Ready Reckoner

Snapshot of India's Oil & Gas data

July, 2019

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

As on 20.08.2019

Index of Tables

Highlights for the month

- Indigenous crude oil and condensate production during July 2019 was lower by 4.4% than that of July 2018. OIL, ONGC and PSC fields registered lower production of 4.7%, 3.2% and 6.8% respectively during July 2019 as compared to July 2018. On cumulative basis indigenous crude oil and condensate production was lower by 6.2% during April - July 2019 as compared to the corresponding period of the previous year.
- Total crude oil processed during July 2019 was 21.8 MMT, which was 2.8% lower than July 2018. On cumulative basis total crude oil processed was lower by 2.3% during April - July 2019 as compared to the corresponding period of the previous year. Indian refineries processed 73.1% high sulphur crude during July 2019 as compared to 77.1% during July 2018.
- Production of petroleum products saw a de-growth of 0.9% and 2% during July 2019 and April-July 2019 respectively as compared to the corresponding period of the previous year.
- Crude oil imports decreased by 1.2% and 2% during July 2019 and April-July 2019 respectively as compared to the corresponding period of the previous year.
- POL products imports increased by 8.9% and 22.5% during July 2019 and April-July 2019 respectively as compared to the same period of the previous year. Increase in POL products imports during April-July 2019 was due to increase in imports of all products except naphtha, fuel oil and "others" category.
- Exports of POL products decreased by 5.1% during July 2019 and increased by 2.9% during April-July 2019 as compared to the corresponding period of the previous year. Increase in POL products exports during April-July 2019 was due to increase in exports of all POL products except ATF, petcoke/CBFS and VGO.
- Petroleum product consumption registered a growth of 3.3% in July 2019 and a cumulative growth of 1.6% during April-July 2019. Except for naphtha (-5.3%), ATF (-0.8%), SKO (-33.3%) and petcoke (-12.1%) all other products registered growth during July 2019.

•	Total LPG consumption recorded a growth of 9.0% during July 2019 and a cumulative growth of 1.1% for the period April-July 2019. During July 2019, out of the five regions, Northern region had the highest share in total LPG consumption of 30.8% followed by Southern region at 28.1%, Western region at 22.1%, Eastern region at 16.3% and North Eastern region at 2.6%.
•	SKO consumption registered a de-growth of 33.3% during July 2019 and cumulative de-growth of 18.3% during April-July 2019. This was mainly because of reduced Q1 & Q2, 2019-20 PDS SKO allocations to the states and voluntary surrender of some of the allocation by the states.
•	Gross production of natural gas during July 2019 was 2718 MMSCM which was higher by 0.2% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 10749 MMSCM during April-July 2019 was lower by 0.3% compared with the corresponding period of the previous year.
•	LNG import during July 2019 was 2738 MMSCM which was 9.1 % higher than the corresponding month of the previous year. The cumulative import of 10655 MMSCM during April-July 2019 was higher by 6.6% compared with the corresponding period of the previous year.
•	The price of Brent Crude averaged $64.04/bbl during July, 2019 as against $64.10/bbl during June 2019 and $74.35/bbl during July 2018. The Indian basket crude price averaged $63.63/bbl during July 2019 as against $62.39/bbl during June 2019 and $73.47 /bbl during July 2018.

1. Selected indicators of the Indian economy

	Economic indicators	Unit/ Base	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
1	Population (as on 1st May, 2011)	Billion	1.2	-	-	-	-	-
2	GDP at constant (2011-12 Prices)	Growth %	6.4	7.4	8.0 3rd RE	8.2 2nd RE	7.2 1st RE	6.8 PE
3	Agricultural Production (Food grains)	MMT	265.1	252.0	251.5	275.1	285.0 FE	285.0 4th AE
		Growth %	3.1	-4.9	-0.2	9.4	3.6	0.0
4	Gross Fiscal Deficit	%	-4.5	-4.1	-3.9	-3.5	-3.5	-3.4 RE

	Economic indicators	Unit/ Base	2017-18	2018-19 (P)	July (P)		April-July (P)	
					2018-19	2019-20	2018-19	2019-20
5	Index of Industrial Production (Base: 2011-12)	Growth %	4.4	3.6	7.0*	2.0* QE	5.1#	3.6#
6	Imports	$ Billion	465.6	514.1	44.4	39.8	173.1	166.8
7	Exports	$ Billion	303.5	330.1	25.8	26.3	107.8	107.4
8	Trade Balance	$ Billion	-162.1	-184.0	-18.6	-13.4	-65.3	-59.4
9	Foreign Exchange Reserves @	$ Billion	424.4	411.9	404.2	429.6	-	-

IIP is for the month of *June, #April-June; @2017-18-as on March 30, 2018, 2018-19-as on March 29, 2019, July 2018- as on July 27, 2018 and July 2019-as on July 26, 2019; 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 (P)	July (P)		April-July (P)	
					2018-19	2019-20	2018-19	2019-20
1	Crude oil production in India	MMT	35.7	34.2	2.9	2.8	11.7	11.0
2	Consumption of petroleum products	MMT	206.2	211.6	17.0	17.6	71.4	72.5
3	Production of petroleum products	MMT	254.3	262.4	22.7	22.5	87.8	86.0
4	Gross natural gas production	MMSCM	32,649	32,873	2,714	2,718	10,782	10,749
5	Natural gas consumption	MMSCM	59,170	60,747	5,162	5,376	20,519	21,093
6	Imports & exports:							
	Crude oil imports	MMT	220.4	226.6	19.6	19.3	76.3	74.8
		$ Billion	87.8	112.0	10.3	9.0	39.0	36.3
	Petroleum products (POL) imports	MMT	35.5	32.5	2.6	2.8	11.0	13.5
		$ Billion	13.6	16.2	1.4	1.2	5.4	5.7
	Gross petroleum imports (Crude + POL)	MMT	255.9	259.2	22.2	22.2	87.3	88.3
		$ Billion	101.4	128.2	11.6	10.2	44.4	42.0
	Petroleum products exports	MMT	66.8	61.1	5.3	5.1	19.0	19.6
		$ Billion	34.9	38.2	3.5	3.0	12.6	11.6
	LNG imports	MMSCM	27,439	28,692	2,510	2,738	9,993	10,655
		$ Billion	8.1	10.3	0.9	0.8	3.4	3.1
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	21.8	24.9	26.2	25.6	25.7	25.2
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	11.5	11.6	13.5	11.4	11.7	10.8
9	Import dependency of crude (on consumption basis)	%	82.9	83.7	82.2	83.2	83.4	84.9

June - July 2019 private import (POL) quantity is prorated on the basis of June 2018 - May 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	July			April-July		
			2018-19	2019-20 (Target)*	2019-20 (P)	2018-19	2019-20 (Target)*	2019-20 (P)
ONGC	20.8	19.6	1.7	1.8	1.6	6.7	7.0	6.4
Oil India Limited (OIL)	3.4	3.3	0.3	0.3	0.3	1.1	1.1	1.1
Private / Joint Ventures (JVs)	9.9	9.6	0.8	0.8	0.7	3.3	3.3	2.9
Total Crude Oil	**34.0**	**32.5**	**2.8**	**2.9**	**2.6**	**11.1**	**11.4**	**10.4**
ONGC condensate	1.5	1.5	0.1		0.1	0.5		0.5
PSC condensate	0.2	0.2	0.02		0.02	0.08		0.08
Total condensate	**1.6**	**1.7**	**0.1**		**0.1**	**0.6**		**0.6**
Total (Crude + Condensate) (MMT)	**35.7**	**34.2**	**2.9**	**2.9**	**2.8**	**11.7**	**11.4**	**11.0**
Total (Crude + Condensate) (Million Bbl)	**261.6**	**250.7**	**21.2**	**21.5**	**20.3**	**85.8**	**83.4**	**80.5**

*Target is inclusive of condensate.

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

Details	2017-18	2018-19	July		April-July	
			2018-19	2019-20 (P)	2018-19	2019-20 (P)
Total domestic production (MMTOE)	68.3	67.1	5.6	5.5	22.5	21.7
Overseas production (MMTOE)	22.7	24.7	2.1	2.0	8.4	8.0
Overseas production as percentage of domestic production	**33.2%**	**36.8%**	**37.2%**	**35.7%**	**37.2%**	**36.7%**

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

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

Details		2017-18	2018-19	July		April-July	
				2018-19	2019-20 (P)	2018-19	2019-20 (P)
1	High Sulphur crude	188.4	194.2	17.3	15.9	66.1	62.2
2	Low Sulphur crude	63.6	63.0	5.1	5.8	20.3	22.2
Total crude processed		**251.9**	**257.2**	**22.4**	**21.8**	**86.4**	**84.4**
Percentage share of HS crude in total crude oil processing		**74.8%**	**75.5%**	**77.1%**	**73.1%**	**76.5%**	**73.7%**

6. Quantity and value of crude oil imports			
Year	Quantity (MMT)	$ Million	Rs. Crore
2018-19 (P)	226.6	111,956	7,83,427
2019-20 (Estimated)	233.0	112,721	8,00,317

Note: 2019-20 imports are estimated 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 April 2019 - March 2020 :

If crude prices changes by one $/bbl - Crude oil import bill changes by Rs. 12,126 crores

If exchange rate of Rs./$ changes by Rs. 1/$ - Crude oil import bill changes by Rs. 11,272 crores

7. Self-sufficiency in petroleum products (Million Metric Tonnes)							
Particulars		2017-18	2018-19	July		April-July	
				2018-19	2019-20 (P)	2018-19	2019-20 (P)
1	Indigenous crude oil processing	32.8	31.7	2.8	2.7	11.0	10.0
2	Products from indigenous crude (93.3% of crude oil processed)	30.6	29.6	2.6	2.5	10.3	9.3
3	Products from fractionators (Including LPG and Gas)	4.6	4.9	0.4	0.4	1.6	1.6
4	Total production from indigenous crude & condensate **(2 + 3)**	35.2	34.5	3.0	3.0	11.8	11.0
5	Total domestic consumption*	206.2	211.6	17.0	17.6	71.4	72.5
% Self-sufficiency (4 / 5)		**17.1%**	**16.3%**	**17.8%**	**16.8%**	**16.6%**	**15.1%**

*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 (1.8.2019) MMTPA**	**Crude oil processing (MMT)**							
			2017-18	**2018-19**	**July**			**April-July**		
					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	0.6	0.6	0.6	2.2	2.3	2.3
	Koyali (1965)	13.7	13.8	13.5	1.0	1.1	1.1	4.6	3.5	3.5
	Haldia (1975)	7.5	7.7	8.0	0.7	0.7	0.7	2.7	2.8	2.8
	Mathura (1982)	8.0	9.2	9.7	0.8	0.9	0.9	3.4	3.5	3.5
	Panipat (1998)	15.0	15.7	15.3	1.4	1.4	1.4	5.5	5.2	5.2
	Guwahati (1962)	1.0	1.0	0.9	0.09	0.09	0.09	0.4	0.3	0.3
	Digboi (1901)	0.65	0.7	0.7	0.06	0.06	0.06	0.2	0.2	0.2
	Bongaigaon(1979)	2.35	2.4	2.5	0.2	0.2	0.2	0.8	0.9	0.8
	Paradip (2016)	15.0	12.7	14.6	1.3	1.4	1.4	4.1	5.1	5.0
	IOCL-TOTAL	**69.2**	**69.0**	**71.8**	**6.1**	**6.5**	**6.4**	**23.8**	**23.8**	**23.7**
CPCL	Manali (1969)	10.5	10.3	10.3	1.0	0.9	0.9	3.5	3.7	3.5
	CBR (1993)	1.0	0.5	0.4	0.03	0.0	0.0	0.1	0.0	0.0
	CPCL-TOTAL	**11.5**	**10.8**	**10.7**	**1.0**	**0.9**	**0.9**	**3.6**	**3.7**	**3.5**
BPCL	Mumbai (1955)	12.0	14.1	14.8	1.3	1.3	1.3	5.0	4.3	4.4
	Kochi (1966)	15.5	14.1	16.1	1.4	1.4	1.5	5.4	5.6	5.8
BORL	Bina (2011)	7.8	6.7	5.7	0.6	0.7	0.5	2.4	2.6	2.6
NRL	Numaligarh (1999)	3.0	2.8	2.9	0.2	0.3	0.3	0.9	1.0	0.9
	BPCL-TOTAL	**38.3**	**37.7**	**39.4**	**3.5**	**3.7**	**3.5**	**13.7**	**13.5**	**13.7**

Company	Refinery	Installed capacity (1.8.2019) (MMTPA)	Crude oil processing (MMT)							
			2017-18	2018-19	July			April-July		
					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	0.004	0.004	0.007	0.020	0.013	0.029
MRPL	Mangalore (1996)	15.0	16.1	16.2	1.4	1.4	1.4	5.2	4.7	4.0
	ONGC-TOTAL	**15.1**	**16.2**	**16.3**	**1.4**	**1.4**	**1.4**	**5.2**	**4.7**	**4.0**
HPCL	Mumbai (1954)	7.5	8.6	8.7	0.8	0.7	0.8	2.9	2.8	2.3
	Visakh (1957)	8.3	9.6	9.8	0.8	0.8	0.9	3.2	3.3	3.2
HMEL	Bathinda (2012)	11.3	8.8	12.5	1.0	0.9	1.1	4.2	3.7	4.3
	HPCL- TOTAL	**27.1**	**27.1**	**30.9**	**2.6**	**2.5**	**2.7**	**10.3**	**9.7**	**9.8**
RIL	Jamnagar (DTA) (1999)	33.0	33.2	31.8	2.8	2.8	1.7	11.0	11.0	9.7
	Jamnagar (SEZ) (2008)	35.2	37.3	37.4	3.2	3.2	3.3	11.8	11.8	12.8
NEL#	Vadinar (2006)	20.0	20.7	18.9	1.8	1.8	1.8	7.0	7.0	7.0
All India		**249.4**	**251.9**	**257.2**	**22.4**	**22.7**	**21.8**	**86.4**	**85.2**	**84.4**

#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 01.08.2019)

Details		ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Others*	Total
Crude Oil	Length (KM)	1,283	1,193	688	1,017	5,301	937	-	-	**10,419**
	Cap (MMTPA)	60.6	9.0	10.7	11.3	48.6	7.8	-	-	**147.9**
Products	Length (KM)	-	654	-	-	9,098	2,241	3,371	2,395	**17,759**
	Cap (MMTPA)	-	1.7	-	-	45.6	19.5	29.4	9.4	**105.6**

* **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
	Weighted average	**7.77**	**8.49**	**5.41**	**4.69**
BPCL	Kochi	5.16	6.44	4.27	2.33
	Mumbai	5.36	7.26	4.92	3.49
	Weighted average	**5.26**	**6.85**	**4.58**	**2.81**
HPCL	Mumbai	6.95	8.35	5.79	2.20
	Visakhapatnam	5.51	6.55	4.31	-0.21
	Weighted average	**6.20**	**7.40**	**5.01**	**0.75**
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 (P)**		**July 2018 (P)**		**July 2019 (P)**		**April-July 2018 (P)**		**April-July 2019 (P)**	
	Prod	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**
LPG	12.8	24.9	1.1	2.0	1.1	2.2	4.2	7.9	4.1	8.0
MS	38.0	28.3	3.3	2.3	3.4	2.5	13.0	9.4	13.0	10.3
NAPHTHA	19.6	14.1	1.7	1.3	1.5	1.2	6.3	4.5	5.9	3.8
ATF	15.5	8.3	1.4	0.7	1.2	0.7	5.2	2.7	4.9	2.7
SKO	4.1	3.5	0.4	0.3	0.3	0.2	1.4	1.2	1.2	1.0
HSD	110.6	83.5	9.6	6.6	10.0	6.8	37.4	28.7	37.3	29.4
LDO	0.7	0.6	0.03	0.04	0.04	0.05	0.1	0.2	0.2	0.2
LUBES	0.9	3.9	0.1	0.3	0.1	0.3	0.4	1.2	0.3	1.2
FO/LSHS	10.0	6.5	1.0	0.5	0.9	0.5	3.0	2.1	3.1	2.1
BITUMEN	5.6	6.6	0.3	0.3	0.4	0.4	2.0	2.3	1.8	2.3
PET COKE	13.7	20.5	1.2	1.8	1.0	1.6	4.7	7.7	4.5	7.5
OTHERS	31.0	11.0	2.7	0.9	2.6	1.1	10.0	3.4	9.9	4.1
ALL INDIA	**262.4**	**211.6**	**22.7**	**17.0**	**22.5**	**17.6**	**87.8**	**71.4**	**86.0**	**72.5**
Growth (%)	**3.2%**	**2.7%**	**12.4%**	**6.5%**	**-0.9%**	**3.3%**	**8.1%**	**5.4%**	**-2.0%**	**1.6%**

Note: Prod - Production; Cons - Consumption

13. LPG consumption (Thousand Metric Tonne)

LPG category	2017-18	2018-19 (P)	July (P)			April-July (P)		
			2018-19	2019-20	Gr (%)	2018-19	2019-20	Gr (%)
1. PSU Sales :								
LPG-Packed Domestic	20,351.8	21,732.5	1,792.1	1,938.7	8.2	6,875.2	6,950.4	1.1
LPG-Packed Non-Domestic	2,085.8	2,358.8	181.6	212.5	17.0	727.5	777.8	6.9
LPG-Bulk	355.4	322.0	25.1	23.8	-5.2	113.8	83.2	-26.9
Auto LPG	184.4	180.3	15.9	15.1	-4.8	61.4	56.8	-7.5
Sub-Total (PSU Sales)	**22,977.4**	**24,593.6**	**2,014.7**	**2,190.2**	**8.7**	**7,778.0**	**7,868.2**	**1.2**
2. Direct Private Imports*	364.5	324.4	18.0	25.2	39.8	97.4	94.4	-3.1
Total (1+2)	**23,341.8**	**24,918.0**	**2,032.7**	**2,215.4**	**9.0**	**7,875.4**	**7,962.7**	**1.1**

*June-July 2019 import data are prorated on the basis of June 2018 to May 2019 actual data provided by DGCIS.

14. Kerosene allocation vs upliftment (Kilo Litres)

Product	2016-17		2017-18		2018-19 (P)		Q1, 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	41,52,117	10,32,204	9,49,162

15. Ethanol blending programme

Particulars	Ethanol Supply Year *			
	2015-16	2016-17	2017-18	2018-19 (Dec 2018-July 2019)
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	111.4	66.5	150.5	151.4
Average Percentage of Blending Sales (EBP%)	3.5%	2.0%	4.2%	6.0%

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

Note: With effect from 01.04.2019, EBP Programme has been extended to whole of India except UTs of Andaman and Nicobar Islands and Lakshadweep.

16. Industry marketing infrastructure (as on 01.08.2019) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL	NEL[##]	SHELL	Others	Total
POL Terminal/ Depots **(Nos.)**[$]	125	78	83	18	3	-	6	**313**
Aviation Fuel Stations **(Nos.)**[@]	117	56	43	31	-	-	1	**248**
Retail Outlets (total) **(Nos.),**[^]	27,878	14,977	15,500	1,400	5,285	155	7	**65,202**
out of which Rural ROs	7,943	2,262	3,501	127	1,876	22	-	**15,731**
SKO/LDO agencies **(Nos.)**	3,889	1,001	1,638	-	-	-	-	**6,528**
LPG Distributors (total) **(Nos.) (PSUs only)**	12,038	5,982	5,907	-	-	-	-	**23,927**
LPG Bottling plants **(Nos.) (PSUs only)**[#]	89	51	49	-	-	-	3	**192**
LPG Bottling capacity **(TMTPA) (PSUs only)**[&]	9,666	4,182	4,317	-	-	-	173	**18,338**
LPG active domestic consumers **(Nos. crore) (PSUs only)**	12.6	6.8	7.4	-	-	-	-	**26.8**

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

17. Natural gas at a glance

(MMSCM)

Details	2017-18	2018-19 (P)	July			April-July		
			2018-19 (P)	2019-20 (Target)	2019-20 (P)	2018-19 (P)	2019-20 (Target)	2019-20 (P)
(a) Gross production	32,649	32,873	2,714	2,880	2,718	10,782	11,321	10,749
- ONGC	23,429	24,675	2,045	2,119	2,023	7,951	8,386	8,151
- Oil India Limited (OIL)	2,881	2,722	231	288	236	900	1,131	916
- Private / Joint Ventures (JVs)	6,338	5,477	437	473	459	1,931	1,804	1,682
(b) Net availability (excluding flare gas and loss)	31,731	32,056	2,652		2,639	10,526		10,438
(c) LNG import	27,439	28,692	2,510		2,738	9,993		10,655
(d) Total consumption including internal consumption (b+c)	59,170	60,747	5,162		5,376	20,519		21,093
(e) Total consumption **(in BCM)**	59.2	60.7	5.2		5.4	20.5		21.1
(f) Import dependency based on consumption (%), {c/d*100}	46.4	47.2	48.6		50.9	48.7		50.5

Note: June-July 2019 private import (LNG) quantity is prorated on the basis of June 2018-May 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	July 2019 (P)	55.9	MMSCM
Production of CBM gas	April-July 2019 (P)	219.9	MMSCM

19. Major natural gas pipeline network as on 01.08.2019

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 01.07.2019	Capacity utilisation in % April-July 2019 (P)
Dahej	Petronet LNG Ltd (PLL)	15 MMTPA	108.8%
Hazira	Shell Energy India Pvt. Ltd.	5 MMTPA	97.1%
Dabhol	RGPPL (GAIL - NTPC JV)	1.692 MMTPA*	3.0%
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	13.7%
Total Capacity		**26.7 MMTPA**	

* To increase to 5 MMTPA with breakwater

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.08.2019

State	Entity operating	Geographical area/City	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
Andhra Pradesh	Bhagyanagar Gas Ltd, Godavari Gas Pvt.Ltd., Megha Engineering & Infrastructures Ltd.	Kakinada, Vijaywada, East/West Godavari, Krishna district GA (excluding areas already authorized)	46	19,920	36,995	140	5
Assam	Assam Gas Co. Ltd	Upper Assam GA	0	0	33,398	1,095	402
Bihar	GAIL (India) Ltd.	Patna	2	1,321	371	1	0
Chandigarh	Indian Oil-Adani Gas Pvt. Ltd.	Chandigarh	7	7,500	12,596	4	1
Daman and Diu	Indian Oil-Adani Gas Pvt. Ltd.	Daman	3	1,000	592	22	13
Delhi	Indraprastha Gas Ltd .	NCT of Delhi (Including Noida & Ghaziabad)	486	10,76,461	11,56,495	2,657	1,948
Gujarat & DNH	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	558	9,53,705	21,06,984	18,894	4,962

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.08.2019							
State	**Entity operating**	**Geographical area/City**	**CNG stations**	**No. of CNG vehicles**	**PNG connections**		
					Domestic	**Commercial**	**Industrial**
Haryana	Haryana City Gas Distribution Ltd., Adani Gas Ltd., GAIL Gas Ltd., Indraprastha Gas Ltd. , Indian Oil-Adani Gas Pvt. Ltd.	Sonipat, Faridabad, Gurgaon, Rewari, Panipat, Nuh & Palwal, Karnal	80	1,61,436	115,194	287	525
Karnataka	Gail Gas Ltd., Megha Engineering & Infrastructures Ltd.	Bengaluru rural and urban districts GA, Tumkur district GA, Belgaum district GA, Dharwad	17	1,257	23,508	156	85
Kerala	Indian Oil-Adani Gas Pvt. Ltd.	Ernakulam	5	1100	1,182	10	2
Madhya Pradesh	Aavantika Gas Ltd, GAIL Gas Ltd	Dewas, Vijaipur, Gwalior GA, Indore GA including Ujjain city	43	36,373	65,147	143	246
Maharashtra	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	324	9,51,982	15,18,203	4,142	271

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.08.2019

State	Entity operating	Geographical area/City	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
Odisha	GAIL (India) Ltd.	Khordha district GA, Cuttack district GA	6	2,925	312	0	0
Punjab	IRM Energy Pvt. Ltd., GSPL	Fatehgarh Sahib, Amritsar	8	2,382	795	1	14
Rajasthan	Rajasthan State Gas Limited	Kota, Neemrana & Kukas	6	11,297	4,192	13	16
Telangana	Bhagyanagar Gas Ltd.	Hyderabad	47	25,174	13,021	12	23
Tripura	Tripura Natural Gas Co. Ltd	Agartala	8	12,026	40,864	424	49
Uttar Pradesh	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, Dibiyapur, 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	143	1,59,115	1,86,918	531	659
Uttarakhand	Indian Oil-Adani Gas Pvt. Ltd.	Udham Singh Nagar, Haridwar district GA	1	150	1,846	4	10
West Bengal	Great Eastern Energy Corporation Ltd.	Kultora, Asansol, Raniganj, Durgapur	7	3,834	0	0	0
Total			**1,797**	**34,28,958**	**53,18,613**	**28,536**	**9,231**

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

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

International FOB prices/ Exchange rates ($/bbl)

Particulars	2017-18	2018-19	July 2019
Crude oil (Indian Basket)	56.43	69.88	63.63
Petrol	67.83	75.58	71.10
Diesel	68.19	82.51	76.84
Kerosene	67.65	82.24	76.67
LPG ($/MT)	485.92	526.00	363.00
FO ($/MT)	327.50	420.93	415.77
Naphtha ($/MT)	494.73	573.72	490.30
Exchange (Rs./$)	64.45	69.89	68.81

Customs, excise duty & GST rates

Product	Basic customs duty #	Excise duty	GST rates
Petrol	2.50%	Rs 19.98/Ltr	**
Diesel	2.50%	Rs 15.83/Ltr	**
PDS SKO	Nil	Not Applicable	5.00%
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)	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	**

*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 liue 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.

Price buildup of petroleum products (Rs./litre/Cylinder)

Particulars	Petrol*	Diesel*
Price charged to dealers (excluding Excise Duty and VAT)	33.16	37.47
Excise Duty	19.98	15.83
Dealers' Commission (Average)	3.55	2.49
VAT (incl VAT on dealers' commission)	15.30	9.64
Retail Selling Price	**71.99**	**65.43**

Particulars	PDS SKO*	Sub. Dom LPG*
Price before taxes and dealers'/distributors' commission	29.05	490.92
Dealers'/distributors' commission	2.60	56.20
GST (incl GST on dealers'/distributors' commission)	1.58	27.38
Retail Selling Price	**33.23**	**574.50**

*Petrol and diesel at Delhi as per IOCL are as on 16th August 2019. PDS SKO at Mumbai and Sub. Dom LPG at Delhi are as on 16th August 2019 & 1st August 2019 respectively.

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	0.43	160	0.50	190
Domestic LPG	9.87	1380	5.15	720
Total	-	**1,540**	-	**910**

Note: The above calculations are based on RTP for August 2019.

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
Total	**4,785**	**6,067**	**940**

#DBTK subsidy excludes cash incentive/assistance for establishment of institutional mechanisam 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^	25	92	30
Total	**20,905**	**31,539**	**7,954**

PMUY (Pradhan Mantri Ujjwala Yojana)

Particulars	2017-18	2018-19	Q1, 2019-20
	Rs./Crore		
PMUY claims	2,496	5,649	207
PME & IEC^	63	34	42
Total	**2,559**	**5,683**	**249**

^ 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%
Total (Rs. Crores)	**5,24,945**	**5,54,404**	**5,95,438**

Subsidy as a percentage of GDP (at current prices)

Particulars	2015-16	2016-17	2017-18
Petroleum subsidy	0.25	0.18	0.17

Note: 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-July
ONGC Ltd	28,010	72,383	28,738	32,921	7,019
ONGC Videsh Ltd (OVL)	18,360	6,240	6,013	5,161	1,809
Oil India Ltd (OIL)	10,514	8,395	3,702	4,105	958
GAIL (India) Ltd	2,180	3,613	5,958	5,339	867
Indian Oil Corp. Ltd. (IOCL)	21,918	20,345	26,548	25,084	6,453
Hindustan Petroleum Corp. Ltd (HPCL)	5,861	7,134	11,689	9,500	3,534
Bharat Petroleum Corp. Ltd (BPCL)	16,810	8,161	10,084	7,900	2,322
Mangalore Refinery & Petrochem Ltd (MRPL)	614	1,281	1,072	818	472
Chennai Petroleum Corp. Ltd (CPCL)	1,293	963	1,208	1,105	323
Numaligarh Refinery Ltd (NRL)	500	387	459	455	37
Balmer Lawrie Co. Ltd (BL)	73	78	125	40	6
Engineers India Ltd (EIL) #	-	-	87	1212	39
Total	**106,133**	**128,981**	**95,684**	**93,639**	**23,838**

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional;

Included from 2018-19.

25. Conversion factors and volume conversion

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
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

Volume conversion

From	To
1 US Barrel (bbl)	159 litres
1 US Barrel (bbl)	42 US Gallons
1 US Gallon	3.78 litres
1 Kilo litre (KL)	6.29 bbl
1 Million barrels per day	49.8 MMTPA

Energy conversion

1 Kilocalorie (kcal)	4.187 kJ
1 Kilocalorie (kcal)	3.968 Btu
1 Kilowatt-hour (kWh)	860 kcal
1 Kilowatt-hour (kWh)	3,412 Btu

Natural 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