Ready Reckoner

Snapshot of India's Oil & Gas data

April, 2018

Analysis • Knowledge • Information

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

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Highlights for the month

•	Indigenous crude oil and condensate production during April 2018 was marginally lower by 0.8% than that of April 2017. PSC fields registered growth of 5.5% during the month over April 2017; however PSU companies registered de-growth of 3.3%.
•	Total crude oil processed during April 2018 was 19.9 MMT, which was a decrease of 0.9% over April 2017 mainly due to decrease in crude oil processed by RIL SEZ and IOCL Paradip refineries. Indian refineries processed 73.9% high sulphur crude oil during April 2018 against 73.7% during April 2017. There was a decrease of 1.7% in indigenous crude oil processed by refineries during April 2018 as compared to April 2017 due to reduction in indigenous crude oil production.
•	Production of petroleum products during April 2018 saw a growth of 2.7% over April 2017. Total POL production during April 2018 was the highest during the month of April of any year. LPG, fuel oil and bitumen production registered a growth of 12.4%, 12.2% and 13.0% respectively during April 2018 as compared to April 2017. Fractionators achieved 13.6% growth in production during April 2018 as compared to April 2017.
•	Crude oil import during April 2018 was 17.2 MMT which was a decrease of 5.4% as compared to April 2017.
•	Product imports increased by 16.4% during April 2018 as compared to April 2017 mainly due to increase in imports of Naphtha, HSD and Fuel Oil.
•	Exports of POL products decreased by 26.0% during April 2018 as compared to April 2017. All POL products (except Petcoke/CBFS) registered a de-growth in exports during April 2018 as compared to April 2017.
•	Petroleum product consumption registered a growth of 4.4% during April 2018 as compared to 2.8% growth during April 2017. Except for SKO (-7.4%), lubes & greases (-0.1), FO/LSHS (-8.6%), petcoke (-0.7%) and products in 'others' category (-0.7%) all other products registered positive growth during April 2018.

•	Total LPG consumption continuously for the last fifty six months in a row recorded a positive growth. LPG consumption registered a growth of 12.9% during April 2018 as compared to 3.8% growth during April 2017. Out of the five regions, Northern region had the highest share in consumption of 32.0% followed by Southern region at 27.8%, Western region at 21.8%, Eastern region at 15.8% and North Eastern region at 2.6% during the period April 2018. Eastern region had the highest growth of 20.1% in total LPG consumption during the period April 2018. This year during April 2018, 4.05 lakh DBCs and 26.05 lakh new connections were released out of which 19.10 lakh were released under PMUY. Total 375.13 lakh connections were released under PMUY till 30.04.2018 since inception.
•	SKO consumption registered a de-growth of -7.4% during April 2018 as compared to de-growth of -35.8% during April 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 and Andhra Pradesh.
•	Gross production of natural gas for the month of April, 2018 was 2663.0 MMSCM which was higher by 5.1% compared with the corresponding month of the previous year. There is a continuous increasing trend of gross production of natural gas in the month of April since 2016-17.
•	LNG import for the month of April, 2018 was 2280.1 MMSCM which was 4.48 % higher than the corresponding month of the previous year.
•	The price of Brent Crude averaged $71.80/bbl during April, 2018 as against $65.90/bbl during March, 2018. The Indian basket crude averaged $69.30/bbl during April, 2018 as against $63.80/bbl during the previous month.
•	The import bill of crude oil is estimated to increase by 24% from $88 billion in 2017-18 to $109 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 3rd RE	8.2 2nd RE	7.1 1st RE	6.6 2nd AE
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	2014-15	2015-16	2016-17	2017-18 (P)	April (P)	
							2017-18	2018-19
5	Index of Industrial Production (Base: 2011-12)	Growth %	4.0	3.3	4.6	4.3	4.4#	4.4#
6	Imports	$ Billion	448.0	381.0	384.4	459.7	37.9	39.6
7	Exports	$ Billion	310.3	262.3	275.9	302.8	24.6	25.9
8	Trade Balance	$ Billion	-137.7	-118.7	-108.5	-156.8	-13.2	-13.7
9	Foreign Exchange Reserves @	$ Billion	341.4	355.6	370.0	424.4	372.7	420.4

#IIP is for the month of March; @2014-15-as on March 27, 2015, 2015-16-as on March 25, 2016, 2016-17-as on March 31, 2017, 2017-18-as on March 30, 2018, April 2017- as on April 28, 2017 and April 2018-as on April 27, 2018; AE-Advanced Estimates; BE-Budget Estimates; RE-Revised Estimates; FE-Final Estimates.

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

	Details	Unit/ Base	2014-15	2015-16	2016-17	2017-18 (P)	April (P) 2017-18	April (P) 2018-19
1	Crude oil production in India	MMT	37.5	36.9	36.0	35.7	2.9	2.9
2	Consumption of petroleum products	MMT	165.5	184.7	194.6	204.9	16.9	17.7
3	Production of petroleum products	MMT	221.1	231.9	243.5	254.4	19.6	20.2
4	Imports & exports:							
	Crude oil imports	MMT	189.4	202.9	213.9	220.4	18.1	17.2
		$ Billion	112.7	64.0	70.2	87.8	6.7	8.2
	Petroleum products (POL) imports	MMT	21.3	29.5	36.3	35.9	2.6	3.1
		$ Billion	12.1	10.0	10.6	13.4	0.9	1.2
	Gross petroleum imports (Crude + POL)	MMT	210.7	232.3	250.2	256.3	20.8	20.2
		$ Billion	124.9	73.9	80.8	101.2	7.6	9.4
	Petroleum products exports	MMT	63.9	60.5	65.5	66.8	5.2	3.8
		$ Billion	47.3	27.1	29.0	34.9	2.5	2.5
	LNG imports	$ Billion	9.2	6.7	6.1	7.8	0.6	0.8
5	Petroleum imports as percentage of India's gross imports (in value terms)	%	27.9	19.4	21.0	22.0	20.0	23.7
6	Petroleum exports as percentage of India's gross exports (in value terms)	%	15.2	10.3	10.5	11.5	10.2	9.5
7	Import dependency of crude (on consumption basis)	%	78.3	80.6	81.7	82.8	83.0	83.7

3. Indigenous crude oil production (Million Metric Tonnes)

Details	2014-15	2015-16	2016-17	2017-18 (P)	April (P)		
					2017-18	2017-18 (Target)*	2018-19
ONGC	20.8	21.1	20.9	20.8	1.7	1.8	1.6
Oil India Limited (OIL)	3.4	3.2	3.3	3.4	0.3	0.3	0.3
Private / Joint Ventures (JVs)	11.7	11.2	10.4	9.9	0.8	0.8	0.8
Total Crude Oil	**35.9**	**35.5**	**34.5**	**34.0**	**2.8**	**2.9**	**2.8**
Condensate	1.6	1.4	1.5	1.6	0.1		0.1
Total (Crude + Condensate) (MMT)	**37.5**	**36.9**	**36.0**	**35.7**	**2.9**	**2.9**	**2.9**
Total (Crude + Condensate) (Million Bbl)	**274.6**	**270.8**	**263.9**	**261.6**	**21.5**	**21.1**	**21.4**

*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	2014-15	2015-16	2016-17	2017-18 (P)	April (P)	
					2017-18	2018-19
Total domestic production (MMTOE)	71.1	69.2	67.9	68.3	5.5	5.5
Overseas production (MMTOE)	9.8	10.1	16.1	19.6	1.7	1.7
Overseas production as percentage of domestic production	**13.8%**	**14.6%**	**23.8%**	**28.7%**	**30.8%**	**31.3%**

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

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

Details		2014-15	2015-16	2016-17	2017-18 (P)	April (P)	
						2017-18	2018-19
1	High Sulphur crude	161.4	166.1	177.4	188.4	14.8	14.7
2	Low Sulphur crude	61.9	66.7	67.9	63.6	5.3	5.2
Total crude processed		**223.3**	**232.9**	**245.4**	**251.9**	**20.0**	**19.9**
Percentage share of HS crude in total crude oil processing		**72.3%**	**71.3%**	**72.3%**	**74.8%**	**73.7%**	**73.9%**

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)	227.00	108,793	7,08,136

Note: Imports are estimated considering average (for 2018-19) crude oil price $ 65/bbl and exchange rate Rs. 65/$. Import quantity of crude oil for the year 2018-19 has been estimated based on percentage increase in imports of 2017-18 over 2016-17.

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

If crude price changes by one $/bbl - Crude oil import bill changes by Rs. 10,064 crores

If exchange rate of Rs./$ changes by Rs. 1/$ - Crude oil import bill changes by Rs. 10,057 crores

7. Self-sufficiency in petroleum products (Million Metric Tonnes)

Particulars		2014-15	2015-16	2016-17	2017-18 (P)	April (P) 2017-18	April (P) 2018-19
1	Indigenous crude oil processing	34.2	34.1	33.5	32.8	2.7	2.7
2	Products from indigenous crude (93.3% of crude oil processed)	32.0	31.8	31.3	30.6	2.5	2.5
3	Products from fractionators (Including LPG and Gas)	4.0	4.0	4.3	4.6	0.3	0.4
4	Total production from indigenous crude & condensate **(2 + 3)**	35.9	35.8	35.6	35.2	2.9	2.9
5	Total domestic consumption	165.5	184.7	194.6	204.9	16.9	17.7
% Self-sufficiency (4 / 5)		**21.7%**	**19.4%**	**18.3%**	**17.2%**	**17.0%**	**16.3%**

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

Company	Refinery	Installed capacity (1.5.2018) (MMTPA)	Crude oil processing (MMT)						
			2014-15	2015-16	2016-17	2017-18 (P)	April (P)		
							2017-18 (Actual)	2018-19 (Target)	2018-19
IOCL	Barauni (1964)	6.0	5.9	6.5	6.5	5.8	0.6	0.6	0.6
	Koyali (1965)	13.7	13.3	13.8	14.0	13.8	1.1	1.2	1.2
	Haldia (1975)	7.5	7.7	7.8	7.7	7.7	0.7	0.5	0.7
	Mathura (1982)	8.0	8.5	8.9	9.2	9.2	0.8	0.8	0.8
	Panipat (1998)	15.0	14.2	15.3	15.6	15.7	1.3	1.3	1.4
	Guwahati (1962)	1.0	1.0	0.90	0.86	1.02	0.09	0.08	0.09
	Digboi (1901)	0.65	0.59	0.56	0.53	0.67	0.05	0.05	0.06
	Bongaigaon(1979)	2.35	2.4	2.4	2.5	2.4	0.2	0.2	0.2
	Paradip (2016)	15.0	-	1.8	8.2	12.7	0.7	0.7	0.3
	IOCL TOTAL	**69.2**	**53.6**	**58.0**	**65.2**	**69.0**	**5.5**	**5.3**	**5.3**
CPCL	Manali (1969)	10.5	10.2	9.1	9.8	10.3	0.7	0.9	0.8
	CBR (1993)	1.0	0.53	0.54	0.53	0.50	0.04	0.04	0.04
	CPCL-TOTAL	**11.5**	**10.8**	**9.6**	**10.3**	**10.8**	**0.7**	**0.9**	**0.9**
BPCL	Mumbai (1955)	12.0	12.8	13.4	13.5	14.1	1.0	1.1	1.2
	Kochi (1966)	15.5	10.4	10.7	11.8	14.1	1.0	1.3	1.3
BORL	Bina (2011)	6.0	6.2	6.4	6.4	6.7	0.6	0.5	0.5
NRL	Numaligarh (1999)	3.0	2.8	2.5	2.7	2.8	0.2	0.2	0.2
	BPCL-TOTAL	**36.5**	**32.2**	**33.0**	**34.4**	**37.7**	**2.8**	**3.2**	**3.2**

Company	Refinery	Installed capacity (1.5.2018) (MMTPA)	Crude oil processing (MMT)						
			2014-15	2015-16	2016-17	2017-18 (P)	April (P)		
							2017-18 (Actual)	2018-19 (Target)	2018-19
ONGC	Tatipaka (2001)	0.066	0.051	0.067	0.085	0.080	0.006	0.005	0.007
MRPL	Mangalore (1996)	15.0	14.6	15.5	16.0	16.1	1.2	1.3	1.3
	ONGC TOTAL	**15.1**	**14.7**	**15.6**	**16.1**	**16.2**	**1.2**	**1.3**	**1.3**
HPCL	Mumbai (1954)	7.5	7.4	8.0	8.5	8.6	0.7	0.7	0.7
	Visakh (1957)	8.3	8.8	9.2	9.3	9.6	0.8	0.8	0.8
HMEL	Bathinda (2012)	11.3	7.3	10.7	10.5	8.8	0.8	0.9	1.0
	HPCL- TOTAL	**27.1**	**23.5**	**27.9**	**28.3**	**27.1**	**2.3**	**2.4**	**2.5**
RIL	Jamnagar (DTA) (1999)	33.0	30.9	32.4	32.8	33.2	2.7	2.7	2.7
	Jamnagar (SEZ) (2008)	35.2	37.2	37.1	37.4	37.3	3.1	3.1	2.3
EOL	Vadinar (2006)	20.0	20.5	19.1	20.9	20.7	1.7	1.7	1.7
All India		**247.6**	**223.3**	**232.9**	**245.4**	**251.9**	**20.0**	**20.5**	**19.9**

* Targets are as recived from oil companies .RIL target for 2018-19 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

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 1.5.2018)	Cap (MMTPA)	58.5	8.4	10.7	9.0	48.6	6.0	-	-	**141.2**
Products	Length (KM)	-	654	-	-	7,950	1,948	3,371	2,688	**16611**
(as on 1.5.2018)	Cap (MMTPA)	-	1.7	-	-	46.2	16.2	38.1	9.3	**111.4**

***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**	**Apr-Dec'2017**
IOCL	Barauni	-1.20	2.93	6.52	6.10
	Koyali	4.79	6.80	7.55	9.44
	Haldia	-1.51	3.96	6.80	6.12
	Mathura	-2.19	3.30	7.01	6.72
	Panipat	-1.97	4.15	7.95	7.59
	Guwahati **	8.68	15.88	22.14	22.04
	Digboi **	13.73	16.17	24.49	25.00
	Bongaigaon **	-0.26	11.09	20.15	20.19
	Paradip #	-	-0.65	4.22	7.14
	Weighted average	**0.27**	**5.06**	**7.77**	**8.28**
BPCL	Kochi	3.17	6.87	5.16	6.49
	Mumbai	3.97	6.37	5.36	7.44
	Weighted average	**3.62**	**6.59**	**5.26**	**6.97**
HPCL	Mumbai	4.88	8.09	6.95	8.40
	Visakhapatnam	1.12	5.46	5.51	6.71
	Weighted average	**2.84**	**6.68**	**6.20**	**7.51**
CPCL	Chennai	1.97	5.27	6.05	6.64
MRPL	Mangalore	-0.64	5.20	7.75	7.42
NRL	Numaligarh **	16.67	23.68	28.56	31.20
BORL	Bina	6.10	11.70	11.80	11.60
RIL	Jamnagar	8.60	10.80	11.00	11.90
Essar	Vadinar	8.37	10.81	9.14	*

*Being unlisted company, quarterly results are not declared; ** GRM of North Eastern refineries are including excise duty benefit. For GRM excluding excise duty benefit, refer table 11; # Commissioned in February, 2016.

11. GRM of North-East refineries excluding excise duty benefit ($/bbl)					
Company	**Refinery**	**2014-15**	**2015-16**	**2016-17**	**Apr-Dec'2017**
IOCL	Guwahati	0.96	1.26	1.12	3.76
	Digboi	5.42	4.16	7.73	7.68
	Bongaigaon	-6.51	0.08	6.03	5.81
NRL	Numaligarh	9.46	8.06	8.50	10.69

12. Production and consumption of petroleum products (Million Metric Tonnes)										
Products	**2015-16**		**2016-17**		**2017-18 (P)**		**April 2017 (P)**		**April 2018 (P)**	
	Prod^n	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**
LPG	10.6	19.6	11.3	21.6	12.4	23.3	0.9	1.7	1.0	1.9
MS	35.3	21.8	36.6	23.8	37.8	26.2	3.0	2.1	3.0	2.3
NAPHTHA	17.9	13.3	19.7	13.2	19.9	12.5	1.6	1.0	1.5	1.1
ATF	11.8	6.3	13.8	7.0	14.7	7.6	1.1	0.6	1.2	0.7
SKO	7.5	6.8	6.0	5.4	4.3	3.8	0.4	0.3	0.4	0.3
HSD	98.6	74.6	102.1	76.0	107.9	81.1	8.4	7.0	8.3	7.2
LDO	0.4	0.4	0.63	0.45	0.55	0.52	0.02	0.04	0.04	0.06
LUBES	1.0	3.6	1.03	3.5	1.04	3.8	0.1	0.3	0.1	0.3
FO/LSHS	10.7	6.6	12.0	7.2	10.3	6.8	0.6	0.6	0.7	0.6
BITUMEN	5.2	5.9	5.2	5.9	5.3	6.0	0.5	0.6	0.6	0.7
PET COKE	13.3	19.3	12.9	24.0	13.9	26.2	1.1	2.2	1.0	2.2
OTHERS	19.6	6.4	22.3	6.6	26.3	7.1	1.8	0.6	2.3	0.6
ALL INDIA	**231.9**	**184.7**	**243.5**	**194.6**	**254.4**	**204.9**	**19.6**	**16.9**	**20.2**	**17.7**
Growth (%)	**4.9%**	**11.6%**	**5.0%**	**5.4%**	**4.5%**	**5.3%**	**0.2%**	**2.8%**	**2.7%**	**4.4%**

Note: Prod^n - Production; Consump^n - Consumption

13. LPG consumption (Thousand Metric Tonne)

LPG category	2014-15	2015-16	2016-17	2017-18 (P)	April (P) 2017-18	April (P) 2018-19	April (P) Gr (%)
1. PSU Sales :							
LPG-Packed Domestic	16,040.4	17181.7	18871.4	20,351.8	1,443.7	1,618.6	12.1
LPG-Packed Non-Domestic	1,051.0	1464.4	1775.9	2,085.8	141.6	178.2	25.8
LPG-Bulk	315.7	317.2	364.3	354.4	21.3	29.7	39.5
Auto LPG	163.8	170.9	167.3	184.3	14.4	14.4	0.1
Sub-Total (PSU Sales)	**17,570.9**	**19,134.2**	**21,178.9**	**22,976.4**	**1,620.9**	**1,840.9**	**13.6**
2. Direct Private Imports	429.2	489.0	429.3	367.0	36.2	30.7	-15.3
Total (1+2)	**18,000.1**	**19,623.2**	**21,608.2**	**23,343.3**	**1,657.1**	**1,871.6**	**12.9**

14. Kerosene allocation vs upliftment (Kilo Litres)

Product	2013-14		2014-15		2015-16		2016-17		2017-18 (P)	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
Kerosene	90,55,068	89,96,251	89,75,538	88,78,352	86,85,384	85,36,752	69,33,030	66,78,447	50,21,828	46,69,164

15. Industry marketing infrastructure (as on 01.05.2018) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL	ESSAR	SHELL	Others	Total
POL Terminal/ Depots **(Nos.)**[$]	125	78	82	18	2		6	**311**
Aviation Fuel Stations **(Nos.)**[@]	107	52	41	28			1	**229**
Retail Outlets (total) **(Nos.)**[^]	27,112	14,453	15,077	1,400	4,514	108	6	**62,670**
out of which, Rural ROs	7,548	2,621	3,318	127	1,588	14		**15,216**
SKO/LDO agencies **(Nos.)**	3,897	1,001	1,638					**6,536**
LPG Distributors (total) **(Nos.) (PSUs only)**	10,227	5,115	4,879					**20,221**
LPG Bottling plants **(Nos.) (PSUs only)**[#]	91	50	48				1	**190**
LPG Bottling capacity **(TMTPA) (PSUs only)**[&]	9,385	3,933	4,047				30	**17,395**
LPG active domestic consumers **(Nos. crore) (PSUs only)**	10.7	5.8	6.2					**22.7**

[$](RIL= 5 terminals and 13 mini depots, Others=4 MRPL & 2 NRL); [@](Others=ShellMRPL -1); [^](Others=MRPL-6); [#]**(**Others=NRL-1); [&](Others=NRL-30);

16. Natural gas at a glance

(MMSCM)

Details	2014-15	2015-16	2016-17	2017-18 (P)	April		
					2017-18 (P)	2018-19 (Target)	2018-19 (P)
(a) Gross production	33,657	32,249	31,897	32,649	2,534	2,638	2,663
- ONGC	22,023	21,177	22,088	23,429	1,791	1,879	1,972
- Oil India Limited (OIL)	2,722	2,838	2,937	2,881	241	238	221
- Private / Joint Ventures (JVs)	8,912	8,235	6,872	6,338	501	521	470
(b) Net availability (excluding flare gas and loss)	32,693	31,129	30,848	31,731	2,456		2,599
(c) LNG import	18,545	21,388	24,686	26,328	2,182		2,280
(d) Total consumption including internal consumption (Net availability+Import) (b+c)	51,238	52,517	55,534	58,059	4,638		4,880
(e) Total consumption **(in BCM)**	51.2	52.5	55.5	58.1	4.6		4.9
(f) Import dependency based on consumption (%), {c/d*100}	36.2	40.7	44.5	45.3	47.1		46.7

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	April 2018 (P)	62.9	MMSCM

18. Gas pipelines under execution / construction as on 01.05.2018				
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"
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		**13,489**		

19. Existing LNG terminals			
Location	**Promoters**	**Capacity (MMTPA) as on 01.04.2018**	**Capacity utilisation in % April 2017-March 2018 (P)**
Dahej	Petronet LNG Ltd (PLL)	15 MMTPA	105.3
Hazira	Hazira LNG Pvt Ltd (HLPL)	5 MMTPA	58.9
Dabhol	RGPPL (GAIL - NTPC JV)	1.692 MMTPA in phase-1 without break water-to be increased to 5 MMTPA	64.9
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	12.2
Total Capacity		**26.7 MMTPA**	

20. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.04.2018							
State	Entity operating	Geographical area	CNG stations	PNG connections			No. of CNG vehicles
				Domestic	Industrial	Commercial	
Haryana	Haryana City Gas Distribution Ltd, Adani Gas Limited, GAIL Gas Ltd., Indraprastha Gas Ltd.	Sonepat, Faridabad, Gurgaon, Rewadi, Panipat	47	77,400	345	236	1,25,227
Andhra Pradesh	Bhagyanagar Gas Ltd, Godavari Gas Pvt.Ltd.	Kakinada, Vijayawada, East/ West Godavari	22	13,935	1	53	18,098
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	457	18,37,701	4,551	17,835	9,06,133

20. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.04.2018

State	Entity operating	Geographical area	CNG stations	PNG connections			No. of CNG vehicles
				Domestic	Industrial	Commercial	
Telangana	Bhagyanagar Gas Ltd.	Hyderabad	33	7,743	5	9	24,421
Assam	Assam Gas Co. Ltd	Tinsukia, Dibrugarh, Sibsagar, Jorhat, Golaghat	0	31,628	405	1,061	0
Madhya Pradesh	Aavantika Gas Ltd, GAIL Gas Ltd	Dewas, Vijaipur, Indore including Ujjain, Gwalior	31	42,865	126	94	30,595
Rajasthan	Rajasthan State Gas Limited	Kota	3	307	15	4	6,927
New Delhi	Indraprastha Gas Ltd .	NCT of Delhi (Including Noida & Ghaziabad)	444	8,91,106	1,216	2,173	10,27,307
Karnataka	Gail Gas Ltd.	Bengaluru	5	5,355	22	52	362
Chandigarh	IndianOil- Adani Gas	Chandigarh	4	11,792	0	0	4,500
Kerala	IndianOil- Adani Gas	Ernakulam	4	3,126	0	3	20
Daman and Diu	IndianOil- Adani Gas	Daman and Diu	2	2,140	3	13	500
Dadra & Nagar Haveli	Gujarat Gas Ltd.	Dadra & Nagar Haveli	3	463	8	9	0
Punjab	IRM Energy Pvt. Ltd.	Fatehgarh Sahib	0	0	1	0	0
Odisha	GAIL (India) Ltd.	Bhubaneswar	2	87	0	0	591

20. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.04.2018

State	Entity operating	Geographical area	CNG stations	PNG connections			No. of CNG vehicles
				Domestic	Industrial	Commercial	
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	275	12,11,826	225	3,802	7,94,264
Tripura	Tripura Natural Gas Co. Ltd	Agartala	6	34,741	49	415	10,620
West Bengal	Greater Calcutta Gas Supply Corporation Ltd	Kolkata	7	0	0	0	3,495
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, Divyapur, Mathura, Agra, Kanpur, Bareilly, Lucknow, Moradabad, Firozabad Geographical Area (TTZ), Khurja and Allahabad	79	107,839	629	372	1,37,079
Total			**1,424**	**4,280,054**	**7,601**	**26,131**	**3,090,139**

21. Major natural gas pipeline network as on 01.04.2018								
Nature of pipeline		**GAIL**	**Reliance**	**GSPL**	**ARN**	**IOCL**	**ONGC**	**Total**
Natural gas	Length (KM)	11,410	1,784	2,618	817	140	24	**16,793**
	Cap (MMSCMD)	229.5*	83.5	43.0	3.2	9.5	6.0	**374.7**

*GAIL's pipeline capacity is 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 (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	April 2018
Crude oil (Indian Basket)	47.56	56.43	69.30
Petrol	58.10	67.83	78.43
Diesel	56.59	68.19	82.44
Kerosene	56.81	67.65	83.49
LPG ($/MT)	393.31	486.04	472.00
FO ($/MT)	258.92	327.50	387.55
Naphtha ($/MT)	415.17	494.73	583.29
Exchange (Rs./$)	67.09	64.45	65.64

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)	36.22	39.11
Excise Duty	19.48	15.33
Dealer Commission (Average)	3.61	2.52
VAT (incl VAT on dealer commission)	16.01	9.83
Retail selling price (RSP) -Rounded	**75.32**	**66.79**
Particulars	**PDS SKO***	**Sub. Dom LPG***
Price before taxes and dealer/distributor commission	21.55	570.40
Dealer/distributor commission	2.04	49.12
GST (incl GST on dealer/distributor commission)	1.18	30.98
Retail Selling Price	**24.77**	**650.50**
Less: Cash Compensation on LPG to consumers under DBTL		159.29
Effective cost to consumer after subsidy		**491.21**

*Petrol and diesel at Delhi as per IOCL are as on 17th May, 2018. SKO at Mumbai is as on 16th May, 2018 and Sub. Dom LPG at Delhi is as on 1st May, 2018. RSP of Subsidized Dom LPG rounded.

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	0.41	180	0.54	230
Domestic LPG	9.41	1260	6.66	890
Total	-	**1,440**	-	**1,120**

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

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

Under-recoveries/subsidy & burden sharing

Product	2015-16	2016-17	2017-18
Per unit under-recovery/subsidy (Rs./litre/Cylinder)			
PDS SKO	13.47	11.39	10.34
Sub. Dom LPG	150.82*	108.78	173.41
Total under-recoveries including DBTL Subsidy (Rs. Crores)			
PDS SKO	11,496	7,595	4,672
Sub. Dom LPG	16,074#	12,133	20,956
Total	**27,570**	**19,728**	**25,628**

Burden sharing (Rs. Crores)

Particulars	2015-16	2016-17	2017-18 (P)
Government	26,301	19,728	25,628
Upstream	1,251	0	0
OMCs	18	0	0

* Average of DBTL subsidy and under-recovery towards non-DBTL domestic LPG;

\# Includes under recovery towards non-DBTL domestic LPG (2015-16: Rs.18 Cr)

Sales & profit of petroleum sector (Rs. Crores)

Apr-Dec'2017	Turnover	PAT
Upstream/midstream Companies (PSU)	106,271	19,429
Downstream Companies (PSU)	740,367	25,983
Standalone Refineries (PSU)	74,494	3,862
Private-RIL	218,108	24,915

Borrowings of OMCs (Rs. Crores)

Company	As on Mar`16*	As on Mar`17	Apr-Dec'2017
IOCL	52,880	54,820	31,938
BPCL	15,857	23,159	15,865
HPCL	21,167	21,250	12,124

*Regrouped as per Ind AS

Petroleum sector contribution to Central/State Govt.

Particulars	2015-16	2016-17	Apr-Dec'2017
Central Government	2,58,443	3,34,534	2,30,807
% of total revenue receipts	21%	24%	-
State Governments	1,60,209	1,89,770	1,50,996
% of total revenue receipts	8%	8%	-
Total (Rs. Crores)	**4,18,652**	**5,24,304**	**3,81,803**

Subsidy as a % 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 (P)*
ONGC Ltd	29,997	29,502	28,010	72,383	32,077	1,345
ONGC Videsh Ltd (OVL)	7,172	6,783	18,360	6,240	5,886	280
Oil India Ltd (OIL)	3,774	3,550	10,514	8,395	4,300	175
GAIL (India) Ltd	1,632	1,880	2,180	3,613	4,722	95
Indian Oil Corp. Ltd. (IOCL)	14,314	14,368	21,918	20,345	22,862	3,053
Hindustan Petroleum Corp. Ltd (HPCL)	2,670	5,459	5,861	7,134	8,425	185
Bharat Petroleum Corp. Ltd (BPCL)	6,875	10,926	16,810	8,161	7,400	275
Mangalore Refinery & Petrochem Ltd (MRPL)	2,747	1,550	614	1,281	744	26
Chennai Petroleum Corp. Ltd (CPCL)	466	1,318	1,293	963	1,010	53
Numaligarh Refinery Ltd (NRL)	103	237	500	387	428	12
Balmer Lawrie Co. Ltd (BL)	80	38	73	78	125	2
Engineers India Ltd (EIL) #	-	-	-	-	1355.64	1
Total	**69,830**	**75,611**	**106,133**	**128,981**	**87,979**	**5,503**

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

Included from 2018-19 onwards

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