	6.0	8.2	5.8	55.0	40.9	54.8	41.3
LDO	0.7	0.6	0.06	0.04	0.07	0.06	0.3	0.3	0.3	0.3
LUBES	0.9	3.7	0.1	0.3	0.1	0.3	0.5	1.7	0.5	1.8
FO/LSHS	10.0	6.6	0.9	0.5	1.0	0.5	4.9	3.3	4.9	3.1
BITUMEN	5.6	6.7	0.3	0.4	0.3	0.3	2.5	2.8	2.3	3.0
PET COKE	13.7	21.3	1.2	1.5	1.1	1.7	7.1	10.9	6.8	10.9
OTHERS	31.0	11.7	2.7	0.9	2.2	0.9	15.4	5.6	14.9	6.0
<b>ALL INDIA</b>	<b>262.4</b>	<b>213.2</b>	<b>21.3</b>	<b>16.1</b>	<b>19.9</b>	<b>16.0</b>	<b>130.8</b>	<b>104.2</b>	<b>128.1</b>	<b>105.7</b>
<b>Growth (%)</b>	<b>3.2%</b>	<b>3.4%</b>	<b>2.6%</b>	<b>-1.8%</b>	<b>-6.7%</b>	<b>-0.3%</b>	<b>6.6%</b>	<b>3.5%</b>	<b>-2.0%</b>	<b>1.4%</b>

Note: Prod - Production; Cons - Consumption

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

LPG category	2017-18	2018-19	September			April-September		
			2018-19	2019-20 (P)	Gr (%)	2018-19	2019-20 (P)	Gr (%)
<b>1. PSU Sales :</b>								
LPG-Packed Domestic	20,351.8	21,728.0	1,800.2	1,895.8	5.3	10,514.5	10,936.6	4.0
LPG-Packed Non-Domestic	2,085.8	2,364.4	190.4	219.1	15.1	1,117.1	1,234.6	10.5
LPG-Bulk	355.4	318.1	26.0	27.5	5.8	164.5	137.3	-16.5
Auto LPG	184.4	180.3	14.9	14.2	-4.6	92.4	87.1	-5.8
<b>Sub-Total (PSU Sales)</b>	<b>22,977.4</b>	<b>24,590.8</b>	<b>2,031.5</b>	<b>2,156.6</b>	<b>6.2</b>	<b>11,888.5</b>	<b>12,395.6</b>	<b>4.3</b>
<b>2. Direct Private Imports*</b>	364.5	316.0	28.3	26.1	-7.9	168.0	150.8	-10.2
<b>Total (1+2)</b>	<b>23,341.8</b>	<b>24,906.8</b>	<b>2,059.8</b>	<b>2,182.7</b>	<b>6.0</b>	<b>12,056.5</b>	<b>12,546.3</b>	<b>4.1</b>

\*August-September 2019 import data are prorated on the basis of August 2018 to July 2019 actual data provided by DGCIS.

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

Product	2016-17		2017-18		2018-19		H1, 2019-20 (P)	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
PDS Kerosene	69,33,030	66,78,447	50,21,828	46,69,160	44,32,994	41,52,112	18,02,848	16,40,447

### 15. Ethanol blending programme

Particulars	Ethanol Supply Year *			
	2015-16	2016-17	2017-18	2018-19 (P) (Dec 2018-September 2019)
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	111.4	66.5	150.5	169.2
Average Percentage of Blending Sales (EBP%)	3.5%	2.0%	4.2%	5.4%

\* **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.

## 16. Industry marketing infrastructure (as on 01.10.2019) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL	NEL <sup>##</sup>	SHELL	Others	Total
POL Terminal/ Depots (Nos.) <sup>§</sup>	125	78	83	18	3	-	6	313
Aviation Fuel Stations (Nos.) <sup>@</sup>	117	58	43	31	-	-	1	250
Retail Outlets (total) (Nos.) <sup>^</sup>	28,094	15,177	15,739	1,400	5,391	165	7	65,973
out of which Rural ROs	8,044	2,332	3,565	127	1,897	25	-	15,990
SKO/LDO agencies (Nos.)	3,888	1,001	1,638	-	-	-	-	6,527
LPG Distributors (total) (Nos.) (PSUs only)	12,137	6,011	5,979	-	-	-	-	24,127
LPG Bottling plants (Nos.) (PSUs only) <sup>#</sup>	90	51	49	-	-	-	3	193
LPG Bottling capacity (TMTPA) (PSUs only) <sup>&amp;</sup>	9,726	4,242	4,317	-	-	-	173	18,458
LPG active domestic consumers* (Nos. crore) (PSUs only)	12.9	7.0	7.5	-	-	-	-	27.4

<sup>§</sup>(RIL= 5 terminals and 13 depots, Others=4 MRPL & 2 NRL); <sup>@</sup>(Others=ShellMRPL -1); <sup>^</sup>(Others=MRPL-7); <sup>#</sup>(Others=NRL-1, OIL-1, CPCL-1); <sup>&</sup>(Others=NRL-30, OIL-23, CPCL-120); <sup>##</sup>Nayara Energy Limited (formerly Essar Oil Limited).

## 17. Natural gas at a glance

Details	2017-18	2018-19	(MMSCM)					
			September			April-September		
			2018-19	2019-20 (Target)	2019-20 (P)	2018-19	2019-20 (Target)	2019-20 (P)
(a) Gross production	32,649	32,873	2,684	2,815	2,568	16,254	17,032	16,005
- ONGC	23,429	24,675	2,006	2,066	1,913	12,017	12,577	12,072
- Oil India Limited (OIL)	2,881	2,722	228	279	232	1,366	1,698	1,384
- Private / Joint Ventures (JVs)	6,338	5,477	450	470	423	2,871	2,757	2,549
(b) Net production (excluding flare gas and loss)	31,731	32,056	2,619		2,491	15,863		15,539
(c) LNG import	27,439	28,740	2,601		2,728	15,078		16,276
(d) Total consumption including internal consumption (b+c)	59,170	60,796	5,219		5,219	30,941		31,815
(e) Total consumption (in BCM)	59.2	60.8	5.2		5.2	30.9		31.8
(f) Import dependency based on consumption (%), {c/d*100}	46.4	47.3	49.8		52.3	48.7		51.2

Note: August-September 2019 private import (LNG) quantity is prorated on the basis of August 2018-July 2019 actual data provided by DGCIS.

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

Prognosticated CBM resources	92	TCF
Established CBM resources	9.9	TCF
Total available coal bearing areas	26,000	Sq. KM
Exploration initiated	16,613	Sq. KM
Blocks awarded	33	Nos.
Production of CBM gas	September 2019 (P)	52.3
Production of CBM gas	April-September 2019 (P)	326.4

### 19. Major natural gas pipeline network as on 01.10.2019

Nature of pipeline		GAIL*	Reliance	GSPL	ARN^	IOCL	Total
Natural gas	Length (KM)	11,411	1,784	2,692	297	140	16,324
	Cap (MMSCMD)	194	71	43	3	10	320

^Excludes CGD pipeline network \*Pipeline capacity is inclusive of CJPL (5 MMSCMD) and DBPL (31 MMSCMD) which is the extension of DVPL-2 / VDPL.

### 20. Existing LNG terminals

Location	Promoters	Capacity as on 01.09.2019	Capacity utilisation in % April-August 2019 (P)
Dahej	Petronet LNG Ltd (PLL)	15 MMTPA	110.6%
Hazira	Shell Energy India Pvt. Ltd.	5 MMTPA	99.3%
Dabhol	RGPPL (GAIL - NTPC JV)	1.692 MMTPA*	3.3%
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	15.6%
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	3.8%
<b>Total Capacity</b>		<b>31.7 MMTPA</b>	

\* To increase to 5 MMTPA with breakwater

## 21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.10.2019

State	Entity operating	Geographical area/City	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
<b>Andhra Pradesh</b>	Bhagyanagar Gas Ltd, Godavari Gas Pvt.Ltd., Megha Engineering & Infrastructures Ltd.	Kakinada, Vijaywada, East/West Godavari, Krishna district GA (excluding areas already authorized)	49	19,950	75,800	154	6
<b>Assam</b>	Assam Gas Co. Ltd	Upper Assam GA	1	0	34,054	1,116	403
<b>Bihar</b>	GAIL (India) Ltd.	Patna	2	1,349	524	1	0
<b>Chandigarh</b>	Indian Oil-Adani Gas Pvt. Ltd.	Chandigarh	11	7,500	17,065	1	1
<b>Daman and Diu</b>	Indian Oil-Adani Gas Pvt. Ltd.	Daman	3	1,000	766	21	14
<b>Delhi</b>	Indraprastha Gas Ltd .	NCT of Delhi (Including Noida & Ghaziabad)	489	10,76,461	12,02,081	2,721	2,116
<b>Gujarat &amp; DNH</b>	Sabarmati Gas Ltd, Gujarat Gas Ltd, Adani Gas Ltd, Vadodara Gas Ltd, Hindustan Petroleum Corporation Ltd, Charotar Gas Sahakari Mandal Ltd, IRM Energy Ltd.	Gandhinagar, Mehsana & Sabarkanta GA, Patan district GA, Surat-Bharuch-Ankleswar GA, Nadiad GA, Navsari GA, Rajkot GA, Surendranagar GA, Hazira GA, Valsad GA, Jamnagar GA, Bhavnagar GA, Kutch (West) GA, Amreli District GA, Dahej Vagra Taluka GA, Dahod District GA, Panchmahal District GA, Anand (excluding area authorised) district GA, Ahmedabad city and Daskroi area (excluding area already authorised) GA, Vadodara district, Vadodara Rural, Ahmedabad district GA, Anand area including Kanjari and Vadtal villages GA and Palanpur, Dadra and Nagar Haveli-Silvassa	562	9,58,219	21,36,460	18,950	5,001



## 21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.10.2019

State	Entity operating	Geographical area/City	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
<b>Haryana</b>	Haryana City Gas Distribution Ltd., Adani Gas Ltd., GAIL Gas Ltd., Indraprastha Gas Ltd., Indian Oil-Adani Gas Pvt. Ltd.	Sonapat, Faridabad, Gurgaon, Rewari, Panipat, Nuh & Palwal, Karnal	85	1,62,133	119,949	295	558
<b>Jharkhand</b>	GAIL (India) Ltd.	Ranchi	2	191	80	0	0
<b>Karnataka</b>	Gail Gas Ltd., Megha Engineering & Infrastructures Ltd.	Bengaluru rural and urban districts GA, Tumkur district GA, Belgaum district GA, Dharwad	20	1,295	26,350	177	96
<b>Kerala</b>	Indian Oil-Adani Gas Pvt. Ltd.	Ernakulam	5	1100	1,213	10	3
<b>Madhya Pradesh</b>	Aavantika Gas Ltd, GAIL Gas Ltd	Dewas, Vijapur, Gwalior GA, Indore GA including Ujjain city	44	36,633	69,039	134	209
<b>Maharashtra</b>	Mahanagar Gas Ltd, Maharashtra Natural Gas Ltd, Gujarat Gas Limited, Mahesh Gas Ltd, Unison Enviro Private Limited	Mumbai, Greater Mumbai, Thane Urban, Mira Bhayender, Navi Mumbai, Ambernath, Bhiwandi, Kalyan, Dombivli, Badlapur, Ulhasnagar, Panvel, Kharghar & Taloja, Pune City including Pimpri-Chinchwad along with adjoining contiguous areas of Hinjewadi, Chakan & Talegaon GA, Raigarh District GA excl. areas already authorized, Palghar district and Thane Rural GA, Pune (excluding area already authorised), Ratnagiri	332	9,69,175	15,64,778	4,187	280

## 21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.10.2019

State	Entity operating	Geographical area/City	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
<b>Odisha</b>	GAIL (India) Ltd.	Khordha district GA, Cuttack district GA	6	3,105	338	0	0
<b>Punjab</b>	IRM Energy Pvt. Ltd., GSPL	Fatehgarh Sahib, Amritsar	9	2,678	970	2	16
<b>Rajasthan</b>	Rajasthan State Gas Limited	Kota, Neemrana & Kukas	6	11,297	4,885	19	16
<b>Telangana</b>	Bhagyanagar Gas Ltd.	Hyderabad	50	25,174	16,275	13	26
<b>Tripura</b>	Tripura Natural Gas Co. Ltd	Agartala	8	12,126	41,446	424	50
<b>Uttar Pradesh</b>	GAIL Gas Ltd, Sanwariya Gas Ltd, Green Gas Ltd, Central U.P. Gas Ltd, Siti Energy Ltd, Adani Gas Ltd, Indian Oil-Adani Gas Pvt. Ltd., Torrent Gas Pvt Ltd., GAIL (India) Ltd., IGL	Meerut, Dibrayapur, Mathura, Agra, Kanpur ga, Bareilly GA, Lucknow district, Moradabad GA, Firozabad Geographical Area (TTZ), Khurja GA, Allahabad, Varanasi and Auraiya, Kanpur Dehat & Etawah, Gorakhpur, Sant Kabir Nagar & Kushinagar, Bulandshahr, Jhansi	145	1,60,944	1,99,347	503	738
<b>Uttarakhand</b>	Indian Oil-Adani Gas Pvt. Ltd.	Udham Singh Nagar, Haridwar district GA	2	150	5,972	10	13
<b>West Bengal</b>	Great Eastern Energy Corporation Ltd.	Kultora, Asansol, Raniganj, Durgapur	7	3,858	0	0	0
<b>Total</b>			<b>1,838</b>	<b>34,54,338</b>	<b>55,17,392</b>	<b>28,738</b>	<b>9,546</b>

## 22. 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

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

International FOB prices/ Exchange rates (\$/bbl)				Price buildup of petroleum products (Rs./litre/Cylinder)		
Particulars	2017-18	2018-19	September 2019	Particulars	Petrol*	Diesel*
Crude oil (Indian Basket)	56.43	69.88	61.73	Price charged to dealers (excluding Excise Duty and VAT)	34.15	38.31
Petrol	67.83	75.58	69.50	Excise Duty	19.98	15.83
Diesel	68.19	82.51	75.90	Dealers' Commission (Average)	3.56	2.49
Kerosene	67.65	82.24	75.80	VAT (incl VAT on dealers' commission)	15.58	9.78
LPG (\$/MT)	485.92	526.00	356.00	<b>Retail Selling Price</b>	<b>73.27</b>	<b>66.41</b>
FO (\$/MT)	327.50	420.93	385.08			
Naphtha (\$/MT)	494.73	573.72	471.80			
Exchange (Rs./\$)	64.45	69.89	71.33			
Customs, excise duty & GST rates						
Product	Basic customs duty #	Excise duty	GST rates	Particulars	PDS SKO*	Sub. Dom LPG*
Petrol	2.50%	Rs 19.98/Ltr	**	Price before taxes and dealers'/distributors' commission	30.05	514.34
Diesel	2.50%	Rs 15.83/Ltr	**	Dealers'/distributors' commission	2.60	61.84
PDS SKO	Nil	Not Applicable	5.00%	GST (incl GST on dealers'/distributors' commission)	1.63	28.82
Non-PDS SKO	5.00%		18.00%	<b>Retail Selling Price</b>	<b>34.28</b>	<b>605.00</b>
Domestic LPG	Nil***		5.00%	*Petrol and diesel at Delhi as per IOCL are as on 16 <sup>th</sup> October 2019. PDS SKO at Mumbai and Sub. Dom LPG at Delhi are as on 16 <sup>th</sup> October 2019 & 1 <sup>st</sup> October 2019 respectively.		
Non Domestic LPG	5.00%		18.00%			
Furnace Oil (Non-Fert)	5.00%		18.00%			
Naphtha (Non-Fert)	4.00%		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	**			
Impact of changes in product price by \$1 per bbl for PDS SKO and \$10/MT for Domestic LPG & change in exchange rate by ₹1 per \$						
Product	Impact of change in product price by \$1per bbl / \$10per MT		Impact of change in exchange rate by ₹ 1/\$			
	Per unit impact (₹/lit./cyl.)	Annualised financial impact (₹crore)	Per unit impact (₹/lit./cyl.)	Annualised financial impact (₹crore)		
PDS SKO	0.45	170	0.49	180		
Domestic LPG	10.24	1430	5.22	730		
<b>Total</b>	-	<b>1,600</b>	-	<b>910</b>		
Note: The above calculations are based on RTP for October 2019.						

\*2% for scheduled commuter airlines from regional connectivity scheme airports  
 \*\* Crude oil, Petrol, Diesel, ATF and Natural Gas are outside GST levy; # Social welfare surcharge @ 3% on petrol and diesel and 10% on other products 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.

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

Under-recoveries/subsidy & burden sharing			
PDS Kerosene			
Product	2017-18	2018-19	Q1, 2019-20
	Rs./Crore		
Under recovery	4,672	5,950	940
Subsidy under DBTK #	113	117	0
<b>Total</b>	<b>4,785</b>	<b>6,067</b>	<b>940</b>
#DBTK subsidy excludes cash incentive/assistance for establishment of institutional mechanism for direct transfer of subsidy paid to States/UTs.			
Domestic LPG under DBTL (Direct benefit transfer for LPG)			
Particulars	2017-18	2018-19	Q1, 2019-20
	Rs./Crore		
DBTL subsidy	20,880	31,447	7,923
PME & IEC <sup>^</sup>	25	92	30
<b>Total</b>	<b>20,905</b>	<b>31,539</b>	<b>7,954</b>
PMUY (Pradhan Mantri Ujjwala Yojana)			
Particulars	2017-18	2018-19	Q1, 2019-20
	Rs./Crore		
PMUY claims	2,496	5,649	207
PME & IEC <sup>^</sup>	63	34	42
<b>Total</b>	<b>2,559</b>	<b>5,683</b>	<b>249</b>
<sup>^</sup> on payment basis			

Sales & profit of petroleum sector (Rs. Crores)				
Particulars	2018-19		Q1, 2019-20	
	Turnover	PAT	Turnover	PAT
Upstream/midstream Companies (PSU)	197,468	35,332	48,001	7,817
Downstream Companies (PSU)	12,33,019	30,055	3,08,773	5,482
Standalone Refineries (PSU)	140,614	2,087	27,532	-318
Private-RIL	400,986	35,163	96,384	9,036
Borrowings of OMCs (Rs. Crores), As on				
Company	Mar`18	Mar`19	Q1, Mar`20	
IOCL	58,030	86,359	72,227	
BPCL	23,351	29,099	30,647	
HPCL	20,991	27,240	20,427	
Petroleum sector contribution to Central/State Govt.				
Particulars	2016-17	2017-18	2018-19	
Central Government	3,35,175	3,45,249	3,65,113	
% of total revenue receipts	24%	24%	28%	
State Governments	1,89,770	2,09,155	2,30,325	
% of total revenue receipts	9%	9%	11%	
<b>Total (Rs. Crores)</b>	<b>5,24,945</b>	<b>5,54,404</b>	<b>5,95,438</b>	
Subsidy as a percentage of GDP (at current prices)				
Particulars	2015-16	2016-17	2017-18	
Petroleum subsidy	0.25	0.18	0.17	
<b>Note:</b> GDP figure for 2015-16 and 2016-17 are Revised Estimates and 2017-18 are Provisional Estimates				

## 24. Capital expenditure of PSU oil companies

(Rs in crores)

Company	2016-17 (P)	2017-18 (P)	2018-19 (P)	2019-20 (P)	
				Target	April-September
ONGC Ltd	28,010	72,383	28,738	32,921	10,779
ONGC Videsh Ltd (OVL)	18,360	6,240	6,013	5,161	3,159
Oil India Ltd (OIL)	10,514	8,395	3,702	4,105	1,500
GAIL (India) Ltd	2,180	3,613	5,958	5,339	1,617
Indian Oil Corp. Ltd. (IOCL)	21,918	20,345	26,548	25,084	9,806
Hindustan Petroleum Corp. Ltd (HPCL)	5,861	7,134	11,689	9,500	5,892
Bharat Petroleum Corp. Ltd (BPCL)	16,810	8,161	10,084	7,900	3,765
Mangalore Refinery & Petrochem Ltd (MRPL)	614	1,281	1,072	818	703
Chennai Petroleum Corp. Ltd (CPCL)	1,293	963	1,208	1,105	512
Numaligarh Refinery Ltd (NRL)	500	387	459	455	86
Balmer Lawrie Co. Ltd (BL)	73	78	125	40	7
Engineers India Ltd (EIL) #	-	-	87	1212	41
<b>Total</b>	<b>106,133</b>	<b>128,981</b>	<b>95,684</b>	<b>93,639</b>	<b>37,867</b>

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional;

# Included from 2018-19.

## 25. 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
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	35.31 Cubic Feet	1 MMBTU	25.2 SCM @10000 kcal/SCM
1 BCM/year of Gas	2.74 MMSCMD	GCV (Gross Calorific Value)	10,000 kcal/SCM
1 TCF of Gas Reserve	3.88 MMSCMD	NCV (Net Calorific Value)	90% of GCV
1 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