Ready Reckoner

Snapshot of India's Oil & Gas data

March, 2015

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

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Highlights

• Planned shutdown of IOCL Refineries (a) Koyali: 21st March, 2015 to 4th May-2015 (b) Digboi: 16th March to 8th April-2015.
• Planned Shutdown of BPCL refineries (a) NRL: 29/03/15 to 28/04/2015 all units (b) BORL: 30/03/2015 to 01/05/2015.
• HMEL: CCR was under planned shutdown from 26/03/2015 to 15/04/2015, resulting in additional Naphtha Production.
• Due to unplanned shutdown of CDU-1 at MRPL, there was minor disruption in availability of MS / HSD.
• RIL CDU-1 was under planned shutdown from 14/03/15 to 13/04/15.
• The consumption of all petroleum products has registered a growth of 1.4% in March, 2015 as compared to that in March, 2014. Except for LPG, Naphtha, MS Lubes and Pet coke, all other products have recorded negative growth and a cumulative growth of 4.2% during April 2014-March 2015
• There has been a 13.1% growth in the consumption of MS during March, 2015 and a cumulative growth of 11.4% for the period April 2014-March 2015
• Since November, 2014, there was a positive growth trend in the consumption of HSD but during March, 2015, there was a decline in growth of -3.3% growth and a cumulative growth of 1.5% during the period April 2014-March 2015.
• LPG consumption for the nineteenth month in a row recorded a positive growth of 4.9% during March, 2015 and a cumulative growth of 10.6% during the period April 2014-March, 2015

1. Selected Indicators of the Indian Economy

	Economic Indicators	Unit/Base	2011-12	2012-13	2013-14	2014-15 (P)
1	Population (as on 1st March 2011)	Billion	1.2	-	-	-
2	GDP at Factor Cost (Constant prices)*	Growth %	6.7	5.1	6.9	7.5
3	Agricultural Production (Food grains)	MMT	259.3	257.1	265.6 Final	257.1 2nd AE
		Growth %	6.1	-0.8	3.3	-2.3
4	Gross Fiscal Deficit	%	-5.7	-4.8	-4.6	-4.1 (RE)

	Economic Indicators	Unit/Base	2013-14	March		April-March	
				2014	2015	2014	2015
5	Index of Industrial Production@	Growth %	2.8	-2.0	5.0	-0.1	2.8
6	Imports	$ Billion	450.2	41.3	35.7	450.2	447.5
7	Exports	$ Billion	314.4	30.3	24.0	314.4	310.5
8	Trade Balance	$ Billion	-135.8	-11.0	-11.8	-135.8	-137.0
9	Foreign Exchange Reserves	$ Billion	303.7	303.7	341.4	-	-

@ IIP is for the month of February & cumulative April-February

*Source : MOPSI GDP at constant price is calculated with base year 2011-12. For 2014-15 figs for Q3 (Oct-Dec).

2. Import Dependency

	Petroleum & Natural Gas Sector	Unit/Base	2013-14	March		April-March	
				2014	2015 (P)	2014	2015 (P)
1	Crude Oil Production In India	MMT	37.8	3.2	3.2	37.8	37.5
2	Consumption of Petroleum Products	MMT	158.4	14.3	14.5	158.4	165.0
3	Production of Petroleum Products	MMT	220.3	19.5	19.0	220.3	220.7
4	Imports & Exports:						
	Crude Oil Imports	$ Billion	143.0	10.9	6.1	143.0	112.7
	Petroleum Products (POL) Imports	$ Billion	12.3	1.0	1.0	12.3	11.9
	Gross Petroleum Imports (Crude + POL)	$ Billion	155.2	11.9	7.1	155.2	124.7
	Petroleum Products Exports	$ Billion	60.7	5.6	2.5	60.7	47.1
5	Petroleum Imports as % of India's Gross Imports	%	34.5	28.8	19.9	34.5	27.9
6	Petroleum Exports as % of India's Gross Exports	%	19.3	18.5	10.4	19.3	15.2
7	Import Dependency (Based on Consumption)	%	77.6%	80.5%	81.2%	77.6%	78.6%

3. Quantity and Value of Crude oil imports during 2014-15(P)

Petroleum & Natural Gas Sector	Quantity (MMT)	$ Million	Rs. Crore
Crude Oil Imports	189.43	112,748	687,369

Impact of variation in Crude oil price & Exchange rate on Crude oil imports during Q4 of 2014-15:

- If Crude prices increases by One $/bbl - Net Import bill increases by Rs. 8543 crores ($1.40 bn)
- If Exchange rate of $ increases by Rs. 1/$ - Net Import bill increases by Rs.11275 crores ($1.819 bn)

4. Indigenous Crude Oil Production (Million Metric Tonne)					
Details	**2013-14**	**March**		**April-March**	
		2014	**2015 (P)**	**2014**	**2015 (P)**
ONGC	19.2	1.6	1.6	19.2	18.6
OIL	3.5	0.2	0.3	3.5	3.4
Private / JVs	12.0	1.0	1.0	12.0	11.7
Total Crude Oil	**34.7**	**2.9**	**2.9**	**34.7**	**33.8**
Condensate	3.1	0.3	0.3	3.1	3.7
Total (Crude Oil + Condensate) (MMT)	**37.8**	**3.2**	**3.2**	**37.8**	**37.5**
Total (Crude Oil + Condensate) (Million Barrels)	277.0	23.3	23.7	277.0	274.7

5. Domestic Oil & Gas Production vis a vis Overseas Production					
Year	**2013-14**	**March**		**April-March**	
		2014	**2015 (P)**	**2014**	**2015 (P)**
Total Domestic (MMTOE)	73.2	6.1	6.0	73.2	71.1
Overseas production of OVL (MMTOE)	8.4	0.787	0.802	8.357	8.874
Overseas Production as % of Domestic	11.5%	12.9%	13.3%	11.4%	12.5%

6. Coal Bed Methane (CBM) Gas development in India		
Prognosticated CBM Resources	92	TCF
Established CBM resources	9.9	TCF
Total available Coal bearing area	26000	Sq. KM
Exploration Initiated	17200	Sq. KM
Blocks Awarded	33	Nos.
Commercial production of CBM gas	**0.67**	**MMSCMD**

7. Refineries: Installed Capacity and Crude Oil Processing (MMTPA / MMT)								
	Company	Refinery	Installed Capacity (1.4.2014)	Crude Oil Processing				
				2013-14	March		April-March	
					2014	2015 (P)	2014	2015 (P)
1	IOCL	Barauni	6.0	6.5	0.58	0.54	6.50	5.94
2		Koyali	13.7	13.0	1.17	1.00	13.00	13.29
3		Haldia	7.5	8.0	0.72	0.66	8.00	7.65
4		Mathura	8.0	6.6	0.78	0.84	6.60	8.52
5		Panipat	15.0	15.1	1.27	1.33	15.10	14.19
6		Guwahati	1.0	1.0	0.07	0.10	1.00	1.01
7		Digboi	0.7	0.7	0.05	0.02	0.70	0.59
8		Bongaigaon	2.4	2.3	0.20	0.23	2.30	2.40
		IOCL TOTAL	**54.2**	**53.1**	**4.84**	**4.72**	**53.10**	**53.59**
9	HPCL	Mumbai	6.5	7.7	0.73	0.71	7.70	7.41
10		Visakhapatnam	8.3	7.8	0.81	0.84	7.80	8.77
11	HMEL	HMEL-Bhatinda	9.0	9.3	0.86	0.92	9.30	7.34
		HPCL-TOTAL	**23.8**	**24.8**	**2.40**	**2.47**	**24.80**	**23.52**
12	BPCL	Mumbai	12.0	12.7	1.16	1.18	12.70	12.82
13		Kochi	9.5	10.3	0.93	0.91	10.30	10.36
14	BORL	Bina	6.0	5.4	0.42	0.52	5.40	6.21
		BPCL-TOTAL	**27.5**	**28.4**	**2.51**	**2.61**	**28.40**	**29.39**

	Company	Refinery	Installed Capacity (1.4.2014)	Crude Oil Processing				
				2013-14	March		April-March	
					2014	2015 (P)	2014	2015 (P)
15	CPCL	Manali	10.5	10.1	0.95	0.89	10.10	10.25
16		CBR	1.0	0.6	0.05	0.04	0.60	0.53
		CPCL-TOTAL	**11.5**	**10.7**	**1.00**	**0.93**	**10.70**	**10.78**
17	NRL	Numaligarh	3.0	2.6	0.18	0.18	2.60	2.78
18	ONGC	Tatipaka	0.1	0.1	0.003	0.004	0.10	0.05
19		MRPL-Mangalore	15.0	14.6	1.42	1.49	14.60	14.63
		ONGC TOTAL	**15.1**	**17.3**	**1.42**	**1.49**	**17.30**	**14.68**
20	RIL	Jamnagar (DTA)	33.0	30.3	2.22	1.99	30.30	30.87
21		Jamnagar (SEZ)	27.0	37.7	3.26	3.16	37.70	37.17
22	EOL	Vadinar	20.0	20.2	1.74	1.75	20.20	20.49
	All India		**215.1**	**222.4**	**19.57**	**19.30**	**222.40**	**223.26**

8. High Sulphur (HS) & Low Sulphur (LS) Crude Oil Processed (MMT)

	Type of crude	2013-14	March		April-March	
			2014	2015 (P)	2014	2015 (P)
1	HS Crude	160.2	14.4	14.3	160.2	161.7
2	LS Crude	62.2	5.2	5.0	62.2	61.6
Total Crude		**222.5**	19.6	**19.3**	**222.5**	**223.3**
Share of HS Crude to total crude processed		**72.04%**	**73.67%**	**74.26%**	**72.04%**	**72.41%**

9. Gross Refining Margins (GRM) of Refineries ($/bbl)						
Company	**Refinery**	**2011-12**	**2012-13**	**2013-14**	**Apr-Dec'13**	**Apr-Dec'14**
IOCL	Barauni	0.39	2.40	6.68	8.60	-7.00
	Koyali	5.07	4.61	4.52	4.62	3.35
	Haldia	2.38	0.85	2.84	4.46	-5.63
	Mathura	0.59	0.55	2.10	4.07	-2.99
	Panipat	4.39	3.34	3.62	3.69	-4.76
	Guwahati	11.94	9.52	6.38	3.77	1.63
	Digboi	14.85	20.81	15.41	12.91	8.65
	Bongaigaon	6.25	5.26	6.71	7.68	-7.57
	Average	**3.63**	**3.16**	**4.24**	**4.97**	**-2.66**
BPCL	Kochi	3.09	5.36	4.80	4.09	1.08
	Mumbai	1.73	4.67	3.95	3.04	2.89
	Average	**2.29**	**4.97**	**4.33**	**3.50**	**2.08**
HPCL	Mumbai	1.74	2.08	5.38	4.65	2.77
	Visakhapatnam	2.95	2.08	1.50	1.13	-0.43
	Average	**2.39**	**2.08**	**3.43**	**2.94**	**1.04**
CPCL	Chennai	4.16	0.99	4.06	4.86	0.63
MRPL	Mangalore	5.60	2.45	2.67	2.42	-3.58
NRL	Numaligarh	12.45	10.52	12.09	13.06	11.58
BORL	Bina	-	7.00	7.70	8.20	2.50
RIL	Jamnagar	8.60	9.20	8.10	7.80	8.10
Essar	Vadinar	4.23	7.96	7.98	7.27	7.69

10. GRM of North East Refineries excluding Excise Duty Benefit

$/bbl

Company	Refinery	2011-12	2012-13	2013-14	Apr-Dec'13	Apr-Dec'14
IOCL	Guwahati	3.73	3.43	0.88	-1.49	-4.58
	Digboi	6.41	13.25	8.50	5.77	1.56
	Bongaigaon	0.56	0.25	2.34	3.33	-12.12
NRL	Numaligarh	5.80	4.83	6.98	7.87	5.93

11. Natural Gas at a Glance

(MMSCM)

	2013-14	March		April-March	
		2014	2015 (P)	2014	2015 (P)
Gross Production	35391.0	2879.2	2837.1	35391.0	33582.6
Net Production (Excluding Flare Gas)	34554.7	2811.5	2738.0	34554.7	32619.7
LNG Import	**14257.0**	**1232.3**	**1005.7**	**14257.0**	**15188.5**
Total Consumption (Net Production + Import)	**48811.7**	**4043.8**	**3743.7**	**48811.7**	**47808.2**
Total Consumption (in BCM)	**48.8**	**4.0**	**3.7**	**48.8**	**47.8**

(Reliance import figure is not included)

12. Consumption of Petroleum Products (Million Metric Tonnes)

Products	March 2014		March 2015 (P)		Apr-Mar. 2014		Apr-Mar. 2015 (P)	
	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption
LPG	0.9	1.5	0.9	1.6	10.0	16.3	9.8	18.0
MS	2.7	1.5	2.6	1.7	30.3	17.1	32.2	19.1
NAPHTHA	1.5	1.0	1.5	1.0	18.5	11.3	17.5	10.9
ATF	1.0	0.5	1.0	0.5	11.2	5.5	11.1	5.6
SKO	0.6	0.6	0.7	0.6	7.4	7.2	7.6	7.1
HSD	8.5	6.1	8.1	5.9	93.8	68.4	94.3	69.4
LDO	0.02	0.04	0.04	0.04	0.4	0.4	0.4	0.4
LUBES	0.1	0.3	0.1	0.3	0.9	3.3	0.9	3.0
FO/LSHS	1.1	0.6	0.9	0.5	13.5	6.2	12.1	6.0
BITUMEN	0.5	0.7	0.5	0.6	4.8	5.0	4.7	5.0
OTHERS	2.5	1.5	2.7	1.7	29.5	17.7	30.2	20.6
ALL INDIA	**19.5**	**14.3**	**19.0**	**14.5**	**220.3**	**158.4**	**220.7**	**165.0**
Growth (%)	1.6%	**1.5%**	**-2.1%**	**1.4%**	**1.1%**	**0.9%**	**0.19%**	**4.2%**

13. Self Sufficiency in Petroleum Products (Million Metric Tonnes)

Details	2013-14	March		April-March	
		2014	2015 (P)	2014	2015 (P)
1. Indigenous Crude Oil Processing :	33.9	2.7	2.6	33.9	34.0
a) Products from Indigenous Crude *(93.3% of crude oil processed)*	31.6	2.5	2.4	31.6	31.7
b) Products from Fractionators (Including LPG and Gas)	3.8	0.3	0.3	3.8	3.7
2. Total Production from Indigenous Crude & Condensate **(a + b)**	35.5	2.8	2.7	35.5	35.3
3. Total Domestic Consumption	158.4	14.3	14.5	158.4	165.0
% Self Sufficiency (2 / 3)	**22.4%**	**19.5%**	**18.8%**	**22.4%**	**21.4%**

14. Industry Marketing Infrastructure (as on 31.3.2014) (Provisional)								
Particulars	**IOCL**	**BPCL**	**HPCL**	**RIL**	**ESSAR**	**SHELL**	**Others**	**Total**
Terminal/ Depots **(Nos.)**	135	82	95	5	2		1	**320**
Aviation Fuel Stations **(Nos.)**	98	36	33	27	3	5	2	**204**
Retail Outlets (total) **(Nos.)**	23993	12123	12869	1400	1382	100	3	**51870**
LPG Distributors (total) **(Nos.)**	7035	3355	3506					**13896**
SKO/LDO Dealers **(Nos.)**	3930	1014	1638					**6582**
LPG Bottling **(TMTPA)**	7170	3075	2960					**13205**
Rural ROs **(Nos.)**	6002							**6002**
RGGLVY **(Nos.)**	1421	817	798					**3036**
LPG Consumers **(Nos. Crores)**	8.18	4.12	4.33					**16.63**

15. Major Pipeline network								
Nature of Pipeline		**GAIL**	**Reliance**	**GSPCL**	**AGC**	**IOCL**	**ONGC**	**Total**
Natural Gas	Length (KM)	10949	1469	2198	1000	132	24	**15772**
(as on 1.9.2014)	Cap (MMSCMD)	242.0	80.0	43.0	6.0	9.5	6.0	**386.5**

		ONGC	**OIL**	**Cairn**	**HMEL**	**IOCL**	**BPCL**	**HPCL**	**Other**	**Total**
Crude Oil	Length (KM)	1195	1193	594	1017	4448	937	-	-	**9384**
(as on 1.4.2014)	Cap (MMTPA)	56.9	8.4	8.7	9.0	40.4	6.0	-	-	**129.4**
Products	Length (KM)	-	654	-	-	6632	1697	2407	2693	**14083**
(as on 1.4.2014)	Cap (MMTPA)	-	1.7	-	-	36.6	10.8	20.5	8.7	**78.3**

***Others** include GAIL and Petronet India*

16. Gas Pipelines under execution / construction				
Network/ Region	**Entity**	**Length in KMs**	**Design Capacity (mmscmd)**	**Pipeline Size**
Kochi - Kottanad - Banglore - Mangalore	GAIL	1104	16	24"/18"/12"
Dabhol -Banglore (DBPL)	GAIL	410	16	36"/30"/24"/18"
Surat - Paradip	GAIL	2112	75	36"/24"/18"
Jagdishpur- Haldia	GAIL	1860	32	
Mallavaram - Bhilwada	GITL	2035	78.25	36"/30"/24"/18"
Mehsana - Bhatinda	GIGL	2052	77.11	
Bhatinda -Srinagar	GIGL	725	42	
Kakinada - Srikakulam	APGDC	391	90	
Total		**10689**		

17. Existing and upcoming LNG Terminals as on 30.9.2014			
Existing/ Upcoming Terminals	**Promotors**	**Capacity (MMTPA)**	**Expected Timelines**
Dahej	Petronet LNG Ltd (PLL)	15*	Existing
Hazira	Shell	3.6	Existing
Dabhol	RGPPL (GAIL - NTPC JV)	5**	Existing
Kochi	Petronet LNG Ltd (PLL)	5	Existing
Kakinada	Shell & Reliance	10***	2016-17
Kakinada East Godavari initially FSRU	GAIL + AP Govt. (JV) Proposed	3.5	2016-17
Mundra	Adani & GSPC (Proposed)	5	2015-16
Ennore	IOCL	10****	2017-18
Gangavaram (AP)	PLL	5	2018-19
Mangalore	ONGC + BPCL	2.5	2018-19

* Existing 10 MMTPA to be increased to 15 MMTPA by 2016-17 ; ** 2 MMTPA in Phase-1 without break water ; to be increased to 5.0 MMTPA;
*** 5 MMTPA in Phase-1 to be increased to 10 MMTPA ; **** 5 MMTPA in Phase - 1 to be increased to 10 MMTPA

18. Status of PNG connections and CNG stations across India (Nos.)				
State	**Entity Operating**	**Geographical Region**	**CNG Stations**	**PNG Connections**
			(as on 31.3.2015)	**(as on 1.3.2015)**
Haryana	Haryana City Gas, Adani Gas Limited, Gail Gas Ltd.	Sonepat, Faridabad, Gurgaon	16	22,327
Andhra Pradesh, Telangana	Bhagyanagar Gas Ltd	Kakinada, Hyderabad, Vijaywada, Rajamundry	33	3,032
Assam	Assam Gas Co. Ltd	Tinsukia, Dibrugarh, Sibsagar, Johrat, Golaghat	0	27,919
Gujarat	Sabarmati Gas Ltd, GSPC Gas Co. Ltd, Adani Gas Ltd , Vadodara Mahanagar Seva Sadan, GAIL, GAIL Gas, HPCL, Gujarat Gas Co. Ltd, Charotar Gas Sahakari Mandali Ltd	Gandhinagar, Mehsana, Sabarkantha, Nadiad, Halol, Hazira, Rajkot, Khambhat, Palej, Valsad, Navsari, Surendernagar, Vadodara, Ahmedabad, Surat, Ankleswar, Bhavnagar, Anand	349	1,376,980
Madhya Pradesh	Avantika Gas Ltd, GAIL Gas Ltd	Dewas, Vijaipur, Indore including Ujjain, Gwalior	17	3,023
Delhi	Indraprastha Gas Ltd	National Capital Territory of Delhi (Including Noida & Ghaziabad)	326	540,079
Rajasthan	GAIL Gas Ltd	Kota	3	189

State	Entity Operating	Geographical Region	CNG Stations	PNG Connections
			(as on 31.3.2015)	(as on 1.3.2015)
Maharashtra	Mahanagar Gas Ltd, Maharashtra Natural Gas Ltd, GAIL Gas Ltd	Thane & adjoining contiguous areas including Mira Bhayender, Navi Mumbai, Thane City, Ambernath, Bhiwandi, Kalyan, Dombivili, Badlapur, Ulhasnagar, Panvel, Kharghar & Taloja, Pune City including Pimpri Chinchwad and along with adjoining contiguous areas of Chakan, Hinjewadi & Talegaon GA, Panvel	204	804,916
Tripura	Tripura Natural Gas Co. Ltd	Agartala	4	17,511
West Bengal	GEECL	Kolkata	7	0
Uttar Pradesh	GAIL Gas Ltd, Sanwariya Gas, Green Gas , Central U.P. Gas , Siti Energy Ltd	Meerut, Mathura, Agra,Kanpur, Bareilly, Lucknow, Moradabad, Ferozabad	36	19,699
		Total	**995**	**2,815,675**

19. Information on Prices, Taxes and Under-recoveries

Sales & profit of Petroleum Sector (Rs. Crores)

Apr-Dec 2014	Turnover	PAT
Upstream Companies	109,831	18285
Downstream Cos.	691,330	1790
Standalone Refineries	86,320	-2902
Private/JVs	385,051	18161

Customs & Excise Duty rates

	Customs duty	Excise duty
Crude oil	Nil+Rs.50/MT as NCCD	NIL+Rs.4500/ MT Cess + Rs. 50/ MT NCCD
Petrol	2.50%	Rs.17.46/Ltr
Diesel	2.50%	Rs.10.26/Ltr
PDS SKO	Nil	NIL
Non PDS SKO	5%	14%
Sub. Dom LPG	Nil	Nil
Non Domestic LPG	5%	8%
Furnace Oil	5%	14%
Naphtha	5%	14%
ATF	NIL	8%

Price buildup of Petroleum products (Rs./litre/Cy.)

	Petrol	Diesel
Price before taxes and dealer comm.	29.31	29.63
Central taxes	18.01	10.82
State taxes	9.87	5.49
Dealer comm.	2.01	1.26
Retail Selling Price	59.20	47.20
	PDS SKO*	**Sub. Dom LPG**
Price before taxes and dealer comm.	13.55	576.36
Central taxes	0	0
State taxes	0.44	0
Dealer comm.	1.15	44.88
Retail Selling Price	15.14	621.00**

*At Mumbai, other products at Delhi**Effective price after DBTL subsidy is Rs. 417.82.

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

(Rs. Crores)	Rs.1/$ Ex. Rate	$1/bbl Crude
Impact on Under-recovery	1,140	1,270

19. Information on Prices, Taxes and Under-recoveries

Under-recoveries & Burden Sharing

	2013-14	Apr-Dec`13	Apr-Dec`14
Per unit under-recovery (Rs./litre/Cyl.)			
Diesel	8.39	8.49	2.70*
PDS SKO	33.98	33.12	31.69
Sub. Dom LPG	499.52	440.39	428.31
Total Under-recoveries (Rs. Crores)			
Diesel	62,837	47,655	10,935*
PDS SKO	30,575	22,373	21,216
Sub. Dom LPG	46,458	30,604	34,941
Total	139,869	100,632	67,091
Burden Sharing (Rs. Crores)			
Government	70,772	35,772	22,085
Upstream	67,021	47,971	42,822
OMCs	2,076	16,889	2,184

Fiscal Subsidy under Govt. Schemes (Rs. Crores)

PDS SKO	681	601	**
Sub. Dom LPG	1,920	1,707	**

* Deregulated w.e.f. 19th October 2014

**Scheme was extended till 31.3.2014. Further extension was granted till 31.3.2015.

International Prices/ Exchange rates ($/bbl)

	2012-13	2013-14	Apr-Dec14
Crude (Indian Basket)	107.97	105.52	94.56
Petrol	118.98	114.31	105.61
Diesel	121.97	119.41	106.77
Kerosene	123.11	118.80	106.94
LPG ($/MT)	885.20	880.49	754.39
FO ($/MT)	632.52	595.79	527.94
Naphtha ($/MT)	888.49	881.30	801.82
Exchange (Rs./$)	54.45	60.50	60.77

Borrowings of OMCs (Rs. Crores)

	2012-13	2013-14	Apr-Dec`14
IOCL	80,894	86,263	58,511
BPCL	23,839	20,322	14,012
HPCL	33,789	32,164	21,962

Petroleum Sector Contribution to Central/State Govt.

	2012-13	2013-14	Apr-Dec`14
Central Government	142,626	152,900	108,220
State Governments	136,034	152,460	118,621
Total (Rs. Crores)	278,660	305,360	226,841

Subsidy as a % of GDP

	2011-12	2012-13	2013-14
Petroleum Subsidy	1.70	1.75	1.37

20. 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	1.4110	8.50
Diesel (HSD)	1	1.2100	7.45
Kerosene (SKO)	1	1.2850	7.90
ATF	1	1.2880	7.90
Light Diesel Oil (LDO)	1	1.0720	6.75
Furnace Oil (FO)	1	1.0424	6.55
Crude Oil	1	1.1700	7.33

Volume Conversion

From	To
1 bbl (British Barrel)	159 litres
1 bbl (British Barrel)	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)	3412 Btu

Exclusive Economic Zone

200 Nautical Miles	370.4 Kilometers

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	10000 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	4128 SCM/day
1 MT of LNG	1314 SCM	Power generation from 1 MMSCMD of gas	242 MW