# Ready Reckoner

## Snapshot of India's Oil & Gas data

## September, 2014

Analysis • Knowledge • Information

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

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# Highlights

| |
|---|
| • HMEL, Bhatinda commenced its production in last week of September, 2014. Refinery is expected to operate at its full rated capacity from October, 2014 onwards |
| • Cumulative crude oil production, including production of condensates, was less by 232 TMT as compared to corresponding period of previous year; mainly due to drop in production @ 110 TMT in MANGLA field of Rajasthan |
| • Decreased domestic crude production and increased domestic consumption has pushed up import dependency to 77.29% of consumption for September, 2014 versus 75.12% dependency during September, 2013 |
| • The consumption of all petroleum products registered a growth of 3.0% in September, 2014. Except for HSD, Naphtha, Bitumen & Pet Coke all other products have recorded positive growth and a cumulative growth of 3.3% during April-September, 2014 |
| • There has been a high growth 21.6% growth in the consumption of MS during September, 2014 and a cumulative growth of 10.3% for April-September, 2014 mainly due to festive season and high sales of 2-wheelers and passenger vehicles |
| • After a positive trend for the last four months since May, 2014, HSD consumption recorded a marginal de-growth of -0.2% in the month of September, 2014 and a cumulative growth of 1.4% for April-September, 2014. |

## 1. Selected Indicators of the Indian Economy

| | Economic Indicators | Unit/Base | 2011-12 | 2012-13 | 2013-14 (P) | 2014-15(P) |
|---|---|---|---|---|---|---|
| 1 | Population (as on 1st March 2011) | Billion | 1.2 | - | - | - |
| 2 | GDP at Factor Cost (Constant prices) | Growth % | 6.7<br>2nd RE | 4.5<br>1st RE | 4.7<br>PE | 5.7<br>Q1 |
| 3 | Agricultural Production (Food grains) | MMT | 259.29 | 257.1 | 264.8<br>4th AE | 120.3<br>Ist AE |
| | | Growth % | 6.1 | -0.8 | 3.0 | -7.0 |
| 4 | Gross Fiscal Deficit | % | -5.7 | -4.8 | -4.6<br>(RE) | -4.1<br>(BE) |

| | Economic Indicators | Unit/Base | 2013-14 | September | | April-September | |
|---|---|---|---|---|---|---|---|
| | | | | 2013 | 2014 | 2013 | 2014 |
| 5 | Index of Industrial Production@ | Growth % | 2.8 | 0.4 | 0.4 | 0.0 | 2.8 |
| 6 | Imports | $ Billion | 450.9 | 34.3 | 43.2 | 230.5 | 234.1 |
| 7 | Exports | $ Billion | 312.4 | 28.1 | 28.9 | 153.8 | 163.7 |
| 8 | Trade Balance | $ Billion | -138.6 | -6.1 | -14.2 | -76.7 | -70.4 |
| 9 | Foreign Exchange Reserves | $ Billion | 303.7 | 276.3 | 314.2 | - | - |

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

## 2. Import Dependency

| Petroleum & Natural Gas Sector | | Unit/Base | 2013-14 (P) | September | | April-September | |
|---|---|---|---|---|---|---|---|
| | | | | 2013 | 2014 (P) | 2013 | 2014 (P) |
| 1 | Crude Oil Production In India | MMT | 37.8 | 3.1 | 3.1 | 18.9 | 18.6 |
| 2 | Consumption of Petroleum Products | MMT | 158.2 | 12.0 | 12.3 | 77.6 | 80.3 |
| 3 | Production of Petroleum Products | MMT | 220.2 | 18.1 | 18.1 | 110.1 | 107.7 |
| 4 | Imports & Exports: | | | | | | |
| | Crude Oil Imports | $ Billion | 142.9 | 11.8 | 11.0 | 72.4 | 70.3 |
| | Petroleum Products (POL) Imports | $ Billion | 12.3 | 1.1 | 1.1 | 5.6 | 6.7 |
| | Gross Petroleum Imports (Crude + POL) | $ Billion | 155.2 | 12.9 | 12.1 | 77.9 | 77.0 |
| | Petroleum Products Exports | $ Billion | 60.7 | 6.4 | 5.3 | 30.9 | 27.8 |
| 5 | Petroleum Imports as % of India's Gross Imports | % | 34.4 | 37.6 | 28.0 | 33.8 | 32.9 |
| 6 | Petroleum Exports as % of India's Gross Exports | % | 19.4 | 22.8 | 18.3 | 20.1 | 17.0 |
| 7 | Import Dependency (Based on Consumption) | % | 77.6% | 75.1 | 76.4 | 77.3 | 77.9 |

## 3. Estimated Balance of Trade during 2014-15

| Petroleum & Natural Gas Sector | Quantity (MMT) | $ Million | Rs. Crore |
|---|---|---|---|
| Net Imports (Crude, POL & LNG) | 142.57 | 103,366 | 625,363 |

*(Considering Indian Crude basket at 105.52/bbl and average exchange rate of Rs. 60.50/$)*

- If Crude prices increases by One $/bbl - Net Import bill increases by Rs. 8,345 crores ($ 1.38 bn)
- If Exchange rate of $ increases by Rs. 1/$ - Net Import bill increases by Rs. 10,337 crores

## 4. Indigenous Crude Oil Production (Million Metric Tonne)

| Details | 2013-14 (P) | September | | April-September | |
|---|---|---|---|---|---|
| | | 2013 | 2014 (P) | 2013 | 2014 (P) |
| ONGC | 19.2 | 1.6 | 1.5 | 9.6 | 9.4 |
| OIL | 3.5 | 0.3 | 0.3 | 1.8 | 1.7 |
| Pvt / JVs | 12.0 | 1.0 | 1.0 | 5.9 | 4.4 |
| **Total Crude Oil** | **34.7** | **2.8** | **2.8** | **17.3** | **16.9** |
| Condensate | 3.1 | 0.3 | 0.3 | 1.5 | 1.7 |
| **Total (Crude Oil +Condensate) (MMT)** | **37.8** | **3.1** | **3.1** | **18.9** | **18.6** |
| Total (Crude Oil +Condensate) (Million Barrels) | 277.04 | 22.7 | 22.4 | 138.2 | 136.4 |

## 5. Domestic Oil & Gas Production vis a vis Overseas Production

| Year | 2013-14 (P) | September | | April-September | |
|---|---|---|---|---|---|
| | | 2013 | 2014 (P) | 2013 | 2014 (P) |
| Total Domestic (MMTOE) | 73.2 | 6.0 | 5.8 | 36.7 | 35.4 |
| Overseas production of OVL (MMTOE) | 8.4 | 0.617 | 0.687 | 4.113 | 4.295 |
| Overseas Production as % of Domestic | 11.5% | 10.3% | 11.8% | 11.2% | 12.1% |

## 6. Coal Bed Methane (CBM) Gas development in India

| | | |
|---|---|---|
| Prognosticated CBM Resources | 92 | TCF |
| Established CBM resources | 8.92 | TCF |
| Total available Coal bearing area | 26000 | Sq. KM |
| Exploration Initiated | 17000 | Sq. KM |
| Blocks Awarded* | 33 | Nos. |
| **Commercial production of CBM gas** | **0.23** | **MMSCMD** |

## 7. Refineries: Installed Capacity and Crude Oil Processing (MMTPA / MMT)

| | Company | Refinery | Installed Capacity (1.4.2014) | Crude Oil Processing | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 2013-14 (P) | September | | April-September | |
| | | | | | 2013 | 2014 (P) | 2013 | 2014 (P) |
| 1 | IOCL | Barauni | 6.0 | 6.5 | 0.55 | 0.39 | 3.13 | 3.12 |
| 2 | | Koyali | 13.7 | 13.0 | 0.96 | 1.03 | 6.08 | 6.62 |
| 3 | | Haldia | 7.5 | 8.0 | 0.69 | 0.62 | 3.97 | 3.84 |
| 4 | | Mathura | 8.0 | 6.6 | 0.62 | 0.64 | 4.02 | 4.25 |
| 5 | | Panipat | 15.0 | 15.1 | 1.40 | 1.16 | 7.34 | 6.53 |
| 6 | | Guwahati | 1.0 | 1.0 | 0.10 | 0.08 | 0.51 | 0.50 |
| 7 | | Digboi | 0.7 | 0.7 | 0.06 | 0.05 | 0.33 | 0.30 |
| 8 | | Bongaigaon | 2.4 | 2.3 | 0.19 | 0.19 | 1.12 | 1.11 |
| | | **IOCL TOTAL** | **54.2** | **53.1** | **4.57** | **4.17** | **26.50** | **26.27** |
| 9 | HPCL | Mumbai | 6.5 | 7.7 | 0.68 | 0.68 | 3.77 | 3.44 |
| 10 | | Visakhapatnam | 8.3 | 7.8 | 0.37 | 0.82 | 3.58 | 4.32 |
| 11 | HMEL | HMEL-Bhatinda | 9.0 | 9.3 | 0.73 | 0.08 | 4.44 | 2.54 |
| | | **HPCL-TOTAL** | **23.8** | **24.8** | **1.78** | **1.57** | **11.79** | **10.30** |
| 12 | BPCL | Mumbai | 12.0 | 12.7 | 1.07 | 1.06 | 6.19 | 6.16 |
| 13 | | Kochi | 9.5 | 10.3 | 0.88 | 0.91 | 5.37 | 5.27 |
| 14 | BORL | Bina | 6.0 | 5.4 | 0.49 | 0.57 | 2.91 | 2.85 |
| | | **BPCL-TOTAL** | **27.5** | **28.4** | **2.44** | **2.74** | **14.47** | **14.29** |

| | Company | Refinery | Installed Capacity (1.4.2014) | Crude Oil Processing | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 2013-14 (P) | September | | April-September | |
| | | | | | 2013 | 2014 (P) | 2013 | 2014 (P) |
| 15 | CPCL | Manali | 10.5 | 10.1 | 0.85 | 0.82 | 5.38 | 5.08 |
| 16 | | CBR | 1.0 | 0.6 | 0.05 | 0.03 | 0.23 | 0.29 |
| | | **CPCL-TOTAL** | **11.5** | **10.6** | **0.90** | **0.85** | **5.61** | **5.37** |
| 17 | NRL | Numaligarh | 3.0 | **2.6** | 0.27 | 0.23 | 1.20 | 1.45 |
| 18 | ONGC | Tatipaka | 0.1 | 0.1 | 0.006 | 0.004 | 0.03 | 0.03 |
| 19 | | MRPL-Mangalore | 15.0 | 14.6 | 1.33 | 1.12 | 6.99 | 6.71 |
| | | **ONGC TOTAL** | **15.1** | **14.7** | **1.61** | **1.16** | **8.22** | **8.19** |
| 20 | RIL | Jamnagar (DTA) | 33.0 | 30.3 | 2.93 | 2.68 | 15.98 | 15.28 |
| 21 | | Jamnagar (SEZ) | 27.0 | 37.7 | 3.15 | 3.15 | 18.80 | 18.93 |
| 22 | EOL | Vadinar | 20.0 | 20.2 | 1.74 | 1.68 | 10.32 | 10.18 |
| | **All India** | | **215.1** | **222.4** | **18.10** | **18.14** | **111.66** | **108.81** |

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

| | Type of crude | 2013-14 (P) | September | | April-September | |
|---|---|---|---|---|---|---|
| | | | 2013 | 2014 (P) | 2013 | 2014 (P) |
| 1 | HS Crude | 158.3 | 13.4 | 13.0 | 81.3 | 77.9 |
| 2 | LS Crude | 64.1 | 5.1 | 5.1 | 30.4 | 30.9 |
| **Total Crude** | | **222.4** | **18.4** | **18.1** | **111.7** | **108.8** |
| **Share of HS Crude of total crude processing** | | **71.2%** | **72.4%** | **71.9%** | **72.8%** | **71.6%** |

| 9. Gross Refining Margins (GRM) of Refineries ($/bbl) | | | | | | |
|---|---|---|---|---|---|---|
| **Company** | **Refinery** | **2011-12** | **2012-13** | **2013-14** | **Apr-Jun'13** | **Apr-Jun'14** |
| **IOCL** | Barauni | 0.39 | 2.40 | 6.68 | 6.58 | 8.15 |
| | Koyali | 5.07 | 4.61 | 4.52 | 0.62 | 3.27 |
| | Haldia | 2.38 | 0.85 | 2.84 | 3.98 | 3.75 |
| | Mathura | 0.59 | 0.55 | 2.10 | 1.72 | -6.13 |
| | Panipat | 4.39 | 3.34 | 3.62 | 3.25 | 3.30 |
| | Guwahati | 11.94 | 9.52 | 6.38 | 2.80 | -6.65 |
| | Digboi | 14.85 | 20.81 | 15.41 | 12.42 | 2.47 |
| | Bongaigaon | 6.25 | 5.26 | 6.71 | -3.69 | 5.10 |
| | **Average** | **3.63** | **3.16** | **4.24** | **2.66** | **2.25** |
| **BPCL** | Kochi | 3.20 | 5.36 | 4.80 | 4.20 | 2.75 |
| | Mumbai | 3.12 | 4.67 | 3.95 | 3.91 | 3.91 |
| | **Average** | **3.16** | **4.97** | **4.33** | **4.05** | **3.38** |
| **HPCL** | Mumbai | 1.74 | 2.08 | 5.38 | 5.07 | 3.84 |
| | Visakhapatnam | 2.95 | 2.08 | 1.50 | 0.05 | 0.71 |
| | **Average** | **2.39** | **2.08** | **3.43** | **2.58** | **2.04** |
| **CPCL** | Chennai | 4.16 | 0.99 | 4.06 | 4.31 | 1.88 |
| **MRPL** | Mangalore | 5.60 | 2.45 | 2.67 | 2.94 | 0.66 |
| **NRL** | Numaligarh | 12.45 | 10.52 | 12.09 | 7.56 | 11.84 |
| **BORL** | Bina | - | 7.00 | 7.70 | 6.20 | 4.40 |
| **RIL** | Jamnagar | 8.60 | 9.20 | 8.10 | 8.40 | 8.70 |
| **Essar** | Vadinar | 4.23 | 7.96 | 7.98 | 7.01 | 9.04 |

## 10. GRM of North East Refineries excluding Excise Duty Benefit

$/bbl

| Company | Refinery | 2011-12 | 2012-13 | 2013-14 | Apr-Jun'13 | Apr-Jun'14 |
|---|---|---|---|---|---|---|
| IOCL | Guwahati | 3.73 | 3.43 | 0.88 | -2.95 | -12.01 |
| | Digboi | 6.41 | 13.25 | 8.50 | 4.13 | -4.55 |
| | Bongaigaon | 0.56 | 0.25 | 2.34 | -7.35 | 0.81 |
| NRL | Numaligarh | 5.80 | 4.83 | 6.98 | 0.60 | 7.07 |

## 11. Natural Gas at a Glance

*(MMSCM)*

| | 2013-14 (P) | September | | April-September | |
|---|---|---|---|---|---|
| | | 2013 | 2014 (P) | 2013 | 2014 (P) |
| Gross Production | 35390.91 | 2888.6 | 2716.1 | 17826.2 | 16793.9 |
| Net Production (Excluding Flair Gas) | 34554.64 | 2820.3 | 2641.9 | 17415.1 | 16345.6 |
| **LNG Import** | **14257.0** | **1007** | **1189.9** | **7041.1** | **7805.6** |
| **Total Consumption (Net Production + Import)** | **48811.6** | **3827.3** | **3831.8** | **24456.2** | **24151.2** |
| **Total Consumption (in BCM)** | **48.81** | **3.82** | **3.83** | **24.45** | **24.15** |

*(Reliance import figure is not included)*

| 12. Consumption of Petroleum Products (Million Metric Tonnes) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Products** | **September 2013** | | **September 2014 (P)** | | **Apr-Sept. 2013** | | **Apr-Sept. 2014 (P)** | |
| | **Production** | **Consumption** | **Production** | **Consumption** | **Production** | **Consumption** | **Production** | **Consumption** |
| LPG | 0.6 | 1.3 | 0.8 | 1.6 | 4.7 | 7.7 | 4.5 | 8.6 |
| MS | 2.5 | 1.2 | 2.7 | 1.5 | 15.3 | 8.5 | 15.9 | 9.4 |
| NAPHTHA | 1.5 | 0.9 | 1.5 | 0.8 | 9.4 | 5.7 | 8.9 | 5.6 |
| ATF | 1.0 | 0.4 | 0.9 | 0.5 | 5.5 | 2.7 | 4.9 | 2.8 |
| SKO | 0.6 | 0.6 | 0.7 | 0.6 | 3.7 | 3.6 | 3.9 | 3.5 |
| HSD | 7.6 | 4.9 | 7.7 | 4.9 | 46.9 | 33.8 | 46.1 | 34.3 |
| LDO | 0.3 | 0.0 | 0.4 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 |
| LUBES | 0.6 | 0.2 | 0.8 | 0.2 | 0.5 | 1.4 | 0.4 | 1.4 |
| FO/LSHS | 1.3 | 0.5 | 1.1 | 0.5 | 7.0 | 3.2 | 6.2 | 3.0 |
| BITUMEN | 0.3 | 0.2 | 0.2 | 0.2 | 2.2 | 2.1 | 2.3 | 2.3 |
| OTHERS | 2.7 | 1.6 | 2.4 | 1.5 | 14.7 | 8.8 | 14.3 | 9.3 |
| **ALL INDIA** | **18.4** | **12.0** | **18.1** | **12.3** | **110.1** | **77.6** | **107.7** | **80.3** |
| **Growth (%)** | | | **-1.9%** | **3.0%** | | | **-2.2%** | **3.3%** |

| 13. Self Sufficiency in Petroleum Products (Million Metric Tonnes) | | | | | |
|---|---|---|---|---|---|
| **Details** | **2013-14 (P)** | **September** | | **April-September** | |
| | | **2013** | **2014 (P)** | **2013** | **2014 (P)** |
| 1. Indigenous Crude Oil Processing : | 33.9 | 3.1 | 3.1 | 18.9 | 18.6 |
| **a)** Products from Indigenous Crude *(93.3% of crude oil processed)* | 31.6 | 2.7 | 2.6 | 15.6 | 15.9 |
| **b)** Products from Fractionators (Including LPG and Gas) | 3.8 | 0.3 | 0.3 | 2.0 | 1.8 |
| 2. Total Production from Indigenous Crude & Condensate **(a + b )** | 35.5 | 3.0 | 2.9 | 17.6 | 17.7 |
| 3. Total Domestic Consumption | 158.2 | 12.0 | 12.3 | 77.6 | 80.3 |
| **% Self Sufficiency** (2 / 3) | **22.40%** | **24.9** | **23.6** | **22.7** | **22.1** |

## 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 (as on 1.4.2014)

| Nature of Pipeline | | GAIL | Reliance | GSPCL | AGC | IOCL | ONGC | | Total |
|---|---|---|---|---|---|---|---|---|---|
| **Natural Gas** | Length (KM) | 10841 | 1469 | 1874 | 1000 | 132 | 24 | | **15340** |
| | Cap (MMSCMD) | 243.5 | 80.0 | 50.0 | 6.0 | 9.5 | 6.0 | | **395.0** |

| | | ONGC | OIL | Cairn | HMEL | IOCL | BPCL | HPCL | Other | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Crude Oil** | Length (KM) | 1195 | 1193 | 670 | 1017 | 4448 | 937 | - | - | **9460** |
| | 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** |
| | Cap (MMTPA) | - | 1.7 | - | - | 36.6 | 10.8 | 20.5 | 8.7 | **78.3** |

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

# 16. Information on Prices, Taxes and Under-recoveries

**Sales & profit of Petroleum Sector (Rs. Crores)**

| Apr-Jun 2014 | Turnover | PAT |
|---|---|---|
| Upstream Companies | 37844 | 6255 |
| Downstream Cos. | 250568 | 3785 |
| Standalone Refineries | 31278 | 608 |
| Private/JVs | 132716 | 6641 |

**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.9.48/Ltr |
| Diesel | 2.50% | Rs.3.56/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.) at Delhi**

| | Petrol | Diesel |
|---|---|---|
| Price before taxes and dealer comm. | 44.10 | 43.57 |
| Central taxes | 9.48 | 4.41 |
| State taxes | 11.11 | 6.43 |
| Dealer comm. | 1.96 | 1.19 |
| Retail Selling Price | 66.65 | 55.60 |
| | **PDS SKO** | **Sub. Dom LPG** |
| Price before taxes and dealer comm. | 12.96 | 373.41 |
| Central taxes | 0.00 | 0.00 |
| State taxes | 0.71 | 0.00 |
| Dealer comm. | 1.29 | 40.71 |
| Retail Selling Price | 14.96 | 414.00 |

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

| (Rs. Crores) | Rs.1/$ Ex. Rate | $1/bbl Crude |
|---|---|---|
| Impact on Under-recovery | 7100 | 4500 |

# 16. Information on Prices, Taxes and Under-recoveries

## Under-recoveries & Burden Sharing

| | 2013-14 | Apr-Jun`13 | Apr-Jun`14 |
|---|---|---|---|
| **Per unit under-recovery (Rs./litre/Cyl.)** | | | |
| Diesel | 8.39 | 5.21 | 4.41 |
| PDS SKO | 33.98 | 28.83 | 33.82 |
| Sub. Dom LPG | 499.52 | 378.73 | 470.93 |
| **Total Under-recoveries (Rs. Crores)** | | | |
| Diesel | 62837 | 10554 | 9037 |
| PDS SKO | 30575 | 6507 | 7524 |
| Sub. Dom LPG | 46458 | 8518 | 12129 |
| Total | 139869 | 25579 | 28691 |
| **Burden Sharing (Rs. Crores)** | | | |
| Government | 70772 | 8000 | 11000 |
| Upstream | 67021 | 15304 | 15547 |
| OMCs | 2076 | 2275 | 2144 |
| **Fiscal Subsidy under Govt. Schemes (Rs. Crores** | | | |
| **Fiscal Subsidy under Govt. Schemes (Rs. Crores)** | | | |
| PDS SKO | 681 | 224 | * |
| Sub. Dom LPG | 1920 | 624 | * |

*Scheme was extended till 31.3.2014. Extension yet to be approved.

## International Prices/ Exchange rates ($/bbl)

| | 2012-13 | 2013-14 | Apr-Sept14 |
|---|---|---|---|
| Crude (Indian Basket) | 107.97 | 105.52 | 101.71 |
| Petrol | 118.98 | 114.31 | 112.60 |
| Diesel | 121.97 | 119.41 | 113.03 |
| Kerosene | 123.11 | 118.80 | 113.26 |
| LPG ($/MT) | 885.20 | 880.49 | 797.75 |
| FO ($/MT) | 632.52 | 595.79 | 573.02 |
| Naphtha ($/MT) | 888.49 | 881.30 | 876.12 |
| | | | |
| Exchange (Rs./$ ) | 54.45 | 60.50 | 60.59 |
| **Borrowings of OMCs (Rs. Crores)** | | | |
| IOCL | 80894 | 86263 | 68953 |
| BPCL | 23839 | 20322 | 15173 |
| HPCL | 33789 | 32164 | 24608 |

## Petroleum Sector Contribution to Central/State Govt.

| | 2011-12 | 2012-13 | 2013-14 |
|---|---|---|---|
| Central Government | 119850 | 117422 | 152900 |
| State Government | 112919 | 126516 | 152460 |
| Total (Rs. Crores) | 232769 | 243939 | 305360 |
| **Subsidy as a % of GDP** | | | |
| Petroleum Subsidy | 1.70 | 1.75 | 1.37 |

## 17. 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 |