Ready Reckoner

Snapshot of India's Oil & Gas data

May, 2017

Analysis • Knowledge • Information

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

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Highlights for the month

- Indigenous crude oil production during May, 2017 was marginally higher by 0.7% than that of May, 2016. During April-May 2017-18 production was marginally higher by 0.1% than that of April-May, 2016-17. On cumulative basis, there was a reduction of 68.7 TMT in RJ fields whereas there was an increase of 28.3 TMT in OIL and 19.1 TMT in South Gujarat fields.
- Total crude oil processed during May, 2017 was 20.8 MMT, an increase of 4.4% over May, 2016. On cumulative basis it was 40.8 MMT, an increase of 1.8% over the period April-May, 2016-17. On cumulative basis, around 1.1 MMT increase was contributed by Paradip refinery and 1.1 MMT by RIL-SEZ. HMEL, Bathinda was under planned shutdown during May, 2017 which is likely to continue during June, 2017.
- Production of petroleum products during May, 2017 saw a growth of 5.5% over May, 2016. On cumulative basis a growth of 2.8% was recorded in production over the period April - May, 2016-17.
- Product imports increased by 0.8% during May, 2017 over the corresponding period of 2016. LPG, Lubes and Pet-coke imports contributed to 65.7% share of total POL imports during May, 2017. In May, 2017 HSD imports of 436 TMT were undertaken by PSU OMCs for BS-IV compliance across the country. However, on cumulative basis a decrease of 5.1% was recorded in product imports over the period April - May, 2016-17.
- Export of POL products increased by 8.7% during May, 2017 as compared to May, 2016 primarily due to higher surplus availability of POL products like Naphtha and HSD in the private sector, which constituted around 53.1% of total POL exports. On cumulative basis an increase of 7.3% was recorded in product exports over the period April- May 2016-17.

•	Petroleum product consumption registered a growth of 5.4% during May, 2017 as compared to 8.9% growth during May, 2016. Except for LPG, MS, Naphtha, HSD, LDO ATF and Petcoke, all other products registered negative growth during May, 2017. During the period April-May, 2016-17, petroleum product consumption registered a growth of 9.6% as compared to the same period last year.
•	Total LPG consumption continuously for the last forty five months in a row recorded a positive growth of 11.6% during May, 2017 and a cumulative growth of 7.6% for the period April to May, 2017. Out of five regions, Northern region had the highest growth of 31.8% followed by Southern region at 28.2% in total LPG consumption.
•	It is seen that petroleum products consumption from 2013-14 to 2017-18 in the month of May and cumulative April-May was continuously positive in a row.
•	Gross production of natural gas for the month of May, 2017 was 2,769 MMSCM which was higher by 4.16% compared with the corresponding month of the previous year.
•	LNG import for the month of May, 2017 was 1,936 MMSCM which was 9.58 % lower than the corresponding month of the previous year.
•	The prices of Brent crude averaged $50.43/bbl during May, 2017 as against $52.53/bbl during April, 2017. The Indian basket crude averaged $50.57/bbl during May, 2017 as against $52.49/bbl during the previous month.

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 %	6.5 3rd RE	7.2 2nd RE	7.9 1st RE	7.1 2nd AE
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)**	**May**		**April-May**	
					2016	**2017(P)**	**2016-17**	**2017-18(P)**
5	Index of Industrial Production*	Growth %	3.4	5.0	6.5	3.1		
6	Imports	$ Billion	381.0	380.4	28.4	37.9	53.9	75.5
7	Exports	$ Billion	262.3	274.6	22.2	24.0	42.7	48.6
8	Trade Balance	$ Billion	-118.7	-105.7	-6.3	-13.8	-11.1	-26.8
9	Foreign Exchange Reserves **	$ Billion	355.6	370.0	360.2	378.8	-	-

~IIP is for the month of April 2017;*Base year of IIP changed to 2011-12; AE-Advanced Estimates; RE-Revised Estimates; **2015-16-as of Mar 25, 2016; 2016-17-as on Mar 31, 2017, May 2016- as on May 27, 2016, May 2017-as on May 26, 2017..

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

Details		Unit/ Base	2015-16	2016-17 (P)	May (P)		April-May (P)	
					2016	2017	2016-17	2017-18
1	Crude oil production in India	MMT	36.9	36.0	3.1	3.1	6.0	6.0
2	Consumption of petroleum products	MMT	184.7	194.2	16.9	17.8	33.1	34.5
3	Production of petroleum products	MMT	231.2	242.7	20.1	21.2	39.6	40.8
4	Imports & exports:							
Crude oil imports		MMT	202.9	213.9	17.5	17.8	35.5	36.0
		$ Billion	64.0	70.2	5.3	6.3	10.1	13.0
Petroleum products (POL) imports		MMT	29.5	35.9	3.1	3.1	6.2	5.9
		$ Billion	10.0	10.6	1.1	0.9	2.0	1.7
Gross petroleum imports (Crude + POL)		MMT	232.3	249.8	20.6	20.9	41.7	41.9
		$ Billion	73.9	80.8	6.3	7.2	12.0	14.7
Petroleum products exports		MMT	60.5	65.5	4.6	5.0	9.5	10.2
		$ Billion	27.1	29.1	2.0	2.4	4.0	4.9
LNG imports		$ Billion	6.7	6.1	0.4	0.5	0.8	1.1
5	Petroleum imports as % of India's gross imports (in value)	%	19.4	21.3	22.3	19.0	22.4	19.4
6	Petroleum exports as % of India's gross exports (in value)	%	10.3	10.6	9.0	10.0	9.3	10.1
7	Import dependency of crude (on consumption)	%	80.9%	82.1%	82.2%	83.8%	82.2%	83.6%

3. Indigenous crude oil production (Million Metric Tonne)

Details	2015-16	2016-17 (P)	May (P)			April-May (P)		
			2016 (Actual)	2017 (Target)*	2017	2016-17 (Actual)	2017-18 (Target)*	2017-18
ONGC	18.5	18.3	1.5	1.9	1.6	3.0	3.8	3.1
Oil India Limited (OIL)	3.2	3.3	0.3	0.3	0.3	0.5	0.6	0.6
Private / Joint Ventures (JVs)	11.3	10.5	0.9	0.9	0.9	1.8	1.8	1.7
Total Crude Oil	**33.1**	**32.0**	**2.7**	**3.1**	**2.7**	**5.4**	**6.1**	**5.3**
Condensate	3.8	4.0	0.3		0.4	0.6		0.7
Total (Crude + Condensate) (MMT)	**36.9**	**36.0**	**3.1**	**3.1**	**3.1**	**6.0**	**6.1**	**6.0**
Total (Crude + Condensate) (Million Bbl)	**270.8**	**263.9**	**22.6**	**22.8**	**22.7**	**44.2**	**44.8**	**44.3**

*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)	May (P)		April-May (P)	
			2016	2017	2016-17	2017-18
Total domestic production (MMTOE)	69.2	67.9	5.7	5.9	11.2	11.3
Overseas production (MMTOE)	10.1	16.2	0.8	1.7	1.6	3.4
Overseas production as % of domestic production	**14.6%**	**23.9%**	**14.4%**	**29.1%**	**14.4%**	**29.8%**

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

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

	Details	2015-16	2016-17 (P)	May (P)		April-May (P)	
				2016	2017	2016-17	2017-18
1	High Sulphur crude	166.1	177.6	14.3	15.5	28.8	30.2
2	Low Sulphur crude	66.7	67.8	5.7	5.4	11.3	10.6
Total crude processed		**232.9**	**245.4**	**20.0**	**20.8**	**40.1**	**40.8**
Share of HS crude in total crude oil processing		**71.3%**	**72.4%**	**71.5%**	**74.2%**	**71.7%**	**73.9%**

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	87,490	5,68,219

Note: April-May 2017 imports are based on actuals and for June 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 June 2017- March 2018 :

If crude prices increase by one $/bbl - Net Import bill increases by Rs. 8,802 crores ($ 1.36 bn)

If exchange rate of $ increases by Rs. 1/$ - Net Import bill increases by Rs. 7,448 crores ($ 1.13 bn)

7. Self-sufficiency in petroleum products (Million Metric Tonnes)							
Details		2015-16	2016-17 (P)	May (P)		April-May (P)	
				2016	2017	2016-17	2017-18
1	Indigenous crude oil processing :	34.1	33.5	2.9	2.8	5.7	5.5
a)	Products from indigenous crude (93.3% of crude oil processed)	31.8	31.3	2.7	2.6	5.3	5.1
b)	Products from fractionators (Including LPG and Gas)	3.4	3.5	0.3	0.3	0.5	0.6
2	Total production from indigenous crude & condensate **(a + b)**	35.2	34.7	3.0	2.9	5.9	5.7
3	Total domestic consumption	184.7	194.2	16.9	17.8	33.1	34.5
% Self-sufficiency (2 / 3)		**19.1%**	**17.9%**	**17.8%**	**16.2%**	**17.8%**	**16.4%**

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)					
					May (P)			April-May (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	0.5	0.5	1.1	1.1	1.1
	Koyali (1965)	13.7	13.8	14.0	1.2	0.9	1.2	2.5	2.0	2.3
	Haldia (1975)	7.5	7.8	7.7	0.7	0.7	0.7	1.4	1.4	1.4
	Mathura (1982)	8.0	8.9	9.2	0.8	0.8	0.8	1.6	1.6	1.6
	Panipat (1998)	15.0	15.3	15.6	1.4	1.4	1.4	2.7	2.7	2.7
	Guwahati (1962)	1.0	0.9	0.9	0.07	0.08	0.09	0.1	0.1	0.2
	Digboi (1901)	0.65	0.6	0.5	0.05	0.04	0.05	0.1	0.1	0.1
	Bongaigaon(1979)	2.4	2.4	2.5	0.2	0.2	0.2	0.4	0.4	0.4
	Paradip (2016)	15.0	1.8	8.2	0.5	1.2	1.3	0.9	2.0	2.0
	IOCL TOTAL	**69.2**	**58.0**	**65.2**	**5.6**	**5.8**	**6.3**	**10.9**	**11.3**	**11.8**
CPCL	Manali (1969)	10.5	9.1	9.8	0.8	0.8	0.9	1.6	1.6	1.5
	CBR (1993)	1.5	0.5	0.5	0.05	0.04	0.04	0.1	0.1	0.1
	CPCL-TOTAL	**12.0**	**9.6**	**10.3**	**0.9**	**0.8**	**0.9**	**1.7**	**1.7**	**1.6**
BPCL	Mumbai (1955)	12.0	13.4	13.5	1.2	1.0	1.0	2.3	1.9	2.0
	Kochi (1966)	12.4	10.7	11.8	0.9	1.1	1.1	1.8	2.1	2.1
BORL	Bina (2011)	6.0	6.4	6.4	0.6	0.5	0.6	1.2	1.1	1.2
NRL	Numaligarh (1999)	3.0	2.5	2.7	0.2	0.2	0.2	0.5	0.4	0.5
	BPCL-TOTAL	**33.4**	**33.0**	**34.4**	**3.0**	**2.8**	**3.0**	**5.7**	**5.5**	**5.8**

Com-pany	Refinery	Installed capacity (1.4.2017) (MMTPA)	2015-16	2016-17 (P)	Crude oil processing (MMT)					
					May (P)			April-May (P)		
					2016 (Actual)	2017 (Target)*	2017	2016-17 (Actual)	2017-18 (Target)*	2017-18
ONGC	Tatipaka (2001)	0.1	0.07	0.09	0.006	0.005	0.007	0.01	0.01	0.01
MRPL	Mangalore (1996)	15.0	15.5	16.0	1.2	1.4	1.4	2.4	2.6	2.6
	ONGC TOTAL	**15.1**	**15.6**	**16.1**	**1.2**	**1.4**	**1.4**	**2.4**	**2.6**	**2.6**
HPCL	Mumbai (1954)	7.5	8.0	8.5	0.7	0.7	0.7	1.4	1.3	1.4
	Visakh (1957)	8.3	9.2	9.3	0.8	0.8	0.8	1.6	1.5	1.6
HMEL	Bathinda (2012)	9.0	10.7	10.5	0.9	0.0	0.0	1.9	0.7	0.8
	HPCL- TOTAL	**24.8**	**27.9**	**28.4**	**2.5**	**1.5**	**1.6**	**4.9**	**3.6**	**3.8**
RIL*	Jamnagar (DTA) (1999)	33.0	32.4	32.8	2.9	2.9	2.7	5.6	5.6	5.4
	Jamnagar (SEZ) (2008)	27.0	37.1	37.4	2.2	2.2	3.2	5.3	5.3	6.4
EOL	Vadinar (2006)	20.0	19.1	20.9	1.8	1.7	1.8	3.5	3.4	3.5
All India		**234.5**	**232.9**	**245.4**	**20.0**	**19.0**	**20.8**	**40.1**	**39.0**	**40.8**

* 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)	1191.0	1193.0	660.0	1017.0	5301.0	937.0	0.0	-	10299
(as on 1.6.2017)	Cap (MMTPA)	58.5	8.4	8.7	9.0	48.6	6.0	-	-	139.2
Products	Length (KM)	-	654.3	-	-	7491.0	1936.0	3333.0	2688.0	16101.95
(as on 1.6.2017)	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**	**2013-14**	**2014-15**	**2015-16**	**2016-17**
IOCL	Barauni	6.68	-1.20	2.93	6.52
	Koyali	4.52	4.79	6.80	7.55
	Haldia	2.84	-1.51	3.96	6.80
	Mathura	2.10	-2.19	3.30	7.01
	Panipat	3.62	-1.97	4.15	7.95
	Guwahati	6.38	8.68	15.88	22.14
	Digboi	15.41	13.73	16.17	24.49
	Bongaigaon	6.71	-0.26	11.09	20.15
	Paradip	-	-	-0.65	4.22
	Average	**4.24**	**0.27**	**5.06**	**7.77**
BPCL	Kochi	4.80	3.17	6.87	5.16
	Mumbai	3.95	3.97	6.37	5.36
	Average	**4.33**	**3.62**	**6.59**	**5.03**
HPCL	Mumbai	5.38	4.88	8.09	6.95
	Visakhapatnam	1.50	1.12	5.46	5.51
	Average	**3.43**	**2.84**	**6.68**	**6.20**
CPCL	Chennai	4.08	1.97	5.27	6.05
MRPL	Mangalore	2.67	-0.64	5.20	7.75
NRL	Numaligarh	12.09	16.67	23.68	28.56
BORL	Bina	7.70	6.10	11.70	11.80
RIL	Jamnagar	8.10	8.60	10.80	11.00
Essar	Vadinar	7.98	8.37	10.81	*

*Being unlisted company, annual results yet to be declared.

11. GRM of North-East refineries excluding excise duty benefit ($/bbl)					
Company	**Refinery**	**2013-14**	**2014-15**	**2015-16**	**2016-17**
IOCL	Guwahati	0.88	0.96	1.26	1.12
	Digboi	8.50	5.42	4.16	7.73
	Bongaigaon	2.34	-6.51	0.08	6.03
NRL	Numaligarh	6.98	9.46	8.06	8.50

12. Production and consumption of petroleum products (Million Metric Tonnes)										
Products	**April 2016-March 2017 (P)**		**May 2016 (P)**		**May 2017 (P)**		**April-May 2016 (P)**		**April-May 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	0.9	1.6	1.0	1.8	1.7	3.2	1.9	3.4
MS	36.5	23.8	3.2	2.1	3.2	2.4	6.2	4.1	6.3	4.5
NAPHTHA	19.8	13.3	1.4	1.1	1.8	1.1	2.7	2.2	3.4	2.2
ATF	13.8	7.0	1.1	0.6	1.1	0.6	2.2	1.1	2.3	1.2
SKO	6.0	5.4	0.6	0.5	0.4	0.4	1.1	1.0	0.8	0.7
HSD	102.1	76.0	8.1	7.0	8.9	7.5	16.1	13.7	17.4	14.5
LDO	0.6	0.4	0.04	0.04	0.06	0.03	0.1	0.1	0.1	0.1
LUBES	1.0	3.4	0.09	0.3	0.08	0.3	0.2	0.6	0.2	0.5
FO/LSHS	12.0	7.2	1.2	0.6	1.0	0.6	2.2	1.3	1.6	1.2
BITUMEN	5.2	5.9	0.6	0.7	0.6	0.6	1.2	1.4	1.1	1.2
OTHERS	34.4	30.3	3.0	2.4	3.0	2.5	5.9	4.5	5.9	5.1
ALL INDIA	**242.7**	**194.2**	**20.1**	**16.9**	**21.2**	**17.8**	**39.6**	**33.1**	**40.8**	**34.5**
Growth (%)	**5.0%**	**5.2%**	**3.1%**	**8.9%**	**5.5%**	**5.4%**	**10.4%**	**9.6%**	**2.8%**	**4.3%**
Note: Prod^n - Production; Consump^n - Consumption										

13. LPG consumption (Thousand Metric Tonne)

LPG category	2015-16	2016-17 (P)	May (P) 2016	May (P) 2017	May Gr (%)	April-May (P) 2016-17	April-May (P) 2017-18	April-May Gr (%)
1. PSU Sales :								
LPG-Packed Domestic	17,181.7	18,870.3	1,396.1	1,560.5	11.8	2,788.3	3,002.1	7.7
LPG-Packed Non-Domestic	1,464.4	1,775.7	130.3	153.1	17.5	260.5	294.6	13.1
LPG-Bulk	317.2	364.2	31.5	25.0	-20.6	62.0	46.2	-25.4
Auto LPG	170.9	167.2	13.9	15.7	12.5	27.2	30.0	10.7
Sub-Total (PSU Sales)	**19134.2**	**21177.5**	**1,571.8**	**1,754.3**	**11.6**	**3,137.9**	**3,373.0**	**7.5**
2. Direct Private Imports	489.0	370.7	27.0	29.9	10.7	52.0	59.7	14.8
Total (1+2)	**19,623.2**	**21,548.2**	**1,598.8**	**1,784.2**	**11.6**	**3,189.9**	**3,432.7**	**7.6**

14. Kerosene allocation vs upliftment (Kilo Litres)

Product	2014-15 Allocation	2014-15 Upliftment	2015-16 Allocation	2015-16 Upliftment	2016-17 (P) Allocation	2016-17 (P) Upliftment
Kerosene	89,75,538	88,78,352	86,85,384	85,36,752	69,33,030	66,78,423

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)**	9,570	4,684	4,532					18,786
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)**	8,905	3,663	3,672				24~	16,264
Rural ROs **(Nos.)**	7,051	2,492	3,056	127	1,168	11		13,905
RGGLVY **(Nos.)**	2,899	1,455	1,407					5,761
LPG registered domestic consumers (Nos. crore) **(PSUs only)**	11.39	5.95	6.12					23.5

$RIL= 5 Terminals &13 Mini Depots; *4 MRPL & 2 NRL; @ShellMRPL -1, ^MRPL-4 #NRL-1; ~NRL-24

16. Natural gas at a glance

(MMSCM)

Details	2015-16	2016-17 (P)	May (P) 2016 (Actual)	May (P) 2017 (Target)*	May (P) 2017	April-May (P) 2016-17 (Actual)	April-May (P) 2017-18 (Target)*	April-May (P) 2017-18
(a) Gross production	32,249	31,897	2,658	2,920	2,769	5,146	5,709	5,302
- ONGC	21,177	22,088	1,793	1,997	1,964	3,424	3,897	3,754
- Oil India Limited (OIL)	2,838	2,937	239	253	245	489	496	486
- Private / Joint Ventures (JVs)	8,235	6,872	626	670	560	1,233	1,316	1,062
(b) Net production (excluding flare gas and loss)	31,138	30,848	2,576		2,699	4,976		5,154
(c) LNG import	21,309	24,686	2,142		1,936	4,284		4,119
(d) Total consumption including internal consumption (Net production+Import) (b+c)	52,448	55,534	4,717		4,635	9,260		9,272
(e) Total consumption (in BCM)	52.45	55.53	4.72		4.64	9.26		9.27
(f) Import dependency based on consumption {c/d*100}	40.63	44.45	45.40		41.78	46.26		44.42

Note :LNG import figure of RIL for March 2017 is on estimated basis.

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	May, 2017 (P)	48.47	MMSCM
Production of CBM gas-Cumulative	April-May 2017 (P)	94.73	MMSCM

18. Gas pipelines under execution / construction as on 01.04.2017

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”
Shahdol - Phulpur	Reliance Gas Pipelines Ltd	312	3.5	16”
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		**13,821**		

19. Existing LNG terminals as on 01.04.2017

Existing	Promoters	Capacity (MMTPA)	Capacity utilisation in % (2016-17)
Dahej	Petronet LNG Ltd (PLL)	15 MMTPA	105.31 (Average utilization for 2016-17)
Hazira	Hazira LNG Pvt Ltd (HLPL)	5 MMTPA	69.6
Dabhol	RGPPL (GAIL - NTPC JV)	1.692 MMTPA in phase-1 without break water to be increased to 5 MMTPA	57.1
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	5.46
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 1.4.2017	As on 1.5.2017	As on 1.4.2017	As on 1.4.2017	As on 1.4.2017
Haryana	Haryana City Gas, Adani Gas Limited, GAIL Gas Ltd.	Sonepat, Faridabad, Gurgaon	31	58,312	241	166	1,25,227
Andhra Pradesh	Bhagyanagar Gas Ltd	Kakinada, Vijayawada	16	3,967	0	41	15,711
Telangana	Bhagyanagar Gas Ltd	Hyderabad	26	2,771	5	5	23,570
Assam	Assam Gas Co. Ltd	Tinsukia, Dibrugarh, Sibsagar, Jorhat, Golaghat	0	30,095	400	1,002	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	396	16,62,162	4,200	14,766	10,94,973
Madhya Pradesh	Aavantika Gas Ltd, GAIL Gas Ltd	Dewas, Vijaipur, Indore including Ujjain, Gwalior, Pithampura	24	15,180	99	63	23,310
Rajasthan	GAIL Gas Ltd	Kota	3	187	16	1	5,688

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 1.4.2017	As on 1.5.2017	As on 1.4.2017	As on 1.4.2017	As on 1.4.2017
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.	245	10,11,939	191	3,387	6,85,883
Tripura	Tripura Natural Gas Co. Ltd	Agartala	5	29,324	50	366	9,438
West Bengal	Great Eastern Energy Corporation Ltd	Kolkata	7	0	0	0	3,172
Uttar Pradesh	GAIL Gas Ltd, Sanwariya Gas, Green Gas, Central U.P. Gas, Siti Energy Ltd		54	52,535	500	272	1,17,686

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 1.4.2017	As on 1.5.2017	As on 1.4.2017	As on 1.4.2017	As on 1.4.2017
New Delhi	Indraprastha Gas Ltd	NCT of Delhi (Including Noida & Ghaziabad)	421	7,46,833	962	1,903	9,39,475
Karnataka	Gail Gas Ltd.	Bengaluru	3	2,446	3	17	135
Chandigarh	IndianOil- Adani Gas	Chandigarh	2	2,350	0	0	1,000
Kerala	IndianOil- Adani Gas	Ernakulam	0	102	0	2	0
Dadra & Nagar Haveli	Gujarat Gas Ltd.	Dadra & Nagar Haveli	0	73	3	5	0
Total			**1,233**	36,18,276	**6,670**	**21,996**	30,45,268

21. Major natural gas pipeline network

Nature of pipeline		GAIL	Reliance	GSPL	ARN	IOCL	ONGC	Total
Natural gas (as on 01.04.2017)	Length (KM)	11,077	1,480	2,612	817	140	24	**16,150**
	Cap (MMSCMD)	242*	80	43	3.24	9.5	6	**383.8**

*GAIL's Pipelines Cap. Inclusive of CJPL (5MMSCMD) 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-May`17
Crude (Indian Basket)	46.17	47.16	50.57
Petrol	61.72	57.71	61.67
Diesel	55.02	56.12	60.33
Kerosene	55.71	56.46	59.43
LPG ($/MT)	394.71	377.52	388.00
FO ($/MT)	235.13	255.92	297.17
Naphtha ($/MT)	420.14	412.09	427.11
Exchange (Rs./$)	65.46	67.21	64.42

Customs & excise duty rates (w.e.f. 1.3.2016)

Product	Basic customs duty	Excise duty
Petrol	2.50%	Rs 21.48/Ltr
Diesel	2.50%	Rs 17.33/Ltr
PDS SKO	Nil	NIL
Non-PDS SKO	5.00%	14.00%
Sub. Dom LPG	NIL	NIL
Non Domestic LPG	5.00%	8.00%
Furnace Oil (Non-Fert)	5.00%	14.00%
Naphtha (Non-Fert)	5.00%	14.00%
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

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

Particulars	Petrol*	Diesel*
Price before taxes and dealer commission	27.03	26.95
Central taxes	21.98	17.83
State taxes	13.92	8.07
Dealer commission	2.55	1.64
Retail selling price (RSP)	65.48	54.49

Particulars	PDS SKO*	Sub. Dom LPG*
Price before taxes and dealer commission	17.78	505.06
Central taxes	0	0
State taxes	0.59	0
Dealer commission	1.80	47.63
Retail Selling Price	20.17	552.50
Less cash compensation (CC) under DBTL		77.26
CC by OMCs towards uncompensated cost		28.59
Effective cost to consumer after subsidy		446.65

* SKO at Mumbai as on 1st June, 2017,. Petrol and diesel at Delhi as on 16th June, 2017 and LPG as on 1st June. 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	900	1,150

Note: The above calculation for SKO & LPG are based on RTP for June 2017 at level of Crude Price $50.57/bbl & Ex. Rate Rs.64.48/USD.

23. Information on Prices, Taxes and Under-recoveries

Under-recoveries & burden sharing

Product	2014-15	2015-16	2016-17
Per unit under-recovery (Rs./litre/Cylinder)			
Diesel	2.70^	Deregulated	Deregulated
PDS SKO	27.93	13.47	11.39
Sub. Dom LPG	409.72	150.82*	108.78*
Total under-recoveries including DBTL (Rs. Crores)			
Diesel	10,935^	Deregulated	Deregulated
PDS SKO	24,799	11,496	7,595
Sub. Dom LPG#	40,551	16,074	12,133
Total	76,285	27,570	19,728

Burden sharing (Rs. Crores)

Particulars	2014-15	2015-16	2016-17
Government	31,279	26,301	19,728
Upstream	42,822	1,251	0
OMCs	2,184	18	0

Fiscal subsidy under Govt. schemes (Rs. Crores)

PDS SKO	681	Scheme was extended till 31.3.2015
Sub. Dom LPG	1,920	

^Upto 18.10.2014 only.

*Average of DBTL and under-recovery towards non-DBTL;

#Includes subsidy under DBTL (2014-15: Rs.3,971 cr, 2015-16: Rs.16,056 cr ,2016-17 Rs.12,133 cr.

Sales & profit of petroleum sector (Rs. Crores)

2016-17	Turnover	PAT
Upstream Companies (PSU)	1,35,466	22,951
Downstream Companies (PSU)	8,94,041	33,355
Standalone Refineries (PSU)	1,13,948	6,773
Private-RIL	2,65,041	31,425

Borrowings of OMCs (Rs. Crores)

Company	As on Mar`15	As on Mar`16	As on Mar`17
IOCL	55,248	52,469	54,820
BPCL	13,098	15,976	23,159
HPCL	20,335	21,337	21,250

Petroleum sector contribution to Central/State Govt.

Particulars	2014-15	2015-16	2016-17
Central Government	1,72,066	2,58,443	3,34,534
% to total revenue receipt	16%	21%	24%
State Governments	1,60,554	1,60,209	1,88,618
% to total revenue receipt	9%	8%	8%
Total (Rs. Crores)	**3,32,620**	**4,18,652**	**5,23,152**

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-May	
					Target*	2017 (P)
ONGC Videsh Ltd (OVL)	35,357	7,172	6,783	18,360	7,088	695
ONGC Ltd	32,470	29,997	29,502	28,010	29,968	2,807
Oil India Ltd (OIL)	9,351	3,774	3,550	10,514	9,252	437
GAIL (India) Ltd	4,070	1,632	1,880	2,180	3,253	363
Indian Oil Corp. Ltd. (IOCL)	16,661	14,314	14,368	21,918	20,162	2,024
Hindustan Petroleum Corp. Ltd (HPCL)	2,642	2,670	5,459	5,861	7,110	571
Bharat Petroleum Corp. Ltd (BPCL)	4,374	6,875	10,926	16,810	7,101	685
Mangalore Refinery & Petrochem Ltd (MRPL)	1,449	2,747	1,550	614	1,138	62
Chennai Petroleum Corp. Ltd (CPCL)	229	466	1,318	1,293	845	46
Numaligarh Refinery Ltd (NRL)	372	103	237	500	1,261	21
Balmer Lawrie Co. Ltd (BL)	120	80	38	73	50	16
TOTAL	**1,07,095**	**69,830**	**75,611**	**106,133**	**87,227**	**7,726**

* Targets are for full financial year 2017-18 and actual is for April-May, 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 BCM/year of Gas	2.74 MMSCMD
1 TCF of Gas Reserve	3.88 MMSCMD
1 MMTPA of LNG	3.60 MMSCMD
1 MT of LNG	1,314 SCM

1 MMBTU	25.2 SCM @10000 kcal/SCM
GCV (Gross Calorific Value	10,000 kcal/SCM
NCV (Net Calorific Value)	90% of GCV
Gas required for 1 MW power generation	4,541 SCM/day
Power generation from 1 MMSCMD of gas	220 MW