Ready Reckoner

Snapshot of India's Oil & Gas data

December, 2016

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

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Highlights for the month

•	Indigenous crude oil production during December, 2016 was lower by 0.8% than that of December, 2015. On cumulative basis, it was lower by 3.2% than that of April-December, 2015. There was a reduction of crude oil production by 0.3 MMT in BH, 0.3 MMT in Mangla and 0.2 MMT in Ravva fields.
•	Total crude oil processed during December, 2016 was 21.4 MMT, an increase of 6.4% over December, 2015. This is the highest crude oil processing during any month till date. On cumulative basis, it was 183.9 MMT, an increase of 7.8% over the period April-December, 2015. Increase of 13.3 MMT on cumulative basis was mainly due to Paradip refinery processing 5.2 MMT, increase of 2.0 MMT in processing by Essar oil Limited and 1.0 MMT each by BPCL-Mumbai, MRPL and CPCL-Manali refineries.
•	Production of petroleum products during December, 2016 saw a growth of 5.6% over December, 2015. Production during December 2016 was the highest during the year 2016-17 and the second highest production during any month till date. On cumulative basis a growth of 6.8% was recorded in production over the period April-December, 2015.
•	Imports increased by 39.6% during December, 2016 over the corresponding period of 2015 due to increase in domestic consumption of LPG (7.9%) and petcoke (28.8%). LPG, Lubes and Pet-coke imports contributed to 79.9 % share of total POL imports during December, 2016. Export of POL products increased by 8.8% during December, 2016 as compared to December, 2015 primarily due to increase in production of ATF (23.6%) and HSD (6.5%) coupled with low demand materialization of HSD during December, 2016.

•	Petroleum product consumption registered a growth of 4.3% during December, 2016 as compared to 8.3% growth during December, 2015. Except for SKO, Naphtha and Bitumen, all other products registered positive growth during December, 2016. During the period April-December 2016, petroleum product consumption registered a growth of 8.8% as compared to the same period last year.
•	Gross production of natural gas for the month of December, 2016 was 2,737 MMSCM which was same as compared with the corresponding month of the previous year. However, the cumulative gross production of natural gas 23,885 MMSCM for the current year till December, 2016 was lower by 3.4 % compared with the corresponding period of the previous year.
•	LNG import for the month of December, 2016 was 1,903 MMSCM which was 2.9 % lower than the corresponding month of the previous year. The cumulative import of 18,755 MMSCM for the current year till December, 2016 was higher by 19.9% compared with the corresponding period of the previous year.
•	The prices of Brent crude averaged $53.60/bbl during December, 2016 as against $45.13/bbl during November, 2016. The Indian basket crude averaged $52.74/bbl during December, 2016 as against $44.46/bbl during the previous month.
•	The import bill of crude oil is estimated to increase by 12.4% from $ 64 billion in 2015-16 to $72 billion in 2016-17 considering Indian basket crude oil price of $ 55/bbl and $/Rs 67 for the balance part of the financial year.

1. Selected indicators of the Indian economy

	Economic indicators	Unit/Base	2012-13	2013-14	2014-15	2015-16 (P)
1	Population (as on 1st March, 2011)	Billion	1.2	-	-	-
2	GDP at Factor Cost (Constant prices)	Growth %	5.6 2nd RE (NS)	6.6 2nd RE (NS)	7.2 1st RE (NS)	7.6 (PE)
3	Agricultural Production (Food grains)	MMT	257.1	265.0	252.0	252.2 4th AE
		Growth %	-0.8	3.1	-4.9	0.1
4	Gross Fiscal Deficit	%	-4.9	-4.5	-4.1	-3.9 (RE)

	Economic indicators	Unit/ Base	2014-15	2015-16 (P)	December		April-December	
					2015	2016 (P)	2015	2016 (P)
5	Index of Industrial Production@	Growth %	2.8	2.4	-3.4	5.7	3.8	0.4
6	Imports	$ Billion	448.0	381.0	34.1	34.3	297.4	275.4
7	Exports	$ Billion	310.3	262.3	22.6	23.9	197.3	198.8
8	Trade Balance	$ Billion	-137.7	-118.7	-11.5	-10.4	-100.1	-76.5
9	Foreign Exchange Reserves	$ Billion	341.4	355.6	252.0	360.3	-	-

@IIP is for the month of November 2016; NS-New Series; AE-Advanced Estimates; RE-Revised Estimates; PE- Provisional Estimates;
*As on December 25, 2015; ^As on December 30, 2016.

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

Details		Unit/ Base	2014-15	2015-16	December		April-December	
					2015	2016 (P)	2015	2016 (P)
1	Crude oil production in India	MMT	37.5	36.9	3.1	3.1	27.9	27.0
2	Consumption of petroleum products	MMT	165.5	184.7	15.8	16.5	134.6	146.4
3	Production of petroleum products	MMT	220.7	231.2	20.0	21.1	169.9	181.5
4	Imports & exports:							
Crude oil imports		MMT	189.4	202.9	16.6	17.9	149.3	161.7
		$ Billion	112.7	64.0	4.8	6.3	52.7	50.6
Petroleum products (POL) imports		MMT	21.3	29.5	2.1	3.1	21.2	27.8
		$ Billion	12.1	10.0	0.7	0.9	8.0	7.5
Gross petroleum imports (Crude + POL)		MMT	210.7	232.3	18.8	20.9	170.5	189.4
		$ Billion	124.9	73.9	5.5	7.2	60.7	58.1
Petroleum products exports		MMT	63.9	60.5	5.3	5.3	43.8	49.1
		$ Billion	47.3	27.1	2.3	2.5	21.4	21.1
LNG imports		$ Billion	9.2	6.7	0.6	0.5	5.0	3.8
5	Petroleum imports as % of India's gross imports (in value)	%	27.9	19.4	16.1	21.0	20.4	21.1
6	Petroleum exports as % of India's gross exports (in value)	%	15.2	10.3	10.1	10.7	10.9	10.6
7	Import dependency of crude (on consumption)	%	78.5%	80.9%	82.1%	82.0%	80.3%	82.3%

3. Indigenous crude oil production (Million Metric Tonne)								
Details	2014-15	2015-16	December			April-December		
			2015	2016 (Target)*	2016 (P)	2015	2016 (Target)*	2016 (P)
ONGC	18.6	18.5	1.6	1.9	1.6	14.0	16.9	13.7
Oil India Limited (OIL)	3.4	3.2	0.3	0.3	0.3	2.5	2.5	2.4
Private / Joint Ventures (JVs)	11.7	11.3	0.9	0.9	0.9	8.6	8.2	8.0
Total Crude Oil	**33.8**	**33.1**	**2.7**	**3.2**	**2.7**	**25.0**	**27.6**	**24.1**
Condensate	3.7	3.8	0.3		0.4	2.9		2.9
Total (Crude + Condensate) (MMT)	**37.5**	**36.9**	**3.1**	**3.2**	**3.1**	**27.9**	**27.6**	**27.0**
Total (Crude + Condensate) (Million Bbl)	**274.7**	**270.8**	**22.6**	**23.1**	**22.4**	**204.9**	**202.1**	**198.2**

*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 (P)	December		April-December	
			2015	2016 (P)	2015	2016 (P)
Total domestic production (MMTOE)	71.1	69.2	5.8	5.8	52.6	50.9
Overseas production (MMTOE)	9.6	9.7	0.8	1.5	7.3	10.0
Overseas production as % of domestic production	**13.5%**	**14.0%**	**14.6%**	**26.4%**	**13.8%**	**19.7%**

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

5. High Sulphur (HS) & Low Sulphur (LS) crude oil processing (MMT)							
Details		2014-15	2015-16 (P)	December		April-December	
				2015	2016 (P)	2015	2016 (P)
1	High Sulphur crude	161.4	166.1	14.6	15.8	121.8	133.6
2	Low Sulphur crude	61.9	66.7	5.5	5.6	48.8	50.3
Total crude processed		**223.3**	**232.9**	**20.2**	**21.4**	**170.6**	**183.9**
Share of HS crude in total crude oil processing		**72.3%**	**71.3%**	**72.6%**	**73.8%**	**71.4%**	**72.6%**

6. Quantity and value of crude oil imports			
Year	**Quantity (MMT)**	**$ Million**	**Rs. Crore**
2015-16 (Actuals)	202.85	63,972	4,16,579
2016-17 (Estimated)	215.60	71,908	4,82,408

Note:: April-December 2016 imports are based on actuals and for January 2017 to March 2017, the imports are estimated at $55/bbl and Rs.67/$.

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

If crude prices increase by one $/bbl - Net Import bill increases by Rs.2,663 crores ($ 0.40 bn)

If exchange rate of $ increases by Rs. 1/$ - Net Import bill increases by Rs. 2,186 crores ($ 0.32 bn)

7. Self-sufficiency in petroleum products (Million Metric Tonnes)							
Details		**2014-15**	**2015-16 (P)**	**December**		**April-December**	
				2015	**2016 (P)**	**2015**	**2016 (P)**
1	Indigenous crude oil processing :	34.2	34.1	2.7	2.9	25.7	25.0
a)	Products from indigenous crude (93.3% of crude oil processed)	32.0	31.8	2.6	2.7	24.0	23.3
b)	Products from fractionators (Including LPG and Gas)	3.7	3.4	0.3	0.3	2.6	2.6
2	Total production from indigenous crude & condensate **(a + b)**	35.6	35.2	2.8	3.0	26.6	25.9
3	Total domestic consumption	165.5	184.7	15.8	16.5	134.6	146.4
% Self-sufficiency (2 / 3)		**21.5%**	**19.1%**	**17.9%**	**18.0%**	**19.7%**	**17.7%**

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

Com-pany	Refinery	Installed capacity (1.4.2016)	2014-15	2015-16	Crude oil processing					
					December			April-December		
					2015 (Actual)	2016 (Target)	2016 (P)	2015 (Actual)	2016 (Target)	2016 (P)
IOCL	Barauni (1964)	6.0	5.9	6.5	0.6	0.5	0.6	4.9	4.7	4.9
	Koyali (1965)	13.7	13.3	13.8	1.2	0.9	1.1	10.2	10.2	10.7
	Haldia (1975)	7.5	7.7	7.8	0.7	0.7	0.5	5.8	5.9	5.8
	Mathura (1982)	8.0	8.5	8.9	0.8	0.7	0.8	6.5	6.6	6.9
	Panipat (1998)	15.0	14.2	15.3	1.3	1.3	1.3	11.3	11.4	11.7
	Guwahati (1962)	1.0	1.0	0.9	0.07	0.08	0.07	0.7	0.7	0.7
	Digboi (1901)	0.7	0.6	0.6	0.04	0.06	0.05	0.4	0.5	0.4
	Bongaigaon(1979)	2.4	2.4	2.4	0.2	0.2	0.2	1.8	1.8	1.9
	Paradip (2016)	15.0	-	1.8	-	1.1	1.0	-	6.8	5.2
	IOCL TOTAL	**69.2**	**53.6**	**58.0**	**4.9**	**5.6**	**5.7**	**41.7**	**48.5**	**48.1**
CPCL	Manali (1969)	10.5	10.2	9.1	0.5	0.9	0.7	6.5	7.8	7.8
	CBR (1993)	1.0	0.5	0.5	0.02	0.05	0.04	0.4	0.5	0.4
	CPCL-TOTAL	**11.5**	**10.8**	**9.6**	**0.5**	**0.9**	**0.7**	**6.8**	**8.3**	**8.2**
BPCL	Mumbai (1955)	12.0	12.8	13.4	1.1	1.2	1.3	9.9	10.6	10.8
	Kochi (1966)	9.5	10.4	10.7	0.9	0.7	1.0	8.0	8.0	8.5
BORL	Bina (2011)	6.0	6.2	6.4	0.5	0.5	0.6	4.7	4.4	4.7
NRL	Numaligarh (1999)	3.0	2.8	2.5	0.2	0.3	0.3	1.8	2.0	2.0
	BPCL-TOTAL	**30.5**	**32.2**	**33.0**	**2.8**	**2.7**	**3.2**	**24.4**	**25.1**	**26.0**

Com-pany	Refinery	Installed capacity (1.4.2016)	2014-15	2015-16	Crude oil processing					
					December			April-December		
					2015 (Actual)	2016 (Target)	2016 (P)	2015 (Actual)	2016 (Target)	2016 (P)
ONGC	Tatipaka (2001)	0.1	0.1	0.1	0.007	0.004	0.007	0.05	0.03	0.06
MRPL	Mangalore (1996)	15.0	14.6	15.5	1.5	1.5	1.5	11.1	11.3	11.9
	ONGC TOTAL	**15.1**	**14.7**	**15.6**	**1.5**	**1.5**	**1.5**	**11.2**	**11.3**	**12.0**
HPCL	Mumbai (1954)	6.5	7.4	8.0	0.7	0.7	0.8	5.8	6.1	6.3
	Visakh (1957)	8.3	8.8	9.2	0.8	0.8	0.9	6.7	6.7	6.9
HMEL	Bathinda (2012)	9.0	7.3	10.7	0.9	0.8	0.9	8.3	7.1	8.0
	HPCL- TOTAL	**23.8**	**23.5**	**27.9**	**2.5**	**2.3**	**2.6**	**20.8**	**19.8**	**21.2**
RIL*	Jamnagar (DTA) (1999)	33.0	30.9	32.4	2.8	2.8	2.8	24.2	24.2	24.8
	Jamnagar (SEZ) (2008)	27.0	37.2	37.1	3.2	3.2	3.2	27.6	27.6	27.9
EOL	Vadinar (2006)	20.0	20.5	19.1	1.8	1.7	1.8	13.9	15.3	15.8
	All India	**230.1**	**223.3**	**232.9**	**20.2**	**20.8**	**21.4**	**170.6**	**180.0**	**183.9**

* RIL target for 2016-17 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)	1,180	1,193	670	1,017	4,867	937		-	**9,864**
(as on 1.4.2016)	Cap (MMTPA)	57.1	8.4	8.7	9.0	40.4	6.0	-	-	**129.6**
Products	Length (KM)	-	654	-	-	6,739	1,935	2,957	2,687	**14,972**
(as on 1.4.2016)	Cap (MMTPA)	-	1.7	-	-	40.2	14.9	31.6	9.3	**97.7**

Other includes GAIL and Petronet India.

10. Gross Refining Margins (GRM) of refineries ($/bbl)					
Company	**Refinery**	**2013-14**	**2014-15**	**2015-16**	**Apr-Sep`16**
IOCL	Barauni	6.68	-1.20	2.93	6.17
	Koyali	4.52	4.79	6.80	7.22
	Haldia	2.84	-1.51	3.96	6.94
	Mathura	2.10	-2.19	3.30	6.11
	Panipat	3.62	-1.97	4.15	7.33
	Guwahati	6.38	8.68	15.88	22.44
	Digboi	15.41	13.73	16.17	22.74
	Bongaigaon	6.71	-0.26	11.09	18.12
	Paradip	-	-	-0.65	1.43
	Average	**4.24**	**0.27**	**5.06**	**7.19**
BPCL	Kochi	4.80	3.17	6.87	4.50
	Mumbai	3.95	3.97	6.37	4.61
	Average	**4.33**	**3.62**	**6.59**	**4.56**
HPCL	Mumbai	5.38	4.88	8.09	5.89
	Visakhapatnam	1.50	1.12	5.46	4.40
	Average	**3.43**	**2.84**	**6.68**	**5.12**
CPCL	Chennai	4.08	1.97	5.27	5.59
MRPL	Mangalore	2.67	-0.64	5.20	7.26
NRL	Numaligarh	12.09	16.67	23.68	28.24
BORL	Bina	7.70	6.10	11.70	11.50
RIL	Jamnagar	8.10	8.60	10.80	10.80
Essar	Vadinar	7.98	8.37	10.81	*

*Being unlisted company, quarterly results not declared.

11. GRM of North-East refineries excluding excise duty benefit ($/bbl)					
Company	**Refinery**	**2013-14**	**2014-15**	**2015-16**	**Apr-Sep'16**
IOCL	Guwahati	0.88	0.96	1.26	1.15
	Digboi	8.50	5.42	4.16	6.84
	Bongaigaon	2.34	-6.51	0.08	5.17
NRL	Numaligarh	6.98	9.46	8.06	8.40

12. Production and consumption of petroleum products (Million Metric Tonnes)										
Products	**April-March 2016**		**December 2015**		**December 2016 (P)**		**April-December 2015**		**April-December 2016 (P)**	
	Prod^n	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**
LPG	10.6	19.6	0.9	1.8	1.1	1.9	7.6	14.3	8.3	15.9
MS	35.3	21.8	3.1	1.8	3.0	2.0	26.0	16.1	27.1	18.0
NAPHTHA	17.9	13.3	1.6	1.1	1.7	1.1	13.1	9.9	14.7	10.1
ATF	11.8	6.3	1.0	0.5	1.2	0.6	8.2	4.6	10.3	5.1
SKO	7.5	6.8	0.6	0.6	0.4	0.4	5.6	5.1	4.6	4.2
HSD	98.6	74.6	8.6	6.5	9.1	6.5	72.8	55.2	76.6	57.2
LDO	0.4	0.4	0.04	0.04	0.07	0.04	0.3	0.3	0.4	0.3
LUBES	1.0	3.6	0.08	0.3	0.08	0.3	0.8	2.5	0.8	2.5
FO/LSHS	10.7	6.6	0.8	0.5	1.3	0.6	8.3	4.7	9.5	5.5
BITUMEN	5.2	5.9	0.5	0.6	0.4	0.6	3.5	4.0	3.7	4.1
OTHERS	32.2	25.6	2.7	2.1	2.7	2.5	23.8	17.9	25.6	23.4
ALL INDIA	**231.2**	**184.7**	**20.0**	**15.8**	**21.1**	**16.5**	**169.9**	**134.6**	**181.5**	**146.4**
Growth (%)	**4.8%**	**11.6%**	**2.4%**	**8.3%**	**5.6%**	**4.3%**	**2.9%**	**9.8%**	**6.8%**	**8.8%**
Note: Prod^n - Production; Consump^n - Consumption										

13. LPG consumption (Thousand Metric Tonne)

LPG category	2014-15	2015-16	December			April-December		
			2015	2016(P)	Gr (%)	2015	2016(P)	Gr (%)
1. PSU Sales :								
LPG-Packed Domestic	16,040.4	17,181.7	1568.0	1696.4	8.2	12559.2	13900.1	10.7
LPG-Packed Non-Domestic	1,051.0	1,464.4	142.2	159.5	12.1	1058.1	1304.5	23.3
LPG-Bulk	315.7	317.2	24.5	30.4	23.8	240.5	269.7	12.2
Auto LPG	163.8	170.9	14.2	14.4	1.8	127.5	124.5	-2.4
Sub-Total (PSU Sales)	**17,570.9**	**19,134.2**	**1,748.9**	**1,900.7**	**8.7**	**13,985.2**	**15,598.8**	**11.5**
2. Direct Private Imports	429.2	489.0	46.9	37.5	**-20.2**	333.5	290.6	**-12.9**
Total (1+2)	**18,000.1**	**19,623.2**	**1,795.9**	**1,938.1**	**7.9**	**14,318.8**	**15,889.4**	**11.0**

14. Kerosene allocation vs upliftment (Kilo Litres)

Product	2014-15		2015-16		2016-17 (Apr-Dec'16) (P)	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
Kerosene	8975538	8878352	8685384	8536757	5472586	5262678

15. Industry marketing infrastructure (as on 1.10.2016) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL	ESSAR	SHELL	Others	Total
POL Terminal/ Depots **(Nos.)**	129	84	86	18$		2	4*	323
Aviation Fuel Stations **(Nos.)**	102	42	37	27			1@	209
Retail Outlets (total) **(Nos.)**	25,627	13,619	13,978	1,400	2,682	83	4^	57,393
LPG Distributors (total) **(Nos.) (PSUs only)**	9,289	4,560	4,365					18,214
SKO/LDO agencies **(Nos.)**	3,905	1,001	1,638					6,544
LPG Bottling plants **(Nos.) (PSUs only)**	91	51	46					188
LPG Bottling capacity **(TMTPA) (PSUs only)**	8,365	3,585	3,552					15,502
Rural ROs **(Nos.)**	6,811	2,401	2,891	127	840	10		13,080
RGGLVY **(Nos.)**	2,810	1,404	1,366					5,580
LPG registered domestic consumers (Nos. crore) (PSUs only)	10.53	5.44	5.59					21.56

*** 4 MRPL ; @ 1 AFS -Shell MRPL ; ^ 4-MRPL; $RIL= 5 Terminal and 13 Mini Depot**

16. Natural gas at a glance

(MMSCM)

Details	2014-15	2015-16 (P)	December 2015 (P)	December 2016 (Target)	December 2016 (P)	April-December 2015 (P)	April-December 2016 (Target)	April-December 2016 (P)
(a) Gross production	33,657	32,249	2,737	3,030	2,737	24,697	25,152	23,885
- ONGC	22,023	21,177	1,819	2,041	1,927	16,272	16,724	16,420
- Oil India Limited (OIL)	2,722	2,838	266	247	246	2,120	2,261	2,212
- Private / Joint Ventures (JVs)	8,912	8,235	652	743	564	6,305	6,168	5,254
(b) Net production	32,693	31,138	2,648		2,643	23,836		23,087
(c) LNG import	18,536	21,309	1,960		1,903	15,637		18,755
(d) Total consumption including internal consumption (Net production+Import) (b+c)	51,229	52,448	4,608		4,546	39,472		41,842
(e) Total consumption (in BCM)	51.23	52.45	4.61		4.55	39.47		41.84
(f) Import dependency based on consumption {c/d*100}	36.18	40.63	42.53		41.86	39.61		44.82

17. Coal Bed Methane (CBM) gas development in India

Prognosticated CBM resources		92	TCF
Established CBM resources		9.9	TCF
Total available coal bearing areas		26,000	Sq. KM
Exploration initiated		17,200	Sq. KM
Blocks awarded		33	Nos.
Production of CBM gas	December, 2016	53.135	MMSCM
Production of CBM gas-Cumulative	April-December, 2016	420.646	MMSCM

18. Gas pipelines under execution / construction as on 30.9.2016				
Network/ Region	**Entity**	**Length (KM)**	**Design Cap. (MMSCMD)**	**Pipeline Size**
Kochi-Kottanad-Bengaluru-Mangalore	GAIL (India) Ltd	1,063	16	24"/18"/12"
Dabhol - Bengaluru (DBPL)	GAIL (India) Ltd	315	16	36"/30"/24"/18"
Surat - Paradip	GAIL (India) Ltd	2,112	74.81	36"/24"/18"
Jagdishpur- Haldia-Bokaro Dhamra	GAIL (India) Ltd	2,539	16	30"/24"/18"/12"/8"/4"
Mallavaram – Bhopal - Bhilwara	GSPC India Transco Ltd	2,042	78.25	42"/36"/30"/24"/18"/12"
Mehsana - Bathinda	GSPC India Gasnet Ltd	2,052	77.11	36"/24"/18"/12"
Bathinda - Jammu - Srinagar	GSPC India Gasnet Ltd	725	42.42	24"/18"/16"/12"/8"/6"
Kakinada - Vizag - Srikakulam	AP Gas Distribution Co.	391	90	24"/18"/8"/4"
Shahdol - Phulpur	Reliance Gas Pipelines Ltd	312	3.5	16"
Ennore - Nellore	Gas Transmission India Pvt. Ltd	250	36	24"/18"
Ennore-Thiruvallur-Bengaluru-Puducherry-Nagapattinam-Madurai-Tuticorin	Indian Oil Corporation Limited	1,385	84.67	28"/24"/16"/12" /10"
Jaigarh-Mangalore	H-Energy Pvt..Ltd.	635	17	24"
Total		**13,821**		

19. Existing LNG terminals as on 01.10.2016			
Existing	**Promoters**	**Capacity (MMTPA)**	**Capacity Utilisation in %**
Dahej	Petronet LNG Ltd (PLL)	10 MMTPA up to July, 2016 increased to 15 MMTPA from August, 2016	Apr -July, 2016- 125.00 Aug-Sep, 2016 - 98.00
Hazira	Hazira LNG Pvt Ltd (HLPL)	5 MMTPA	83.6
Dabhol	RGPPL (GAIL - NTPC JV)	1.692 MMTPA in phase-1 without break water to be increased to 5 MMTPA	40.4
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	5.0
Total Capacity		**26.692 MMTPA**	

20. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.)							
State	Entity operating	Geographical region	CNG stations	PNG connections			No. of CNG vehicles
				Domestic	Industrial	Commercial	
			As on 1.12.2016	As on 1.12.2016	As on 1.12.2016	As on 1.12.2016	As on 1.10.2016
Haryana	Haryana City Gas, Adani Gas Limited, GAIL Gas Ltd.	Sonepat, Faridabad, Gurgaon	29	38,540	225	143	1,28,197
Andhra Pradesh	Bhagyanagar Gas Ltd	Kakinada, Vijayawada	12	3,443	0	41	15,606
Telangana	Bhagyanagar Gas Ltd	Hyderabad	23	2,180	5	5	23,448
Assam	Assam Gas Co. Ltd	Tinsukia, Dibrugarh, Sibsagar, Jorhat, Golaghat	0	29,563	392	979	0
Gujarat	Sabarmati Gas Ltd, Gujarat Gas Ltd, Adani Energy Ltd , Vadodara Gas Ltd, Hindustan Petroleum Corporation Ltd, Charotar Gas Sahakari Mandal Ltd	Gandhinagar, Mehsana, Sabarkantha, Nadiad, Halol, Hazira, Rajkot, Khambhat, Karjan-Palej, Valsad, Navsari, Surendernagar, Vadodara, Ahmedabad, Surat, Ankleshwar, Bharuch & surrounding areas, Bhavnagar, Jamnagar, Vapi, Anand	373	15,89,502	4,070	15,455	9,84,684
Madhya Pradesh	Aavantika Gas Ltd, GAIL Gas Ltd	Dewas, Vijaipur, Indore including Ujjain, Gwalior, Pithampura	23	9,429	84	47	22,352
Rajasthan	GAIL Gas Ltd	Kota	3	187	16	1	4,872

20. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.)							
State	**Entity operating**	**Geographical region**	**CNG stations**	**PNG connections**			**No. of CNG vehicles**
				Domestic	**Industrial**	**Commercial**	
			As on 1.12.2016	**As on 1.12.2016**	**As on 1.12.2016**	**As on 1.12.2016**	**As on 1.10.2016**
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	236	9,52,192	179	3,238	6,18,718
Tripura	Tripura Natural Gas Co. Ltd	Agartala	5	26,179	49	346	8,590
West Bengal	Great Eastern Energy Corporation Ltd	Kolkata	7	0	0	0	2,882
Uttar Pradesh	GAIL Gas Ltd, Sanwariya Gas, Green Gas, Central U.P. Gas, Siti Energy Ltd	Meerut, Mathura, Agra, Kanpur, Bareilly, Lucknow, Moradabad, Ferozabad, Khurja, Divyapur	48	41,396	479	251	1,11,981

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

State	Entity operating	Geographical region	CNG stations	PNG connections			No. of CNG vehicles
				Domestic	Industrial	Commercial	
			As on 1.12.2016	As on 1.12.2016	As on 1.12.2016	As on 1.12.2016	As on 1.10.2016
New Delhi	Indraprastha Gas Ltd	NCT of Delhi (Including Noida & Ghaziabad)	417	6,86,670	902	1,798	9,23,276
Karnataka	Gail Gas Ltd.	Bengaluru	2	1,066	3	13	10
Dadra & Nagar Haveli	Gujarat Gas Ltd.	Dadra & Nagar Haveli	0	52	0	0	0
Total			**1,178**	**33,80,399**	**6,404**	**22,317**	**28,44,616**

Note : Domestic PNG connection of Karnataka is as on 01.10.2016.

21. Major natural gas pipeline network

Nature of pipeline		GAIL	Reliance	GSPL	ARN	IOCL	ONGC	Total
Natural gas (as on 1.10.2016)	Length (KM)	11,077	1,469	2,600	811	140	24	**16,121**
	Cap (MMSCMD)	206	80	43	3.26	9.5	6	**347.8**

22. Domestic natural gas price and gas price ceiling

Period	Domestic Natural Gas price in US$/MMBTU(GCV basis)	Gas price ceiling in US$/MMBTU(GCV Basis)
November 2014 - March 2015	5.05	-
April 2015 - September 2015	4.66	-
October 2015 - March 2016	3.82	-
April 2016 - September 2016	3.06	6.61
October 2016 - March 2017	2.50	5.30

23. Information on Prices, Taxes and Under-recoveries

International prices/ Exchange rates ($/bbl)

	2014-15	2015-16	Apr-Dec`16
Crude (Indian Basket)	84.16	46.17	45.61
Petrol	95.45	61.72	55.73
Diesel	96.64	55.02	54.40
Kerosene	96.98	55.71	54.84
LPG ($/MT)	683.87	394.71	348.20
FO ($/MT)	471.99	235.13	243.43
Naphtha ($/MT)	717.44	420.14	395.3
Exchange (Rs./$)	61.15	65.46	67.12

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

	Basic customs duty	Excise duty
Petrol	2.50%	Rs 21.48/Ltr
Diesel	2.50%	Rs 17.33/Ltr
PDS SKO	Nil	NIL
Non-PDS SKO	5.00%	14.00%
Sub. Dom LPG	NIL	NIL
Non Domestic LPG	5.00%	8.00%
Furnace Oil (Non-Fert)	5.00%	14.00%
Naphtha (Non-Fert)	5.00%	14.00%
ATF	NIL	14% *
Crude Oil	NIL+Rs.50/ -MT as NCCD	NIL+ Cess@ 20%+Rs.50 /-MT NCCD

*8% for scheduled commuter airlines from regional connectivity scheme airports

Price buildup of petroleum products (Rs./litre/Cylinder)

	Petrol*	Diesel*
Price before taxes and dealer commission	31.35	30.74
Central taxes	22.07	17.91
State taxes	15.12	8.72
Dealer commission	2.60	1.65
Retail selling price (RSP)	71.14	59.02

	PDS SKO*	Sub. Dom LPG*
Price before taxes and dealer commission	16.30	537.77
Central taxes	0	0
State taxes	0.54	0
Dealer commission	1.7	47.69
Retail Selling Price	18.54	585.00
Less cash compensation (CC) under DBTL		121.87
CC by OMCs towards uncompensated cost		28.42
Effective cost to consumer after subsidy		434.71

* SKO at Mumbai as on 16th Jan., 2017,. Petrol and diesel at Delhi as on 16th Jan, 2017 and LPG as on 1st Jan, 2017 at Delhi. RSP of Subsidized Dom LPG rounded.

Change in Ex. Rate/ Crude price : Impact on under-recoveries

(Rs. Crores)	Rs.1/$ Ex. Rate	$1/bbl Crude
Impact on under-recovery	950	1230

Note: The above calculation for SKO & LPG are based on RTP for Jan, 2017 at level of Crude Price $51.84/bbl & Ex. Rate Rs.67.95/USD

23. Information on Prices, Taxes and Under-recoveries

Under-recoveries & burden sharing

	2014-15	2015-16	Apr-Dec`16
Per unit under-recovery (Rs./litre/Cylinder)			
Diesel	2.70^	Deregulated	Deregulated
PDS SKO	27.93	13.47	10.88
Sub. Dom LPG	409.72	150.82*	76.14*
Total under-recoveries including DBTL (Rs. Crores)			
Diesel	10,935^	Deregulated	Deregulated
PDS SKO	24,799	11,496	5,721
Sub. Dom LPG#	40,551	16,074	6,403
Total	76,285	27,570	12,124

Burden sharing (Rs. Crores)

	2014-15	2015-16	Apr-Dec`16
Government	31,279	26301**	12,120**
Upstream	42,822	1,251	0
OMCs	2,184	18	4

Fiscal subsidy under Govt. schemes (Rs. Crores)

PDS SKO	681	Scheme was extended till 31.3.2015
Sub. Dom LPG	1,920	

*Average of DBTL and under-recovery towards non-DBTL; #Includes subsidy under DBTL (2014-15: Rs.3,971 cr, 2015-16: Rs.16,056 cr Apr-Dec`16 Rs.6,399 cr; ** Govt. compensation pending disbursement for PDS SKO(2015-16 Rs. 375 cr.& Apr-Dec`16 Rs.4,123 cr); claims pending sanction for PDS SKO and LPG under DBTL for Apr-Dec`16 Rs.1599 cr and Rs.2303 cr respectively. ^up to 18.10.2014 only.

Sales & profit of petroleum sector (Rs. Crores)

Apr-Sep`16	Turnover	PAT
Upstream Companies (PSU)	63,184	12,542
Downstream Companies (PSU)	4,15,246	18,116
Standalone Refineries (PSU)	52,165	2,569
Private-RIL	1,53,102	14,319

Borrowings of OMCs (Rs. Crores)

	As on Mar`15	As on Mar`16	As on Sep`16
IOCL	55,248	52,469	41,885
BPCL	13,098	15,976	16,056
HPCL	20,335	21,337	18,070

Petroleum sector contribution to Central/State Govt.

	2014-15	2015-16	Apr-Sep`16
Central Government	1,72,066	2,58,443	1,40,183
% to total revenue receipt	0.16	0.21	N.A
State Governments	1,60,554	1,60,209	83,962
% to total revenue receipt	0.09	0.08	NA
Total (Rs. Crores)	**3,32,620**	**4,18,652**	**2,24,145**

Subsidy as a % of GDP(at current prices)

	2013-14	2014-15	2015-16
Petroleum subsidy	1.30	0.62	0.25

Note - GDP figure for 2013-14 are 2nd RE, 2014-15 are RE and 2015-16 are PE

24. Capital expenditure of PSU oil companies

Company	2013-14	2014-15	2015-16 (P)	April-December	
				Target*	2016 (P)
ONGC Videsh Ltd (OVL)	35,357	7,172	6,783	14,843	16,519
ONGC Ltd	32,470	29,997	29,502	29,307	18,978
Oil India Ltd (OIL)	9,351	3,774	3,550	4,020	9,283
GAIL (India) Ltd	4,070	1,632	1,880	1,929	1,253
Indian Oil Corp. Ltd. (IOCL)	16,661	14,314	14,368	15,395	15,423
Hindustan Petroleum Corp. Ltd (HPCL)	2,642	2,670	5,459	6,862	3,337
Bharat Petroleum Corp. Ltd (BPCL)	4,374	6,875	10,926	13,097	11,977
Mangalore Refinery & Petrochem Ltd (MRPL)	1,449	2,747	1,550	600	171
Chennai Petroleum Corp. Ltd (CPCL)	229	466	1,318	1,148	782
Numaligarh Refinery Ltd (NRL)	372	103	237	352	287
Balmer Lawrie Co. Ltd (BL)	120	80	38	50	27
TOTAL	**107,095**	**69,830**	**75,611**	**87,603**	**78,037**

* Targets are for financial year 2016-17 and actual is for April-December, 2016. Budget Estimates are for both Plan and Non-Plan

25. Conversion factors and volume conversion

Weight to volume conversion

Product	Weight (MT)	Volume (KL)	Barrel (bbl)
LPG	1	1.844	11.60
Petrol (MS)	1	1.411	8.50
Diesel (HSD)	1	1.210	7.45
Kerosene (SKO)	1	1.285	7.90
ATF	1	1.288	8.10
Light Diesel Oil (LDO)	1	1.172	7.37
Furnace Oil (FO)	1	1.071	6.74
Crude Oil	1	1.170	7.33

Exclusive Economic Zone

200 Nautical Miles	370.4 Kilometers

Volume conversion

From	To
1 US Barrel (bbl)	159 litres
1 US Barrel (bbl)	42 US Gallons
1 US Gallon	3.78 litres
1 Kilo litre (KL)	6.29 bbl
1 Million barrels per day	49.8 MMTPA

Energy conversion

1 Kilocalorie (kcal)	4.187 kJ
1 Kilocalorie (kcal)	3.968 Btu
1 Kilowatt-hour (kWh)	860 kcal
1 Kilowatt-hour (kWh)	3,412 Btu

Natural gas conversions

1 Standard Cubic Metre	35.31 Cubic Feet	1 MMBTU	25.2 SCM @10000 kcal/SCM
1 BCM/year of Gas	2.74 MMSCMD	GCV (Gross Calorific Value	10,000 kcal/SCM
1 TCF of Gas Reserve	3.88 MMSCMD	NCV (Net Calorific Value)	90% of GCV
1 MMTPA of LNG	3.60 MMSCMD	Gas required for 1 MW power generation	4,541 SCM/day
1 MT of LNG	1,314 SCM	Power generation from 1 MMSCMD of gas	220 MW