Ready Reckoner

Snapshot of India's Oil & Gas data

April, 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 April, 2017 was marginally lower by 0.6% than that of April, 2016. The reduction in production was primarily contributed by PSC fields e.g. 26 TMT in Panna Mukta, 8 TMT in Ravva fields and 37 TMT in Mangala fields. PSU companies OIL and ONGC registered a growth of 4.5% and 2.5% respectively.
•	Total crude oil processed during April, 2017 was 20 MMT, a marginal decrease of 0.8% over April, 2016. There was a decrease of 4.5% in indigenous crude oil processed over April 2016.
•	Production of petroleum products during April, 2017 saw a marginal growth of 0.1% over April, 2016. BS IV Std. MS and HSD registered growth of 135.4% and 120.3% respectively during April 2017 as compared to April 2016.
•	Product imports decreased by 9.9% during April, 2017 over the corresponding period of 2016. LPG, Lubes and Pet-coke imports contributed to 80.7 % share of total POL imports during April, 2017.
•	Export of POL products increased by 6.0% during April, 2017 as compared to April, 2016 primarily due to higher production as well as higher surplus availability of POL products like Naphtha, Fuel oil and VGO.

•	Consumption of petroleum products recorded a positive growth of 3.3% during April 2017 after registering negative growth for three consecutive months in a row. During April 2017, growth was seen in LPG, Naphtha, MS, LDO, HSD, ATF, Pet Coke and other products consumption. In April 2016, total petroleum product consumption had recorded a growth of 10.3%.
•	SKO registered a major de-growth of -35.8% during the month, which was the highest ever degrowth since 1970-71. This was mainly because of reduced allocation to states and voluntary surrender of PDS SKO quota by some states.
•	Total LPG consumption for the last forty four months in a row had recorded positive growth and during April 2017 a growth of 3.9% was witnessed. In April 2016, total LPG consumption had recorded a growth of 7.5%.
•	Gross production of natural gas for the month of April, 2017 was 2,533 MMSCM which was higher by 1.8 % compared with the corresponding month of the previous year.
•	LNG import for the month of April, 2017 was 2,182 MMSCM which was 1.9 % higher than the corresponding month of the previous year.
•	The prices of Brent crude averaged \$52.53/bbl during April 2017 as against \$51.56 /bbl during March 2017. Indian basket crude averaged \$52.49/bbl during April, 2017as against \$51.47 /bbl during March 2017.
•	The import bill of crude oil is estimated to increase by 26% from \$ 70 billion in 2016-17 to \$88 billion in 2017-18 considering Indian basket crude oil price of \$ 55/bbl and \$/Rs=65 for the balance part of the financial year.

1. Selected indicators of the Indian economy

	Economic indicators	Unit/Base	2013-14	2014-15	2015-16 (P)	2016-17 (P)
1	Population (as on 1st March, 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 %		-4.9	-0.2	8.7
4	Gross Fiscal Deficit	%	-4.5	-4.1	-3.9	-3.5 (RE)

	Economic indicators	Unit/ Base	2013-14	2014-15	2015-16	2016-17(P)	April(P) 2016	April(P) 2017
5	Index of Industrial Production*	Growth %	3.3	4.1	3.4	5.0	6.5	2.7~
6	Imports	$ Billion	450.2	448.0	381.0	380.4	25.4	37.9
7	Exports	$ Billion	314.4	310.3	262.3	274.6	20.6	24.6
8	Trade Balance	$ Billion	-135.8	-137.7	-118.7	-105.7	-4.8	-13.2
9	Foreign Exchange Reserves*	$ Billion	303.7	341.4	355.6	370.0	363.1	372.7

*~IIP is for the month of March 2017;*Base year of IIP changed to 2011-12; AE-Advanced Estimates; RE-Revised Estimates; *2013-14 - As on March 28, 2014; 2014-15 - As on March 27, 2015; 2015-16 - as of March 25, 2016; 2016-17 - As of March 31, 2017; April 2016 - As of April 29, 2016; April 2017 - As on April 28, 2017.*

2. Crude oil, LNG and petroleum products at a glance								
Details		Unit/ Base	2013-14	2014-15	2015-16	2016-17(P)	April(P)	
							2016	2017
1	Crude oil production in India	MMT	37.8	37.5	36.9	36.0	3.0	2.9
2	Consumption of petroleum products	MMT	158.4	165.5	184.7	194.2	16.3	16.8
3	Production of petroleum products	MMT	220.3	220.7	231.2	242.7	19.5	19.6
4	Imports & exports:							
Crude oil imports		MMT	189.2	189.4	202.9	213.9	18.0	18.1
		$ Billion	143.0	112.7	64.0	70.2	4.8	6.7
Petroleum products (POL) imports		MMT	16.7	21.3	29.5	35.9	3.1	2.8
		$ Billion	12.5	12.1	10.0	10.6	0.9	0.8
Gross petroleum imports (Crude + POL)		MMT	205.9	210.7	232.3	249.8	21.0	20.9
		$ Billion	155.4	124.9	73.9	80.8	5.7	7.4
Petroleum products exports		MMT	67.9	63.9	60.5	65.5	4.9	5.2
		$ Billion	60.7	47.3	27.1	29.1	1.9	2.5
LNG imports		$ Billion	8.6	9.2	6.7	6.1	0.4	0.6
5	Petroleum imports as % of India's gross imports (in value)	%	34.5	27.9	19.4	21.3	22.4	19.6
6	Petroleum exports as % of India's gross exports (in value)	%	19.3	15.2	10.3	10.6	9.5	10.2
7	Import dependency of crude (on consumption)	%	77.6%	78.5%	80.9%	82.1%	82.1%	83.4%

3. Indigenous crude oil production (Million Metric Tonne)

Details	2013-14	2014-15	2015-16	2016-17(P)	April(P) 2016	April(P) 2017 (Target)	April(P) 2017
ONGC	19.2	18.6	18.5	18.3	1.5	1.8	1.5
Oil India Limited (OIL)	3.5	3.4	3.2	3.3	0.3	0.3	0.3
Private / Joint Ventures (JVs)	12.0	11.7	11.3	10.5	0.9	0.9	0.8
Total Crude Oil	**34.7**	**33.8**	**33.1**	**32.0**	**2.7**	**3.0**	**2.6**
Condensate	3.1	3.7	3.8	4.0	0.3		0.3
Total (Crude + Condensate) (MMT)	**37.8**	**37.5**	**36.9**	**36.0**	**3.0**	**3.0**	**2.9**
Total (Crude + Condensate) (Million Bbl)	**277.0**	**274.7**	**270.8**	**263.9**	**21.7**	**22.0**	**21.5**

**Targets are inclusive of condensate. 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	2013-14	2014-15	2015-16	2016-17(P)	April(P) 2016	April(P) 2017
Total domestic production (MMTOE)	73.2	71.1	69.2	67.9	5.1	5.1
Overseas production (MMTOE)	8.8	9.9	10.1	16.2	0.8	2.6
Overseas production as % of domestic production	**12.1%**	**13.9%**	**14.6%**	**23.9%**	**15.8%**	**50.3%**

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

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

	Details	2013-14	2014-15	2015-16	2016-17(P)	April(P) 2016	April(P) 2017
1	High Sulphur crude	160.2	161.4	166.1	177.6	14.5	14.7
2	Low Sulphur crude	62.2	61.9	66.7	67.8	5.6	5.3
Total crude processed		**222.5**	**223.3**	**232.9**	**245.4**	**20.2**	**20.0**
Share of HS crude in total crude oil processing		**72.0%**	**72.3%**	**71.3%**	**72.4%**	**72.0%**	**73.7%**

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	88,416	5,74,509

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

If crude prices increase by one $/bbl - Net Import bill increases by Rs. 9,661 crores ($ 1.49 bn)

If exchange rate of $ increases by Rs. 1/$ - Net Import bill increases by Rs. 8,175 crores ($ 1.21 bn)

7. Self-sufficiency in petroleum products (Million Metric Tonnes)							
Details		**2013-14**	**2014-15**	**2015-16**	**2016-17[(P)]**	**April[(P)]**	
						2016	**2017**
1	Indigenous crude oil processing :	33.9	34.2	34.1	33.5	2.8	2.7
a)	Products from indigenous crude (93.3% of crude oil processed)	31.6	32.0	31.8	31.3	2.6	2.5
b)	Products from fractionators (Including LPG and Gas)	3.9	3.7	3.4	3.5	0.3	0.3
2	Total production from indigenous crude & condensate **(a + b)**	35.5	35.6	35.2	34.8	2.9	2.8
3	Total domestic consumption	158.4	165.5	184.7	194.2	16.3	16.8
% Self-sufficiency (2 / 3)		**22.4%**	**21.5%**	**19.1%**	**17.9%**	**17.9%**	**16.6%**

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

Com-pany	Refinery	Installed capacity (1.4.2017)	2013-14	2014-15	2015-16	2016-17(P)	Crude oil processing April(P) 2016	2017 (Target)	2017
IOCL	Barauni (1964)	6.0	6.5	5.9	6.5	6.5	0.6	0.5	0.6
	Koyali (1965)	13.7	13.0	13.3	13.8	14.0	1.2	1.1	1.1
	Haldia (1975)	7.5	8.0	7.7	7.8	7.7	0.7	0.7	0.7
	Mathura (1982)	8.0	6.6	8.5	8.9	9.2	0.8	0.8	0.8
	Panipat (1998)	15.0	15.1	14.2	15.3	15.6	1.3	1.3	1.3
	Guwahati (1962)	1.0	1.0	1.0	0.9	0.9	0.08	0.07	0.09
	Digboi (1901)	0.65	0.7	0.6	0.6	0.5	0.05	0.04	0.05
	Bongaigaon(1979)	2.4	2.3	2.4	2.4	2.5	0.2	0.2	0.2
	Paradip (2016)	15.0	-	-	1.8	8.2	0.4	0.9	0.7
	IOCL TOTAL	**69.2**	**53.1**	**53.6**	**58.0**	**65.2**	**5.3**	**5.5**	**5.5**
CPCL	Manali (1969)	10.5	10.1	10.2	9.1	9.8	0.8	0.8	0.7
	CBR (1993)	1.5	0.6	0.5	0.5	0.5	0.06	0.04	0.04
	CPCL-TOTAL	**12.0**	**10.6**	**10.8**	**9.6**	**10.3**	**0.9**	**0.9**	**0.7**
BPCL	Mumbai (1955)	12.0	12.7	12.8	13.4	13.5	1.1	0.9	1.0
	Kochi (1966)	12.4	10.3	10.4	10.7	11.8	0.9	1.0	1.0
BORL	Bina (2011)	6.0	5.4	6.2	6.4	6.4	0.5	0.5	0.6
NRL	Numaligarh (1999)	3.0	2.6	2.8	2.5	2.7	0.2	0.2	0.2
	BPCL-TOTAL	**33.4**	**31.0**	**32.2**	**33.0**	**34.4**	**2.8**	**2.7**	**2.8**

Com-pany	Refinery	Installed capacity (1.4.2017)	2013-14	2014-15	2015-16	2016-17 (P)	Crude oil processing April (P)		
							2016	2017 (Target)	2017
ONGC	Tatipaka (2001)	0.1	0.07	0.05	0.07	0.09	0.007	0.005	0.006
MRPL	Mangalore (1996)	15.0	14.6	14.6	15.5	16.0	1.2	1.3	1.2
	ONGC TOTAL	**15.1**	**14.7**	**14.7**	**15.6**	**16.1**	**1.2**	**1.3**	**1.2**
HPCL	Mumbai (1954)	7.5	7.7	7.4	8.0	8.5	0.7	0.7	0.7
	Visakh (1957)	8.3	7.8	8.8	9.2	9.3	0.8	0.7	0.7
HMEL	Bathinda (2012)	9.0	9.3	7.3	10.7	10.5	0.9	0.7	0.8
	HPCL- TOTAL	**24.8**	**24.8**	**23.5**	**27.9**	**28.4**	**2.4**	**2.1**	**2.3**
RIL*	Jamnagar (DTA) (1999)	33.0	30.3	30.9	32.4	32.8	2.7	2.7	2.7
	Jamnagar (SEZ) (2008)	27.0	37.7	37.2	37.1	37.4	3.1	3.1	3.1
EOL	Vadinar (2006)	20.0	20.2	20.5	19.1	20.9	1.7	1.7	1.7
All India		**234.5**	**222.5**	**223.3**	**232.9**	**245.4**	**20.2**	**20.0**	**20.0**

Note : RIL target for 2017-18 is previous year crude processing. 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	1193	660	1017	5301	937	0	-	10299
(as on 1.5.2017)	Cap (MMTPA)	70.1	8.4	8.7	9.0	48.6	6.0	-	-	150.8
Products	Length (KM)	-	654	-	-	7491	1936	3333	2688	16102
(as on 1.5.2017)	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**	**Apr-Dec`16**
IOCL	Barauni	6.68	-1.20	2.93	6.08
	Koyali	4.52	4.79	6.80	7.38
	Haldia	2.84	-1.51	3.96	6.93
	Mathura	2.10	-2.19	3.30	6.24
	Panipat	3.62	-1.97	4.15	7.64
	Guwahati	6.38	8.68	15.88	22.11
	Digboi	15.41	13.73	16.17	23.89
	Bongaigaon	6.71	-0.26	11.09	19.11
	Paradip	-	-	-0.65	2.41
	Average	**4.24**	**0.27**	**5.06**	**7.36**
BPCL	Kochi	4.80	3.17	6.87	5.07
	Mumbai	3.95	3.97	6.37	5.01
	Average	**4.33**	**3.62**	**6.59**	**5.03**
HPCL	Mumbai	5.38	4.88	8.09	6.26
	Visakhapatnam	1.50	1.12	5.46	4.93
	Average	**3.43**	**2.84**	**6.68**	**5.57**
CPCL	Chennai	4.08	1.97	5.27	5.81
MRPL	Mangalore	2.67	-0.64	5.20	7.23
NRL	Numaligarh	12.09	16.67	23.68	27.85
BORL	Bina	7.70	6.10	11.70	11.60
RIL	Jamnagar	8.10	8.60	10.80	10.80
Essar	Vadinar	7.98	8.37	10.81	*

**Being unlisted company, quarterly results not declared.*

11. GRM of North-East refineries excluding excise duty benefit ($/bbl)					
Company	**Refinery**	**2013-14**	**2014-15**	**2015-16**	**Apr-Dec`16**
IOCL	Guwahati	0.88	0.96	1.26	0.79
	Digboi	8.50	5.42	4.16	7.33
	Bongaigaon	2.34	-6.51	0.08	5.32
NRL	Numaligarh	6.98	9.46	8.06	7.90

12. Production and consumption of petroleum products (Million Metric Tonnes)										
Products	**April 2014-March 2015**		**April 2015-March 2016**		**April 2016-March 2017 (P)**		**April 2016**		**April 2017 (P)**	
	Prod^n	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**
LPG	9.8	18.0	10.6	19.6	11.3	21.5	0.8	1.6	0.9	1.7
MS	32.2	19.1	35.3	21.8	36.5	23.8	3.0	2.0	3.0	2.1
NAPHTHA	17.5	11.1	17.9	13.3	19.8	13.3	1.4	1.1	1.6	1.2
ATF	11.1	5.7	11.8	6.3	13.8	7.0	1.2	0.6	1.1	0.6
SKO	7.6	7.1	7.5	6.8	6.0	5.4	0.5	0.5	0.4	0.3
HSD	94.3	69.4	98.6	74.6	102.1	76.0	8.0	6.8	8.4	7.0
LDO	0.4	0.4	0.4	0.4	0.6	0.4	0.035	0.03	0.025	0.04
LUBES	0.9	3.3	1.0	3.6	1.0	3.4	0.08	0.3	0.07	0.3
FO/LSHS	12.2	6.0	10.7	6.6	12.0	7.2	1.1	0.7	0.6	0.6
BITUMEN	4.7	5.1	5.2	5.9	5.2	5.9	0.6	0.7	0.5	0.6
OTHERS	30.0	20.4	32.2	25.6	34.4	30.3	2.9	2.1	2.8	2.5
ALL INDIA	**220.7**	**165.5**	**231.2**	**184.7**	**242.7**	**194.2**	**19.5**	**16.3**	**19.6**	**16.8**
Growth (%)	**0.2%**	**4.5%**	**4.8%**	**11.6%**	**5.0%**	**5.2%**	**19.0%**	**10.3%**	**0.1%**	**3.3%**
Note: Prod^n - Production; Consump^n - Consumption										

13. LPG consumption (Thousand Metric Tonne)

LPG category	2013-14	2014-15	2015-16	2016-2017 (P)	April (P) 2016	April (P) 2017	April (P) Gr (%)
1. PSU Sales :							
LPG-Packed Domestic	14,412	16,040.4	17,181.7	18,870.3	1392.1	1441.6	3.6
LPG-Packed Non-Domestic	1,073.6	1,051.0	1,464.4	1,775.7	130.2	141.5	8.7
LPG-Bulk	245.7	315.7	317.2	364.2	30.5	21.2	-30.5
Auto LPG	194.3	163.8	170.9	167.2	13.2	14.4	8.7
Sub-Total (PSU Sales)	**15925.2**	**17,570.9**	**19,134.2**	**21,177.5**	**1,566.1**	**1,618.7**	**3.4**
2. Direct Private Imports	368.5	429.2	489.0	370.7	25.0	34.0	**36.1**
Total (1+2)	**16,293.6**	**18,000.1**	**19,623.2**	**21,548.2**	**1,591.0**	**1,652.7**	**3.9**

14. Kerosene allocation vs upliftment (Kilo Litres)

Product	2014-15		2015-16		2016-17 (P)	
	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

15. Industry marketing infrastructure (as on 1.4.2017) (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	2013-14	2014-15	2015-16	2016-2017(P)	April(P) 2016	April(P) 2017 (Target)	April(P) 2017
(a) Gross production	35,407	33,657	32,249	31,897	2,488	2,781	2,533
- ONGC	23,284	22,023	21,177	22,088	1,631	1,899	1,790
- Oil India Limited (OIL)	2,626	2,722	2,838	2,937	250	236	241
- Private / Joint Ventures (JVs)	9,497	8,912	8,235	6,872	607	646	501
(b) Net production	34,574	32,693	31,138	30,848	2,400		2,455
(c) LNG import	17,728	18,536	21,309	24,686	2,142		2,182
(d) Total consumption including internal consumption (Net production+Import) (b+c)	52,302	51,229	52,448	55,534	4,542		4,637
(e) Total consumption (in BCM)	52.30	51.23	52.45	55.53	4.54		4.64
(f) Import dependency based on consumption {c/d*100}	33.90	36.18	40.63	44.45	47.16		47.06

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	April, 2017	46.263	MMSCM
Production of CBM gas-Cumulative	April 2017-April, 2017	46.263	MMSCM

18. Gas pipelines under execution / construction as on 01.04.2017

Network/ Region	Entity	Length (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 1.4.2017	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	54,414	241	166	1,25,227
Andhra Pradesh	Bhagyanagar Gas Ltd	Kakinada, Vijayawada	16	3,902	0	41	15,711
Telangana	Bhagyanagar Gas Ltd	Hyderabad	26	2,706	5	5	23,570
Assam	Assam Gas Co. Ltd	Tinsukia, Dibrugarh, Sibsagar, Jorhat, Golaghat	0	30,023	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	16,53,663	4,200	14,766	10,94,973
Madhya Pradesh	Aavantika Gas Ltd, GAIL Gas Ltd	Dewas, Vijaipur, Indore including Ujjain, Gwalior, Pithampura	24	13,888	99	63	23,310
Rajasthan	GAIL Gas Ltd	Kota	3	157	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 1.4.2017	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	9,99,868	191	3,387	6,85,883
Tripura	Tripura Natural Gas Co. Ltd	Agartala	5	28,669	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	51,195	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 1.4.2017	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	7,42,205	962	1,903	9,39,475
Karnataka	Gail Gas Ltd.	Bengaluru	3	2,446	3	17	135
Chandigarh	Indian Oil- Adani Gas Pvt. Ltd.	Chandigarh	2	2,350	0	0	1,000
Kerala	Indian Oil- Adani Gas Pvt. Ltd.	Ernakulam	0	102	0	2	0
Dadra & Nagar Haveli	Gujarat Gas Ltd.	Dadra & Nagar Haveli	0	58	3	5	0
Total			**1,233**	**35,85,646**	**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	811	140	24	**16,145**
	Cap (MMSCMD)	206	80	43	3.26	9.5	6	**347.8**

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)

	2015-16	2016-17	April 2017
Crude (Indian Basket)	46.17	47.16	52.49
Petrol	61.72	57.71	64.81
Diesel	55.02	56.12	63.70
Kerosene	55.71	56.46	62.51
LPG ($/MT)	394.71	377.52	466.00
FO ($/MT)	235.13	255.92	301.34
Naphtha ($/MT)	420.14	412.09	458.94
Exchange (Rs./$)	65.46	67.21	64.51

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

	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)

	Petrol*	Diesel*
Price before taxes and dealer commission	26.85	27.29
Central taxes	22.03	17.84
State taxes	13.89	8.13
Dealer commission	2.55	1.64
Retail selling price (RSP)	65.32	54.9

	PDS SKO*	Sub. Dom LPG*
Price before taxes and dealer commission	17.28	583.73
Central taxes	0	0
State taxes	0.57	0
Dealer commission	1.70	47.75
Retail Selling Price	19.55	631.00
Less cash compensation (CC) under DBTL		159.64
CC by OMCs towards uncompensated cost		28.59
Effective cost to consumer after subsidy		442.77

* SKO at Mumbai as on 1st May, 2017,. Petrol and diesel at Delhi as on 16th May, 2017 and LPG as on 1st May, 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	1,250	1,510

Note: The above calculation for SKO & LPG are based on RTP for 1st May 2017 at level of Crude Price $52.62/bbl & Ex. Rate Rs.64.59/USD

23. Information on Prices, Taxes and Under-recoveries

Under-recoveries & burden sharing

	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)

	2014-15	2015-16	2016-17
Government	31,279	26301**	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	

*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; ** Govt. compensation pending disbursement for PDS SKO(2016-17 Rs.5,269 cr); ^up to 18.10.2014 only.

Sales & profit of petroleum sector (Rs. Crores)

Apr-Dec`16	Turnover	PAT
Upstream Companies (PSU)	97,788	18,332
Downstream Companies (PSU)	6,48,793	25,973
Standalone Refineries (PSU)	82,223	4,062
Private-RIL	2,37,291	21,825

Borrowings of OMCs (Rs. Crores)

	As on Mar`15	As on Mar`16	As on December, 2016
IOCL	55,248	52,469	37,811
BPCL	13,098	15,976	16,274
HPCL	20,335	21,337	15,313

Petroleum sector contribution to Central/State Govt.

	2014-15	2015-16	Apr-Dec`16
Central Government	1,72,066	2,58,443	2,20,313
% to total revenue receipt	16%	21%	N.A
State Governments	1,60,554	1,60,209	1,29,937
% to total revenue receipt	9%	8%	NA
Total (Rs. Crores)	**3,32,620**	**4,18,652**	**3,50,250**

Subsidy as a % of GDP(at current prices)

	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-March	
					Target*	2017(P)
ONGC Videsh Ltd (OVL)	35,357	7,172	6,783	18,360	7,088	677
ONGC Ltd	32,470	29,997	29,502	28,010	29,968	1,301
Oil India Ltd (OIL)	9,351	3,774	3,550	10,514	9,252	220
GAIL (India) Ltd	4,070	1,632	1,880	2,180	3,253	80
Indian Oil Corp. Ltd. (IOCL)	16,661	14,314	14,368	21,918	20,162	804
Hindustan Petroleum Corp. Ltd (HPCL)	2,642	2,670	5,459	5,861	7,110	185
Bharat Petroleum Corp. Ltd (BPCL)	4,374	6,875	10,926	16,810	7,101	291
Mangalore Refinery & Petrochem Ltd (MRPL)	1,449	2,747	1,550	614	1,138	10
Chennai Petroleum Corp. Ltd (CPCL)	229	466	1,318	1,293	845	15
Numaligarh Refinery Ltd (NRL)	372	103	237	500	1,261	5
Balmer Lawrie Co. Ltd (BL)	120	80	38	73	50	11
TOTAL	**1,07,095**	**69,830**	**75,611**	**1,06,133**	**87,227**	**3,599**

*Targets are for full financial year 2017-18 and actual is for April 2017.

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