Ready Reckoner

Snapshot of India's Oil & Gas data

June, 2018

Analysis • Knowledge • Information

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

As on 30.07.2018

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Highlights for the month

- Indigenous crude oil and condensate production during June 2018 was lower by 3.4% than that of June 2017. PSC fields registered de-growth of 1.7% during the month over June 2017 while PSU companies registered de-growth of 4.0%. On cumulative basis de-growth of 2.4% was registered during April-June 2018 over the corresponding period of the previous year.
- Total crude oil processed during June 2018 was 21.9 MMT, which was an increase of 9.1% over June 2017. PSU/JV refineries registered 13.3% increase while private refineries registered 1.7% increase in crude oil processed during the month over June 2017. Indian refineries processed 79.0% high sulphur crude oil during June 2018 against 71.3% during June 2017. On cumulative basis an increase of 5.0% was registered in total crude processed during April-June 2018 over the corresponding period of the previous year.
- Production of petroleum products during June 2018 saw a growth of 12.0% over June 2017. Production of LPG and MS increased by around 10% each, diesel by 16% and ATF by 18% during June 2018 as compared to June 2017. On cumulative basis an increase of 6.6% was registered in total production of petroleum products during April-June 2018 over the corresponding period of the previous year.
- Crude oil imports increased by 10.3% during June 2018 as compared to June 2017. On cumulative basis, crude oil imports increased by 5.6% during April-June 2018 as compared to April-June 2017.
- Product imports increased by 7.3% and 5.5% during June 2018 and April-June 2018 respectively as compared to the corresponding period of the previous year. Increase in POL product imports during April-June 2018 was mainly due to increase in imports of LPG, naphtha and fuel oil.
- Product exports increased by 7.2% during June 2018 as compared to June 2017. However during April-June 2018, exports decreased by 9.4% as compared to the corresponding period of the previous year. Decrease in POL product exports during April-June 2018 was mainly due to decrease in exports of MS and HSD.
- Petroleum product consumption registered a growth of 8.7% during June, 2018 and a cumulative growth of 5.1% during April-June 2018. Last year during June, 2017, a growth of 0.1% and cumulative growth of 3.3% during the period April-June 2017 was observed. Except for SKO (-12.1%), FO/LSHS (-2.8%) and products in ‘others’ category (-2.2%), all other products registered positive growth during June, 2018.

•	Total LPG consumption continuously for the last fifty eight months in a row recorded a positive growth of 2.6% during June, 2018 and a cumulative growth of 9.6% for the period April-June 2018 was observed. This year during the period April-June 2018, 13.2 lakh DBCs and 115.3 lakh new connections were released out of which 92.6 lakh were released under PMUY. Nearly 30.7 lakh new connections have been released more during the current year in this period compared to last year. Total 448.6 lakh connections were released under PMUY till 30.06.2018 since inception. Out of the five regions, Northern region had the highest share in consumption at 30.0%, followed by Southern region at 29.5%, Western region at 22.2%, Eastern region at 15.6% and North Eastern region at 2.6% during the period June 2018. North Eastern region had the highest growth of 17.1% in total LPG consumption during the period June 2018.
•	SKO consumption registered a de-growth of -12.1% during June, 2018 as compared to de-growth of -32.9% during June, 2017. This was mainly because of reduced Q1, 2018-19 allocation to the states and voluntary surrender of PDS SKO quota by Haryana, Punjab, Dadra & Nagar Haveli, Daman & Diu, Puducherry, Andhra Pradesh and Gujarat.
•	Gross production of natural gas for the month of June 2018 was 2677.9 MMSCM which was lower by 2.8% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 8068.9 MMSCM for the current financial year till June 2018 was higher by 0.1% compared with the corresponding period of the previous year.
•	LNG import for the month of June 2018 was 2429.9 MMSCM which was 34.2% higher than the corresponding month of the previous year. The cumulative import of 6970.1 MMSCM for the current year till June 2018 was higher by 17.6% compared with the corresponding period of the previous year.
•	The price of Brent Crude averaged $74.33/bbl during June, 2018 as against $76.93/bbl during May, 2018 and $46.52/bbl during June, 2017. The Indian basket crude averaged $73.85/bbl during June, 2018 as against $75.31/bbl during May, 2018 and $ 46.56/bbl during June, 2017.
•	The import bill of crude oil is estimated to increase by 23% from $88 billion in 2017-18 to $108 billion in 2018-19 considering average Indian basket crude oil price of $65/bbl and $/Rs = 65 for 2018-19.

1. Selected indicators of the Indian economy

	Economic indicators	Unit/ Base	2013-14	2014-15	2015-16	2016-17	2017-18 (P)
1	Population (as on 1st May, 2011)	Billion	1.2	-	-	-	-
2	GDP at constant (2011-12 Prices)	Growth %	6.4	7.4	8.2	7.1	6.7 PE
3	Agricultural Production (Food grains)	MMT	265.0	252.0	251.6	275.1 FE	279.5 3rd AE
		Growth %	3.1	-4.9	-0.2	9.4	1.6
4	Gross Fiscal Deficit	%	-4.5	-4.1	-3.9	-3.5	-3.5 RE

	Economic indicators	Unit/ Base	2016-17	2017-18 (P)	June (P)		April-June (P)	
					2017-18	2018-19	2017-18	2018-19
5	Index of Industrial Production (Base: 2011-12)	Growth %	4.6	4.3	2.9#	3.2#	3.1*	4.0*
6	Imports	$ Billion	384.4	465.6	36.5	44.3	112.3	127.4
7	Exports	$ Billion	275.9	303.4	23.6	27.7	72.2	82.5
8	Trade Balance	$ Billion	-108.5	-162.2	-13.0	-16.6	-40.1	-44.9
9	Foreign Exchange Reserves @	$ Billion	370.0	424.4	386.5	406.1		

IIP is for the month of #May and *April-May; @2016-17-as on March 31, 2017, 2017-18-as on March 30, 2018, June 2017- as on June 30, 2017 and June 2018-as on June 29, 2018; AE-Advanced Estimates; RE-Revised Estimates; PE-Provisional Estimates; FE-Final Estimates.

Source: Ministry of Commerce & Industry (MoC&I), Ministry of Agriculture & Farmer's Welfare (MoA&FW), Reserve Bank of India (RBI)

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

	Details	Unit/ Base	2016-17	2017-18 (P)	June (P)		April-June (P)	
					2017-18	2018-19	2017-18	2018-19
1	Crude oil production in India	MMT	36.0	35.7	3.0	2.9	9.0	8.8
2	Consumption of petroleum products	MMT	194.6	204.9	16.6	18.0	51.6	54.2
3	Production of petroleum products	MMT	243.5	254.3	20.2	22.7	61.1	65.1
4	Imports & exports:							
	Crude oil imports	MMT	213.9	220.4	17.7	19.5	53.7	56.7
		$ Billion	70.2	87.8	5.8	10.3	18.8	28.9
	Petroleum products (POL) imports	MMT	36.3	35.9	2.8	3.0	8.5	9.0
		$ Billion	10.6	13.4	0.9	1.3	2.8	4.0
	Gross petroleum imports (Crude + POL)	MMT	250.2	256.3	20.5	22.5	62.2	65.7
		$ Billion	80.8	101.2	6.8	11.6	21.6	32.9
	Petroleum products exports	MMT	65.5	66.8	5.0	5.3	15.1	13.7
		$ Billion	29.0	34.9	2.2	3.6	7.1	9.1
	LNG imports	$ Billion	6.1	7.8	0.5	0.8	1.5	2.3
5	Petroleum imports as percentage of India's gross imports (in value terms)	%	21.0	21.7	18.5	26.1	19.3	25.8
6	Petroleum exports as percentage of India's gross exports (in value terms)	%	10.5	11.5	9.3	12.8	9.8	11.0
7	Import dependency of crude (on consumption basis)	%	81.7	82.8	81.1	83.8	82.7	83.8

3. Indigenous crude oil production (Million Metric Tonnes)

Details	2016-17	2017-18	June			April-June		
			2017-18	2018-19 (Target)*	2018-19 (P)	2017-18	2018-19 (Target)*	2018-19 (P)
ONGC	20.9	20.8	1.7	1.7	1.6	5.3	5.2	5.0
Oil India Limited (OIL)	3.3	3.4	0.3	0.3	0.3	0.8	0.9	0.8
Private / Joint Ventures (JVs)	10.4	9.9	0.8	0.8	0.8	2.5	2.5	2.5
Total Crude Oil	**34.5**	**34.0**	**2.9**	**2.9**	**2.7**	**8.6**	**8.6**	**8.4**
ONGC condensate	1.4	1.5	0.1	0.1	0.1	0.3	0.3	0.4
PSC condensate	0.1	0.2	0.02	0.01	0.02	0.05	0.04	0.06
Total condensate	**1.5**	**1.6**	**0.1**	**0.1**	**0.1**	**0.4**	**0.4**	**0.4**
Total (Crude + Condensate) (MMT)	**36.0**	**35.7**	**3.0**	**3.0**	**2.9**	**9.0**	**8.9**	**8.8**
Total (Crude + Condensate) (Million Bbl)	**263.9**	**261.6**	**21.9**	**21.8**	**21.1**	**66.1**	**65.5**	**64.6**

*Target is inclusive of condensate. **Note:** Some sub-totals/ totals may not add-up due to rounding off at individual levels

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

Details	2016-17	2017-18 (P)	June (P)		April-June (P)	
			2017-18	2018-19	2017-18	2018-19
Total domestic production (MMTOE)	67.9	68.3	5.7	5.6	17.1	16.9
Overseas production (MMTOE)	16.1	19.6	1.6	1.7	5.0	5.3
Overseas production as percentage of domestic production	**23.8%**	**28.7%**	**28.7%**	**31.2%**	**29.4%**	**31.5%**

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

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

Details		2016-17	2017-18	June		April-June	
				2017-18	2018-19 (P)	2017-18	2018-19 (P)
1	High Sulphur crude	177.4	188.4	14.3	17.3	44.5	48.9
2	Low Sulphur crude	67.9	63.6	5.8	4.6	16.4	15.1
Total crude processed		**245.4**	**251.9**	**20.0**	**21.9**	**60.9**	**64.0**
Percentage share of HS crude in total crude oil processing		**72.3%**	**74.8%**	**71.3%**	**79.0%**	**73.1%**	**76.5%**

6. Quantity and value of crude oil imports			
Year	Quantity (MMT)	$ Million	Rs. Crore
2017-18 (P)	220.43	87,776	5,65,951
2018-19 (Estimated)	226.88	108,098	7,02,639

Note: Imports are estimated considering average crude oil price $ 65/bbl and exchange rate Rs. 65/$ for 2018-19.

Impact of variation in crude oil price & exchange rate on value of crude oil imports for 2018-2019 :

If crude prices changes by one $/bbl - Crude oil import bill changes by Rs. 10,810 crores

If exchange rate of Rs./$ changes by Rs. 1/$ - Crude oil import bill changes by Rs. 10,810 crores

7. Self-sufficiency in petroleum products (Million Metric Tonnes)							
Particulars		2016-17	2017-18 (P)	June (P)		April-June (P)	
				2017-18	2018-19	2017-18	2018-19
1	Indigenous crude oil processing	33.5	32.8	3.0	2.7	8.4	8.2
2	Products from indigenous crude (93.3% of crude oil processed)	31.3	30.6	2.8	2.5	7.9	7.6
3	Products from fractionators (Including LPG and Gas)	4.3	4.6	0.4	0.4	1.1	1.2
4	Total production from indigenous crude & condensate **(2 + 3)**	35.6	35.2	3.1	2.9	8.9	8.8
5	Total domestic consumption	194.6	204.9	16.6	18.0	51.6	54.2
% Self-sufficiency (4 / 5)		**18.3%**	**17.2%**	**18.9%**	**16.2%**	**17.3%**	**16.2%**

8. Refineries: Installed capacity and crude oil processing (MMTPA / MMT)										
Company	Refinery	Installed capacity (1.7.2018) (MMTPA)	Crude oil processing (MMT)							
			2016-17	2017-18	June			April-June		
					2017-18 (Actual)	2018-19 (Target)*	2018-19 (P)	2017-18 (Actual)	2018-19 (Target)*	2018-19 (P)
IOCL	Barauni (1964)	6.0	6.5	5.8	0.6	0.6	0.5	1.6	1.7	1.6
	Koyali (1965)	13.7	14.0	13.8	0.8	1.0	1.2	3.1	3.2	3.6
	Haldia (1975)	7.5	7.7	7.7	0.7	0.6	0.7	2.0	1.8	2.0
	Mathura (1982)	8.0	9.2	9.2	0.8	0.8	0.8	2.4	2.3	2.5
	Panipat (1998)	15.0	15.6	15.7	1.3	1.3	1.3	4.0	3.9	4.1
	Guwahati (1962)	1.0	0.86	1.02	0.06	0.08	0.09	0.24	0.24	0.27
	Digboi (1901)	0.65	0.53	0.67	0.05	0.05	0.06	0.16	0.16	0.17
	Bongaigaon(1979)	2.35	2.5	2.4	0.2	0.2	0.2	0.6	0.5	0.6
	Paradip (2016)	15.0	8.2	12.7	1.3	1.2	1.2	3.3	3.1	2.8
	IOCL TOTAL	**69.2**	**65.2**	**69.0**	**5.7**	**5.8**	**6.1**	**17.5**	**17.0**	**17.7**
CPCL	Manali (1969)	10.5	9.8	10.3	0.9	0.9	0.9	2.5	2.6	2.5
	CBR (1993)	1.0	0.53	0.50	0.05	0.04	0.04	0.13	0.11	0.11
	CPCL-TOTAL	**11.5**	**10.3**	**10.8**	**1.0**	**0.9**	**0.9**	**2.6**	**2.7**	**2.6**
BPCL	Mumbai (1955)	12.0	13.5	14.1	1.1	1.2	1.3	3.1	3.4	3.7
	Kochi (1966)	15.5	11.8	14.1	1.1	1.3	1.3	3.3	4.0	4.0
BORL	Bina (2011)	6.0	6.4	6.7	0.6	0.6	0.6	1.8	1.7	1.7
NRL	Numaligarh (1999)	3.0	2.7	2.8	0.2	0.2	0.2	0.7	0.7	0.7
	BPCL-TOTAL	**36.5**	**34.4**	**37.7**	**3.1**	**3.3**	**3.4**	**8.8**	**9.8**	**10.2**

Company	Refinery	Installed capacity (1.7.2018) (MMTPA)	Crude oil processing (MMT)							
			2016-17	2017-18	June			April-June		
					2017-18 (Actual)	2018-19 (Target)*	2018-19 (P)	2017-18 (Actual)	2018-19 (Target)*	2018-19 (P)
ONGC	Tatipaka (2001)	0.066	0.085	0.080	0.008	0.003	0.003	0.021	0.013	0.016
MRPL	Mangalore (1996)	15.0	16.0	16.1	1.4	1.3	1.4	4.0	3.9	3.9
	ONGC TOTAL	**15.1**	**16.1**	**16.2**	**1.4**	**1.4**	**1.4**	**4.0**	**3.9**	**3.9**
HPCL	Mumbai (1954)	7.5	8.5	8.6	0.7	0.7	0.7	2.1	2.1	2.1
	Visakh (1957)	8.3	9.3	9.6	0.8	0.8	0.8	2.4	2.4	2.4
HMEL	Bathinda (2012)	11.3	10.5	8.8	0.0	0.9	1.0	0.8	2.7	3.1
	HPCL- TOTAL	**27.1**	**28.3**	**27.1**	**1.5**	**2.4**	**2.5**	**5.3**	**7.3**	**7.6**
RIL	Jamnagar (DTA) (1999)	33.0	32.8	33.2	2.6	2.6	2.7	8.0	8.0	8.2
	Jamnagar (SEZ) (2008)	35.2	37.4	37.3	3.1	3.1	3.1	9.5	9.5	8.6
NEL#	Vadinar (2006)	20.0	20.9	20.7	1.7	1.7	1.7	5.1	5.0	5.2
All India		**247.6**	**245.4**	**251.9**	**20.0**	**21.2**	**21.9**	**60.9**	**63.2**	**64.0**

*Targets are as recived from oil companies. RIL target for 2018-19 is previous year crude processing; #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

Details		ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Others*	Total
Crude Oil	Length (KM)	1,191	1,193	688	1,017	5,301	937	-	-	**10327**
(as on 1.7.2018)	Cap (MMTPA)	58.5	8.4	10.7	11.3	48.6	6.0	-	-	**143.5**
Products	Length (KM)	-	654	-	-	7,950	1,948	3,371	2,688	**16611**
(as on 1.7.2018)	Cap (MMTPA)	-	1.7	-	-	46.2	16.2	38.1	9.3	**111.5**

***Other** includes GAIL and Petronet India. HPCL and BPCL lubes pipeline included in products pipeline data

10. Gross Refining Margins (GRM) of refineries ($/bbl)					
Company	**Refinery**	**2014-15**	**2015-16**	**2016-17**	**2017-18**
IOCL	Barauni	-1.20	2.93	6.52	6.60
	Koyali	4.79	6.80	7.55	9.44
	Haldia	-1.51	3.96	6.80	6.86
	Mathura	-2.19	3.30	7.01	7.09
	Panipat	-1.97	4.15	7.95	7.74
	Guwahati **	8.68	15.88	22.14	21.88
	Digboi **	13.73	16.17	24.49	24.86
	Bongaigaon **	-0.26	11.09	20.15	20.62
	Paradip #	-	-0.65	4.22	7.02
	Weighted average	**0.27**	**5.06**	**7.77**	**8.49**
BPCL	Kochi	3.17	6.87	5.16	6.44
	Mumbai	3.97	6.37	5.36	7.26
	Weighted average	**3.62**	**6.59**	**5.26**	**6.85**
HPCL	Mumbai	4.88	8.09	6.95	8.35
	Visakhapatnam	1.12	5.46	5.51	6.55
	Weighted average	**2.84**	**6.68**	**6.20**	**7.40**
CPCL	Chennai	1.97	5.27	6.05	6.42
MRPL	Mangalore	-0.64	5.20	7.75	7.54
NRL	Numaligarh **	16.67	23.68	28.56	31.92
BORL	Bina	6.10	11.70	11.80	11.70
RIL	Jamnagar	8.60	10.80	11.00	11.60
NEL@	Vadinar	8.37	10.81	9.14	*

*Accounts not finalised till date.; ** 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	2014-15	2015-16	2016-17	2017-18
IOCL	Guwahati	0.96	1.26	1.12	3.70
	Digboi	5.42	4.16	7.73	8.27
	Bongaigaon	-6.51	0.08	6.03	6.22
NRL	Numaligarh	9.46	8.06	8.50	11.43

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

Products	2017-18		June 2017		June 2018 (P)		April-June 2017		April-June 2018 (P)	
	Prod	Cons (P)	Prod	Cons (P)	Prod	Cons	Prod	Cons (P)	Prod	Cons
LPG	12.4	23.3	1.0	1.9	1.1	1.9	2.9	5.3	3.2	5.8
MS	37.8	26.2	3.1	2.1	3.4	2.4	9.4	6.6	9.7	7.1
NAPHTHA	19.9	12.5	1.7	1.0	1.6	1.1	5.1	3.0	4.7	3.3
ATF	14.7	7.6	1.1	0.6	1.3	0.7	3.4	1.8	3.8	2.1
SKO	4.3	3.8	0.4	0.4	0.4	0.3	1.1	1.0	1.1	0.9
HSD	108.0	81.1	8.4	6.8	9.8	7.3	25.8	21.3	27.8	22.0
LDO	0.5	0.5	0.03	0.03	0.04	0.04	0.1	0.1	0.1	0.1
LUBES	1.0	3.8	0.1	0.3	0.1	0.3	0.2	0.8	0.3	0.9
FO/LSHS	10.3	6.8	0.9	0.5	0.7	0.5	2.5	1.8	2.0	1.6
BITUMEN	5.3	6.0	0.4	0.5	0.5	0.6	1.6	1.7	1.7	2.0
PET COKE	13.9	26.2	1.1	2.0	1.2	2.2	3.3	6.4	3.5	6.5
OTHERS	26.4	7.1	2.0	0.6	2.6	0.6	5.8	1.8	7.3	1.9
ALL INDIA	**254.3**	**204.9**	**20.2**	**16.6**	**22.7**	**18.0**	**61.1**	**51.6**	**65.1**	**54.2**
Growth (%)	**4.5%**	**5.3%**	**-0.1%**	**0.1%**	**12.0%**	**8.7%**	**1.8%**	**3.3%**	**6.6%**	**5.1%**

Note: Prod - Production; Cons - Consumption

13. LPG consumption (Thousand Metric Tonne)

LPG category	2016-17	2017-18 (P)	June 2018 (P)			April-June (P)		
			2017-18	2018-19	Gr (%)	2017-18	2018-19	Gr (%)
1. PSU Sales :								
LPG-Packed Domestic	18871.4	20,351.8	1633.9	1681.3	2.9	4,638.6	5,083.4	9.6
LPG-Packed Non-Domestic	1775.9	2,085.8	158.5	179.8	13.5	453.2	545.9	20.5
LPG-Bulk	364.3	354.4	32.5	28.2	-13.1	79.1	88.7	12.1
Auto LPG	167.3	184.3	14.8	15.4	4.0	44.9	45.6	1.4
Sub-Total (PSU Sales)	**21,178.9**	**22,976.4**	**1,839.7**	**1,904.8**	**3.5**	**5,215.9**	**5,763.5**	**10.5**
2. Direct Private Imports	429.3	367.0	45.5	29.1	-36.0	116.6	79.0	-32.2
Total (1+2)	**21,608.2**	**23,343.3**	**1,885.2**	**1,933.9**	**-32.5**	**5,332.5**	**5,842.6**	**9.6**

14. Kerosene allocation vs upliftment (Kilo Litres)

Product	2014-15		2015-16		2016-17		2017-18		2018-19 (Q1) (P)	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
PDS Kerosene	89,75,538	88,78,352	86,85,384	85,36,752	69,33,030	66,78,447	50,21,828	46,69,164	11,74,808	11,04,241

15. Industry marketing infrastructure (as on 01.07.2018) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL	NEL##	SHELL	Others	Total
POL Terminal/ Depots **(Nos.)$**	125	78	82	18	2	-	6	**311**
Aviation Fuel Stations **(Nos.)@**	108	52	42	28	-	-	1	**231**
Retail Outlets (total) **(Nos.)^**	27,185	14,478	15,127	1,400	4,629	111	6	**62,936**
out of which, Rural ROs	7,596	2,629	3,336	127	1,650	15	-	**15,353**
SKO/LDO agencies **(Nos.)**	3,892	1,001	1,638	-	-	-	-	**6,531**
LPG Distributors (total) **(Nos.) (PSUs only)**	10,363	5,232	4,990	-	-	-	-	**20,585**
LPG Bottling plants **(Nos.) (PSUs only)#**	91	50	48	-	-	-	1	**190**
LPG Bottling capacity **(TMTPA) (PSUs only)&**	9,434	3,933	4,047	-	-	-	30	**17,444**
LPG active domestic consumers **(Nos. crore) (PSUs only)**	11.1	6.0	6.4	-	-	-	-	**23.5**

$(RIL= 5 terminals and 13 mini depots, Others=4 MRPL & 2 NRL); @(Others=ShellMRPL -1); ^(Others=MRPL-6); #(Others=NRL-1); &(Others=NRL-30); ##Nayara Energy Limited (formerly Essar Oil Limited).

16. Natural gas at a glance

(MMSCM)

Details	2016-17	2017-18	June			April-June		
			2017-18	2018-19 (Target)	2018-19 (P)	2017-18	2018-19 (Target)	2018-19 (P)
(a) Gross production	31,897	32,648	2,756	2,931	2,678	8,058	8,674	8,069
- ONGC	22,088	23,429	1,975	2,121	1,953	5,729	6,261	5,906
- Oil India Limited (OIL)	2,937	2,881	237	264	220	724	785	669
- Private / Joint Ventures (JVs)	6,872	6,338	544	546	505	1,605	1,628	1,493
(b) Net availability (excluding flare gas and loss)	30,848	31,731	2,674		2,613	7,827		7,874
(c) LNG import	24,686	26,328	1,811		2,430	5,929		6,970
(d) Total consumption including internal consumption (b+c)	55,534	58,059	4,485		5,043	13,756		14,844
(e) Total consumption **(in BCM)**	55.5	58.1	4.5		5.0	13.8		14.8
(f) Import dependency based on consumption (%), {c/d*100}	44.5	45.3	40.4		48.2	43.1		47.0

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

17. 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	June 2018 (P)	58.2	MMSCM
Production of CBM gas	April-June 2018 (P)	183.8	MMSCM

18. Major natural gas pipeline network as on 01.07.2018

Nature of pipeline		GAIL	Reliance	GSPL	ARN	IOCL	Total
Natural gas	Length (KM)	11,410	1,784	2,620	817	140	**16,771**
	Cap (MMSCMD)*	229.5	83.5	43.0	3	9.5	**368.7**

*GAIL's pipeline capacity is inclusive of CJPL (5 MMSCMD) and DBPL (31 MMSCMD) which is the extension of DVPL-2 / VDPL.

19. Gas pipelines under execution / construction as on 01.07.2018

Network/ Region	Entity	Length sanctioned (KM)	Design capacity (MMSCMD)	Pipeline size
Kochi-Kottanad-Bengaluru-Mangalore	GAIL (India) Ltd	1,056	16	24"/18"/12"
Dabhol - Bengaluru (DBPL)	GAIL (India) Ltd	302	16	36"/30"/24"/18"
Jagdishpur- Haldia-Bokaro-Dhamra	GAIL (India) Ltd	2,539	16	30"/24"/18"/12"/8"/4"
Mallavaram – Bhopal - Bhilwara	GSPC India Transco Ltd	2,042	78.25	42"/36"/30"/24"/18"/12"
Mehsana - Bathinda	GSPC India Gasnet Ltd	2,052	77.11	36"/24"/18"/12"
Bathinda - Jammu - Srinagar	GSPC India Gasnet Ltd	725	42.42	24"/18"/16"/12"/8"/6"
Kakinada - Vizag - Srikakulam	AP Gas Distribution Co.	391	90	24"/18"/8"/4"
Ennore - Nellore	Gas Transmission India Pvt.	250	36	24"/18"
Ennore-Thiruvallur-Bengaluru-Puducherry-Nagapattinam-Madurai-Tuticorin	Indian Oil Corporation Limited	1,385	84.67	28"/24"/16"/12" /10"
Jaigarh-Mangalore	H-Energy Pvt. Ltd	635	17	24"
Total		**11,377**		

20. Existing LNG terminals

Location	Promoters	Capacity (MMTPA) as on 01.06.2018	Capacity utilisation in % April-May 2018 (P)
Dahej	Petronet LNG Ltd (PLL)	15 MMTPA	110.5
Hazira	Hazira LNG Pvt Ltd (HLPL)	5 MMTPA	85.6
Dabhol	RGPPL (GAIL - NTPC JV)	1.692 MMTPA*	3.4
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	9.7
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 01.07.2018

State	Entity operating	Geographical area	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
Haryana	Haryana City Gas Distribution Ltd, Adani Gas Limited, GAIL Gas Ltd., Indraprastha Gas Ltd. , Indian Oil-Adani Gas Pvt. Ltd.	Sonepat, Faridabad, Gurgaon, Rewari, Panipat	52	1,26,627	80,220	250	375
Andhra Pradesh	Bhagyanagar Gas Ltd, Godavari Gas Pvt.Ltd., Megha Engineering & Infrastructures Ltd.	Kakinada, Vijayawada, East/ West Godavari, Krishna	25	18,418	17,614	56	1
Gujarat	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, Sabarkantha and Patan, Surat-Bharuch-Ankleswar GA, Nadiad GA,Navsari GA, Rajkot GA, Surendra Nagar GA, Hazira GA, Valsad GA, Jamnagar GA, Bhavnagar GA, Kutch (West) GA, UT of Dadra and Nagar Haveli GA, Amreli District GA, Dahej-Vagra Taluka GA, Dahod District GA, Panchmahal District GA, Anand (Exclusive area authorised) district GA, Ahmedabad (Excluding area already authorised) district GA, Vadodara, Vadodara Rural and Ahmedabad Urban, Anand and Palanpur	459	9,39,930	18,88,382	18,035	4,622

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.07.2018							
State	**Entity operating**	**Geographical area**	**CNG stations**	**No. of CNG vehicles**	**PNG connections**		
					Domestic	**Commercial**	**Industrial**
Telangana	Bhagyanagar Gas Ltd.	Hyderabad	33	24,518	7,778	9	5
Assam	Assam Gas Co. Ltd	Tinsukia, Dibrugarh, Sibsagar, Jorhat, Golaghat	0	0	31,843	1,048	409
Madhya Pradesh	Aavantika Gas Ltd, GAIL Gas Ltd	Dewas, Vijaipur, Indore including Ujjain, Gwalior, Pithampur	31	30,775	33,525	101	135
Rajasthan	Rajasthan State Gas Limited	Kota, Neemrana & Kukas	5	7,143	558	4	15
Delhi	Indraprastha Gas Ltd .	NCT of Delhi (Including Noida & Ghaziabad)	445	10,34,815	9,21,639	2,251	1,302
Karnataka	Gail Gas Ltd., Megha Engineering & Infrastructures Ltd.	Bengaluru, Tumkur	8	462	6,575	65	33
Chandigarh	IndianOil- Adani Gas	Chandigarh	4	4,000	28,976	0	0
Kerala	Indian Oil- Adani Gas	Ernakulam	4	100	9,053	3	0
Daman and Diu	Indian Oil- Adani Gas	Daman and Diu	2	550	2,690	21	8
Dadra & Nagar Haveli	Gujarat Gas Ltd.	Dadra & Nagar Haveli	3	460	729	9	10
Punjab	IRM Energy Pvt. Ltd.	Fatehgarh Sahib	1	77	26	0	4
Odisha	GAIL (India) Ltd.	Bhubaneswar	4	950	103	0	0
Uttarakhand	Indian Oil-Adani Gas Pvt. Ltd.	Udham Singh Nagar	0	0	1180	0	0

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.07.2018

State	Entity operating	Geographical area	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
Maharashtra	Mahanagar Gas Ltd, Maharashtra Natural Gas Ltd, Gujarat Gas Limited	Mumbai, Greater Mumbai including Thane City, 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 and Palghar and Thane Rural	272	8,27,022	12,55,934	3,838	232
Tripura	Tripura Natural Gas Co. Ltd	Agartala	6	10,842	35,545	415	49
West Bengal	Great Eastern Energy Corporation Ltd.	Kultora, Asansol, Raniganj, Durgapur	7	3,540	0	0	0
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.	Meerut, Dibiyapur, Mathura, Agra, Kanpur, Bareilly, Lucknow, Moradabad, Firozabad Geographical Area (TTZ), Khurja and Allahabad	85	1,40,899	1,21,108	413	623
Total			**1,446**	**31,71,128**	**44,43,478**	**26,518**	**7,823**

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	2.50	5.30
April 2017 - September 2017	2.48	5.56
October 2017 - March 2018	2.89	6.30
April 2018 - September 2018	3.06	6.78

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

International FOB prices/ Exchange rates ($/bbl)

Particulars	2016-17	2017-18	Jun-18
Crude oil (Indian Basket)	47.56	56.43	73.85
Petrol	58.10	67.83	81.52
Diesel	56.59	68.19	85.44
Kerosene	56.81	67.65	85.18
LPG ($/MT)	393.31	486.04	560.00
FO ($/MT)	258.92	327.50	439.31
Naphtha ($/MT)	415.17	494.73	617.76
Exchange (Rs./$)	67.09	64.45	67.79

Customs & excise duty rates (w.e.f. 02.02.2018)

Product	Basic Customs duty	Excise duty	GST rates
Petrol	2.50%	Rs 19.48/Ltr	**
Diesel	2.50%	Rs 15.33/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)	5.00%		18.00%
ATF	Nil	14% *	**
Crude Oil	Nil+Rs.50/ -MT as NCCD	Nil+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.*** 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)	37.40	40.54
Excise Duty	19.48	15.33
Dealer Commission (Average)	3.62	2.53
VAT (incl VAT on dealer commission)	16.34	10.07
Retail selling price (RSP) -Rounded	**76.84**	**68.47**
Particulars	**PDS SKO***	**Sub. Dom LPG***
Price before taxes and dealer/distributor commission	22.55	668.84
Dealer/distributor commission	2.04	49.25
GST (incl GST on dealer/distributor commission)	1.23	35.91
Retail Selling Price	**25.82**	**754.00**
Less: Cash Compensation on LPG to consumers under DBTL		257.74
Effective cost to consumer after subsidy		**496.26**

*Petrol and diesel at Delhi as per IOCL are as on 16th July, 2018. SKO at Mumbai is as on 16th July, 2018 and Sub. Dom LPG at Delhi is as on 1st July, 2018.

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	0.42	180	0.55	240
Domestic LPG	9.71	1300	7.90	1,060
Total	-	**1,480**	-	**1,300**

Note: The above calculations are based on RTP for July, 2018

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

Under-recoveries/subsidy & burden sharing

PDS Kerosene

Product	2016-17	2017-18
	Rs./Crore	
Under Recovery	7595	4672
Subsidy under DBTK #	11	113
Total	**7605**	**4785**

#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	2016-17	2017-18
	Rs./Crore	
DBTL subsidy	12,905	20,880
PME &IEC^	-	25
Total	**12,905**	**20,905**

PMUY (Pradhan Mantri Ujjwala Yojana)

Particulars	2016-17	2017-18
	Rs./Crore	
PMUY claims	2999	2496
PME & IEC^	-	63
Total	**2999**	**2559**

^ on payment basis

Sales & profit of petroleum sector (Rs. Crores)

2017-18	Turnover	PAT
Upstream/midstream Companies (PSU)	148,473	27,231
Downstream Companies (PSU)	1,017,028	35,622
Standalone Refineries (PSU)	120,430	5,181
Private-RIL	380,615	33,612

Borrowings of OMCs (Rs. Crores)

Company	As on Mar`16*	As on Mar`17	As on Mar`18
IOCL	52,880	54,820	58,030
BPCL	15,857	23,159	23,351
HPCL	21,167	21,250	20,991

*Regrouped as per Ind AS

Petroleum sector contribution to Central/State Govt.

Particulars	2015-16	2016-17	2017-18
Central Government	2,53,615	3,34,534	3,43,858
% of total revenue receipts	21%	24%	-
State Governments	1,60,209	1,89,770	2,09,155
% of total revenue receipts	8%	8%	-
Total (Rs. Crores)	**4,13,824**	**5,24,304**	**5,53,013**

Subsidy as a percentage of GDP (at current prices)

Particulars	2014-15	2015-16	2016-17
Petroleum subsidy	0.62	0.25	0.18

Note: GDP figure for 2014-15 and 2015-16 are Revised Estimates and 2016-17 are Provisional Estimates

24. Capital expenditure of PSU oil companies

(Rs in crores)

Company	2014-15	2015-16 (P)	2016-17 (P)	2017-18 (P)	2018-19	
					Target	April-June (P)
ONGC Ltd	29,997	29,502	28,010	72,383	32,077	5,821
ONGC Videsh Ltd (OVL)	7,172	6,783	18,360	6,240	5,886	1,073
Oil India Ltd (OIL)	3,774	3,550	10,514	8,395	4,300	677
GAIL (India) Ltd	1,632	1,880	2,180	3,613	4,722	862
Indian Oil Corp. Ltd. (IOCL)	14,314	14,368	21,918	20,345	22,862	5,852
Hindustan Petroleum Corp. Ltd (HPCL)	2,670	5,459	5,861	7,134	8,425	1,157
Bharat Petroleum Corp. Ltd (BPCL)	6,875	10,926	16,810	8,161	7,400	2,102
Mangalore Refinery & Petrochem Ltd (MRPL)	2,747	1,550	614	1,281	744	117
Chennai Petroleum Corp. Ltd (CPCL)	466	1,318	1,293	963	1,010	202
Numaligarh Refinery Ltd (NRL)	103	237	500	387	428	70
Balmer Lawrie Co. Ltd (BL)	80	38	73	78	125	19
Engineers India Ltd (EIL) [#]	-	-	-	-	1356	3
Total	**69,830**	**75,611**	**106,133**	**128,981**	**89,335**	**17,957**

(P) Provisional & includes expenditure on investment in JV/subsidiaries.

[#] 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	1.071	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	1,314 SCM	Power generation from 1 MMSCMD of gas	220 MW