Ready Reckoner

Snapshot of India's Oil & Gas data

September, 2017



Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

Index of Tables

Table	Description	Page
	Highlights for the month	2-3
1	Selected indicators of the Indian economy	4
2	Crude oil, LNG and petroleum products at a glance	5
3	Indigenous crude oil production	6
4	Domestic oil & gas production vis-à-vis overseas production	6
5	High Sulphur (HS) & Low Sulphur (LS) Crude Oil processing	6
6	Quantity and value of crude oil imports	7
7	Self-sufficiency in petroleum products	7
8	Refineries: Installed capacity and crude oil processing	8-9
9	Major crude oil and product pipeline network	9
10	Gross Refining Margins (GRM) of refineries	10
11	GRM of North-East refineries excluding excise duty benefit	11
12	Production and consumption of petroleum products	11
13	LPG consumption	12
14	Kerosene allocation vs upliftment	12
15	Industry marketing infrastructure	12
16	Natural gas at a glance	13
17	Coal Bed Methane (CBM) gas development in India	13
18	Gas pipelines under execution/ construction	14
19	Existing LNG terminals	14
20	Status of PNG connections, CNG stations and CNG vehicles across India	15-17
21	Major natural gas pipeline network	17
22	Domestic natural gas price and gas price ceiling	17
23	Information on prices, taxes and under-recoveries/subsidies	18-19
24	Capital expenditure of PSU oil companies	20
25	Conversion factors and volume conversion	21

Highlights for the month

- Indigenous crude oil production during September 2017 was marginally higher by 0.1% than that of September 2016. PSU companies registered a growth of 2.7% during the month over September 2016. However PSC fields registered de-growth of 6.2% during the month over September 2016 due to decline in production of Rajasthan fields. On cumulative basis, there was a marginal decrease of 0.2% over April- September 2016 in indigenous crude oil production.
- Total crude oil processed during September 2017 was 20.5 MMT, which is an increase of 3.9% over September 2016 mainly due to higher crude oil processed by PSU refineries. On cumulative basis, crude oil processed was marginally higher by 0.7% over the period April- September 2016-17.
- Production of petroleum products during September 2017 saw a growth of 8.1% over September 2016. On cumulative basis a growth of 2.1% was recorded in production over the period April- September 2016-17.
- Crude oil imports decreased by 1.3% during September 2017 as compared to September 2016. On cumulative basis, crude oil imports marginally decreased by 0.1% over the corresponding period of the previous year. Product imports decreased by 10.4% during September 2017 as compared to September 2016 mainly due to decrease in petcoke imports by cement and steel industries. On cumulative basis, product imports decreased by 8.9% over the corresponding period of the previous year.
- Export of POL products increased by 3.7% during September 2017 as compared to September 2016 primarily due to higher surplus availability of HSD and Fuel oil. On cumulative basis, an increase of 1.4% was recorded in product exports over the period April- September 2016-17.
- Petroleum product consumption registered a growth of 10.0% during September 2017 as compared to 0.8% de-growth during September 2016. Except for SKO & FO/LSHS, all other major products registered positive growth during September 2017. During the period April-September 2017, petroleum product consumption registered a growth of 1.5% as compared to 9.9% growth during the same period last year. Lower growth during the current year (April to September 2017) is mainly due to heavy floods in many states and high de-growth in consumption of SKO (-35.6%), naphtha (-13.0%), petcoke (-9.4%) & FO/LHSH (9.0%) which constitute 6.0%, 2.0 %, 11.9 % and 3.4% share in total petroleum product consumption respectively.

- Total LPG consumption continuously for the last forty nine months in a row recorded a positive growth of 3.8% during September, 2017 and a cumulative growth of 9.9% for the period April to September, 2017. Out of the five regions, Northern region had the highest share in consumption of 31.1% followed by Southern region at 28.6%, Western region at 22.1%, Eastern region at 15.9% and North Eastern region at 2.3% during the period April to September, 2017. Eastern region had the highest growth of 20.2% in total LPG consumption during the period April to September, 2017.
- SKO registered a de-growth of 33.6% during September 2017 and cumulative de-growth of 35.6% during the period April-September 2017-18. This was mainly because of reduced allocation to states during Q1 and Q2 of 2017-18, voluntary surrender of PDS SKO quota by Haryana and Punjab and less upliftment in Rajasthan and West Bengal and nil upliftment in Andhra Pradesh during August and September 2017.
- Gross production of natural gas for the month of September, 2017 was 2,723 MMSCM which was higher by 4.74% compared with the corresponding month of the previous year. Cumulative gross production of natural gas of 16412.90 MMSCM for the current year till September, 2017 was higher by 4.38% compared with the corresponding period of the previous year (15723.53 MMSCM).
- LNG imports for the month of September, 2017 was 2414 MMSCM which was 4.8 % higher than the corresponding month of the previous year. Cumulative import of 12446 MMSCM for the current year till September, 2016 was lower by 1.6% compared with the corresponding period of the previous year (12652 MMSCM).
- The price of Brent Crude averaged \$ 56.05/bbl during September, 2017 as against \$ 51.64/bbl during August, 2017. The Indian basket crude averaged \$ 54.52/bbl during September, 2017 as against \$ 50.63/bbl during the previous month.
- The import bill of crude oil is estimated to increase by 15 % from \$ 70 billion in 2016-17 to \$ 81 billion in 2017-18 considering Indian basket crude oil price of \$ 55/bbl and \$/Rs = 65 for the balance part of the year.

	1. Selected indicators of the Indian economy										
	Economic indicators	Unit/Base	2013-14	2014-15	2015-16	2016-17 ^(P)					
1	Population (as on 1 st May, 2011)	Billion	1.2	-	-	-					
2	GDP at Factor Cost (Constant prices)*	Growth %	6.4	7.5	8.0	7.1 PE					
3	Agricultural Production (Food grains)	MMT	265.0	252.0	251.6	275.7 4 th AE					
	Agricultural Froduction (Food grains)	Growth %	3.1	-4.9	-0.2	9.6					
4	Gross Fiscal Deficit	%	-4.5	-4.1	-3.9	-3.5 (RE)					

	Economic indicators		2015-16	2016-17 ^(P)	Septer	nber ^(P)	April-September ^(P)		
	Leonomic malcators	Base	2013-10	2016-17	2016	2017	2016-17	2017-18	
5	Index of Industrial Production [#]	Growth %	3.3	4.6	4.0	4.3	5.9	2.2	
6	Imports	\$ Billion	381.0	384.4	31.8	37.6	175.3	219.3	
7	Exports	\$ Billion	262.3	275.9	22.8	28.6	132.0	147.2	
8	Trade Balance	\$ Billion	-118.7	-108.5	-9.1	-9.0	-43.4	-72.1	
9	Foreign Exchange Reserves [®]	\$ Billion	355.6	370.0	372.0	399.7	-	-	

^{*}Revised on account of using new series of IIP and WPI with base 2011-12. *IIP is for the month of August 2017 & cumulative for Apr-Aug'17, Base year of IIP changed to 2011-12; *@2015-16-as on Mar 25, 2016; 2016-17-as on Mar 31, 2017, September 2016- as on September 30, 2016, September 2017-as on September 29, 2017; AE-Advanced Estimates; RE-Revised Estimates

	2. Crude oil, LNG and petroleum products at a glance										
	Details	Unit/	2015-16	2016-17 ^(P)	Septen	nber ^(P)	April-Se	ptember ^(P)			
	Details	Base	Base		2016	2017	2016-17	2017-18			
1	Crude oil production in India	MMT	36.9	36.0	2.9	2.9	18.1	18.0			
2	2 Consumption of petroleum products		184.7	194.6	14.8	16.3	97.2	98.7			
3	Production of petroleum products	MMT	231.9	243.5	19.2	20.8	120.1	122.7			
4	Imports & exports:										
	Crude oil imports	MMT	202.9	213.9	17.8	17.5	106.9	106.8			
	Crude on imports	\$ Billion	64.0	70.2	5.4	6.5	32.2	37.6			
Po	troleum products (POL) imports	MMT	29.5	36.3	3.0	2.7	19.2	17.5			
Pe	troleum products (POL) imports	\$ Billion	10.0	10.6	0.8	0.9	4.8	5.9			
	Gross petroleum imports	MMT	232.3	250.2	20.7	20.2	126.1	124.3			
	(Crude + POL)	\$ Billion	73.9	80.8	6.2	7.5	37.0	43.4			
	Potroloum products ovports	MMT	60.5	65.5	6.0	6.3	32.4	32.8			
	Petroleum products exports	\$ Billion	27.1	29.0	2.5	3.1	13.5	15.5			
	LNG imports	\$ Billion	6.7	6.1	0.5	0.6	2.8	3.2			
5	Petroleum imports as % of India's gross imports (in value)		19.4	21.0	19.4	19.8	21.1	19.8			
6	6 Petroleum exports as % of India's gross exports (in value)		10.3	10.5	11.0	11.0	10.2	10.5			
7	Import dependency of crude (on consumption)	%	80.6%	81.7%	82.4%	83.2%	81.9%	82.3%			

3. Indigenous crude oil production (Million Metric Tonne)											
				eptember ^(P)		April-September (P)					
Details	2015-16	2016-17 ^(P)	2016	2017	2017	2016-17	2017-18	2017-18			
			(Actual)	(Target)*	2017	(Actual)	(Target)*	2017-18			
ONGC	21.1	20.9	1.7	1.8	1.7	10.4	11.3	10.6			
Oil India Limited (OIL)	3.2	3.3	0.3	0.3	0.3	1.6	1.8	1.7			
Private / Joint Ventures (JVs)	11.2	10.4	0.8	0.9	0.8	5.4	5.3	4.9			
Total Crude Oil	35.5	34.5	2.8	3.0	2.8	17.3	18.4	17.2			
Condensate	1.4	1.5	0.1		0.1	0.7		0.8			
Total (Crude + Condensate) (MMT)	36.9	36.0	2.9	3.0	2.9	18.1	18.4	18.0			
Total (Crude + Condensate) (Million Bbl)	270.8	263.9	21.4	21.9	21.4	132.4	134.6	132.1			

^{*}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		2016-17 ^(P)	Septer	nber ^(P)	April-September (P)		
Details	2015-16	2010-17	2016	2017	2016-17	2017-18	
Total domestic production (MMTOE)	69.2	67.9	5.5	5.6	33.8	34.4	
Overseas production (MMTOE)	10.1	16.2	1.1	1.4	6.1	9.5	
Overseas production as % of domestic production	14.6%	23.9%	19.9%	25.7%	17.9%	27.6%	

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

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

	Details	2015-16	2016-17 ^(P)	Septer	nber ^(P)	April-September (P)				
	Details		2016-17	2016	2017	2016-17	2017-18			
1	High Sulphur crude	166.1	177.6	14.6	15.6	87.6	90.3			
2	Low Sulphur crude	66.7	67.8	5.2	4.9	33.9	32.1			
Total cru	ide processed	232.9	245.4	19.7	20.5	121.5	122.4			
Share of	HS crude in total crude oil processing	71.3%	72.4%	73.9%	76.0%	72.1%	73.8%			

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 (Estimated)	213.50	80,846	5,23,234						

Note: April-September 2017 imports are based on actuals and for October 2017 to March 2018, the imports are estimated at \$55/bbl and Rs. 65/\$.

Impact of variation in Crude oil price & Exchange rate on Crude oil imports for October 2017- March 2018:

If crude prices increase by one \$/bbl

- Net Import bill increases by Rs. 5,116 crores (\$ 0.79 bn)

If exchange rate of \$ increases by Rs. 1/\$

- Net Import bill increases by Rs. 4,329 crores (\$ 0.66 bn)

	7. Self-sufficiency in petroleum products (Million Metric Tonnes)										
	Details	2015-16	2015-16 2016-17 ^(P)		mber ^(P)	April-September ^(P)					
	Details		2010-17	2016	2017	2016-17	2017-18				
1	Indigenous crude oil processing :	34.1	33.5	2.4	2.5	16.7	16.4				
2	Products from indigenous crude (93.3% of crude oil processed)		31.3	2.3	2.3	15.5	15.3				
3	Products from fractionators (Including LPG and Gas)	4.0	4.3	0.3	0.4	2.1	2.2				
4	Total production from indigenous crude & condensate (2 + 3)		35.6	2.6	2.7	17.6	17.5				
5	Total domestic consumption	184.7	194.6	14.8	16.3	97.2	98.7				
	% Self-sufficiency (4 / 5)	19.4%	18.3%	17.6%	16.8%	18.1%	17.7%				

	8. Refinerie	s: Install	ed capa	city and	crude oi	l process	ing (MN	/ITPA / N	1MT)			
		Installed				Crud	ude oil processing (MMT)					
Com-	Refinery	capacity	2015-16	2016-17 ^(P)	S	eptember ^{(P})	Арг	April-September (Target) (Targ			
pany	Remiery	(1.4.2017) (MMTPA)	2015 10	2010-17	2016 (Actual)	2017 (Target)	2017	2016-17 (Actual)	2017-18	2017-18		
IOCL	Barauni (1964)	6.0	6.5	6.5	0.5	0.5	0.4	3.3	2.5	2.5		
	Koyali (1965)	13.7	13.8	14.0	1.1	1.1	1.1	7.3	6.2	6.3		
	Haldia (1975)	7.5	7.8	7.7	0.7	0.7	0.7	4.0	4.0	4.1		
	Mathura (1982)	8.0	8.9	9.2	0.7	0.4	0.3	4.6	3.8	4.3		
	Panipat (1998)	15.0	15.3	15.6	1.2	1.2	1.3	7.7	7.2	7.5		
	Guwahati (1962)	1.0	0.9	0.9	0.07	0.07	0.08	0.4	0.4	0.5		
	Digboi (1901)	0.65	0.6	0.5	0.05	0.04	0.06	0.3	0.3	0.3		
	Bongaigaon(1979)	2.4	2.4	2.5	0.2	0.1	0.2	1.2	1.1	1.2		
	Paradip (2016)	15.0	1.8	8.2	0.4	1.2	1.2	2.8	5.4	6.9		
	IOCL TOTAL	69.2	58.0	65.2	5.0	5.3	5.4	31.7	30.8	33.6		
CPCL	Manali (1969)	10.5	9.1	9.8	0.9	0.9	0.7	5.3	5.1	5.0		
	CBR (1993)	1.0	0.5	0.5	0.04	0.04	0.03	0.3	0.3	0.2		
	CPCL-TOTAL	11.5	9.6	10.3	0.9	0.9	0.7	5.6	5.4	5.2		
BPCL	Mumbai (1955)	12.0	13.4	13.5	1.2	1.0	1.2	7.1	6.3	6.7		
	Kochi (1966)	12.4	10.7	11.8	0.9	1.2	1.2	5.5	6.4	6.5		
BORL	Bina (2011)	6.0	6.4	6.4	0.5	0.2	0.6	3.3	2.9	3.6		
NRL	Numaligarh (1999)	3.0	2.5	2.7	0.1	0.2	0.2	1.2	1.3	1.4		
	BPCL-TOTAL	33.4	33.0	34.4	2.7	2.6	3.2	17.1	16.9	18.3		

		Installed			Crud	e oil proc	essing (N	/IMT)		
Com-	Refinery	capacity				eptember ^{(P.})	Apri	l-Septemb	er ^(P)
pany	Remery	(1.4.2017) (MMTPA)	2015-16	2016-17 ^(P)	2016 (Actual)	2017 (Target)	2017	2016-17 (Actual)	2017-18 (Target)	2017-18
ONGC	Tatipaka (2001)	0.1	0.07	0.09	0.007	0.005	0.007	0.04	0.03	0.04
MRPL	Mangalore (1996)	15.0	15.5	16.0	1.3	1.1	1.1	7.7	7.5	7.5
	ONGC TOTAL	15.1	15.6	16.1	1.3	1.1	1.1	7.7	7.5	7.6
HPCL	Mumbai (1954)	7.5	8.0	8.5	0.6	0.7	0.6	4.1	4.0	4.3
	Visakh (1957)	8.3	9.2	9.3	0.7	0.8	0.8	4.4	4.5	4.9
HMEL	Bathinda (2012)	9.0	10.7	10.5	0.9	0.9	1.0	5.5	3.7	2.9
	HPCL- TOTAL	24.8	27.9	28.4	2.3	2.4	2.5	14.0	12.2	12.0
RIL*	Jamnagar (DTA) (1999)	33.0	32.4	32.8	2.7	2.7	2.7	16.6	16.6	16.3
	Jamnagar (SEZ) (2008)	27.0	37.1	37.4	3.1	3.1	3.2	18.3	18.3	19.0
EOL	Vadinar (2006)	20.0	19.1	20.9	1.8	1.7	1.7	10.5	10.1	10.4
	All India	234.0	232.9	245.4	19.7	19.8	20.5	121.5	117.7	122.4

^{*} RIL target for 2017-18 is previous year crude processing. **Note:** Some sub-totals/ totals may not add up due to rounding off at individual levels.

9. Major crude oil and product pipeline network

		ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Other	Total	
Crude Oil	Length (KM)	1,191	1,193	660	1,017	5,301	937	-	-	10,299	
(as on 1.10.2017)	Cap (MMTPA)	58.5	8.4	8.7	9.0	48.6	6.0	-	-	139.2	
Products	Length (KM)	-	654	-	-	7,830	1,936	3,333	2,688	16,441	
(as on 1.10.2017)	Cap (MMTPA)	-	1.7	-	-	45.1	14.9	34.6	9.3	105.6	
Other includes GAIL and Petronet India.											

	10. Gross Ref	ining Margins (G	GRM) of refiner	ies (\$/bbl)	
Company	Refinery	2014-15	2015-16	2016-17	Apr-Jun'2017
	Barauni	-1.20	2.93	6.52	1.88
	Koyali	4.79	6.80	7.55	6.25
	Haldia	-1.51	3.96	6.80	1.79
	Mathura	-2.19	3.30	7.01	3.81
IOCL	Panipat	-1.97	4.15	7.95	2.75
1.002	Guwahati	8.68	15.88	22.14	19.61
	Digboi	13.73	16.17	24.49	25.82
	Bongaigaon	-0.26	11.09	20.15	12.80
	Paradip	-	-0.65	4.22	4.00
	Average	0.27	5.06	7.77	4.32
	Kochi	3.17	6.87	5.16	3.74
BPCL	Mumbai	3.97	6.37	5.36	6.08
	Average	3.62	6.59	5.03	4.88
	Mumbai	4.88	8.09	6.95	7.98
HPCL	Visakhapatnam	1.12	5.46	5.51	3.94
	Average	2.84	6.68	6.20	5.86
CPCL	Chennai	1.97	5.27	6.05	3.81
MRPL	Mangalore	-0.64	5.20	7.75	4.74
NRL	Numaligarh	16.67	23.68	28.56	29.62
BORL	Bina	6.10	11.70	11.80	8.90
RIL	Jamnagar	8.60	10.80	11.00	11.90
Essar	Vadinar	8.37	10.81	9.14	*
*Being unlisted	company, quarterty results	not declared.			

	11. GRM of Nor	th-East refineries	excluding excise	duty benefit (\$/k	obl)
Company	Refinery	2014-15	2015-16	2016-17	Apr-Jun'2017
	Guwahati	0.96	1.26	1.12	1.69
IOCL	Digboi	5.42	4.16	7.73	7.23
	Bongaigaon	-6.51	0.08	6.03	0.11
NRL	Numaligarh	9.46	8.06	8.50	7.51

12	. Product	ion and c	onsump	tion of pe	etroleum	product	s (Millio	n Metric	Tonnes)	
Products	April 2016-	March 2017 (P)	Septemb	oer 2016 ^(P)	Septemb	er 2017 ^(P)	April-Septe	mber 2016 ^(P)	April-Septe	mber 2017 ^(P)
Products	Prod ⁿ	Consump ⁿ	Prod ⁿ	Consump ⁿ	Prod ⁿ	Consump ⁿ	Prod ⁿ	Consump ⁿ	Prod ⁿ	Consump ⁿ
LPG	11.3	21.6	0.8	1.9	1.0	1.9	5.3	10.3	5.8	11.3
MS	36.5	23.8	2.8	1.8	3.1	2.1	17.9	11.9	18.5	13.0
NAPHTHA	19.8	13.2	1.8	1.1	1.7	1.2	9.5	6.8	9.8	5.9
ATF	13.8	7.0	1.1	0.6	1.2	0.6	6.7	3.4	6.9	3.7
SKO	6.0	5.4	0.5	0.5	0.4	0.3	3.4	3.1	2.2	2.0
HSD	102.1	76.0	7.9	5.2	8.9	6.1	50.2	37.3	52.3	39.6
LDO	0.6	0.4	0.04	0.04	0.04	0.04	0.2	0.2	0.2	0.2
LUBES	1.0	3.5	0.08	0.2	0.07	0.3	0.5	1.7	0.5	1.7
FO/LSHS	12.0	7.2	0.9	0.6	0.9	0.6	6.1	3.7	5.4	3.4
BITUMEN	5.2	5.9	0.3	0.3	0.2	0.3	2.4	2.6	2.3	2.4
PET COKE	12.9	24.0	1.1	2.0	1.1	2.1	6.2	13.0	6.8	11.7
OTHERS	22.3	6.6	2.0	0.6	2.3	0.7	11.6	3.3	12.0	3.7
ALL INDIA	243.5	194.6	19.2	14.8	20.8	16.3	120.1	97.2	122.7	98.7
Growth (%)	5.0%	5.4%	6.9%	-0.8%	8.1%	10.0%	7.3%	9.9%	2.1%	1.5%
Note: Prod ⁿ - F	roduction: C	Consump ⁿ - C	onsumptio	n	•	•	•	•	-	

		13.	LPG cons	umption	(Thousar	nd Metric	: Tonne)			
LPG catego	irv		2015-16	2016-17 ^(P)	S	eptember ^{(F}	?)	Apr	il-Septembe	er ^(P)
			2013 10	2010-17	2016	2017	Gr (%)	2016-17	2017-18	Gr (%)
1. PSU Sal						•	•			
	-Packed Dome		17,181.7	18,871.4	1,633.6	1,692.5	3.6	8,942.9	9,794.5	9.5
	-Packed Non-	Oomestic	1,464.4	1,775.9	158.8	173.3	9.1	830.7	975.7	17.5
LPG-	-Bulk		317.2	364.3	31.0	30.9	-0.3	177.8	188.3	5.9
	LPG		170.9	167.3	12.4	15.6	25.5	82.0	93.2	13.6
	-Total (PSU Sa		19134.2	21178.9	1835.8	1912.3	4.2	10033.3	11051.7	10.1
	Private Import	ts	489.0	358.4	32.6	32.6	-0.2	186.7	217.5	16.5
Total (1+2	2)		19,623.2					10,220.0	11,269.2	10.3
		14. K	(erosene	allocation			ilo Litres			
Product	2014	l-15	201	5-16	2016	-17 ^(P)	H1, 201	L 6-17 (P)	H1, 201	.7-18 ^(P)
Product	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
Kerosene	89,75,538	88,78,352	86,85,384	85,36,752	69,33,030	66,78,447	39,75,216	38,30,874	26,22,056	24,12,360
	15. ا	ndustry m	arketing i	nfrastruc	ture (as c	n 01.10	.2017) (P	rovisiona	al)	
Particulars			IOCL	BPCL	HPCL	RIL	ESSAR	SHELL	Others	Total
POL Termir	nal/ Depots (No :	s.)	129	83	81	18 ^{\$}	2		6 [*]	319
Aviation Fu	el Stations (Nos	5.)	105	50	38	28			1 [@]	222
Retail Outle	ets (total) (Nos.))	26,429	14,137	14,628	1,400	3,810	89	4^	60,497
Out of whice	ch, Rural ROs		7,201	2,542	3,142	127	1,295	11		14,318
SKO/LDO a	gencies (Nos.)		3,899	1,001	1,638					6,538
LPG Distribu	utors (total) (No	s.) (PSUs only)	9,808	4,783	4,632					19,223
Out of whice	ch, Durgam Kshe	etriya Vitrak	1,601	864	878					3,343
LPG Bottlin	g plants (Nos.)	(PSUs only)	91	50	47				1#	189
LPG Bottling	g capacity (TMTP	A) (PSUs only)	9,025	3,693	3,762				24 [~]	16,504
(Nos. crore	red domestic co) (PSUs only)		12.12	6.40	6.59					25.11
	domestic consu) (PSUs only)	mers	10.03	5.55	5.82					21.40

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

	16. ľ	Natural ga	is at a gla	ance				
			Se	ptember ^{(l}	P)	Δn	ril-Septemb	(MMSCM)
Details	2015-16	2016-17 ^(P)	2016	2017	2017	2016-17	2017-18	2017-18
			(Actual)	(Target)		(Actual)	(Target)	
(a) Gross production	32,249	31,897	2,600	2,884	2,723	15,724	17,353	16,413
- ONGC	21,177	22,088	1,842	1,976	1,938	10,684	11,860	11,675
- Oil India Limited (OIL)	2,838	2,937	243	256	246	1,474	1,530	1,481
- Private / Joint Ventures (JVs)	8,235	6,872	515	652	540	3,566	3,964	3,256
(b) Net production	24.420	20.040	2.502		2.652	45.400		45.056
(excluding flare gas and loss)	31,129	30,848	2,503		2,653	15,190		15,956
(c) LNG import	21,388	24,686	2,305		2,414	12,652		12,446
(d) Total consumption including internal consumption (Net production+Import) (b+c)	52,517	55,534	4,808		5,067	27,842		28,402
(e) Total consumption (in BCM)	52.5	55.5	4.8		5.1	27.8		28.4
(f) Import dependency based on consumption (%), {c/d*100}	40.7	44.5	47.9		47.7	45.4		43.8
Note: Some sub-totals/ totals may not add-up du								
17. Coal Be	ed Meth	ane (CBM) gas dev	velopme				
Prognosticated CBM resources					g)2	T	CF
Established CBM resources					9	.9	T	CF
Total available coal bearing areas						000		KM
Exploration initiated		<u> </u>				200	Sq.	KM
Blocks awarded					3	3	N	os.
Production of CBM gas		Septembe			63	.58	MM	SCM
Production of CBM gas-Cumulative		April-Septem	ıber 2017 ^(P)		333	3.42	MM	SCM

18. Gas pipel	ines under execution / co	onstruction	as on 01.0 9	.2017
Network/ Region	Entity	Length sanctioned (KM)	Design cap. (MMSCMD)	Pipeline size
Kochi-Kottanad-Bengaluru-Mangalore	GAIL (India) Ltd	1,063	16	24"/18"/12"
Dabhol - Bengaluru (DBPL)	GAIL (India) Ltd	315	16	36"/30"/24"/18"
Surat - Paradip	GAIL (India) Ltd	2,112	74.81	36"/24"/18"
Jagdishpur- Haldia-Bokaro-Dhamra	GAIL (India) Ltd	2,539	16	30"/24"/18"/12"/8"/4"
Mallavaram – Bhopal - Bhilwara	GSPC India Transco Ltd	2,042	78.25	42"/36"/30"/24"/18"/12"
Mehsana - Bathinda	GSPC India Gasnet Ltd	2,052	77.11	36"/24"/18"/12"
Bathinda - Jammu - Srinagar	GSPC India Gasnet Ltd	725	42.42	24"/18"/16"/12"/8"/6"
Kakinada - Vizag - Srikakulam	AP Gas Distribution Co.	391	90	24"/18"/8"/4"
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 PvtLtd.	635	17	24"
Total		13,509		

		19. Existing LNG terminals	
Location	Promoters	Capacity (MMTPA) as on 01.09.2017	Capacity utilisation in % (April-August 2017)
Dahej	Petronet LNG Ltd (PLL)	15 MMTPA	99.93
Hazira	Hazira LNG Pvt Ltd (HLPL)	5 MMTPA	52.95
Dabhol	RGPPL (GAIL - NTPC JV)	1.692 MMTPA in phase-1 without break water to be increased to 5 MMTPA	10.80
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	13.25
	Total Capacity	26.692 MMTPA	

			CNG	PN	G connection	ons	No. of CNG
State	Entity operating	Geographical region	stations	Domestic	Industrial	Commercial	vehicles
			As on 01.09.2017	As on 01.09.2017	As on 01.09.2017	As on 01.09.2017	As on 01.09.201
Haryana	Haryana City Gas, Adani Gas Limited, GAIL Gas Ltd.	Sonepat, Faridabad, Gurgaon	37	66,856	268	198	1,25,227
Andhra Pradesh	Bhagyanagar Gas Ltd	Kakinada, Vijayawada	12	5,122	1	41	23,980
Telangana	Bhagyanagar Gas Ltd	Hyderabad	27	3,937	5	6	16,208
Assam	Assam Gas Co. Ltd	Tinsukia, Dibrugarh, Sibsagar, Jorhat, Golaghat	0	30,661	404	1,029	0
Gujarat	Gujarat Gas Ltd, Adani Energy Ltd, Vadodara Gas Ltd, Hindustan Petroleum Corporation Ltd,	Gandhinagar, Mehsana, Sabarkantha, Nadiad, Halol, Hazira, Rajkot, Khambhat, Karjan-Palej, Valsad, Navsari, Surendernagar, Vadodara, Ahmedabad, Surat, Ankleshwar, Bharuch & surrounding areas, Bhavnagar, Jamnagar, Vapi, Anand	403	17,15,656	4,401	17,455	8,82,575
Madhya Pradesh	Aavantika Gas Ltd, GAIL Gas Ltd	Dewas, Vijaipur, Indore including Ujjain, Gwalior, Pithampura	26	18,898	108	82	26,290
Rajasthan	GAIL Gas Ltd	Kota	3	185	15	2	6,304

20	. Status of PNG	connections, CNG stat	ions and (CNG vehic	les across	India (Nos	.)
			CNG	PN	IG connection	ons	No. of CNG
State	Entity operating	Geographical region	stations	Domestic	Industrial	Commercial	vehicles
			As on 01.09.2017				
Maharashtra	Mahanagar Gas Ltd, Maharashtra Natural Gas Ltd, GAIL Gas Ltd ,	Mumbai, Greater Mumbai, Thane & adjoining contiguous areas including Mira Bhayender, Navi Mumbai, Thane City, Ambernath, Bhiwandi, Kalyan, Dombivily, Badlapur, Ulhasnagar, Panvel, Kharghar & Taloja, Pune City including Pimpri-Chinchwad and adjoining contiguous areas of Chakan, Hinjewadi, Talegaon GA & Thane Rural.	252	10,71,469	202	3,525	7,31,711
Tripura	Tripura Natural Gas Co. Ltd	Agartala	6	30,832	50	366	9,917
West Bengal	Great Eastern Energy Corporation Ltd	Kolkata	7	0	0	0	3,274
Uttar Pradesh	GAIL Gas Ltd, Sanwariya Gas, Green Gas, Central U.P. Gas, Siti Energy Ltd	Agra, Allahabad, Bareilly, Divyapur, Firozabad, Kanpur, Khurja, Lucknow, Mathura, Meerut & Moradabad	62	63,766	506	310	1,22,026

20. 9	Status of PNG connect	ions, CNG stati	ons and	CNG vehic	les across	India (Nos	s.)
		Geographical	CNG	PN	IG connection	ns	No. of CNG
State	Entity operating		stations	Domestic	Industrial	Commercial	vehicles
		region	As on 01.09.2017				
New Delhi	Indraprastha Gas Ltd	NCT of Delhi (Including Noida & Ghaziabad)	423	7,91,988	1,056	2,015	9,85,317
Karnataka	Gail Gas Ltd.	Bengaluru	3	3,536	12	25	232
Chandigarh	IndianOil- Adani Gas	Chandigarh	2	4,346	0	0	1,500
Kerala	IndianOil- Adani Gas	Ernakulam	0	691	0	2	0
Dadra & Nagar Haveli	Gujarat Gas Ltd.	Dadra & Nagar Haveli	0	153	0	0	0
Total			1,263	38,08,096	7,028	25,056	29,34,561

		21. M	ajor natural ga	as pipelin	e network	(
Nature o	of pipeline	GAIL	Reliance	GSPL	ARN	IOCL	ONGC	Total
Natural gas	Length (KM)	11,077	1,784	1,612	817	140	24	16,454
(as on 01.09.2017)	Cap (MMSCMD)	242*	83.5	43.0	3.2	9.5	6.0	387.3

^{*}GAIL's pipeline cap, 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 Domestic Natural Gas price in US\$/MMBTU Gas price ceiling in US\$/MMBTU Period (GCV basis) (GCV basis) November 2014 - March 2015 5.05 April 2015 - September 2015 4.66 October 2015 - March 2016 3.82 April 2016 - September 2016 3.06 6.61 October 2016 - March 2017 2.50 5.30 2.48 5.56 April 2017 - September 2017 October 2017 - March 2018 2.89 6.30

	23. Informa	tion on Pr	ices. Taxes
Internation	al prices/ Excha		-
Particulars	2015-16	2016-17	Apr-Sep' 17
Crude (Indian Basket)	46.17	47.16	50.35
Petrol	61.72	57.71	62.48
Diesel	55.02	56.12	61.85
Kerosene	55.71	56.46	60.56
LPG (\$/MT)	394.71	377.52	421.41
FO (\$/MT)	235.13	255.92	298.90
Naphtha (\$/MT)	420.14	412.09	435.52
Exchange (Rs./\$)	65.46	67.21	64.37
Customs & e	excise duty rates (w.e.f. 04.10.2	2017)
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	Nil	5.00%
Non-PDS SKO	5.00%	Nil	18.00%
Sub. Dom LPG	Nil	Nil	5.00%
Non Domestic LPG	5.00%	Nil	18.00%
Furnace Oil (Non-Fert)	5.00%	Nil	18.00%
Naphtha (Non-Fert)	5.00%	Nil	18.00%
ATF	Nil	14% *	**
	Nil+Rs.50/ -MT as		**
Crude Oil	NCCD	20%+Rs.50 /-MT NCCD	**

^{*8%} for scheduled commuter airlines from regional connectivity scheme airports; ** Crude oil, Petrol, Diesel, ATF and Natural Gas are outside GST regime.

Price buildup of petroleum products (Rs./litre/Cylinder)							
Particulars	Petrol*	Diesel*					
Price before taxes and dealer commission	30.18	30.10					
Central taxes	20.04	15.91					
State taxes	14.52	8.41					
Dealer commission	3.55	2.49					
Retail selling price (RSP)	68.29	56.91					

Particulars	PDS SKO*	Sub. Dom LPG*	
Price before taxes and dealer	19.66	568.95	
commission	19.00	308.93	
GST(incl GST on dealer commission)	1.07	30.90	
Dealer commission	1.80	49.12	
Retail Selling Price	22.53	649.00	
Less cash compensation (CC) under DBTL	142.66		
CC by OMCs towards uncompensated cost	15.21		
Effective cost to consumer after subsidy	491.13		

^{*} SKO at Mumbai and Subsidized Dom LPG at Delhi are as on 1st October 2017; Petrol and Diesel at Delhi as on 16th October 2017, RSP of Subsidized Dom LPG is

Change in Ex. Rate/ Crude price: Impact on under-recoveries/subsidy on PDS SKO and Sub.Dom LPG

(Rs. Crores)	Rs.1/\$ Ex. Rate	\$1/bbl Crude	
Impact on under-recovery/subsidy	1,080	1,270	

Note: The above calculation for SKO & LPG are based on RTP for October 2017 (Crude Price \$53.94/bbl & Ex. Rate Rs. 64.29/USD for the pricing cycle)

	23. Inforn	nation on	Prices, Tax	es and Ur	nder-recove	eries	/Subsidie	es
Under-recover	ries/subsidy	/ & burden	sharing	Sale	s & profit of	petr	oleum se	ctor
Product	2015-16	2016-17	Apr-Jun'2017	April	2017-June 201	7	Turnover	
Per unit under-red	e/Cylinder)	Upstream	Companies (PS	U)	32,	540		
Diesel	Deregulated	Deregulated	Deregulated	Downstrea	m Companies	(PSU)	250	,679
PDS SKO	13.47	11.39	10.18	Standalone	e Refineries (PS	SU)	23,	030
Sub. Dom LPG	150.82*	108.78*	181.85*	Private-RIL	-		70,	434
Total under-recover	ies including	DBTL Subsidy	(Rs. Crores)		Borrowin	gs of	OMCs (R	s. Cı
Diesel	Deregulated	Deregulated	Deregulated	Company	As on Mar`16	As	on Mar`17	
PDS SKO	11,496	7,595	1,280	IOCL	52,469	54,820		
DBTL Sub. Dom LPG#	16,074	12,133	5,039	BPCL	15,976		23,159	
Total	27,570		6,319	HPCL	21,337		21,250	
Burde	n sharing (l	Rs. Crores)		Petrole	im sector co	ontril	oution to	Cen
Particulars	2015-16	2016-17	Apr-Jun'2017		Particulars		2015-16	20:
Government	26,301	19,728	6,319	Central G	overnment		2,58,443	3,3
Upstream	1,251	0	0	% to tota	revenue rece	eipt	21%	2
OMCs	18	0	0	State Gov	State Governments		1,60,209	1,8
Fiscal subsidy ur	nder Govt.	schemes (R	chemes (Rs. Crores) % to total revenue receipt 8%					8
PDS SKO	Calcara		24 2 2045	Total (Rs. Crores) 4,18,652				5,2
Sub. Dom LPG Scheme was extended till 31.3.2015 Subsidy as a % of GDP (at							GDP (at ci	urre
*Average of DBTL and under-recovery towards non-DBTL; #Includes				Par	ticulars	2	014-15	20:
subsidy under DBTL (201	5-16: Rs.16,056	Cr).	Petroleum	subsidy		0.62	0	

s and onder-recoveries/substitles							
Sales & profit of petroleum sector (Rs. Crores)							
April 2017-June 2017		Turn	over	PAT			
Upstream (Companies (PS	U)	32,	540	5,361		
Downstrea	m Companies	(PSU)	250,	,679	6,218		
Standalone	Refineries (PS	U)	23,	030	639		
Private-RIL			70,	434	8,196		
	Borrowin	gs of	OMCs (R	s. Crores)			
Company	As on Mar`16	As o	on Mar`17	As on	June`17		
IOCL	52,469	Į,	54,820	34	,922		
BPCL	15,976	2	23,159	17	17,917		
HPCL	21,337		21,250		,208		
Petroleu	ım sector co	ntrik	oution to	Central/S	tate Govt.		
F	Particulars		2015-16	2016-17	Apr-Jun'2017		
Central G	overnment		2,58,443	3,34,534	63,458		
% to total	revenue rece	eipt	21%	24%	-		
State Gov	ernments		1,60,209	1,89,770	51,050		
% to total	revenue rece	eipt	8%	8%	-		
Total (Rs.			4,18,652	5,24,304	1,14,508		
Sı	ubsidy as a 🤋	% of (GDP (at cu	ırrent pri	ces)		
Part	Particulars 2			2015-16	2016-17		
Petroleum subsidy			0.62	0.25	0.18		
Note - GDP figure for 2014-15 and 2015-16 at RE and 2016-17 at PE							

24. Capital expenditure of PSU oil companies

(Rs in crores)

6	2042.44	2014 45	(P)	(P)	2017-18	
Company	2013-14	2014-15	2015-16 ^(P)	2016-17 ^(P)	Target*	Apr-Sep (P)
ONGC Ltd	32,470	29,997	29,502	28,010	29,968	19,586
ONGC Videsh Ltd (OVL)	35,357	7,172	6,783	18,360	7,088	2,742
Oil India Ltd (OIL)	9,351	3,774	3,550	10,514	9,252	1,608
GAIL (India) Ltd **	4,070	1,632	1,880	2,180	2,053	1,209
Indian Oil Corp. Ltd. (IOCL)	16,661	14,314	14,368	21,918	20,162	7,548
Hindustan Petroleum Corp. Ltd (HPCL)	2,642	2,670	5,459	5,861	7,110	2,257
Bharat Petroleum Corp. Ltd (BPCL)	4,374	6,875	10,926	16,810	7,101	2,787
Mangalore Refinery & Petrochem Ltd (MRPL)	1,449	2,747	1,550	614	1,138	252
Chennai Petroleum Corp. Ltd (CPCL)	229	466	1,318	1,293	845	362
Numaligarh Refinery Ltd (NRL)	372	103	237	500	1,261	160
Balmer Lawrie Co. Ltd (BL)	120	80	38	73	50	61
TOTAL	1,07,095	69,830	75,611	106,133	86,028	38,572

^{*} Targets are for full financial year 2017-18 (both Plan and Non-Plan).

^{**} Excludes Rs 1200 crores Gross Budgetary Support for Phulpur-Dhamra-Haldia pipeline project.

25. Conversion factors and volume conversion						
Weight to vo	lume conv	ersion			Volume	
Product	Weight (MT)	Volume (KL)	Barrel (bbl)		From	
LPG	1	1.844	11.60]	1 US Barrel (bbl)	
Petrol (MS)	1	1.411	8.50]	1 US Barrel (bbl)	
Diesel (HSD)	1	1.210	7.45]	1 US Gallon	
Kerosene (SKO)	1	1.285	7.90		1 Kilo litre (KL)	
ATF	1	1.288	8.10		1 Million barrels per d	
Light Diesel Oil (LDO)	1	1.172	7.37		Energy	
Furnace Oil (FO)	1	1.071	6.74]	1 Kilocalorie (kcal)	
Crude Oil	1	1.170	7.33]	1 Kilocalorie (kcal)	
Exclusive Economic Zone					1 Kilowatt-hour (kWh)	
200 Nautical Miles	370	.4 Kilome	ters		1 Kilowatt-hour (kWh)	

Volume conversion							
From	То						
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 con	version						
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				