Ready Reckoner

Snapshot of India's Oil & Gas data

April, 2019

Analysis • Knowledge • Information

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

As on 20.05.2019

Index of Tables

Highlights for the month	
•	Indigenous crude oil and condensate production during April 2019 was lower by 6.9% than that of April 2018. OIL, ONGC and PSC registered lower production by 3.3%, 4.9% and 12.4% respectively during April 2019 as compared to April 2018.
•	Total crude oil processed during April 2019 was 20.7 MMT, which was 4.3% higher than April 2018. Indian refineries processed 77.2% high sulphur crude during April 2019 as compared to 73.9% during April 2018
•	Production of petroleum products during April 2019 saw a growth of 4.3% over April 2018.
•	Crude oil imports increased by 14.1% during April 2019 as compared to April 2018.
•	POL products imports decreased by 0.8% during April 2019 as compared to April 2018. Decrease in POL products imports during April 2019 was due to decrease in imports of naphtha, fuel oil, bitumen and petcoke.
•	Exports of POL products increased by 16.6% during April 2019 as compared to April 2018. Increase in POL products exports during April 2019 was mainly due to increase in exports of MS, naphtha, ATF and HSD.
•	Petroleum product consumption registered a growth of 0.3% in April 2019. Except for naphtha (-8.1%), ATF (-5.7%), SKO (-17.1%), LDO (-19.8%), FO/LSHS (-3.2%), bitumen (-6%) and petcoke (-18.5%), all other products registered a growth during April 2019.
•	Total LPG consumption recorded a growth of 2.4% in April 2019 compared to 6.8% growth in April 2018. Out of the five regions, Northern region had the highest share in total LPG consumption of 32.3% followed by Southern region at 27.4%, Western region at 21.5%, Eastern region at 16% and North Eastern region at 2.8% during April 2019. North Eastern region had the highest growth of 7.6% in total LPG consumption during April 2019.
•	SKO consumption registered de-growth of 17.1% in April 2019 as compared to 7.4% de-growth in April 2018. This was mainly because of reduced Q1, 2019-20 PDS SKO allocation to the states and voluntary surrender of some of the allocation by the states.

•	ATF consumption after 52 months of continuous positive growth, registered a de-growth of 5.7% in April 2019 mainly due to grounding of Jet Airways flights.
•	Gross production of natural gas for the month of April, 2019 was 2655.9 MMSCM which was lower by 0.3% compared with the corresponding month of the previous year.
•	LNG import for the month of April, 2019 was 2502.3 MMSCM which was 9.75 % higher than the corresponding month of the previous year.
•	The price of Brent Crude averaged $71.26/bbl during April 2019 as against $66.12/bbl during March 2019 and $/71.80bbl during April 2018. The Indian basket crude price averaged $71.00/bbl during April 2019 as against $66.74/bbl during March 2019 and $69.22 /bbl during April 2018.

1. Selected indicators of the Indian economy								
Economic indicators		Unit/ Base	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
1	Population (as on 1st May, 2011)	Billion	1.2	-	-	-	-	-
2	GDP at constant (2011-12 Prices)	Growth %	6.4	7.4	8.0 3rd RE	8.2 2nd RE	7.2 1st RE	7.0 2nd AE
3	Agricultural Production (Food grains)	MMT	265.1	252.0	251.5	275.1	277.5 2nd AE	281.4 2nd AE
		Growth %	3.1	-4.9	-0.2	9.4	0.9	1.4
4	Gross Fiscal Deficit	%	-4.5	-4.1	-3.9	-3.5	-3.5	-3.4 RE

Economic indicators		Unit/ Base	2015-16	2016-17	2017-18	2018-19 (P)	April	
							2018-19	2019-20 (P)
5	Index of Industrial Production (Base: 2011-12)	Growth %	3.3	4.6	4.4	3.6	5.3*	-0.1* QE
6	Imports	$ Billion	381.0	384.4	465.6	507.4	39.6	41.4
7	Exports	$ Billion	262.3	275.9	303.5	331.0	25.9	26.1
8	Trade Balance	$ Billion	-118.7	-108.5	-162.1	-176.4	-13.7	-15.3
9	Foreign Exchange Reserves @	$ Billion	355.6	370.0	424.4	411.9	420.4	418.5

IIP is for the month of *March; @2015-16-as on March 25, 2016, 2016-17-as on March 31, 2017, 2017-18-as on March 30, 2018, 2018-19-as on March 29, 2019, April 2018- as on April 27, 2018 and April 2019-as on April 26, 2019; AE-Advanced Estimates; RE-Revised Estimates; QE-Quick Estimates.

Source: Ministry of Commerce & Industry, Ministry of Agriculture & Farmer's Welfare, Reserve Bank of India

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

	Details	Unit/ Base	2015-16	2016-17	2017-18	2018-19 (P)	April (P) 2018-19	April (P) 2019-20
1	Crude oil production in India	MMT	36.9	36.0	35.7	34.2	2.9	2.7
2	Consumption of petroleum products	MMT	184.7	194.6	206.2	211.6	17.8	17.8
3	Production of petroleum products	MMT	231.9	243.5	254.3	262.4	20.2	21.0
4	Gross natural gas production	MMSCM	32,249	31,897	32,648	32,874	2,663	2,656
5	Natural gas consumption	MMSCM	52,517	55,534	58,059	59,071	4,879	5,083
6	Imports & exports:							
	Crude oil imports	MMT	202.9	213.9	220.4	226.6	17.3	19.7
		$ Billion	64.0	70.2	87.8	112.0	8.3	9.8
	Petroleum products (POL) imports	MMT	29.5	36.3	35.5	32.5	3.0	2.9
		$ Billion	10.0	10.6	13.6	16.2	1.3	1.5
	Gross petroleum imports (Crude + POL)	MMT	232.3	250.2	255.9	259.2	20.3	22.7
		$ Billion	73.9	80.8	101.4	128.2	9.6	11.3
	Petroleum products exports	MMT	60.5	65.5	66.8	61.1	3.8	4.4
		$ Billion	27.1	29.0	34.9	38.2	2.4	2.8
	LNG imports	MMSCM	21,388	24,686	26,328	27,015	2,280	2,502
		$ Billion	6.9	6.1	7.7	9.6	0.8	0.7
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	19.4	21.0	21.8	25.3	24.2	27.4
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	10.3	10.5	11.5	11.6	9.4	10.7
9	Import dependency of crude (on consumption basis)	%	80.6	81.7	82.9	83.7	83.8	86.8

April 2019 private import (POL) quantity is prorated on the basis of March 2018-February 2019 actual data provided by DGCIS.

Note: Crude oil imports ($ Billion) during 2018-19 does not include value of crude oil quantity of 0.8 MMT imported at ISPRL, Mangalore.

3. Indigenous crude oil production (Million Metric Tonnes)

Details	2015-16	2016-17	2017-18	2018-19 (P)	April 2018-19 (P)	April 2019-20 (Target)*	April 2019-20 (P)
ONGC	21.1	20.9	20.8	19.6	1.6	1.7	1.6
Oil India Limited (OIL)	3.2	3.3	3.4	3.3	0.3	0.3	0.3
Private / Joint Ventures (JVs)	11.2	10.4	9.9	9.6	0.8	0.8	0.7
Total Crude Oil	**35.5**	**34.5**	**34.0**	**32.5**	**2.8**	**2.7**	**2.6**
ONGC condensate	1.3	1.4	1.5	1.5	0.1		0.1
PSC condensate	0.2	0.1	0.2	0.2	0.02		0.02
Total condensate	**1.4**	**1.5**	**1.6**	**1.7**	**0.1**		**0.1**
Total (Crude + Condensate) (MMT)	**36.9**	**36.0**	**35.7**	**34.2**	**2.9**	**2.7**	**2.7**
Total (Crude + Condensate) (Million Bbl)	**270.5**	**263.9**	**261.6**	**250.7**	**21.4**	**19.9**	**19.9**

*Target is inclusive of condensate. Targets as provided by OIL, ONGC and DGH as MOP&NG targets are not finalised.

4. Domestic oil & gas production vis-à-vis overseas production

Details	2015-16	2016-17	2017-18	2018-19 (P)	April (P) 2018-19	April (P) 2019-20
Total domestic production (MMTOE)	69.2	67.9	68.3	67.1	5.6	5.4
Overseas production (MMTOE)	10.2	17.4	21.8	24.8	2.0	2.1
Overseas production as percentage of domestic production	**14.7%**	**25.6%**	**31.9%**	**37.0%**	**36.6%**	**38.6%**

Source: ONGC Videsh, GAIL, OIL , IOCL, HPCL & BPRL; Note: IOCL data for 2016-17 & 2017-18 revised.

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

Details		2015-16	2016-17	2017-18	2018-19 (P)	April (P) 2018-19	April (P) 2019-20
1	High Sulphur crude	166.1	177.4	188.4	194.0	14.7	16.0
2	Low Sulphur crude	66.7	67.9	63.6	63.3	5.2	4.7
Total crude processed		**232.9**	**245.4**	**251.9**	**257.2**	**19.9**	**20.7**
Percentage share of HS crude in total crude oil processing		**71.3%**	**72.3%**	**74.8%**	**75.4%**	**73.9%**	**77.2%**

6. Quantity and value of crude oil imports			
Year	**Quantity (MMT)**	**$ Million**	**Rs. Crore**
2018-19 (P)	226.6	111,956	7,83,427
2019-20 (Estimated)	233.0	112,721	8,00,317

Note: 2019-20 Imports are estimated at average price of Indian basket crude oil $66/bbl and average exchange rate for Rs.71/$.

Impact of variation in crude oil price & exchange rate on value of crude oil imports for April 2019 - March 2020 :

If crude prices changes by one $/bbl - Crude oil import bill changes by Rs. 12,126 crores

If exchange rate of Rs./$ changes by Rs. 1/$ - Crude oil import bill changes by Rs. 11,272 crores

7. Self-sufficiency in petroleum products (Million Metric Tonnes)							
Particulars		**2015-16**	**2016-17**	**2017-18**	**2018-19 (P)**	**April (P)**	
						2018-19	**2019-20**
1	Indigenous crude oil processing	34.1	33.5	32.8	31.7	2.7	2.1
2	Products from indigenous crude (93.3% of crude oil processed)	31.8	31.3	30.6	29.6	2.5	1.9
3	Products from fractionators (Including LPG and Gas)	4.0	4.3	4.6	4.9	0.4	0.4
4	Total production from indigenous crude & condensate **(2 + 3)**	35.8	35.6	35.2	34.5	2.9	2.3
5	Total domestic consumption	184.7	194.6	206.2	211.6	17.8	17.8
% Self-sufficiency (4 / 5)		**19.4%**	**18.3%**	**17.1%**	**16.3%**	**16.2%**	**13.2%**

8. Refineries: Installed capacity and crude oil processing (MMTPA / MMT)									
Company	**Refinery**	**Installed capacity (1.5.2019) (MMTPA)**	**Crude oil processing (MMT)**						
			2015-16	**2016-17**	**2017-18**	**2018-19 (P)**	**April**		
							2018-19 (P)	**2019-20 (Target)***	**2019-20 (P)**
IOCL	Barauni (1964)	6.0	6.5	6.5	5.8	6.7	0.6	0.5	0.6
	Koyali (1965)	13.7	13.8	14.0	13.8	13.5	1.2	0.8	0.6
	Haldia (1975)	7.5	7.8	7.7	7.7	8.0	0.7	0.7	0.7
	Mathura (1982)	8.0	8.9	9.2	9.2	9.7	0.8	0.8	0.8
	Panipat (1998)	15.0	15.3	15.6	15.7	15.3	1.4	1.2	1.2
	Guwahati (1962)	1.0	0.9	0.9	1.0	0.9	0.09	0.09	0.07
	Digboi (1901)	0.65	0.6	0.5	0.7	0.7	0.06	0.06	0.05
	Bongaigaon(1979)	2.35	2.4	2.5	2.4	2.5	0.2	0.2	0.2
	Paradip (2016)	15.0	1.8	8.2	12.7	14.6	0.3	1.1	1.3
	IOCL-TOTAL	**69.2**	**58.0**	**65.2**	**69.0**	**71.8**	**5.3**	**5.5**	**5.5**
CPCL	Manali (1969)	10.5	9.1	9.8	10.3	10.3	0.8	0.9	0.8
	CBR (1993)	1.0	0.5	0.5	0.5	0.4	0.04	0.0	0.0
	CPCL-TOTAL	**11.5**	**9.6**	**10.3**	**10.8**	**10.7**	**0.9**	**0.9**	**0.8**
BPCL	Mumbai (1955)	12.0	13.4	13.5	14.1	14.8	1.2	1.2	1.1
	Kochi (1966)	15.5	10.7	11.8	14.1	16.1	1.3	1.4	1.5
BORL	Bina (2011)	7.8	6.4	6.4	6.7	5.7	0.5	0.6	0.7
NRL	Numaligarh (1999)	3.0	2.5	2.7	2.8	2.9	0.2	0.2	0.2
	BPCL-TOTAL	**38.3**	**33.0**	**34.4**	**37.7**	**39.4**	**3.2**	**3.5**	**3.5**

Company	Refinery	Installed capacity (1.5.2019) (MMTPA)	Crude oil processing (MMT)						
			2015-16	2016-17	2017-18	2018-19 (P)	April		
							2018-19 (P)	2019-20 (Target)*	2019-20 (P)
ONGC	Tatipaka (2001)	0.066	0.07	0.09	0.08	0.07	0.007	0.004	0.006
MRPL	Mangalore (1996)	15.0	15.5	16.0	16.1	16.2	1.3	1.0	1.0
	ONGC-TOTAL	**15.1**	**15.6**	**16.1**	**16.2**	**16.3**	**1.3**	**1.0**	**1.0**
HPCL	Mumbai (1954)	7.5	8.0	8.5	8.6	8.7	0.7	0.7	0.3
	Visakh (1957)	8.3	9.2	9.3	9.6	9.8	0.8	0.8	0.8
HMEL	Bathinda (2012)	11.3	10.7	10.5	8.8	12.5	1.0	0.9	1.1
	HPCL- TOTAL	**27.1**	**27.9**	**28.3**	**27.1**	**30.9**	**2.5**	**2.4**	**2.1**
RIL	Jamnagar (DTA) (1999)	33.0	32.4	32.8	33.2	31.8	2.7	2.7	2.8
	Jamnagar (SEZ) (2008)	35.2	37.1	37.4	37.3	37.4	2.3	2.3	3.2
NEL#	Vadinar (2006)	20.0	19.1	20.9	20.7	18.9	1.7	1.7	1.7
All India		**249.4**	**232.9**	**245.4**	**251.9**	**257.2**	**19.9**	**20.0**	**20.7**

*Targets are as received from oil companies. #Nayara Energy Limited (formerly Essar Oil Limited). Note: Some sub-totals/ totals may not add up due to rounding off at individual levels.

9. Major crude oil and product pipeline network (as on 01.05.2019)

Details		ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Others*	Total
Crude Oil	Length (KM)	1,284	1,193	688	1,017	5,301	937	-	-	**10420**
	Cap (MMTPA)	60.6	9.0	10.7	11.3	48.6	7.8	-	-	**147.9**
Products	Length (KM)	-	654	-	-	8,769	2,241	3,371	2,395	**17430**
	Cap (MMTPA)	-	1.7	-	-	45.6	19.5	38.1	9.4	**114.3**

***Others** include GAIL and Petronet India. HPCL and BPCL lubes pipeline included in products pipeline data

10. Gross Refining Margins (GRM) of refineries ($/bbl)					
Company	**Refinery**	**2015-16**	**2016-17**	**2017-18**	**2018-19 (9M)**
IOCL	Barauni	2.93	6.52	6.60	3.39
	Koyali	6.80	7.55	9.44	6.12
	Haldia	3.96	6.80	6.86	4.89
	Mathura	3.30	7.01	7.09	5.53
	Panipat	4.15	7.95	7.74	5.36
	Guwahati **	15.88	22.14	21.88	17.80
	Digboi **	16.17	24.49	24.86	23.63
	Bongaigaon **	11.09	20.15	20.62	17.84
	Paradip #	-0.65	4.22	7.02	4.22
	Weighted average	**5.06**	**7.77**	**8.49**	**5.83**
BPCL	Kochi	6.87	5.16	6.44	5.12
	Mumbai	6.37	5.36	7.26	5.38
	Weighted average	**6.59**	**5.26**	**6.85**	**5.25**
HPCL	Mumbai	8.09	6.95	8.35	6.00
	Visakhapatnam	5.46	5.51	6.55	4.44
	Weighted average	**6.68**	**6.20**	**7.40**	**5.17**
CPCL	Chennai	5.27	6.05	6.42	3.92
MRPL	Mangalore	5.20	7.75	7.54	3.72
NRL	Numaligarh **	23.68	28.56	31.92	26.76
BORL	Bina	11.70	11.80	11.70	10.10
RIL	Jamnagar	10.80	11.00	11.60	9.50
NEL@	Vadinar	10.81	9.14	8.95	*

*Data not available; ** GRM of North Eastern refineries are including excise duty benefit. For GRM excluding excise duty benefit, refer table 11; # Commissioned in February, 2016; @Nayara Energy Limited (formerly Essar Oil Limited)

11. GRM of North-East refineries excluding excise duty benefit ($/bbl)

Company	Refinery	2015-16	2016-17	2017-18	2018-19 (9M)
IOCL	Guwahati	1.26	1.12	3.70	1.40
	Digboi	4.16	7.73	8.27	9.43
	Bongaigaon	0.08	6.03	6.22	4.83
NRL	Numaligarh	8.06	8.50	11.43	10.67

12. Production and consumption of petroleum products (Million Metric Tonnes)

Products	2016-17		2017-18		2018-19 (P)		April 2018-19 (P)		April 2019-20 (P)	
	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	11.3	21.6	12.4	23.3	12.8	24.9	1.0	1.9	1.0	1.9
MS	36.6	23.8	37.8	26.2	38.0	28.3	3.0	2.3	3.1	2.5
NAPHTHA	19.7	13.2	20.0	12.9	19.6	14.1	1.5	1.2	1.4	1.1
ATF	13.8	7.0	14.7	7.6	15.5	8.3	1.2	0.7	1.2	0.7
SKO	6.0	5.4	4.3	3.8	4.1	3.5	0.4	0.3	0.3	0.3
HSD	102.1	76.0	108.1	81.1	110.6	83.5	8.3	7.2	9.1	7.3
LDO	0.6	0.4	0.6	0.5	0.7	0.6	0.04	0.06	0.05	0.05
LUBES	1.0	3.5	1.0	3.9	0.9	3.9	0.09	0.2	0.06	0.3
FO/LSHS	12.0	7.2	10.3	6.7	10.0	6.5	0.7	0.5	0.7	0.5
BITUMEN	5.2	5.9	5.3	6.1	5.6	6.6	0.6	0.7	0.5	0.6
PET COKE	12.9	24.0	13.9	25.7	13.7	20.5	1.0	1.9	1.2	1.6
OTHERS	22.3	6.6	26.2	8.3	31.0	11.0	2.3	0.8	2.4	1.0
ALL INDIA	**243.5**	**194.6**	**254.3**	**206.2**	**262.4**	**211.6**	**20.2**	**17.8**	**21.0**	**17.8**
Growth (%)	**5.0%**	**5.4%**	**4.4%**	**5.9%**	**3.2%**	**2.7%**	**2.7%**	**4.2%**	**4.3%**	**0.3%**

Note: Prod - Production; Cons - Consumption

13. LPG consumption (Thousand Metric Tonne)

LPG category	2015-16	2016-17	2017-18	2018-19 (P)	April (P) 2018-19	April (P) 2019-20	April (P) Gr (%)
1. PSU Sales :							
LPG-Packed Domestic	17181.7	18,871.4	20,351.8	21,732.5	1,618.8	1,654.6	2.2
LPG-Packed Non-Domestic	1464.4	1,775.9	2,085.8	2,358.8	178.2	188.2	5.6
LPG-Bulk	317.2	364.3	355.4	322.0	29.7	22.2	-25.3
Auto LPG	170.9	167.3	184.4	180.3	14.4	14.0	-3.3
Sub-Total (PSU Sales)	**19,134.2**	**21,178.9**	**22,977.4**	**24,593.6**	**1,841.2**	**1,878.9**	**2.1**
2. Direct Private Imports*	489.0	429.3	364.5	324.4	20.8	27.1	29.9
Total (1+2)	**19,623.2**	**21,608.2**	**23,341.8**	**24,918.0**	**1,862.0**	**1,906.0**	**2.4**

*April 2019 import data are prorated on the basis of March 2018-February 2019 actual data provided by DGCIS.

14. Kerosene allocation vs upliftment (Kilo Litres)

Product	2015-16		2016-17		2017-18		2018-19 (P)	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
PDS Kerosene	86,85,384	85,36,752	69,33,030	66,78,447	50,21,828	46,69,160	44,32,994	41,52,117

15. Industry marketing infrastructure (as on 01.05.2019) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL	NEL[##]	SHELL	Others	Total
POL Terminal/ Depots **(Nos.)**[$]	125	78	83	18	3	-	6	**313**
Aviation Fuel Stations **(Nos.)**[@]	116	56	43	31	-	-	1	**247**
Retail Outlets (total) **(Nos.),**[^]	27,721	14,813	15,447	1,400	5,170	145	7	**64,703**
out of which Rural ROs	7,864	2,252	3,480	127	1,829	20	-	**15,572**
SKO/LDO agencies **(Nos.)**	3,889	1,001	1,638	-	-	-	-	**6,528**
LPG Distributors (total) **(Nos.) (PSUs only)**	11,979	5,912	5,866	-	-	-	-	**23,757**
LPG Bottling plants **(Nos.) (PSUs only)**[#]	89	51	49	-	-	-	3	**192**
LPG Bottling capacity **(TMTPA) (PSUs only)**[&]	9,666	4,182	4,317	-	-	-	173	**18,338**
LPG active domestic consumers **(Nos. crore) (PSUs only)**	12.4	6.8	7.3	-	-	-	-	**26.6**

[$](RIL= 5 terminals and 13 depots, Others=4 MRPL & 2 NRL); [@](Others=ShellMRPL -1); [^](Others=MRPL-7); [#]**(**Others=NRL-1, OIL-1, CPCL-1); [&](Others=NRL-30, OIL-23, CPCL-120); [##]Nayara Energy Limited (formerly Essar Oil Limited).

16. Natural gas at a glance

(MMSCM)

Details	2015-16	2016-17	2017-18	2018-19 (P)	April 2018-19 (P)	April 2019-20 (Target)	April 2019-20 (P)
(a) Gross production	32,249	31,897	32,648	32,874	2,663	2,669	2,656
- ONGC	21,177	22,088	23,429	24,675	1,972	1,988	2,038
- Oil India Limited (OIL)	2,838	2,937	2,881	2,722	221	277	224
- Private / Joint Ventures (JVs)	8,235	6,872	6,338	5,477	470	404	394
(b) Net availability (excluding flare gas and loss)	31,129	30,848	31,731	32,056	2,599		2,580
(c) LNG import	21,388	24,686	26,328	27,015	2,280		2,502
(d) Total consumption including internal consumption (b+c)	52,517	55,534	58,059	59,071	4,879		5,083
(e) Total consumption **(in BCM)**	52.5	55.5	58.1	59.1	4.9		5.1
(f) Import dependency based on consumption (%), {c/d*100}	40.7	44.5	45.3	45.7	46.7		49.2

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-March 2019 (P)	710.5	MMSCM
Production of CBM gas	April 2019 (P)	54.4	MMSCM

18. Major natural gas pipeline network as on 01.05.2019							
Nature of pipeline		**GAIL**	**Reliance**	**GSPL**	**ARN^**	**IOCL**	**Total**
Natural gas	Length (KM)	11,410	1,784	2,593	299	140	**16,226**
	Cap (MMSCMD)	229.6	83.5	43.0	2.9	9.5	**368.5**

^Excludes CGD pipeline network

19. Gas pipelines under execution / construction as on 01.05.2019				
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) Spur Lines, Phase-2	GAIL(India) Ltd.	302	16	36"/30"/24"/18"
Jagdishpur- Haldia-Bokaro-Dhamra (JHBDPL)	GAIL(India) Ltd.	2,539	16	30"/24"/18"/12"/8"/4"
Mallavaram-Bhopal-Bhilwara-Vijaipur	GSPL India Transco Ltd.	1,881	78.25	42"/36"/30"/24"/18"/12"
Mehsana - Bathinda	GSPL India Gasnet Ltd.	2,052	77.1	36"/24"/18"/12"
Bathinda -Jammu-Srinagar	GSPL India Gasnet Ltd.	725	42.4	24"/18"/16"/12"/8"/6"
Kakinada - Vizag-Srikakulam	AP Gas Distribution	391	90	24"/18"/8"/4"
Ennore- Nellore	Gas Transmission India Pvt.	250	36	24"/18"
Ennore-Thiruvallur-Bengaluru-Puducherry-Nagapattinam-Madurai-Tuticorin	Indian Oil Corporation Ltd.	1,385	84.7	28"/24"/16"/12" /10"
Jaigarh-Mangalore	H-Energy Pvt. Ltd.	635	17	24"
Total		**11,216**		

20. Existing LNG terminals			
Location	**Promoters**	**Capacity as on 01.04.2019**	**Capacity utilisation in % 2018-19 (P)**
Dahej	Petronet LNG Ltd (PLL)	15 MMTPA	106.5%
Hazira	Shell Energy India Pvt. Ltd.	5 MMTPA	79.9%
Dabhol	RGPPL (GAIL - NTPC JV)	1.692 MMTPA*	24.4%
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	9.3%
Total Capacity		**26.7 MMTPA**	

* To increase to 5 MMTPA with breakwater

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.05.2019							
State	**Entity operating**	**Geographical area/City**	**CNG stations**	**No. of CNG vehicles**	**PNG connections**		
					Domestic	**Commercial**	**Industrial**
Andhra Pradesh	Bhagyanagar Gas Ltd, Godavari Gas Pvt.Ltd., Megha Engineering & Infrastructures Ltd.	Kakinada, Vijaywada, East/West Godavari, Krishna district GA (excluding areas already authorized)	45	19,797	31,349	122	4
Assam	Assam Gas Co. Ltd	Upper Assam GA	0	0	32,731	1,074	402
Chandigarh	Indian Oil-Adani Gas Pvt. Ltd.	Chandigarh	6	7,500	10,640	1	1
Dadra & Nagar Haveli	Gujarat Gas Ltd.	UT of Dadra & Nagar Haveli GA	3	1,561	2,788	18	15
Daman and Diu	Indian Oil-Adani Gas Pvt. Ltd.	Daman	3	1,000	510	22	12
Delhi	Indraprastha Gas Ltd .	NCT of Delhi (Including Noida & Ghaziabad)	484	10,63,111	11,08,405	2,579	1,790
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 & Sabarkanta GA, Patan district GA, Surat-Bharuch-Ankleswar GA, Nadiad GA, Navsari GA, Rajkot GA, Surendranagar GA, Hazira GA, Valsad GA, Jamnagar GA, Bhavnagar GA, Kutch (West) GA, Amreli District GA, Dahej Vagra Taluka GA, Dahod District GA, Panchmahal District GA, Anand (excluding area authorised) district GA, Ahmedabad city and Daskroi area (excluding area already authorised) GA, Vadodara district, Vadodara Rural, Ahmedabad district GA, Anand area including Kanjari and Vadtal villages GA and Palanpur	548	9,31,444	20,50,564	18,682	4,887

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.05.2019

State	Entity operating	Geographical area/City	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
Haryana	Haryana City Gas Distribution Ltd., Adani Gas Ltd., GAIL Gas Ltd., Indraprastha Gas Ltd. , Indian Oil-Adani Gas Pvt. Ltd.	Sonipat, Faridabad, Gurgaon, Rewari, Panipat, Nuh & Palwal, Karnal	74	1,59,929	102,791	291	495
Karnataka	Gail Gas Ltd., Megha Engineering & Infrastructures Ltd.	Bengaluru rural and urban districts GA, Tumkur district GA, Belgaum district GA, Dharwad	16	1,104	19,046	131	78
Kerala	Indian Oil-Adani Gas Pvt. Ltd.	Ernakulam	4	900	1,126	9	2
Madhya Pradesh	Aavantika Gas Ltd, GAIL Gas Ltd	Dewas, Vijaipur, Gwalior GA, Indore GA including Ujjain city	43	36,135	58,421	132	192
Maharashtra	Mahanagar Gas Ltd, Maharashtra Natural Gas Ltd, Gujarat Gas Limited, Mahesh Gas Ltd, Unison Enviro Private Limited	Mumbai, Greater Mumbai, Thane Urban, 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 GA excl. areas already authorized, Palghar district and Thane Rural GA, Pune (excluding area already authorised), Ratnagiri	315	9,32,195	14,67,049	4,076	260

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.05.2019							
State	**Entity operating**	**Geographical area/City**	**CNG stations**	**No. of CNG vehicles**	**PNG connections**		
					Domestic	**Commercial**	**Industrial**
Odisha	GAIL (India) Ltd.	Khordha district GA, Cuttack district GA	6	2,640	225	0	0
Punjab	IRM Energy Pvt. Ltd., GSPL	Fatehgarh Sahib, Amritsar	8	2,270	600	1	12
Rajasthan	Rajasthan State Gas Limited	Kota, Neemrana & Kukas	5	8,438	2,198	12	15
Telangana	Bhagyanagar Gas Ltd.	Hyderabad	45	24,980	11,444	12	17
Tripura	Tripura Natural Gas Co. Ltd	Agartala	9	11,774	39,794	415	49
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.,Torrent Gas Pvt Ltd., GAIL (India) Ltd., IGL	Meerut, Dibiyapur, Mathura, Agra, Kanpur ga, Bareilly GA, Lucknow district, Moradabad GA, Firozabad Geographical Area (TTZ), Khurja GA, Allahabad, Varanasi and Auraiya, Kanpur Dehat & Etawah, Patna, Gorakhpur, Sant Kabir Nagar & Kushinagar, Bulandshahr, Jhansi	140	1,55,602	1,60,107	499	653
Uttarakhand	Indian Oil-Adani Gas Pvt. Ltd.	Udham Singh Nagar, Haridwar district GA	1	100	1,166	3	7
West Bengal	Great Eastern Energy Corporation Ltd.	Kultora, Asansol, Raniganj, Durgapur	7	3,776	0	0	0
Total			**1,762**	**33,64,256**	**51,00,954**	**28,079**	**8,891**

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
October 2018 - March 2019	3.36	7.67
April 2019 - September 2019	3.69	9.32

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

International FOB prices/ Exchange rates ($/bbl)

Particulars	2017-18	2018-19	April 2019
Crude oil (Indian Basket)	56.43	69.88	71.00
Petrol	67.83	75.58	78.83
Diesel	68.19	82.51	81.35
Kerosene	67.65	82.24	80.83
LPG ($/MT)	485.92	526.00	527.00
FO ($/MT)	327.50	420.93	421.14
Naphtha ($/MT)	494.73	573.72	559.47
Exchange (Rs./$)	64.45	69.89	69.43

Customs, excise duty & GST rates (as on 01.12.2018)

Product	Basic customs duty #	Excise duty	GST rates
Petrol	2.50%	Rs 17.98/Ltr	**
Diesel	2.50%	Rs 13.83/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	5.00%	11% *	**
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 excluding CVD in liue of IGST.*** 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)	34.52	39.87
Excise Duty	17.98	13.83
Dealer Commission (Average)	3.55	2.50
VAT (incl VAT on dealer commission)	15.13	9.71
Retail selling price (RSP) -Rounded	**71.18**	**65.91**
Particulars	**PDS SKO***	**Sub. Dom LPG***
Price before taxes and dealer/distributor commission	27.55	627.68
Dealer/distributor commission	2.59	50.89
GST (incl GST on dealer/distributor commission)	1.51	33.93
Retail Selling Price	**31.65**	**712.50**
Less: Cash Compensation on LPG to consumers under DBTL		216.36
Effective cost to consumer after subsidy		**496.14**

*Petrol and diesel at Delhi as per IOCL are as on 16th May 2019. PDS SKO at Mumbai and Sub. Dom LPG at Delhi are as on 16th May 2019 & 1st May 2019 respectively.

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	0.44	160	0.53	200
Domestic LPG	9.94	1390	7.68	1,070
Total	-	**1,550**	-	**1,270**

Note: The above calculations are based on RTP for May 2019.

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

Under-recoveries/subsidy & burden sharing

PDS Kerosene

Product	2016-17	2017-18	2018-19
	Rs./Crore		
Under recovery	7,595	4,672	5,950
Subsidy under DBTK #	11	113	42
Total	**7,605**	**4,785**	**5,992**

#DBTK subsidy excludes cash incentive/assistance for establishment of institutional mechanisam for direct transfer of subsidy paid to States/UTs.

Domestic LPG under DBTL (Direct benefit transfer for LPG)

Particulars	2016-17	2017-18	2018-19
	Rs./Crore		
DBTL subsidy	12,905	20,880	31,441
PME &IEC^	-	25	92
Total	**12,905**	**20,905**	**31,533**

PMUY (Pradhan Mantri Ujjwala Yojana)

Particulars	2016-17	2017-18	2018-19
	Rs./Crore		
PMUY claims	2,999	2,496	5,649
PME & IEC^	-	63	34
Total	**2,999**	**2,559**	**5,683**

^ on payment basis

Sales & profit of petroleum sector (Rs. Crores)

Particulars	2017-18		2018-19 (9M)	
	Turnover	PAT	Turnover	PAT
Upstream/midstream Companies (PSU)	1,48,473	27,231	149,106	30,373
Downstream Companies (PSU)	10,20,395	35,622	9,33,153	17,861
Standalone Refineries (PSU)	1,20,430	5,181	106,158	1,215
Private-RIL	3,15,357	33,612	310,965	26,607

Borrowings of OMCs (Rs. Crores), As on

Company	Mar\`17	Mar\`18	Dec\`18
IOCL	54,820	58,030	64,573
BPCL	23,159	23,351	22,767
HPCL	21,250	20,991	20,618

Petroleum sector contribution to Central/State Govt.

Particulars	2016-17	2017-18	2018-19 (9M)*
Central Government	3,34,534	3,44,671	2,48,637
% of total revenue receipts	24%	23%	19%
State Governments	1,89,770	2,09,155	1,72,944
% of total revenue receipts	9%	9%	8%
Total (Rs. Crores)	**5,24,304**	**5,53,826**	**4,21,581**

*Percentages are based on 9 month contribution vs 9 month adjusted annual budget

Subsidy as a percentage of GDP (at current prices)

Particulars	2015-16	2016-17	2017-18
Petroleum subsidy	0.25	0.18	0.17

Note: GDP figure for 2015-16 and 2016-17 are Revised Estimates and 2017-18 are Provisional Estimates

24. Capital expenditure of PSU oil companies

(Rs in crores)

Company	2016-17 (P)	2017-18 (P)	2018-19 (P)	2019-20 (P)	
				Target	April
ONGC Ltd	28,010	72,383	28,738	32,921	1,264
ONGC Videsh Ltd (OVL)	18,360	6,240	6,013	5,161	304
Oil India Ltd (OIL)	10,514	8,395	3,702	4,105	175
GAIL (India) Ltd	2,180	3,613	5,958	5,339	144
Indian Oil Corp. Ltd. (IOCL)	21,918	20,345	26,548	25,084	996
Hindustan Petroleum Corp. Ltd (HPCL)	5,861	7,134	11,689	9,500	244
Bharat Petroleum Corp. Ltd (BPCL)	16,810	8,161	10,084	7,900	273
Mangalore Refinery & Petrochem Ltd (MRPL)	614	1,281	1,072	818	86
Chennai Petroleum Corp. Ltd (CPCL)	1,293	963	1,208	1,105	58
Numaligarh Refinery Ltd (NRL)	500	387	459	455	2
Balmer Lawrie Co. Ltd (BL)	73	78	125	40	1
Engineers India Ltd (EIL) #	-	-	87	1212	1
Total	**106,133**	**128,981**	**95,684**	**93,639**	**3,548**

(P) Provisional; Includes expenditure on investment in JV/subsidiaries.

Included from 2018-19.

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	1,325 SCM	Power generation from 1 MMSCMD of gas	220 MW