Ready Reckoner

Snapshot of India's Oil & Gas data

July, 2017

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

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Highlights for the month

- Indigenous crude oil production during July 2017 was marginally lower by 0.5% than that of July 2016. On cumulative basis, it was an increase of 6 TMT over the period April-July 2016-17.
- Total crude oil processed during July 2017 was 20.5 MMT, which was a decrease of 3.3% as compared to July 2016 mainly due to planned shutdown of refineries. On cumulative basis crude oil processed was marginally lower by 0.1% as compared to the period April-July 2016-17.
- Production of petroleum products during July 2017 saw a de-growth of 2.8% as compared to July 2016. However on cumulative basis a growth of 0.6% was recorded over the period April- July 2016-17.
- Crude oil imports marginally increased by 0.6% during July 2017 as compared to July 2016. On cumulative basis crude oil imports increased by 1.0% over the corresponding period of the previous year. Product imports increased by 13.9% during July 2017 over July 2016 mainly due to increase in LPG imports by 16%. In July 2017 HSD imports of 317 TMT and MS imports of 137 TMT were undertaken for BS-IV compliance across the country. On cumulative basis, product imports decreased by 1.2% as compared to the corresponding period of previous year.
- Export of POL products increased by 3.2% during July 2017 over July 2016 primarily due to surplus availability of POL products like ATF and FO. On cumulative basis, an increase of 2.8% was recorded in product exports over the period April- July 2016-17.
- Petroleum product consumption registered a growth of 1.1% during July, 2017 as compared to 8.8% growth during July, 2016. Except for ATF, HSD, LPG, MS, LDO and Bitumen, all other products registered negative growth during July, 2017. During the period April-July, 2017, petroleum product consumption registered a growth of 2.6% as compared to 9.9% growth during the same period last year. Lower growth during the current year (April to July 2017) is mainly due to high de-growth in SKO (-34.7%), Naphtha (-12.3%) and Petcoke (-2.9%) consumption.

•	Total LPG consumption continuously for the last forty seven months in a row recorded a positive growth with 12.5% increase during July, 2017 and cumulative growth of 11.2% during the period of April-July 2017-18. Out of five regions, Northern region had the highest share in consumption of 31.1% followed by Southern region at 28.6% during April-July 2017-18. Eastern region had the highest growth of 22.3% followed by Northern region at 10.5% in total LPG consumption during the period April-July 2017-18.
•	SKO registered a de-growth of 36.8% during July, 2017 and cumulative de-growth of 34.7% during the period April-July 2017-18. This was mainly because of reduced allocation to states during Q1 and Q2 of 2017-18, voluntary surrender of PDS SKO quota by Haryana and Punjab and very less upliftment in Andhra Pradesh, Rajasthan and Uttarakhand during July, 2017.
•	Gross production of natural gas for the month of July, 2017 was 2,859 MMSCM which was higher by 5.7% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 10916 MMSCM for the current year till July, 2017 was higher by 4.5% compared with the corresponding period of the previous year.
•	LNG import for the month of July, 2017 was 1922 MMSCM which was 2.0% lower than the corresponding month of the previous year. The cumulative import of 7852 MMSCM for the current year till July, 2016 was lower by 4.3% compared with the corresponding period of the previous year (8203 MMSCM).
•	The price of Brent Crude averaged $ 48.56/bbl during July, 2017 as against $ 46.52/bbl during June, 2017. The Indian basket crude averaged $ 47.87/bbl during July, 2017 as against $ 46.56/bbl during the previous month.
•	The import bill of crude oil is estimated to increase by 21% from $ 70 billion in 2016-17 to $ 84 billion in 2017-18 considering Indian basket crude oil price of $ 55/bbl and $/Rs = 65 for the balance part of the year.

1. Selected indicators of the Indian economy

	Economic indicators	Unit/Base	2013-14	2014-15	2015-16	2016-17 (P)
1	Population (as on 1st May, 2011)	Billion	1.2	-	-	-
2	GDP at Factor Cost (Constant prices)*	Growth %	6.4	7.5	8.0	7.1 PE
3	Agricultural Production (Food grains)	MMT	265.0	252.0	251.6 Final	273.4 3rd AE
		Growth %	3.1	-4.9	-0.2	8.7
4	Gross Fiscal Deficit	%	-4.5	-4.1	-3.9	-3.5 (RE)

	Economic indicators	Unit/ Base	2015-16	2016-17 (P)	July		April-July	
					2016	2017(P)	2016-17	2017-18(P)
5	Index of Industrial Production#	Growth %	3.4	5.0	8.0	-0.1	7.1	2.0
6	Imports	$ Billion	381.0	384.3	29.5	34.0	114.0	146.3
7	Exports	$ Billion	262.3	276.3	21.7	22.5	87.0	94.8
8	Trade Balance	$ Billion	-118.7	-108.0	-7.8	-11.4	-27.0	-51.5
9	Foreign Exchange Reserves @	$ Billion	355.6	370.0	365.5	392.9	-	-

*Revised on account of using new series of IIP and WPI with base 2011-12. #IIP is for the month of June 2017 & cumulative for Apr-Jul'17, Base year of IIP changed to 2011-12; @2015-16-as on Mar 25, 2016; 2016-17-as on Mar 31, 2017, July 2016- as on July 29, 2016, July 2017-as on July 28, 2017; AE-Advanced Estimates; RE-Revised Estimates

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

Details		Unit/ Base	2015-16	2016-17 (P)	July (P)		April-July (P)	
					2016	2017	2016-17	2017-18
1	Crude oil production in India	MMT	36.9	36.0	3.1	3.1	12.1	12.1
2	Consumption of petroleum products	MMT	184.7	193.7	15.6	15.8	65.2	66.9
3	Production of petroleum products	MMT	231.2	242.7	20.7	20.1	80.5	81.1
4	Imports & exports:							
Crude oil imports		MMT	202.9	213.9	17.2	17.3	70.3	71.0
		$ Billion	64.0	70.2	5.3	5.8	21.0	24.6
Petroleum products (POL) imports		MMT	29.5	35.4	2.9	3.4	12.3	12.2
		$ Billion	10.0	10.5	0.7	1.1	3.2	4.0
Gross petroleum imports (Crude + POL)		MMT	232.3	249.3	20.2	20.7	82.6	83.2
		$ Billion	73.9	80.7	5.9	6.9	24.2	28.6
Petroleum products exports		MMT	60.5	65.5	5.4	5.5	20.2	20.8
		$ Billion	27.1	29.0	2.1	2.5	8.5	9.6
LNG imports		$ Billion	6.7	6.1	0.4	0.5	2.2	2.1
5	Petroleum imports as % of India's gross imports (in value)	%	19.4	21.0	20.2	20.3	21.2	19.6
6	Petroleum exports as % of India's gross exports (in value)	%	10.3	10.5	9.9	11.1	9.8	10.2
7	Import dependency of crude (on consumption)	%	80.9%	82.1%	81.0%	81.3%	82.0%	82.5%

3. Indigenous crude oil production (Million Metric Tonne)								
Details	2015-16	2016-17 (P)	July (P)			April-July (P)		
			2016 (Actual)	2017 (Target)*P	2017	2016-17 (Actual)	2017-18 (Target)*P	2017-18
ONGC	21.1	20.9	1.7	1.9	1.8	6.9	7.5	7.1
Oil India Limited (OIL)	3.2	3.3	0.3	0.3	0.3	1.1	1.2	1.1
Private / Joint Ventures (JVs)	11.2	10.4	0.9	0.9	0.8	3.6	3.6	3.3
Total Crude Oil	**35.5**	**34.5**	**2.9**	**3.1**	**2.9**	**11.6**	**12.2**	**11.5**
Condensate	1.4	1.5	0.1		0.1	0.5		0.5
Total (Crude + Condensate) (MMT)	**36.9**	**36.0**	**3.1**	**3.1**	**3.1**	**12.1**	**12.2**	**12.1**
Total (Crude + Condensate) (Million Bbl)	**270.8**	**263.9**	**22.6**	**22.9**	**22.4**	**88.5**	**89.7**	**88.6**

*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	2015-16	2016-17 (P)	July (P)		April-July (P)	
			2016	2017	2016-17	2017-18
Total domestic production (MMTOE)	69.2	67.9	5.8	5.9	22.5	23.0
Overseas production (MMTOE)	10.1	16.2	1.2	1.6	4.0	6.6
Overseas production as % of domestic production	**14.6%**	**23.9%**	**20.5%**	**27.1%**	**17.5%**	**28.8%**

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

5. High Sulphur (HS) & Low Sulphur (LS) crude oil processing (MMT)							
Details		2015-16	2016-17 (P)	July (P)		April-July (P)	
				2016	2017	2016-17	2017-18
1	High Sulphur crude	166.1	177.6	15.4	14.9	58.5	59.4
2	Low Sulphur crude	66.7	67.8	5.8	5.6	23.0	22.0
Total crude processed		**232.9**	**245.4**	**21.2**	**20.5**	**81.5**	**81.4**
Share of HS crude in total crude oil processing		**71.3%**	**72.4%**	**72.5%**	**72.8%**	**71.7%**	**73.0%**

6. Quantity and value of crude oil imports			
Year	**Quantity (MMT)**	**$ Million**	**Rs. Crore**
2016-17 (Provisional)	213.93	70,217	4,70,589
2017-18 (Estimated)	219.70	84,890	5,50,557

Note: April-July 2017 imports are based on actuals and for August 2017 to March 2018, the imports are estimated at $ 55/bbl and Rs. 65/$.

Impact of variation in Crude oil price & Exchange rate on Crude oil imports for August 2017- March 2018 :

If crude prices increase by one $/bbl - Net Import bill increases by Rs. 7126 crores ($ 1.10 bn)

If exchange rate of $ increases by Rs. 1/$ - Net Import bill increases by Rs.6030 crores ($ 0.92 bn)

7. Self-sufficiency in petroleum products (Million Metric Tonnes)							
Details		**2015-16**	**2016-17 (P)**	**July (P)**		**April-July (P)**	
				2016	**2017**	**2016-17**	**2017-18**
1	Indigenous crude oil processing :	34.1	33.5	2.9	2.8	11.4	11.2
2	Products from indigenous crude (93.3% of crude oil processed)	31.8	31.3	2.7	2.6	10.6	10.5
3	Products from fractionators (Including LPG and Gas)	3.4	3.5	0.3	0.3	1.1	1.2
4	Total production from indigenous crude & condensate **(2 + 3)**	35.2	34.7	3.0	3.0	11.8	11.7
5	Total domestic consumption	184.7	193.7	15.6	15.8	65.2	66.9
% Self-sufficiency (4 / 5)		**19.1%**	**17.9%**	**19.0%**	**18.7%**	**18.0%**	**17.5%**

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

Com-pany	Refinery	Installed capacity (1.4.2017) (MMTPA)	2015-16	2016-17 (P)	Crude oil processing (MMT)					
					July (P)			April-July (P)		
					2016 (Actual)	2017 (Target)*	2017	2016-17 (Actual)	2017-18 (Target)*	2017-18
IOCL	Barauni (1964)	6.0	6.5	6.5	0.6	0.4	0.3	2.3	2.0	1.9
	Koyali (1965)	13.7	13.8	14.0	1.3	1.2	0.9	5.0	3.9	4.0
	Haldia (1975)	7.5	7.8	7.7	0.7	0.7	0.7	2.7	2.7	2.7
	Mathura (1982)	8.0	8.9	9.2	0.8	0.8	0.8	3.2	3.1	3.2
	Panipat (1998)	15.0	15.3	15.6	1.4	0.7	1.0	5.5	4.7	5.0
	Guwahati (1962)	1.0	0.9	0.9	0.09	0.08	0.09	0.3	0.3	0.3
	Digboi (1901)	0.65	0.6	0.5	0.02	0.04	0.06	0.2	0.2	0.2
	Bongaigaon(1979)	2.4	2.4	2.5	0.2	0.2	0.2	0.8	0.8	0.8
	Paradip (2016)	15.0	1.8	8.2	0.7	0.0	1.3	1.9	3.1	4.6
	IOCL TOTAL	**69.2**	**58.0**	**65.2**	**5.7**	**3.9**	**5.4**	**21.8**	**20.7**	**22.9**
CPCL	Manali (1969)	10.5	9.1	9.8	1.0	0.9	0.9	3.5	3.3	3.4
	CBR (1993)	1.5	0.5	0.5	0.05	0.04	0.04	0.2	0.2	0.2
	CPCL-TOTAL	**12.0**	**9.6**	**10.3**	**1.0**	**0.9**	**1.0**	**3.6**	**3.5**	**3.5**
BPCL	Mumbai (1955)	12.0	13.4	13.5	1.2	1.1	1.2	4.7	4.1	4.3
	Kochi (1966)	12.4	10.7	11.8	0.9	1.1	1.2	3.6	4.2	4.4
BORL	Bina (2011)	6.0	6.4	6.4	0.5	0.5	0.6	2.2	2.1	2.4
NRL	Numaligarh (1999)	3.0	2.5	2.7	0.2	0.2	0.2	0.9	0.9	0.9
	BPCL-TOTAL	**33.4**	**33.0**	**34.4**	**2.9**	**2.9**	**3.3**	**11.4**	**11.3**	**12.1**

Com-pany	Refinery	Installed capacity (1.4.2017) (MMTPA)	2015-16	2016-17 (P)	Crude oil processing (MMT)					
					July (P)			April-July (P)		
					2016 (Actual)	2017 (Target)*	2017	2016-17 (Actual)	2017-18 (Target)*	2017-18
ONGC	Tatipaka (2001)	0.1	0.07	0.09	0.007	0.005	0.006	0.03	0.02	0.03
MRPL	Mangalore (1996)	15.0	15.5	16.0	1.3	1.4	1.4	5.0	5.3	5.4
	ONGC TOTAL	**15.1**	**15.6**	**16.1**	**1.3**	**1.4**	**1.4**	**5.0**	**5.3**	**5.5**
HPCL	Mumbai (1954)	7.5	8.0	8.5	0.7	0.7	0.7	2.8	2.7	2.9
	Visakh (1957)	8.3	9.2	9.3	0.7	0.8	0.8	3.1	3.1	3.2
HMEL	Bathinda (2012)	9.0	10.7	10.5	0.9	0.8	0.2	3.7	1.9	1.0
	HPCL- TOTAL	**24.8**	**27.9**	**28.4**	**2.3**	**2.3**	**1.7**	**9.6**	**7.7**	**7.0**
RIL*	Jamnagar (DTA) (1999)	33.0	32.4	32.8	2.8	2.8	2.8	11.1	11.1	10.8
	Jamnagar (SEZ) (2008)	27.0	37.1	37.4	3.4	3.4	3.2	11.9	11.9	12.7
EOL	Vadinar (2006)	20.0	19.1	20.9	1.8	1.7	1.8	7.0	6.7	6.9
	All India	**234.5**	**232.9**	**245.4**	**21.2**	**19.3**	**20.5**	**81.5**	**78.3**	**81.4**

* RIL target for 2017-18 is previous year crude processing. Note: Some sub-totals/ totals may not add up due to rounding off at individual levels.

9. Major crude oil and product pipeline network

		ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Other	Total
Crude Oil	Length (KM)	1,191	1,193	660	1,017	5,301	937	-	-	**10,299**
(as on 1.8.2017)	Cap (MMTPA)	58.5	8.4	8.7	9.0	48.6	6.0	-	-	**139.2**
Products	Length (KM)	-	654.3	-	-	7,491	1,936	3,333	2,688	**16,102**
(as on 1.8.2017)	Cap (MMTPA)	-	1.7	-	-	45.1	14.9	34.6	9.3	**105.6**

Other includes GAIL and Petronet India.

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

Company	Refinery	2014-15	2015-16	2016-17	Apr-Jun'2017
IOCL	Barauni	-1.20	2.93	6.52	1.88
	Koyali	4.79	6.80	7.55	6.25
	Haldia	-1.51	3.96	6.80	1.79
	Mathura	-2.19	3.30	7.01	3.81
	Panipat	-1.97	4.15	7.95	2.75
	Guwahati	8.68	15.88	22.14	19.61
	Digboi	13.73	16.17	24.49	25.82
	Bongaigaon	-0.26	11.09	20.15	12.80
	Paradip	-	-0.65	4.22	4.00
	Average	**0.27**	**5.06**	**7.77**	**4.32**
BPCL	Kochi	3.17	6.87	5.16	3.74
	Mumbai	3.97	6.37	5.36	6.08
	Average	**3.62**	**6.59**	**5.03**	**4.88**
HPCL	Mumbai	4.88	8.09	6.95	7.98
	Visakhapatnam	1.12	5.46	5.51	3.94
	Average	**2.84**	**6.68**	**6.20**	**5.86**
CPCL	Chennai	1.97	5.27	6.05	3.81
MRPL	Mangalore	-0.64	5.20	7.75	4.74
NRL	Numaligarh	16.67	23.68	28.56	29.62
BORL	Bina	6.10	11.70	11.80	8.90
RIL	Jamnagar	8.60	10.80	11.00	11.90
Essar	Vadinar	8.37	10.81	9.14	*

*Being unlisted company, quarterty results not declared.

11. GRM of North-East refineries excluding excise duty benefit ($/bbl)					
Company	**Refinery**	**2014-15**	**2015-16**	**2016-17**	**Apr-Jun'2017**
IOCL	Guwahati	0.96	1.26	1.12	1.69
	Digboi	5.42	4.16	7.73	7.23
	Bongaigaon	-6.51	0.08	6.03	0.11
NRL	Numaligarh	9.46	8.06	8.50	7.51

12. Production and consumption of petroleum products (Million Metric Tonnes)										
Products	**April 2016-March 2017 (P)**		**July 2016 (P)**		**July 2017 (P)**		**April-July 2016 (P)**		**April-July 2017 (P)**	
	Prod^n	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**
LPG	11.3	21.5	1.0	1.7	1.0	1.9	3.6	6.5	3.8	7.2
MS	36.5	23.8	3.1	1.9	3.1	2.1	12.3	7.8	12.5	8.7
NAPHTHA	19.8	13.2	1.7	1.2	1.5	0.9	6.0	4.5	6.6	4.0
ATF	13.8	7.0	1.1	0.6	1.2	0.6	4.5	2.2	4.6	2.5
SKO	6.0	5.4	0.6	0.5	0.3	0.3	2.3	2.1	1.4	1.4
HSD	102.1	76.0	9.0	5.8	8.6	6.3	33.8	25.9	34.4	27.6
LDO	0.6	0.4	0.03	0.04	0.04	0.04	0.1	0.1	0.1	0.1
LUBES	1.0	3.4	0.09	0.3	0.10	0.3	0.4	1.2	0.3	1.1
FO/LSHS	12.0	7.2	1.1	0.6	1.0	0.5	4.2	2.5	3.5	2.3
BITUMEN	5.2	5.9	0.3	0.2	0.3	0.3	1.9	2.1	1.8	2.0
OTHERS	34.4	29.9	2.7	2.8	3.0	2.5	11.4	10.2	12.0	10.0
ALL INDIA	**242.7**	**193.7**	**20.7**	**15.6**	**20.1**	**15.8**	**80.5**	**65.2**	**81.1**	**66.9**
Growth (%)	**5.0%**	**4.9%**	**8.0%**	**8.8%**	**-2.8%**	**1.1%**	**8.5%**	**9.9%**	**0.6%**	**2.6%**
Note: Prod^n - Production; Consump^n - Consumption										

13. LPG consumption (Thousand Metric Tonne)

LPG category	2015-16	2016-17 (P)	July (P)			April-July (P)		
			2016	2017	Gr (%)	2016-17	2017-18	Gr (%)
1. PSU Sales :								
LPG-Packed Domestic	17,181.7	18,871.4	1,503.2	1,680.3	11.8	5,696.4	6,318.9	10.9
LPG-Packed Non-Domestic	1,464.4	1,775.9	135.4	160.8	18.8	522.3	614.0	17.6
LPG-Bulk	317.2	364.3	26.2	33.9	29.5	117.9	113.0	-4.1
Auto LPG	170.9	167.3	14.0	15.7	12.2	54.4	60.6	11.6
Sub-Total (PSU Sales)	**19134.2**	**21178.9**	**1678.8**	**1890.8**	**12.6**	**6391.0**	**7106.6**	**11.2**
2. Direct Private Imports	489.0	370.7	29.2	31.5	7.7	120.2	134.1	11.6
Total (1+2)	**19,623.2**	**21,549.6**	**1,708.0**	**1,922.2**	**12.5**	**6,511.2**	**7,240.7**	**11.2**

14. Kerosene allocation vs upliftment (Kilo Litres)

Product	2014-15		2015-16		2016-17 (P)		Q1, 2017-18 (P)	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
Kerosene	89,75,538	88,78,352	86,85,384	85,36,752	69,33,030	66,78,447	13,13,472	12,75,294

15. Industry marketing infrastructure (as on 01.04.2017) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL	ESSAR	SHELL	Others	Total
POL Terminal/ Depots **(Nos.)**	131	83	82	18[$]	2		6*	**322**
Aviation Fuel Stations **(Nos.)**	104	42	37	27			1@	**211**
Retail Outlets (total) **(Nos.)**	26,212	13,983	14,412	1,400	3,499	85	4^	**59,595**
LPG Distributors (total) **(Nos.) (PSUs only)**[&]	9,657	4,725	4,568					**18,950**
SKO/LDO agencies **(Nos.)**	3,904	1,001	1,638					**6,543**
LPG Bottling plants **(Nos.) (PSUs only)**[&]	91	50	47				1#	**189**
LPG Bottling capacity **(TMTPA) (PSUs only)**[&]	8,965	3,693	3,732				24~	**16,414**
Rural ROs **(Nos.)**	7,051	2,492	3,056	127	1,168	11		**13,905**
RGGLVY & new DKV **(Nos.)**[&]	2,924	1,470	1,417					**5,811**
LPG registered domestic consumers (Nos. crore) **(PSUs only)**[&]	11.76	6.18	6.35					**24.28**

[&] As on 01.07.2017; [$] RIL= 5 Terminals and 13 Mini Depots; *4 MRPL & 2 NRL; @ShellMRPL -1, ^MRPL-4 #NRL-1; ~NRL-24; DKV- Durgam Kshetriya Vitrak

16. Natural gas at a glance

(MMSCM)

Details	2015-16	2016-17 (P)	July (P) 2016 (Actual)	July (P) 2017 (Target)*	July (P) 2017	April-July (P) 2016-17 (Actual)	April-July (P) 2017-18 (Target)*	April-July (P) 2017-18
(a) Gross production	32,249	31,897	2,705	2,990	2,859	10,449	11,539	10,916
- ONGC	21,177	22,088	1,824	2,051	2,055	6,996	7,892	7,784
- Oil India Limited (OIL)	2,838	2,937	256	265	250	987	1,008	974
- Private / Joint Ventures (JVs)	8,235	6,872	625	674	553	2,466	2,639	2,159
(b) Net production (excluding flare gas and loss)	31,129	30,848	2,620		2,796	10,109		10,624
(c) LNG import	21,388	24,686	1,962		1,922	8,203		7,852
(d) Total consumption including internal consumption (Net production+Import) (b+c)	52,517	55,534	4,582		4,718	18,312		18,476
(e) Total consumption (in BCM)	52.52	55.53	4.58		4.72	18.31		18.48
(f) Import dependency based on consumption {c/d*100}	40.73	44.45	42.82		40.74	44.80		42.50

Note : Reconcile data for Prodcution, Net Prodcution and LNG import for 2015-16 and 2016-17

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		17,200	Sq. KM
Blocks awarded		33	Nos.
Production of CBM gas	July, 2017 (P)	59.64	MMSCM
Production of CBM gas-Cumulative	April-July 2017 (P)	204.59	MMSCM

18. Gas pipelines under execution / construction as on 01.07.2017

Network/ Region	Entity	Length sanctioned (KM)	Design cap. (MMSCMD)	Pipeline size
Kochi-Kottanad-Bengaluru-Mangalore	GAIL (India) Ltd	1,063	16	24"/18"/12"
Dabhol - Bengaluru (DBPL)	GAIL (India) Ltd	315	16	36"/30"/24"/18"
Surat - Paradip	GAIL (India) Ltd	2,112	74.81	36"/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. Ltd	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		**13,509**		

19. Existing LNG terminals as on 01.07.2017

Location	Promoters	Capacity (MMTPA)	Capacity utilisation in % (Apr-Jun'2017)
Dahej	Petronet LNG Ltd (PLL)	15 MMTPA	95.1
Hazira	Hazira LNG Pvt Ltd (HLPL)	5 MMTPA	52.95
Dabhol	RGPPL (GAIL - NTPC JV)	1.692 MMTPA in phase-1 without break water to be increased to 5 MMTPA	9.91
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	11.64
Total Capacity		**26.692 MMTPA**	

20. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.)

State	Entity operating	Geographical region	CNG stations	PNG connections			No. of CNG vehicles
				Domestic	Industrial	Commercial	
			As on 1.6.2017	As on 1.7.2017	As on 1.6.2017	As on 1.6.2017	As on 1.6.2017
Haryana	Haryana City Gas, Adani Gas Limited, GAIL Gas Ltd.	Sonepat, Faridabad, Gurgaon	33	62,068	255	185	1,25,227
Andhra Pradesh	Bhagyanagar Gas Ltd	Kakinada, Vijayawada	16	4,275	0	41	15,782
Telangana	Bhagyanagar Gas Ltd	Hyderabad	26	3,345	5	5	23,642
Assam	Assam Gas Co. Ltd	Tinsukia, Dibrugarh, Sibsagar, Jorhat, Golaghat	0	30,331	404	1,012	0
Gujarat	Sabarmati Gas Ltd, Gujarat Gas Ltd, Adani Energy Ltd , Vadodara Gas Ltd, Hindustan Petroleum Corporation Ltd, Charotar Gas Sahakari Mandal Ltd	Gandhinagar, Mehsana, Sabarkantha, Nadiad, Halol, Hazira, Rajkot, Khambhat, Karjan-Palej, Valsad, Navsari, Surendernagar, Vadodara, Ahmedabad, Surat, Ankleshwar, Bharuch & surrounding areas, Bhavnagar, Jamnagar, Vapi, Anand	397	16,88,373	4,344	17,216	11,59,346
Madhya Pradesh	Aavantika Gas Ltd, GAIL Gas Ltd	Dewas, Vijaipur, Indore including Ujjain, Gwalior, Pithampura	24	16,842	100	69	26,127
Rajasthan	GAIL Gas Ltd	Kota	3	187	15	2	5,936

20. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.)							
State	Entity operating	Geographical region	CNG stations	PNG connections			No. of CNG vehicles
				Domestic	Industrial	Commercial	
			As on 1.6.2017	As on 1.7.2017	As on 1.6.2017	As on 1.6.2017	As on 1.6.2017
Maharashtra	Mahanagar Gas Ltd, Maharashtra Natural Gas Ltd, GAIL Gas Ltd , Gujarat Gas Limited	Mumbai, Greater Mumbai, Thane & adjoining contiguous areas including Mira Bhayender, Navi Mumbai, Thane City, Ambernath, Bhiwandi, Kalyan, Dombivily, Badlapur, Ulhasnagar, Panvel, Kharghar & Taloja, Pune City including Pimpri-Chinchwad and adjoining contiguous areas of Chakan, Hinjewadi, Talegaon GA & Thane Rural.	246	10,39,956	193	3,438	7,07,735
Tripura	Tripura Natural Gas Co. Ltd	Agartala	5	30,155	50	366	9,627
West Bengal	Great Eastern Energy Corporation Ltd	Kolkata	7	0	0	0	3,219
Uttar Pradesh	GAIL Gas Ltd, Sanwariya Gas, Green Gas, Central U.P. Gas, Siti Energy Ltd		55	55,987	494	287	1,19,569

20. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.)

State	Entity operating	Geographical region	CNG stations	PNG connections			No. of CNG vehicles
				Domestic	Industrial	Commercial	
			As on 1.6.2017	As on 1.7.2017	As on 1.6.2017	As on 1.6.2017	As on 1.6.2017
New Delhi	Indraprastha Gas Ltd	NCT of Delhi (Including Noida & Ghaziabad)	420	7,63,479	1,003	1,953	9,77,791
Karnataka	Gail Gas Ltd.	Bengaluru	3	2,842	9	21	184
Chandigarh	IndianOil- Adani Gas	Chandigarh	2	3,529	0	0	1,500
Kerala	IndianOil- Adani Gas	Ernakulam	0	595	0	2	0
Dadra & Nagar Haveli	Gujarat Gas Ltd.	Dadra & Nagar Haveli	0	131	3	5	0
Total			**1,237**	**37,02,095**	**6,875**	**24,602**	**31,75,685**

21. Major natural gas pipeline network

Nature of pipeline		GAIL	Reliance	GSPL	ARN	IOCL	ONGC	Total
Natural gas (as on 01.07.2017)	Length (KM)	11,077	1,784	2,612	817	140	24	**16,454**
	Cap (MMSCMD)	242*	83.5	43.0	3.2	9.5	6.0	**387.3**

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

22. Domestic natural gas price and gas price ceiling

Period	Domestic Natural Gas price in US$/MMBTU (GCV basis)	Gas price ceiling in US$/MMBTU (GCV basis)
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

23. Information on Prices, Taxes and Under-recoveries

International prices/ Exchange rates ($/bbl)

Particulars	2015-16	2016-17	Apr-Jul' 17
Crude (Indian Basket)	46.17	47.16	49.24
Petrol	61.72	57.71	60.63
Diesel	55.02	56.12	60.29
Kerosene	55.71	56.46	58.90
LPG ($/MT)	394.71	377.52	398.13
FO ($/MT)	235.13	255.92	293.65
Naphtha ($/MT)	420.14	412.09	420.72
Exchange (Rs./$)	65.46	67.21	64.46

Customs & excise duty rates (w.e.f. 01.07.2017)

Product	Basic customs duty	Excise duty	GST rates
Petrol	2.50%	Rs 21.48/Ltr	**
Diesel	2.50%	Rs 17.33/Ltr	**
PDS SKO	Nil	Nil	5.00%
Non-PDS SKO	5.00%	Nil	18.00%
Sub. Dom LPG	Nil	Nil	5.00%
Non Domestic LPG	5.00%	Nil	18.00%
Furnace Oil (Non-Fert)	5.00%	Nil	18.00%
Naphtha (Non-Fert)	5.00%	Nil	18.00%
ATF	Nil	14% *	**
Crude Oil	Nil+Rs.50/ -MT as NCCD	Nil+ Cess@ 20%+Rs.50 /-MT NCCD	**

*8% for scheduled commuter airlines from regional connectivity scheme airports;
** Petrol, Diesel, ATF, Natural Gas and Crude oil are outside GST regime.

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

Particulars	Petrol*	Diesel*
Price before taxes and dealer commission	28.41	28.84
Central taxes	22.02	17.87
State taxes	14.49	8.48
Dealer commission	3.22	2.17
Retail selling price (RSP)	**68.14**	**57.36**

Particulars	PDS SKO*	Sub. Dom LPG*
Price before taxes and dealer commission	19.16	451.48
GST	1.05	24.95
Dealer commission	1.79	47.54
Retail Selling Price	**22.00**	524.00
Less cash compensation (CC) under DBTL		29.02
CC by OMCs towards uncompensated cost		15.21
Effective cost to consumer after subsidy		**479.77**

* SKO at Mumbai, Petrol and diesel at Delhi as on 16th August, 2017 and LPG as on 1st August 2017 at Delhi. RSP of Subsidized Dom LPG rounded.

Change in Ex. Rate/ Crude price : Impact on under-recoveries

(Rs. Crores)	Rs.1/$ Ex. Rate	$1/bbl Crude
Impact on under-recovery	820	1,120

Note: The above calculation for SKO & LPG are based on RTP for August 2017 at level of Crude Price $46.89/bbl & Ex. Rate Rs. 64.46/USD.

23. Information on Prices, Taxes and Under-recoveries

Under-recoveries & burden sharing

Product	2015-16	2016-17	Apr-Jun'2017
Per unit under-recovery (Rs./litre/Cylinder)			
Diesel	Deregulated	Deregulated	Deregulated
PDS SKO	13.47	11.39	10.18
Sub. Dom LPG	150.82*	108.78*	181.85*
Total under-recoveries including DBTL (Rs. Crores)			
Diesel	Deregulated	Deregulated	Deregulated
PDS SKO	11,496	7,595	1,280
Sub. Dom LPG#	16,074	12,133	5,039
Total	**27,570**	**19,728**	**6,319**

Burden sharing (Rs. Crores)

Particulars	2015-16	2016-17	Apr-Jun'2017
Government	26,301	19,728	6319**
Upstream	1,251	0	0
OMCs	18	0	0

Fiscal subsidy under Govt. schemes (Rs. Crores)

PDS SKO	Scheme was extended till 31.3.2015
Sub. Dom LPG	

*Average of DBTL and under-recovery towards non-DBTL; #Includes subsidy under DBTL (2015-16: Rs.16,056 Cr).
** Govt compensation pending sanction for PDS-SKO (Apr - June' 17) Rs 1280 Cr.

Sales & profit of petroleum sector (Rs. Crores)

April 2017-June 2017	Turnover	PAT
Upstream Companies (PSU)	32,540	5,361
Downstream Companies (PSU)	250,679	6,218
Standalone Refineries (PSU)	23,030	639
Private-RIL	70,434	8,196

Borrowings of OMCs (Rs. Crores)

Company	As on Mar`16	As on Mar`17	As on June`17
IOCL	52,469	54,820	34,922
BPCL	15,976	23,159	17,917
HPCL	21,337	21,250	12,208

Petroleum sector contribution to Central/State Govt.

Particulars	2015-16	2016-17	Apr-Jun'2017
Central Government	2,58,443	3,34,534	63,458
% to total revenue receipt	21%	24%	-
State Governments	1,60,209	1,89,770	51,050
% to total revenue receipt	8%	8%	-
Total (Rs. Crores)	**4,18,652**	**5,24,304**	**1,14,508**

Subsidy as a % of GDP (at current prices)

Particulars	2013-14	2014-15	2015-16
Petroleum subsidy	1.30	0.62	0.25

Note - GDP figure for 2013-14 are 2nd RE, 2014-15 are RE and 2015-16 are PE

24. Capital expenditure of PSU oil companies

Company	2013-14	2014-15	2015-16 (P)	2016-17(P)	April-July	
					Target*	2017 (P)
ONGC Videsh Ltd (OVL)	35,357	7,172	6,783	18,360	7,088	1,563
ONGC Ltd	32,470	29,997	29,502	28,010	29,968	8,124
Oil India Ltd (OIL)	9,351	3,774	3,550	10,514	9,252	1,072
GAIL (India) Ltd	4,070	1,632	1,880	2,180	3,253	728
Indian Oil Corp. Ltd. (IOCL)	16,661	14,314	14,368	21,918	20,162	5,479
Hindustan Petroleum Corp. Ltd (HPCL)	2,642	2,670	5,459	5,861	7,110	1,329
Bharat Petroleum Corp. Ltd (BPCL)	4,374	6,875	10,926	16,810	7,101	1,828
Mangalore Refinery & Petrochem Ltd (MRPL)	1,449	2,747	1,550	614	1,138	149
Chennai Petroleum Corp. Ltd (CPCL)	229	466	1,318	1,293	845	246
Numaligarh Refinery Ltd (NRL)	372	103	237	500	1,261	99
Balmer Lawrie Co. Ltd (BL)	120	80	38	73	50	58
TOTAL	**1,07,095**	**69,830**	**75,611**	**106,133**	**87,228**	**20,674**

* Targets are for full financial year 2017-18 and actual is for April-July, 2017. Budget Estimates are for both Plan and Non-Plan

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	8.50
Diesel (HSD)	1	1.210	7.45
Kerosene (SKO)	1	1.285	7.90
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