Ready Reckoner

Snapshot of India's Oil & Gas data

March, 2018

(Revised on 02.05.2018)



Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

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Highlights for the month

- Indigenous crude oil and condensate production during March 2018 was lower by 1.6% than that of March 2017. While PSC fields registered a growth of 1.7% during the month over March 2017, PSU companies registered de-growth of 2.9%. On a cumulative basis, there was a decrease of 0.9% over the previous year 2016-17 in indigenous crude oil and condensate production. The percentage share of crude oil and condensate production of PSU companies increased to 71.8% during 2017-18 against 70.8% during the previous year. However, share of PSC fields reduced to 28.2% during 2017-18 from 29.2% during 2016-17.
- Total refining capacity of the country increased from 234 MMTPA as on 01.04 2017 to 247.6 MMTPA as on 01.04.2018, resulting in an overall growth of 5.8%. There was growth of 3.5% in PSU/JV and 10.2% in private refineries capacities.
- Total crude oil processed during March 2018 was 21.1 MMT, which is a decrease of 0.9% over March 2017. On cumulative basis crude oil processed was higher by 2.7% over the period April- March 2016-17 mainly due to increase in crude oil processed by PSU refineries. Indian refineries processed 74.8% high sulphur crude oil during 2017-18 over 72.3% during 2016-17. There was an increase of 3.5% in imported crude oil processed by refineries during 2017-18 as compared to 2016-17 due to reduction in indigenous crude oil production.
- Production of petroleum products during March 2018 saw a marginal growth of 1.0% over March 2017. On cumulative basis a growth of 4.5% was recorded in production over the previous year 2016-17. Petcoke production increased by 7.4% and FO production decreased by 17.4% during 2017-18 as compared to 2016-17 due to increased operation of bottom up gradation units in refineries. Fractionators achieved highest monthly production of the year (442 TMT) during March 2018.
- Crude oil import during March 2018 was 18.4 MMT, an increase of 1.1% as compared to March 2017. On cumulative basis, crude oil import was 220.4 MMT, an increase of 3.0% during 2017-18 as compared to 2016-17.
- Product imports decreased by 3.0% during March 2018 as compared to March 2017. On cumulative basis, product imports decreased by 1.1% during 2017-18 as compared to 2016-17.
- Export of POL products decreased by 19.8% during March 2018 as compared to March 2017. However, on cumulative basis, an increase of 1.9% was recorded in product exports during 2017-18 over the year 2016-17. HSD exports increased by 8.7% during 2017-18 as compared to 2016-17.

- Petroleum product consumption registered a growth of 7.2% during March 2018 as compared to -0.6% de-growth during March 2017. Except for SKO and products in 'others' category all other products registered positive growth during March 2018. During the period April 2017 to March 2018, petroleum product consumption registered a growth of 5.3% as compared to 5.4% growth during the same period last year. During the period April 2017 to March 2018, SKO (-28.8%), naphtha (-5.2%) and FO/LSHS (-5.5%) witnessed high de-growth in consumption.
- Total LPG consumption continuously for the last fifty five months in a row recorded a positive growth. Growth of 8.9% during March 2018 and a cumulative growth of 8.0 % for the period April 2017 to March 2018 was observed. Out of the five regions, Northern region had the highest share in consumption of 31.4% followed by Southern region at 28.5%, Western region at 22.2%, Eastern region at 15.5% and North Eastern region at 2.4% during the period April 2017 to March 2018. Eastern region had the highest growth of 14.7% in total LPG consumption during the period April 2017 to March 2018. This year during the period April 2017 to March 2018, 68.8 lakh DBCs and 284.7 lakh new connections were released out of which 155.7 lakh were released under PMUY. A total of 356 lakh connections were released under PMUY till 31.03.2018 since inception of the scheme.
- SKO consumption registered a de-growth of -31.6 % during March 2018 and cumulative de-growth of -28.8% during the period April 2017 to March 2018. This was mainly because of reduced 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 March, 2018 was 2782.6 MMSCM which was higher by 1.18% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 32649.3 MMSCM for the current financial year till March, 2018 was higher by 2.36% compared with the corresponding period of the previous year. The gross production of natural gas both during March 2018 and also for the financial year 2017-18 was the highest in the last three years.
- LNG import for the month of March, 2018 was 2577.8 MMSCM which was 19.6% higher than the corresponding month of the previous year. The cumulative import of 26327.7 MMSCM for the current year till March, 2018 was higher by 6.7% compared with the corresponding period of the previous year. LNG import for the financial year 2017-18 was the highest ever import of LNG.

- The price of Brent crude averaged \$65.90/bbl during March, 2018 as against \$65.19/bbl during February,2018. The Indian basket crude averaged \$63.80/bbl during March, 2018 as against \$63.54/bbl during the previous month. During 2017-18, the average price of Brent crude and Indian basket crude was \$56.43/bbl and \$57.49/bbl respectively.
- The import bill of crude oil is estimated to increase by 20% from \$88 billion in 2017-18 to \$105 billion in 2018-19 considering Indian basket crude oil price of \$65/bbl and exchange rate of \$/Rs = 65.

	1. Selected indicators of the Indian economy											
	Economic indicators	Unit/ Base	2013-14	2014-15	2015-16	2016-17	2017-18					
1	Population (as on 1 st May, 2011)	Billion	1.2	-	-	-	-					
2	GDP at Factor Cost (Constant prices)*	Growth %	6.4	7.4 3 rd RE	8.2 2 nd RE	7.1 1 st RE	6.6 2 nd AE					
3	Agricultural Production (Food grains)	MMT	265.0	252.0	251.6	275.1 FE	277.5 2 nd AE					
		Growth %	3.1	-4.9	-0.2	9.4	0.9					
4	Gross Fiscal Deficit	%	-4.5	-4.1	-3.9	-3.5	-3.5 RE					

	Economic indicators	Unit/ Base	2015-16	2016-17	Marc	:h (P)	April-M	arch (P)
	Economic indicators	Office Base	2015-10	2010-17	2017	2018	2016-17	2017-18
5	Index of Industrial Production#	Growth %	3.3	4.6	1.2	7.1	4.7	4.3
6	Imports	\$ Billion	381.0	384.4	40.0	42.8	384.4	459.7
7	Exports	\$ Billion	262.3	275.9	29.3	29.1	275.9	302.8
8	Trade Balance	\$ Billion	-118.7	-108.5	-10.7	-13.7	-108.5	-156.8
9	Foreign Exchange Reserves [@]	\$ Billion	355.6	370.0	370.0	424.4	-	-

^{*}Revised on account of using new series of IIP and WPI with base 2011-12; *IIP is for the month of February 2018 & cumulative for April 2017-February 2018; *2015-16-as on March 25, 2016; 2016-17-as on March 31, 2017, March 2017- as on March 31, 2017 and March 2018-as on March 30, 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	Ma	arch	April	-March			
	Details	Office Base	2014-15	2015-16	2017	2018 (P)	2016-17	2017-18 (P)			
1	Crude oil production in India	MMT	37.5	36.9	3.1	3.0	36.0	35.7			
2	Consumption of petroleum products	MMT	165.5	184.7	17.4	18.6	194.6	204.9			
3	Production of petroleum products	MMT	221.1	231.9	21.8	22.0	243.5	254.4			
4	Imports & exports:										
	Crude oil imports	MMT	189.4	202.9	18.2	18.4	213.9	220.4			
	crude on imports	\$ Billion	112.7	64.0	6.6	8.3	70.2	87.8			
	Petroleum products (POL) imports		21.3	29.5	3.2	3.1	36.3	35.9			
	retroledin products (1 O2) imports	\$ Billion	12.1	10.0	1.2	1.2	10.6	13.4			
	Gross petroleum imports	MMT	210.7	232.3	21.4	21.5	250.2	256.3			
	(Crude + POL)	\$ Billion	124.9	73.9	7.8	9.5	80.8	101.2			
	Petroleum products exports	MMT	63.9	60.5	6.6	5.3	65.5	66.8			
	retroleum products exports	\$ Billion	47.3	27.1	3.1	3.1	29.0	34.9			
	LNG imports	\$ Billion	9.2	6.7	0.6	0.9	6.1	7.7			
5	Petroleum imports as percentage (%) of India's gross imports (in value)		32.8	19.4	19.6	22.1	21.0	22.0			
6	Petroleum exports as percentage (%) of India's gross exports (in value)	%	18.0	10.3	10.7	10.7	10.5	11.5			
7	Import dependency of crude (on consumption basis)	%	78.3%	80.6%	82.1%	82.8%	81.7%	82.8%			

3. Indi	3. Indigenous crude oil production (Million Metric Tonnes)													
				March			April-March	1						
Details	2014-15	2015-16	2017 (Actual)	2018 (Target)*	2018 (P)	2016-17 (Actual)	2017-18 (Target)*	2017-18 (P)						
ONGC	20.8	21.1	1.8	2.0	1.7	20.9	23.1	20.8						
Oil India Limited (OIL)	3.4	3.2	0.3	0.3	0.3	3.3	3.7	3.4						
Private / Joint Ventures (JVs)	11.7	11.2	0.9	0.9	0.9	10.4	10.6	9.9						
Total Crude Oil	35.9	35.5	3.0	3.2	2.9	34.5	37.4	34.0						
Condensate	1.6	1.4	0.1		0.2	1.5		1.6						
Total (Crude + Condensate) (MMT)	37.5	36.9	3.1	3.2	3.0	36.0	37.4	35.7						
Total (Crude + Condensate) (Million Bbl)	274.6	270.8	22.7	23.7	22.3	263.9	274.4	261.6						

^{*}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	2014-15	2015-16	Ma	arch	April-	March				
Details	2014-13	2013-10	2017	2018 (P)	2016-17	2017-18 (P)				
Total domestic production (MMTOE)	71.1	69.2	5.8	5.8	67.9	68.3				
Overseas production (MMTOE)	9.9	10.1	2.0	1.8	16.1	19.6				
Overseas production as percentage (%) of domestic production	13.8%	14.6%	33.4%	30.3%	23.8%	28.7%				

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

	5. High Sulphur (HS) & Low Sulphur (LS) crude oil processing (MMT)											
Details		2014-15	2015-16	Ma	arch	April-March						
	Details		2015-10	2017	2018 (P)	2016-17	2017-18 (P)					
1	High Sulphur crude	161.4	166.1	15.3	15.5	177.4	188.4					
2	Low Sulphur crude	61.9	66.7	6.0	5.7	67.9	63.6					
Total cr	ude processed	223.3	232.9	21.3	21.1	245.4	251.9					
Share of HS crude in total crude oil processing			71.3%	71.9%	73.2%	72.3%	74.8%					

6.	6. Quantity and value of crude oil imports									
Year Quantity (MMT) \$ Million Rs. Crore										
2016-17	213.93	70,196	4,70,159							
2017-18 (P) 220.40 87,776 5,65,951										

	7. Self-sufficiency in petroleum products (Million Metric Tonnes)												
	Particulars	2014-15	2015-16	Ma	ırch	April-March							
	Particulars		2015-10	2017	2018 (P)	2016-17	2017-18 (P)						
1	Indigenous crude oil processing	34.2	34.1	2.9	3.0	33.5	32.8						
2	Products from indigenous crude (93.3% of crude oil processed)	32.0	31.8	2.7	2.8	31.3	30.6						
3	Products from fractionators (Including LPG and Gas)	4.0	4.0	0.4	0.4	4.3	4.6						
4	Total production from indigenous crude & condensate (2 + 3)	35.9	35.8	3.1	3.2	35.6	35.2						
5	Total domestic consumption	165.5	184.7	17.4	18.6	194.6	204.9						
	% Self-sufficiency (4 / 5)	21.7%	19.4%	17.9%	17.2%	18.3%	17.2%						

	8. Refiner	ies: Install	ed capa	city and	crude oil	process	ing (MN	/ITPA / N	лмт)	
		Installed			C	crude oil pr	ocessing (N	имт)		
Company	Refinery	capacity				March			April-Marc	h
Company	Rennery	(1.4.2018) (MMTPA)	2014-15	2015-16	2017 (Actual)	2018 (Target)	2018 (P)	2016-17 (Actual)	2017-18 (Target)	2017-18 (P)
IOCL	Barauni (1964)	6.0	5.9	6.5	0.6	0.6	0.6	6.5	5.8	5.8
	Koyali (1965)	13.7	13.3	13.8	1.2	1.2	1.3	14.0	12.8	13.8
	Haldia (1975)	7.5	7.7	7.8	0.7	0.7	0.7	7.7	7.4	7.7
	Mathura (1982)	8.0	8.5	8.9	0.8	0.8	0.9	9.2	8.5	9.2
	Panipat (1998)	15.0	14.2	15.3	1.4	1.3	1.4	15.6	15.2	15.7
	Guwahati (1962)	1.0	1.0	0.9	0.08	0.07	0.09	0.9	0.9	1.0
	Digboi (1901)	0.65	0.6	0.6	0.05	0.04	0.06	0.5	0.5	0.7
	Bongaigaon(1979)	2.35	2.4	2.4	0.2	0.2	0.2	2.5	2.3	2.4
	Paradip (2016)	15.0	-	1.8	1.2	1.3	0.4	8.2	13.0	12.7
	IOCL TOTAL	69.2	53.6	58.0	6.3	6.2	5.6	65.2	66.3	69.0
CPCL	Manali (1969)	10.5	10.2	9.1	0.7	0.9	0.9	9.8	9.8	10.3
	CBR (1993)	1.0	0.5	0.5	0.05	0.04	0.05	0.5	0.5	0.5
	CPCL-TOTAL	11.5	10.8	9.6	0.8	0.9	1.0	10.3	10.3	10.8
BPCL	Mumbai (1955)	12.0	12.8	13.4	0.7	1.3	1.3	13.5	13.3	14.1
	Kochi (1966)	15.5	10.4	10.7	1.1	1.3	1.4	11.8	13.7	14.1
BORL	Bina (2011)	6.0	6.2	6.4	0.6	0.5	0.6	6.4	6.0	6.7
NRL	Numaligarh (1999)	3.0	2.8	2.5	0.2	0.2	0.2	2.7	2.7	2.8
	BPCL-TOTAL	36.5	32.2	33.0	2.7	3.3	3.5	34.4	35.7	37.7

		Installed				Crude oil p	rocessing (MMT)		
Company	Refinery	capacity				March			April-Marc	h
Company	Keilliery	(1.4.2018)	2014-15	2015-16	2017	2018	2018 (P)	2016-17	2017-18	2017-18 (P)
		(MMTPA)			(Actual)	(Target)		(Actual)	(Target)	
ONGC	Tatipaka (2001)	0.1	0.05	0.07	0.007	0.005	0.006	0.09	0.06	0.08
MRPL	Mangalore (1996)	15.0	14.6	15.5	1.4	1.4	1.5	16.0	16.0	16.1
	ONGC TOTAL	15.1	14.7	15.6	1.5	1.4	1.5	16.1	16.1	16.2
HPCL	Mumbai (1954)	7.5	7.4	8.0	0.8	0.7	0.7	8.5	8.4	8.6
	Visakh (1957)	8.3	8.8	9.2	0.9	0.8	0.9	9.3	9.6	9.6
HMEL	Bathinda (2012)	11.3	7.3	10.7	0.7	0.9	1.0	10.5	9.2	8.8
	HPCL- TOTAL	27.1	23.5	27.9	2.3	2.4	2.6	28.3	27.2	27.1
RIL*	Jamnagar (DTA) (1999)	33.0	30.9	32.4	2.8	2.8	2.8	32.8	32.8	33.2
	Jamnagar (SEZ) (2008)	35.2	37.2	37.1	3.3	3.3	2.4	37.4	37.4	37.3
EOL	Vadinar (2006)	20.0	20.5	19.1	1.8	1.7	1.8	20.9	20.3	20.7
All India 24			223.3	232.9	21.3	22.0	21.1	245.4	246.0	251.9

^{*} 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												
Deta	Details ONGC OIL Cairn HMEL IOCL BPCL HPCL Others*									Total			
Crude Oil	Length (KM)	1,191	1,193	660	1,017	5,301	937	1	-	10299			
(as on 1.4.2018)	Cap (MMTPA)	58.5	8.4	8.7	9.0	48.6	6.0	-	-	139.2			
Products	Length (KM)	-	654	-	-	7,950	1,948	3,371	2,688	16611			
(as on 1.4.2018)	Cap (MMTPA)	-	1.7	-	-	46.2	16.2	37.1	9.3	110.5			

^{*}Others includes GAIL and Petronet India. HPCL and BPCL lubes pipeline included in products pipeline data

	10. Gross Refi	ning Margins (GF	RM) of refinerie	s (\$/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						
	Guwahati	0.96	1.26	1.12	3.76						
IOCL	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						

1	12. Production and consumption of petroleum products (Million Metric Tonnes)										
Products	201	5-16	Marc	h 2017	March	2018 (P)	April 2016-March 2017		April 2017-March 2018 (P)		
Products	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	1.1	1.9	1.1	2.1	11.3	21.6	12.4	23.3	
MS	35.3	21.8	3.4	2.1	3.3	2.4	36.6	23.8	37.8	26.2	
NAPHTHA	17.9	13.3	1.8	1.1	1.7	1.1	19.7	13.2	19.9	12.5	
ATF	11.8	6.3	1.3	0.6	1.4	0.7	13.8	7.0	14.7	7.6	
SKO	7.5	6.8	0.4	0.4	0.4	0.3	6.0	5.4	4.3	3.8	
HSD	98.6	74.6	9.2	6.8	9.2	7.3	102.1	76.0	107.9	81.1	
LDO	0.4	0.4	0.06	0.04	0.06	0.05	0.6	0.4	0.6	0.5	
LUBES	1.0	3.6	0.08	0.3	0.11	0.4	1.0	3.5	1.0	3.8	
FO/LSHS	10.7	6.6	0.7	0.6	0.7	0.6	12.0	7.2	10.3	6.8	
BITUMEN	5.2	5.9	0.5	0.7	0.6	0.8	5.2	5.9	5.3	6.0	
PET COKE	13.3	19.3	1.2	2.2	1.1	2.3	12.9	24.0	13.9	26.2	
OTHERS	19.6	6.4	2.0	0.7	2.4	0.6	22.3	6.6	26.3	7.1	
ALL INDIA	231.9	184.7	21.8	17.4	22.0	18.6	243.5	194.6	254.4	204.9	
Growth (%)	4.9%	11.6%	2.0%	-0.6%	1.0%	7.2%	5.0%	5.4%	4.5%	5.3%	

Note: Prodⁿ - Production; Consumpⁿ - Consumption

	13. LPG consumption (Thousand Metric Tonne)										
LPG category	2014-15	2015-16		March			April-March				
LPG category	2014-15	2015-16	2017	2018 (P)	Gr (%)	2016-17	2017-18 (P)	Gr (%)			
1. PSU Sales :		-	-			-					
LPG-Packed Domestic	16,040.4	17,181.7	1664.1	1795.0	7.9	18,871.4	20,351.8	7.8			
LPG-Packed Non-Domestic	1,051.0	1,464.4	145.9	181.5	24.4	1,775.9	2,085.8	17.5			
LPG-Bulk	315.7	317.2	28.1	32.4	15.2	364.3	354.4	-2.7			
Auto LPG	163.8	170.9	14.8	15.5	4.7	167.3	184.3	10.2			
Sub-Total (PSU Sales)	17,570.9	19,134.2	1,852.8	2,024.3	9.3	21,178.9	22,976.4	8.5			
2. Direct Private Imports	429.2	489.0	35.2	30.9	-12.2	429.3	367.0	-14.5			
Total (1+2)	18,000.1	19,623.2	1,888.0	2,055.2	8.9	21,608.2	23,343.3	8.0			

	14. Kerosene allocation vs upliftment (Kilo Litres)									
Product	2013-14		2014-15		2015-16		2016-17		2017-18	
Product	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. Industi	ry marketi	ng infrasti	ructure (a	s on 01.04	.2018) (Pr	ovisional)		
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	51	41	28	-	-	1 [@]	228
Retail Outlets (total) (Nos.)	27,089	14,447	15,062	1400	4,473	108	6^	62,585
out of which, Rural ROs	7,529	2,621	3,310	127	1,570	14	-	15,171
SKO/LDO agencies (Nos.)	3,897	1,001	1,638	1	-	-	-	6,536
LPG Distributors (total) (Nos.) (PSUs only)	10,213	5,084	4,849	-	-	-	-	20,146
LPG Bottling plants (Nos.) (PSUs only)	91	50	48	-	ı	-	1#	190
LPG Bottling capacity (TMTPA) (PSUs only)	9,385	3,933	4,047	-	ı	ı	30 [~]	17,395
LPG active domestic consumers (Nos. crore) (PSUs only)	10.6	5.8	6.1	-	ı	1	-	22.4

^{\$}RIL= 5 terminals and 13 mini depots^{*} 4 MRPL & 2 NRL; [@] ShellMRPL -1, ^MRPL-6 *NRL-1; ~NRL-30

	16.	Natural	gas at a g	glance					
								(MMSCM)	
				March			April-March		
Details	2014-15	2015-16	2017	2018	2018 (P)	2016-17	2017-18	2017-18 (P)	
			(Actual)	(Target)		(Actual)	(Target)		
(a) Gross production	33,657	32,249	2,750	3,131	2,783	31,897	35,134	32,649	
- ONGC	22,023	21,177	1,972	2,206	2,014	22,088	24,208	23,429	
- Oil India Limited (OIL)	2,722	2,838	251	248	237	2,937	3,000	2,882	
- Private / Joint Ventures (JVs)	8,912	8,235	527	677	532	6,872	7,926	6,338	
(b) Net availability	22.602	21 120	2.660		2 702	20.040		21 721	
(excluding flare gas and loss)	32,693	31,129	2,669		2,702	30,848		31,731	
(c) LNG import	18,545	21,388	2,155		2,578	24,686		26,328	
(d) Total consumption including internal	F1 220	F2 F47	4.024		F 200	FF F24		E0.0E0	
consumption (Net availability+Import) (b+c)	51,238	52,517	4,824		5,280	55,534		58,059	
(e) Total consumption (in BCM)	51.2	52.5	4.8		5.3	55.5		58.1	
(f) Import dependency based on	36.2	40.7	44.7		48.8	44.5		45.3	
consumption (%), {c/d*100}	50.2	10.7	'''		.0.0	''.5		13.5	

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

17. Coal B	Sed Methane (CBM) gas developm	nent 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	March 2018 (P)	70.4	MMSCM
Production of CBM gas-Cumulative	April 2017-March 2018 (P)	734.8	MMSCM

18. Gas pipeli	nes under execution / co	nstruction a	s on 01.04 .2	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-February 2018 (P)							
Dahej	Petronet LNG Ltd (PLL)	15 MMTPA	105.0							
Hazira	Hazira LNG Pvt Ltd (HLPL)	5 MMTPA	58.0							
Dabhol	RGPPL (GAIL - NTPC JV)	1.692 MMTPA in phase-1 without break water to be increased to 5 MMTPA	55.1							
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	12.4							
Total Capac	city	26.7 MMTPA								

20. St	atus of PNG connect	ions, CNG stations and C	NG vehicl	es across l	ndia (Nos.) as on 01.	03.2018
State	Entity operating	Geographical area	CNG	P	NG connectio	ns	No. of CNG
State	Littly operating	Geographical area	stations	Domestic	Industrial	Commercial	vehicles
Haryana	Haryana City Gas Distribution Ltd, Adani Gas Limited, GAIL Gas Ltd., Indraprastha Gas Ltd.		47	74,066	330	224	1,25,227
Andhra Pradesh		Kakinada, Vijayawada, East/ West Godavari	18	13,185	1	50	17,125
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	428	18,22,643	4,526	17,805	9,09,206

20. Statu	s of PNG connect	ions, CNG stations and	CNG vehic	les across	India (Nos	.) as on 01.	03.2018
State	Entity operating	Geographical area	CNG stations	Р	NG connection	ns	No. of CNG
State	Littly operating	Geographical area	CIVO Stations	Domestic	Industrial	Commercial	vehicles
Telangana	Bhagyanagar Gas Ltd.	Hyderabad	31	7,599	5	8	24,368
Assam	Assam Gas Co. Ltd	Tinsukia, Dibrugarh, Sibsagar, Jorhat, Golaghat	0	31,406	405	1,056	0
Madhya Pradesh	Aavantika Gas Ltd, GAIL Gas Ltd	including Ujjain, Gwalior	30	38,446	124	91	30,584
Rajasthan	Rajasthan State Gas Limited	Kota	3	305	15	3	6,853
New Delhi	Indraprastha Gas Ltd .	NCT of Delhi (Including Noida & Ghaziabad)	427	8,67,673	1,185	2,151	10,24,807
Karnataka	Gail Gas Ltd.	Bengaluru	4	5,038	21	44	338
Chandigarh	IndianOil- Adani Gas	Chandigarh	4	10,583	0	0	4,000
Kerala	IndianOil- Adani Gas	Ernakulam	4	2,661	0	3	0
Daman and Diu	IndianOil- Adani Gas	Daman and Diu	1	2,073	3	13	500
Dadra & Nagar Haveli	Gujarat Gas Ltd.	Dadra & Nagar Haveli	1	439	8	9	0
Odisha	GAIL (India) Ltd.	Bhubaneswar	2	87	0	0	438

20. Statu	20. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.03.2018								
State	Entity operating	Geographical area	CNG stations	PI	No. of CNG				
State	Littity operating	Geographicararea	CIVO Stations	Domestic	Industrial	Commercial	vehicles		
Maharashtra	Maharashtra Natural	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	263	11,86,743	219	3,712	7,85,343		
Tripura	Tripura Natural Gas Co. Ltd	Agartala	6	33,673	50	406	10,560		
West Bengal	Greater Calcutta Gas Supply Corporation Ltd	Kolkata	7	0	0	0	3,471		
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.	Agra, Kanpur, Bareilly, Lucknow, Moradabad, Firozabad Geographical Area	73	96,456	615	357	1,35,959		
Total			1,349	41,93,076	7,507	25,932	30,78,779		

21. Major natural gas pipeline network as on 01.04.2018								
Nature	Nature of pipeline GAIL Reliance GSPL ARN IOCL ONGC Total							Total
Natural gas	Length (KM)	11410	1784	2618	817	140	24	16793
	Cap (MMSCMD)	229.5*	83.5	43.0	3.2	9.5	6.0	387.3

^{*}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 F				Price buildup of petroleum products (Rs./litre/Cylinder)					
Particulars	2015-16	2016-17	2017-18	Particulars			Petrol*	Diesel*	
Crude oil (Indian Basket)	46.17	47.56	56.43	Price charged to dealers (excluding Excise Duty and VAT)			35.24	37.81	
Petrol	61.72	58.10	67.83	Excise Duty			19.48	15.33	
Diesel	55.02	56.59	68.19	Dealer Commission	(Average)		3.60	2.52	
Kerosene	55.71	56.81	67.65	VAT (incl VAT on de	aler commission)		15.75	9.61	
LPG (\$/MT)	394.71	393.31	486.04	Retail selling price (RSP) -Rounded		74.07	65.27	
FO (\$/MT)	235.13	258.92	327.50		Particulars		PDS SKO*	Sub. Dom LPG*	
Naphtha (\$/MT)	420.14	415.17	494.73	Price before taxes a	nd dealer/distrib	utor commission	21.05	573.26	
Exchange (Rs./\$)	65.46	67.09	64.45	Dealer/distributor commission			2.03	49.12	
Customs & exc	ise duty rates	(w.e.f. 02.02	.2018)	GST (incl GST on dealer/distributor commission)			1.15	31.12	
Product	Basic Customs	Excise duty	GST rates	Retail Selling Price			24.24	653.50	
	duty#			Less: Cash Compensation on LPG to consumers under DBTL				162.15	
Petrol	2.50%	Rs 19.48/Ltr	**	Effective cost to consumer after subsidy 491.35					
Diesel	2.50%	Rs 15.33/Ltr	**	*Petrol and diesel	at Delhi as per IC	OCL are as on 19t	h April, 2018. S	KO at Mumbai is	
PDS SKO	Nil		5.00%	as on 16th April, 2	018 and Sub. Do	om LPG at Delhi	is as on 1st Ap	ril, 2018. RSP of	
Non-PDS SKO	5.00%		18.00%	Subsidized Dom LPG	rounded.				
Domestic LPG	Nil***	Not	5.00%	Impact of change	es in product p	rice by \$1 per b	bl for PDS SK	O and \$10/MT	
Non Domestic LPG	5.00%	Applicable	18.00%	for Dom	nestic LPG & ch	ange in exchan	ge rate by ₹1	per \$	
Furnace Oil (Non-Fert)	5.00%		18.00%		•	nge in product	•	f change in	
Naphtha (Non-Fert)	5.00%		18.00%		price by \$1per	bbl / \$10per MT	exchange	rate by ₹ 1/\$	
ATF	Nil	14% *	**	Product	Per unit impact	Annualised	Per unit	Annualised	
	Nil+Rs.50/ -MT	Nil+ Cess@		Product	(₹/lit./cyl.)	financial	impact	financial	
Crude Oil	as NCCD	20% +Rs.50 /-	**			impact (₹crore)	(₹/lit./cyl.)	impact (₹crore)	
	as NCCD	MT NCCD							
*2% for scheduled comm		-		PDS SKO	0.43	180	0.53	230	
airports; ** Crude oil, Petrol, Diesel, ATF and Natural Gas are outside GST levy;			Domestic LPG	9.33	1250	6.70	900		
# 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				Total	-	1,430	-	1,130	
OMCs Customs duty rate is	import of Domestic LPG sold to household consumers (including NDEC) by PSU			Note: The above cal	iculations are bas	sea on KIP for Ap	rii, 2018		

OMCs. Customs duty rate is 5% for other importers of domestic LPG.

23. Information on Prices, T								
Under-recoveries/subsidy & burden sharing								
Product	2015-16	2015-16 2016-17 Apr-Dec'20						
Per unit under-recovery/subsidy (Rs./litre/Cylinder)								
PDS SKO	13.47	11.39	9.46					
Sub. Dom LPG	150.82*	108.78	157.61					
Total under-re	coveries includ	ding DBTL Subs	sidy (Rs. Crores)					
PDS SKO	11,496	7,595	3,275					
Sub. Dom LPG	16,074#	12,133	14,172					
Total	27,570	19,728	17,446					

Burden sharing (Rs. Crores)								
Particulars	Apr-Dec'2017							
Government	26,301	19,728	17446**					
Upstream	1,251	0	0					
OMCs	18	0	0					

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

^{**} Pending sanction for 2017-18 (April-Dec 2017) -Sub.Dom LPG Rs.5,485 Cr; PDS-SKO Rs. 1,209 Cr.

ixes and Under-recoveries/Subsidies								
Sales & profit of petroleum sector (Rs. Crores)								
Apr-Dec'201	Turnover	PAT						
Upstream/midstream Comp	oanies (PSU)	106,271	19,429					
Downstream Companies (PS	SU)	740,367	25,983					
Standalone Refineries (PSU))	74,494	3,862					
Private-RIL		218,108	24,915					
Borrow	ings 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	21,250	12,124						
*Regrouped as per Ind AS								
Petroleum sector	contribution t	o Central/Sta	te 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 price	s)					
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

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

24. Capital expenditure of PSU oil companies								
(Rs in crores								
					2017-18			
Company	2013-14	2014-15	2015-16 (P)	2016-17 (P)	Target	Actual (P) [#]		
ONGC Ltd	32,470	29,997	29,502	28,010	29,968	72,383		
ONGC Videsh Ltd (OVL)	35,357	7,172	6,783	18,360	7,088	6,240		
Oil India Ltd (OIL)	9,351	3,774	3,550	10,514	9,252	8,395		
GAIL (India) Ltd	4,070	1,632	1,880	2,180	2,053	3,613		
Indian Oil Corp. Ltd. (IOCL)	16,661	14,314	14,368	21,918	20,162	20,345		
Hindustan Petroleum Corp. Ltd (HPCL)	2,642	2,670	5,459	5,861	7,110	7,134		
Bharat Petroleum Corp. Ltd (BPCL)	4,374	6,875	10,926	16,810	7,100	8,161		
Mangalore Refinery & Petrochem Ltd (MRPL)	1,449	2,747	1,550	614	1,138	1,281		
Chennai Petroleum Corp. Ltd (CPCL)	229	466	1,318	1,293	845	963		
Numaligarh Refinery Ltd (NRL)	372	103	237	500	1,261	387		
Balmer Lawrie Co. Ltd (BL)	120	80	38	73	50	78		
Total	1,07,095	69,830	75,611	1,06,133	86,027	1,28,981		

^{*(}P) Provisional & includes expenditure on investment in JV/subsidiaries.

25. Conversion factors and volume conversion							
Weight to	volume co	onversion		Volume conversion			
Product	Weight (MT)	Volume (KL)	Barrel (bbl)	From	То		
LPG	1	1.844	11.60	1 US Barrel (bbl)	159 litres		
Petrol (MS)	1	1.411	8.88	1 US Barrel (bbl) 42 US Gallons			
Diesel (HSD)	1	1.210	7.61	1 US Gallon 3.78 litres			
Kerosene (SKO)	1	1.285	8.08	1 Kilo litre (KL)	6.29 bbl		
ATF	1	1.288	8.10	1 Million barrels per day	49.8 MMTPA		
Light Diesel Oil (LDO)	1	1.172	7.37	Energy cor	iversion		
Furnace Oil (FO)	1	1.071	6.74	1 Kilocalorie (kcal)	4.187 kJ		
Crude Oil	1	1.170	7.33	1 Kilocalorie (kcal)	3.968 Btu		
Exclusive Economic Zone				1 Kilowatt-hour (kWh)	860 kcal		
200 Nautical Miles 370.4 Kilometers				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			