# Ready Reckoner

## Snapshot of India's Oil & Gas data

## July, 2018

Analysis • Knowledge • Information

**Petroleum Planning & Analysis Cell**

(Ministry of Petroleum & Natural Gas)

As on 20.08.2018

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## Highlights for the month

- Indigenous crude oil and condensate production during July 2018 was lower by 5.4% than that of July 2017. PSC fields registered de-growth of 4.1% during the month over July 2017 while PSU companies registered de-growth of 5.9%. On cumulative basis de-growth of 3.2% was registered during April-July 2018 over the corresponding period of the previous year.
- Total crude oil processed during July 2018 was 22.4 MMT, which was an increase of 9% over July 2017. PSU/JV refineries registered an increase of 14.4% while private refineries registered a marginal increase of 0.2%. On cumulative basis an increase of 6% was registered in the total crude oil processed during April-July 2018 over the corresponding period of the previous year. Refineries processed 77.1% high sulphur crude oil during July 2018 as against 73.1% during July 2017.
- Production of petroleum products during July 2018 saw a growth of 12.4% over July 2017. All products except LDO and fuel oil registered growth in production during this period. On cumulative basis an increase of 8.1% was registered in the total production of petroleum products during April – July 2018 over the corresponding period of the previous year.
- Crude oil imports increased by 12.4% and 7.3% during July 2018 and April-July 2018 respectively as compared to the corresponding period of the previous year due to increase in crude oil processed by the refineries.
- Product imports decreased by 12.3% during July 2018 as compared to July 2017. On cumulative basis product imports decreased by 3.6% during April-July 2018 as compared to the corresponding period of the previous year mainly due to decrease in imports of HSD and petcoke.
- Product exports decreased by 3 % during July 2018 as compared to July 2017. Product exports decreased by 7.7% in April-July 2018 as compared to the corresponding period of the previous year due to decrease in exports of naphtha, MS and fuel oil.
- Petroleum product consumption registered a growth of 7.4% during July, 2018 and a cumulative growth of 4.8% during April-July 2018. Last year during July, 2017, a growth of 1.5% and cumulative growth of 2.8% during the period April-July 2017 was observed. Except for SKO (-7.9%), FO/LSHS (-2.5%) and products in ‘others’ category (-11.6%), all other products registered positive growth during July, 2018.

| | |
|---|---|
| • | Total LPG consumption continuously for the last fifty nine months in a row recorded a positive growth of 6% during July, 2018 and a cumulative growth of 8.7% for the period April to July 2018. This year during the period April to July 2018, 18.2 lakh DBCs and 173 lakh new connections were released out of which 141.7 lakh were released under PMUY. Nearly 57.2 lakh new connections have been released more during the current financial year upto July 2018 as compared to the same period last year. Total 497.7 lakh connections were released under PMUY till 31.07.2018 since inception. Out of the five regions, Northern region had the highest share in consumption of 30.1% followed by Southern region at 29.1%, Western region at 22.5%, Eastern region at 15.9% and North Eastern region at 2.4% during July 2018. North Eastern region had the highest growth of 13.0% in total LPG consumption during July 2018. |
| • | SKO consumption registered a de-growth of -7.9% during July, 2018 as compared to de-growth of -36.8% during July, 2017. This was mainly because of reduced PDS SKO allocation of -14% to the states in Q2, 2018-19 compared to the same period of the previous year and voluntary surrender of PDS SKO quota by Andhra Pradesh, Puducherry Bihar, Gujarat and Rajasthan. Cumulative reduction in PDS SKO allocation was -12.3% during Q1 & Q2, 2018-19 as compared to the same period of the previous year. |
| • | Gross production of natural gas during July 2018 was 2713.5 MMSCM which was lower by 5.1% as compared to the corresponding month of the previous year. The cumulative gross production of natural gas of 10782.4 MMSCM for the current financial year till July 2018 was lower by 1.2% as compared with the corresponding period of the previous year . |
| • | LNG import for the month of July 2018 was 2475.1 MMSCM which was 28.8% higher than the corresponding month of the previous year. The cumulative import of 9445.2 MMSCM for the current year till July 2018 was higher by 20.3% as compared with the corresponding period of the previous year. |
| • | The price of Brent Crude averaged $74.35/bbl during July, 2018 as against $74.33/bbl during June, 2018 and $48.56/bbl during July, 2017. The Indian basket crude price averaged $73.47/bbl during July, 2018 as against $73.83/bbl during June, 2018 and $ 47.86/bbl during July, 2017. |
| • | The import bill of crude oil is estimated to increase by 24% from $88 billion in 2017-18 to $109 billion in 2018-19 considering average Indian basket crude oil price of $65/bbl and exchange rate of $/Rs = 65 for 2018-19. |

## 1. Selected indicators of the Indian economy

| | Economic indicators | Unit/ Base | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 (P) |
|---|---|---|---|---|---|---|---|
| 1 | Population (as on 1st May, 2011) | Billion | 1.2 | - | - | - | - |
| 2 | GDP at constant (2011-12 Prices) | Growth % | 6.4 | 7.4 | 8.2 | 7.1 | 6.7 PE |
| 3 | Agricultural Production (Food grains) | MMT | 265.0 | 252.0 | 251.6 | 275.1 FE | 279.5 3rd AE |
| | | Growth % | 3.1 | -4.9 | -0.2 | 9.4 | 1.6 |
| 4 | Gross Fiscal Deficit | % | -4.5 | -4.1 | -3.9 | -3.5 | -3.5 RE |

| | Economic indicators | Unit/ Base | 2016-17 | 2017-18 (P) | July (P) | | April-July (P) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | 2017-18 | 2018-19 | 2017-18 | 2018-19 |
| 5 | Index of Industrial Production (Base: 2011-12) | Growth % | 4.6 | 4.3 | -0.3# | 7.0# QE | 1.9* | 5.2* |
| 6 | Imports | $ Billion | 384.4 | 465.6 | 34.0 | 43.8 | 146.3 | 171.2 |
| 7 | Exports | $ Billion | 275.9 | 303.4 | 22.5 | 25.8 | 94.8 | 108.2 |
| 8 | Trade Balance | $ Billion | -108.5 | -162.2 | -11.5 | -18.0 | -51.5 | -63.0 |
| 9 | Foreign Exchange Reserves @ | $ Billion | 370.0 | 424.4 | 392.9 | 404.2 | - | - |

IIP is for the month of #June and *April-June; @2016-17-as on March 31, 2017, 2017-18-as on March 30, 2018, July 2017- as on July 28, 2017 and July 2018-as on July 27, 2018; AE-Advanced Estimates; RE-Revised Estimates; PE-Provisional Estimates; FE-Final Estimates; QE-Quick Estimates.

**Source:** Ministry of Commerce & Industry (MoC&I), Ministry of Agriculture & Farmer's Welfare (MoA&FW), Reserve Bank of India (RBI)

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

| | Details | Unit/ Base | 2016-17 | 2017-18 (P) | July (P) | | April-July (P) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | 2017-18 | 2018-19 | 2017-18 | 2018-19 |
| 1 | Crude oil production in India | MMT | 36.0 | 35.7 | 3.1 | 2.9 | 12.1 | 11.7 |
| 2 | Consumption of petroleum products | MMT | 194.6 | 204.9 | 15.9 | 17.1 | 67.5 | 70.7 |
| 3 | Production of petroleum products | MMT | 243.5 | 254.3 | 20.2 | 22.7 | 81.3 | 87.8 |
| 4 | Gross natural gas production | MMSCM | 31897 | 32648 | 2859 | 2714 | 10917 | 10782 |
| 5 | Natural gas consumption | MMSCM | 55534 | 58059 | 4718 | 5127 | 18475 | 19971 |
| 6 | Imports & exports: | | | | | | | |
| | Crude oil imports | MMT | 213.9 | 220.4 | 17.3 | 19.5 | 71.0 | 76.2 |
| | | $ Billion | 70.2 | 87.8 | 5.8 | 10.2 | 24.6 | 39.1 |
| | Petroleum products (POL) imports | MMT | 36.3 | 35.9 | 3.4 | 3.0 | 11.9 | 11.5 |
| | | $ Billion | 10.6 | 13.4 | 1.1 | 1.3 | 3.9 | 5.3 |
| | Gross petroleum imports (Crude + POL) | MMT | 250.2 | 256.3 | 20.7 | 22.4 | 82.9 | 87.7 |
| | | $ Billion | 80.8 | 101.2 | 6.9 | 11.5 | 28.5 | 44.4 |
| | Petroleum products exports | MMT | 65.5 | 66.8 | 5.5 | 5.4 | 20.6 | 19.0 |
| | | $ Billion | 29.0 | 34.9 | 2.5 | 3.5 | 9.6 | 12.6 |
| | LNG imports | MMSCM | 24686 | 26328 | 1922 | 2475 | 7852 | 9445 |
| | | $ Billion | 6.1 | 7.8 | 0.5 | 0.9 | 2.0 | 3.2 |
| 7 | Petroleum imports as percentage of India's gross imports (in value terms) | % | 21.0 | 21.7 | 20.2 | 26.4 | 19.5 | 25.9 |
| 8 | Petroleum exports as percentage of India's gross exports (in value terms) | % | 10.5 | 11.5 | 11.1 | 13.6 | 10.1 | 11.6 |
| 9 | Import dependency of crude (on consumption basis) | % | 81.7 | 82.8 | 80.8 | 82.3 | 82.3 | 83.3 |

## 3. Indigenous crude oil production (Million Metric Tonnes)

| Details | 2016-17 | 2017-18 | July | | | April-July | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2017-18 | 2018-19 (Target)* | 2018-19 (P) | 2017-18 | 2018-19 (Target)* | 2018-19 (P) |
| ONGC | 20.9 | 20.8 | 1.8 | 1.8 | 1.7 | 7.1 | 7.0 | 6.7 |
| Oil India Limited (OIL) | 3.3 | 3.4 | 0.3 | 0.3 | 0.3 | 1.1 | 1.2 | 1.1 |
| Private / Joint Ventures (JVs) | 10.4 | 9.9 | 0.8 | 0.8 | 0.8 | 3.3 | 3.4 | 3.3 |
| **Total Crude Oil** | **34.5** | **34.0** | **2.9** | **3.0** | **2.8** | **11.5** | **11.5** | **11.1** |
| ONGC condensate | 1.4 | 1.5 | 0.1 | 0.1 | 0.1 | 0.5 | 0.4 | 0.5 |
| PSC condensate | 0.1 | 0.2 | 0.01 | 0.02 | 0.02 | 0.06 | 0.06 | 0.08 |
| **Total condensate** | **1.5** | **1.6** | **0.1** | **0.1** | **0.1** | **0.5** | **0.5** | **0.6** |
| **Total (Crude + Condensate) (MMT)** | **36.0** | **35.7** | **3.1** | **3.1** | **2.9** | **12.1** | **12.0** | **11.7** |
| **Total (Crude + Condensate) (Million Bbl)** | **263.9** | **261.6** | **22.4** | **22.7** | **21.2** | **88.6** | **88.2** | **85.8** |

*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 | 2017-18 (P) | July (P) | | April-July (P) | |
|---|---|---|---|---|---|---|
| | | | 2017-18 | 2018-19 | 2017-18 | 2018-19 |
| Total domestic production (MMTOE) | 67.9 | 68.3 | 5.9 | 5.6 | 23.0 | 22.5 |
| Overseas production (MMTOE) | 17.3 | 21.8 | 1.8 | 2.0 | 7.2 | 8.0 |
| **Overseas production as percentage of domestic production** | **25.5%** | **31.9%** | **30.4%** | **35.7%** | **31.3%** | **35.6%** |

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

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

| Details | | 2016-17 | 2017-18 | July | | April-July | |
|---|---|---|---|---|---|---|---|
| | | | | 2017-18 | 2018-19 (P) | 2017-18 | 2018-19 (P) |
| 1 | High Sulphur crude | 177.4 | 188.4 | 15.0 | 17.3 | 59.5 | 66.2 |
| 2 | Low Sulphur crude | 67.9 | 63.6 | 5.5 | 5.1 | 21.9 | 20.2 |
| **Total crude processed** | | **245.4** | **251.9** | **20.6** | **22.4** | **81.5** | **86.4** |
| **Percentage share of HS crude in total crude oil processing** | | **72.3%** | **74.8%** | **73.1%** | **77.1%** | **73.1%** | **76.6%** |

| 6. Quantity and value of crude oil imports | | | |
|---|---|---|---|
| **Year** | **Quantity (MMT)** | **$ Million** | **Rs. Crore** |
| 2017-18 (P) | 220.4 | 87,776 | 5,65,951 |
| 2018-19 (Estimated) | 228.6 | 108,916 | 7,07,957 |

**Note:** Imports are estimated considering average crude oil price at $ 65/bbl and exchange rate of Rs. 65/$ for 2018-19.

Impact of variation in crude oil price & exchange rate on value of crude oil imports for 2018-2019 :

If crude prices changes by one $/bbl - Crude oil import bill changes by Rs. 10,892 crores

If exchange rate of Rs./$ changes by Rs. 1/$ - Crude oil import bill changes by Rs. 10,892 crores

| 7. Self-sufficiency in petroleum products (Million Metric Tonnes) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Particulars** | | **2016-17** | **2017-18 (P)** | **July (P)** | | **April-July (P)** | |
| | | | | **2017-18** | **2018-19** | **2017-18** | **2018-19** |
| 1 | Indigenous crude oil processing | 33.5 | 32.8 | 2.8 | 2.8 | 11.2 | 11.0 |
| 2 | Products from indigenous crude (93.3% of crude oil processed) | 31.3 | 30.6 | 2.6 | 2.6 | 10.5 | 10.3 |
| 3 | Products from fractionators (Including LPG and Gas) | 4.3 | 4.6 | 0.4 | 0.4 | 1.5 | 1.6 |
| 4 | Total production from indigenous crude & condensate **(2 + 3)** | 35.6 | 35.2 | 3.0 | 3.0 | 12.0 | 11.8 |
| 5 | Total domestic consumption | 194.6 | 204.9 | 15.9 | 17.1 | 67.5 | 70.7 |
| **% Self-sufficiency (4 / 5)** | | **18.3%** | **17.2%** | **19.2%** | **17.7%** | **17.7%** | **16.7%** |

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

| Company | Refinery | Installed capacity (1.8.2018) (MMTPA) | Crude oil processing (MMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2016-17 | 2017-18 | July | | | April-July | | |
| | | | | | 2017-18 (Actual) | 2018-19 (Target)* | 2018-19 (P) | 2017-18 (Actual) | 2018-19 (Target)* | 2018-19 (P) |
| IOCL | Barauni (1964) | 6.0 | 6.5 | 5.8 | 0.3 | 0.6 | 0.6 | 1.9 | 2.2 | 2.2 |
| | Koyali (1965) | 13.7 | 14.0 | 13.8 | 0.9 | 1.0 | 1.0 | 4.0 | 4.2 | 4.6 |
| | Haldia (1975) | 7.5 | 7.7 | 7.7 | 0.7 | 0.6 | 0.7 | 2.7 | 2.5 | 2.7 |
| | Mathura (1982) | 8.0 | 9.2 | 9.2 | 0.8 | 0.8 | 0.8 | 3.2 | 3.1 | 3.4 |
| | Panipat (1998) | 15.0 | 15.6 | 15.7 | 1.0 | 1.3 | 1.4 | 5.0 | 5.3 | 5.5 |
| | Guwahati (1962) | 1.0 | 0.86 | 1.02 | 0.09 | 0.08 | 0.09 | 0.32 | 0.32 | 0.36 |
| | Digboi (1901) | 0.65 | 0.53 | 0.67 | 0.06 | 0.06 | 0.06 | 0.22 | 0.21 | 0.23 |
| | Bongaigaon(1979) | 2.35 | 2.5 | 2.4 | 0.2 | 0.2 | 0.2 | 0.8 | 0.7 | 0.8 |
| | Paradip (2016) | 15.0 | 8.2 | 12.7 | 1.3 | 1.2 | 1.3 | 4.6 | 4.4 | 4.1 |
| | **IOCL-TOTAL** | **69.2** | **65.2** | **69.0** | **5.4** | **5.9** | **6.1** | **22.9** | **22.9** | **23.8** |
| CPCL | Manali (1969) | 10.5 | 9.8 | 10.3 | 0.9 | 0.7 | 1.0 | 3.4 | 3.3 | 3.5 |
| | CBR (1993) | 1.0 | 0.53 | 0.50 | 0.04 | 0.04 | 0.03 | 0.17 | 0.15 | 0.14 |
| | **CPCL-TOTAL** | **11.5** | **10.3** | **10.8** | **1.0** | **0.7** | **1.0** | **3.6** | **3.5** | **3.6** |
| BPCL | Mumbai (1955) | 12.0 | 13.5 | 14.1 | 1.2 | 1.1 | 1.3 | 4.3 | 4.5 | 5.0 |
| | Kochi (1966) | 15.5 | 11.8 | 14.1 | 1.2 | 1.4 | 1.4 | 4.4 | 5.3 | 5.4 |
| BORL | Bina (2011) | 6.0 | 6.4 | 6.7 | 0.6 | 0.6 | 0.6 | 2.4 | 2.3 | 2.4 |
| NRL | Numaligarh (1999) | 3.0 | 2.7 | 2.8 | 0.2 | 0.2 | 0.2 | 0.9 | 1.0 | 0.9 |
| | **BPCL-TOTAL** | **36.5** | **34.4** | **37.7** | **3.3** | **3.3** | **3.5** | **12.1** | **13.1** | **13.7** |

| Company | Refinery | Installed capacity (1.8.2018) (MMTPA) | Crude oil processing (MMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2016-17 | 2017-18 | July | | | April-July | | |
| | | | | | 2017-18 (Actual) | 2018-19 (Target)* | 2018-19 (P) | 2017-18 (Actual) | 2018-19 (Target)* | 2018-19 (P) |
| ONGC | Tatipaka (2001) | 0.066 | 0.085 | 0.080 | 0.006 | 0.005 | 0.004 | 0.026 | 0.018 | 0.020 |
| MRPL | Mangalore (1996) | 15.0 | 16.0 | 16.1 | 1.4 | 1.4 | 1.4 | 5.4 | 5.2 | 5.2 |
| | **ONGC-TOTAL** | **15.1** | **16.1** | **16.2** | **1.4** | **1.4** | **1.4** | **5.5** | **5.2** | **5.2** |
| HPCL | Mumbai (1954) | 7.5 | 8.5 | 8.6 | 0.7 | 0.7 | 0.8 | 2.9 | 2.9 | 2.9 |
| | Visakh (1957) | 8.3 | 9.3 | 9.6 | 0.9 | 0.7 | 0.8 | 3.2 | 3.1 | 3.2 |
| HMEL | Bathinda (2012) | 11.3 | 10.5 | 8.8 | 0.2 | 0.9 | 1.0 | 1.0 | 3.6 | 4.2 |
| | **HPCL- TOTAL** | **27.1** | **28.3** | **27.1** | **1.7** | **2.3** | **2.6** | **7.1** | **9.6** | **10.3** |
| RIL | Jamnagar (DTA) (1999) | 33.0 | 32.8 | 33.2 | 2.8 | 2.8 | 2.8 | 10.8 | 10.8 | 11.0 |
| | Jamnagar (SEZ) (2008) | 35.2 | 37.4 | 37.3 | 3.2 | 3.2 | 3.2 | 12.7 | 12.7 | 11.8 |
| NEL# | Vadinar (2006) | 20.0 | 20.9 | 20.7 | 1.8 | 1.4 | 1.8 | 6.9 | 6.4 | 7.0 |
| **All India** | | **247.6** | **245.4** | **251.9** | **20.6** | **21.0** | **22.4** | **81.5** | **84.2** | **86.4** |

*Targets are as received from oil companies. RIL target for 2018-19 is previous year crude processing; #Nayara Energy Limited (formerly Essar Oil Limited). **Note:** Some sub-totals/ totals may not add up due to rounding off at individual levels.

## 9. Major crude oil and product pipeline network (as on 01.08.2018)

| Details | | ONGC | OIL | Cairn | HMEL | IOCL | BPCL | HPCL | Others* | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Crude Oil | Length (KM) | 1,191 | 1,193 | 688 | 1,017 | 5,301 | 937 | - | - | **10327** |
| | Cap (MMTPA) | 58.5 | 8.4 | 10.7 | 11.3 | 48.6 | 6.0 | - | - | **143.5** |
| Products | Length (KM) | - | 654 | - | - | 7,950 | 1,948 | 3,371 | 2,688 | **16611** |
| | Cap (MMTPA) | - | 1.7 | - | - | 46.2 | 16.2 | 38.1 | 9.3 | **111.4** |

***Other** includes GAIL and Petronet India. HPCL and BPCL lubes pipeline included in products pipeline data

| 10. Gross Refining Margins (GRM) of refineries ($/bbl) | | | | | |
|---|---|---|---|---|---|
| **Company** | **Refinery** | **2015-16** | **2016-17** | **2017-18** | **Q1, 2018-19** |
| IOCL | Barauni | 2.93 | 6.52 | 6.60 | 8.78 |
| | Koyali | 6.80 | 7.55 | 9.44 | 9.37 |
| | Haldia | 3.96 | 6.80 | 6.86 | 9.78 |
| | Mathura | 3.30 | 7.01 | 7.09 | 9.03 |
| | Panipat | 4.15 | 7.95 | 7.74 | 10.04 |
| | Guwahati ** | 15.88 | 22.14 | 21.88 | 19.80 |
| | Digboi ** | 16.17 | 24.49 | 24.86 | 27.07 |
| | Bongaigaon ** | 11.09 | 20.15 | 20.62 | 25.37 |
| | Paradip # | -0.65 | 4.22 | 7.02 | 8.69 |
| | **Weighted average** | **5.06** | **7.77** | **8.49** | **10.21** |
| BPCL | Kochi | 6.87 | 5.16 | 6.44 | 6.79 |
| | Mumbai | 6.37 | 5.36 | 7.26 | 8.23 |
| | **Weighted average** | **6.59** | **5.26** | **6.85** | **7.49** |
| HPCL | Mumbai | 8.09 | 6.95 | 8.35 | 6.91 |
| | Visakhapatnam | 5.46 | 5.51 | 6.55 | 7.36 |
| | **Weighted average** | **6.68** | **6.20** | **7.40** | **7.15** |
| CPCL | Chennai | 5.27 | 6.05 | 6.42 | 7.11 |
| MRPL | Mangalore | 5.20 | 7.75 | 7.54 | 8.28 |
| NRL | Numaligarh ** | 23.68 | 28.56 | 31.92 | 30.18 |
| BORL | Bina | 11.70 | 11.80 | 11.70 | 15.00 |
| RIL | Jamnagar | 10.80 | 11.00 | 11.60 | 10.50 |
| NEL@ | Vadinar | 10.81 | 9.14 | 8.95 | * |

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

| 11. GRM of North-East refineries excluding excise duty benefit ($/bbl) | | | | | |
|---|---|---|---|---|---|
| **Company** | **Refinery** | **2015-16** | **2016-17** | **2017-18** | **Q1, 2018-19** |
| IOCL | Guwahati | 1.26 | 1.12 | 3.70 | 3.99 |
| | Digboi | 4.16 | 7.73 | 8.27 | 12.42 |
| | Bongaigaon | 0.08 | 6.03 | 6.22 | 12.38 |
| NRL | Numaligarh | 8.06 | 8.50 | 11.43 | 13.21 |

| 12. Production and consumption of petroleum products (Million Metric Tonnes) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Products** | **2017-18** | | **July 2017** | | **July 2018 (P)** | | **April-July 2017** | | **April-July 2018 (P)** | |
| | **Prod** | **Cons (P)** | **Prod** | **Cons (P)** | **Prod** | **Cons** | **Prod** | **Cons (P)** | **Prod** | **Cons** |
| LPG | 12.4 | 23.3 | 1.0 | 1.9 | 1.1 | 2.0 | 3.8 | 7.3 | 4.2 | 7.9 |
| MS | 37.8 | 26.2 | 3.1 | 2.1 | 3.3 | 2.3 | 12.4 | 8.7 | 13.0 | 9.4 |
| NAPHTHA | 19.9 | 12.5 | 1.5 | 0.7 | 1.7 | 1.1 | 6.6 | 3.7 | 6.3 | 4.3 |
| ATF | 14.7 | 7.6 | 1.2 | 0.6 | 1.4 | 0.7 | 4.6 | 2.4 | 5.2 | 2.7 |
| SKO | 4.3 | 3.8 | 0.3 | 0.3 | 0.4 | 0.3 | 1.4 | 1.4 | 1.4 | 1.2 |
| HSD | 108.0 | 81.1 | 8.6 | 6.3 | 9.6 | 6.6 | 34.4 | 27.6 | 37.4 | 28.6 |
| LDO | 0.5 | 0.5 | 0.04 | 0.04 | 0.03 | 0.04 | 0.1 | 0.1 | 0.1 | 0.2 |
| LUBES | 1.0 | 3.8 | 0.1 | 0.3 | 0.1 | 0.3 | 0.3 | 1.1 | 0.4 | 1.2 |
| FO/LSHS | 10.3 | 6.8 | 1.0 | 0.5 | 1.0 | 0.5 | 3.5 | 2.3 | 3.0 | 2.1 |
| BITUMEN | 5.3 | 6.0 | 0.3 | 0.2 | 0.3 | 0.3 | 1.8 | 1.9 | 2.0 | 2.3 |
| PET COKE | 13.9 | 26.2 | 1.2 | 2.2 | 1.2 | 2.2 | 4.5 | 8.6 | 4.7 | 8.3 |
| OTHERS | 26.4 | 7.1 | 1.9 | 0.6 | 2.7 | 0.6 | 7.7 | 2.4 | 10.0 | 2.5 |
| **ALL INDIA** | **254.3** | **204.9** | **20.2** | **15.9** | **22.7** | **17.1** | **81.3** | **67.5** | **87.8** | **70.7** |
| **Growth (%)** | **4.5%** | **5.3%** | **-2.7%** | **1.5%** | **12.4%** | **7.4%** | **0.6%** | **2.8%** | **8.1%** | **4.8%** |

**Note:** Prod - Production; Cons - Consumption

| 13. LPG consumption (Thousand Metric Tonne) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **LPG category** | **2016-17** | **2017-18 (P)** | **July 2018 (P)** | | | **April-July (P)** | | |
| | | | **2017-18** | **2018-19** | **Gr (%)** | **2017-18** | **2018-19** | **Gr (%)** |
| **1. PSU Sales** : | | | | | | | | |
| LPG-Packed Domestic | 18871.4 | 20,351.8 | 1680.1 | 1791.3 | 6.6 | 6,318.8 | 6,874.7 | 8.8 |
| LPG-Packed Non-Domestic | 1775.9 | 2,085.8 | 161.0 | 181.4 | 12.7 | 614.2 | 727.3 | 18.4 |
| LPG-Bulk | 364.3 | 354.4 | 34.3 | 25.1 | -26.8 | 113.4 | 113.8 | 0.4 |
| Auto LPG | 167.3 | 184.3 | 16.0 | 15.9 | -0.9 | 60.9 | 61.4 | 0.8 |
| **Sub-Total (PSU Sales)** | **21,178.9** | **22,976.4** | **1,891.4** | **2,013.7** | **6.5** | **7,107.3** | **7,777.2** | **9.4** |
| **2. Direct Private Imports** | 429.3 | 367.0 | 35.8 | 28.9 | -19.2 | 152.4 | 111.2 | -27.1 |
| **Total (1+2)** | **21,608.2** | **23,343.3** | **1,927.2** | **2,042.6** | **-12.8** | **7,259.7** | **7,888.4** | **8.7** |

| 14. Kerosene allocation vs upliftment (Kilo Litres) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Product** | **2015-16** | | **2016-17** | | **2017-18** | | **Q1, 2018-19 (P)** | |
| | **Allocation** | **Upliftment** | **Allocation** | **Upliftment** | **Allocation** | **Upliftment** | **Allocation** | **Upliftment** |
| PDS Kerosene | 86,85,384 | 85,36,752 | 69,33,030 | 66,78,447 | 50,21,828 | 46,69,164 | 11,74,808 | 11,04,241 |

| 15. Industry marketing infrastructure (as on 01.08.2018) (Provisional) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Particulars** | **IOCL** | **BPCL** | **HPCL** | **RIL** | **NEL[##]** | **SHELL** | **Others** | **Total** |
| POL Terminal/ Depots **(Nos.)**[$] | 125 | 78 | 83 | 18 | 2 | - | 6 | **312** |
| Aviation Fuel Stations **(Nos.)**[@] | 109 | 52 | 42 | 28 | - | - | 1 | **232** |
| Retail Outlets (total) **(Nos.)**[^] | 27,229 | 14,496 | 15,151 | 1,400 | 4,692 | 114 | 6 | **63,088** |
| out of which, Rural ROs | 7,620 | 2,637 | 3,341 | 127 | 1,677 | 15 | - | **15,417** |
| SKO/LDO agencies **(Nos.)** | 3,892 | 1,001 | 1,638 | - | - | - | - | **6,531** |
| LPG Distributors (total) **(Nos.) (PSUs only)** | 10,486 | 5,284 | 5,084 | - | - | - | - | **20,854** |
| LPG Bottling plants **(Nos.) (PSUs only)**[#] | 91 | 50 | 48 | - | - | - | 1 | **190** |
| LPG Bottling capacity **(TMTPA) (PSUs only)**[&] | 9,434 | 3,933 | 4,047 | - | - | - | 30 | **17,444** |
| LPG active domestic consumers **(Nos. crore) (PSUs only)** | 11.3 | 6.2 | 6.5 | - | - | - | - | **24.0** |

[$](RIL= 5 terminals and 13 mini depots, Others=4 MRPL & 2 NRL); [@](Others=ShellMRPL -1); [^](Others=MRPL-6); [#](Others=NRL-1); [&](Others=NRL-30); [##]Nayara Energy Limited (formerly Essar Oil Limited).

## 16. Natural gas at a glance

(MMSCM)

| Details | 2016-17 | 2017-18 | July 2017-18 | July 2018-19 (Target) | July 2018-19 (P) | April-July 2017-18 | April-July 2018-19 (Target) | April-July 2018-19 (P) |
|---|---|---|---|---|---|---|---|---|
| (a) Gross production | 31,897 | 32,648 | 2,859 | 3,006 | 2,714 | 10,917 | 11,680 | 10,782 |
| - ONGC | 22,088 | 23,429 | 2,055 | 2,192 | 2,045 | 7,784 | 8,453 | 7,951 |
| - Oil India Limited (OIL) | 2,937 | 2,881 | 250 | 271 | 231 | 974 | 1,056 | 900 |
| - Private / Joint Ventures (JVs) | 6,872 | 6,338 | 553 | 543 | 437 | 2,159 | 2,171 | 1,931 |
| (b) Net availability (excluding flare gas and loss) | 30,848 | 31,731 | 2,796 | | 2,652 | 10,623 | | 10,526 |
| (c) LNG import | 24,686 | 26,328 | 1,922 | | 2,475 | 7,852 | | 9,445 |
| (d) Total consumption including internal consumption (b+c) | 55,534 | 58,059 | 4,718 | | 5,127 | 18,475 | | 19,971 |
| (e) Total consumption **(in BCM)** | 55.5 | 58.1 | 4.7 | | 5.1 | 18.5 | | 20.0 |
| (f) Import dependency based on consumption (%), {c/d*100} | 44.5 | 45.3 | 40.7 | | 48.3 | 42.5 | | 47.3 |

**Note:** Some sub-totals/ totals may not add-up due to rounding off at individual levels.

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

| | | | |
|---|---|---|---|
| Prognosticated CBM resources | | 92 | TCF |
| Established CBM resources | | 9.9 | TCF |
| Total available coal bearing areas | | 26,000 | Sq. KM |
| Exploration initiated | | 16,613 | Sq. KM |
| Blocks awarded | | 33 | Nos. |
| Production of CBM gas | July 2018 (P) | 57.7 | MMSCM |
| Production of CBM gas | April-July 2018 (P) | 241.4 | MMSCM |

| 18. Major natural gas pipeline network as on 01.08.2018 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Nature of pipeline** | | **GAIL** | **Reliance** | **GSPL** | **ARN** | **IOCL** | **Total** |
| **Natural gas** | Length (KM) | 11,410 | 1,784 | 2,620 | 817 | 140 | **16,771** |
| | Cap (MMSCMD)* | 229.5 | 83.5 | 43.0 | 3 | 9.5 | **368.7** |

*GAIL's pipeline capacity is inclusive of CJPL (5 MMSCMD) and DBPL (31 MMSCMD) which is the extension of DVPL-2 / VDPL.

| 19. Gas pipelines under execution / construction as on 01.08.2018 | | | | |
|---|---|---|---|---|
| **Network/ Region** | **Entity** | **Length sanctioned (KM)** | **Design capacity (MMSCMD)** | **Pipeline size** |
| Kochi-Kottanad-Bengaluru-Mangalore | GAIL (India) Ltd | 1,056 | 16 | 24"/18"/12" |
| Dabhol - Bengaluru (DBPL) | GAIL (India) Ltd | 302 | 16 | 36"/30"/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. | 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** | | **11,377** | | |

| 20. Existing LNG terminals | | | |
|---|---|---|---|
| **Location** | **Promoters** | **Capacity (MMTPA) as on 01.07.2018** | **Capacity utilisation in % April-June 2018 (P)** |
| Dahej | Petronet LNG Ltd (PLL) | 15 MMTPA | 110.2 |
| Hazira | Hazira LNG Pvt Ltd (HLPL) | 5 MMTPA | 94.4 |
| Dabhol | RGPPL (GAIL - NTPC JV) | 1.692 MMTPA* | 3.6 |
| Kochi | Petronet LNG Ltd (PLL) | 5 MMTPA | 9.8 |
| **Total Capacity** | | **26.7 MMTPA** | |

* To increase to 5 MMTPA with breakwater

| 21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.08.2018 | | | | | | | |
|---|---|---|---|---|---|---|---|
| State | Entity operating | Geographical area/City | CNG stations | No. of CNG vehicles | PNG connections | | |
| | | | | | Domestic | Commercial | Industrial |
| **Andhra Pradesh** | Bhagyanagar Gas Ltd, Godavari Gas Pvt.Ltd., Megha Engineering & Infrastructures Ltd. | Kakinada, Vijayawada, East/ West Godavari, Krishna | 25 | 18,360 | 19,946 | 56 | 1 |
| **Assam** | Assam Gas Co. Ltd | Tinsukia, Dibrugarh, Sibsagar, Jorhat, Golaghat | 0 | 0 | 31,903 | 1,053 | 411 |
| **Chandigarh** | IndianOil- Adani Gas | Chandigarh | 4 | 4,500 | 42,122 | 0 | 0 |
| **Dadra & Nagar Haveli** | Gujarat Gas Ltd. | Dadra & Nagar Haveli | 3 | 843 | 1,032 | 9 | 10 |
| **Daman and Diu** | Indian Oil- Adani Gas | Daman and Diu | 2 | 750 | 2,713 | 20 | 7 |
| **Delhi** | Indraprastha Gas Ltd . | NCT of Delhi (Including Noida & Ghaziabad) | 447 | 10,43,639 | 9,36,802 | 2,277 | 1,330 |
| **Gujarat** | Sabarmati Gas Ltd, Gujarat Gas Ltd, Adani Gas Ltd, Vadodara Gas Ltd, Hindustan Petroleum Corporation Ltd, Charotar Gas Sahakari Mandal Ltd, IRM Energy Ltd. | Gandhinagar, Mehsana, Sabarkantha and Patan, Surat-Bharuch-Ankleswar GA, Nadiad GA,Navsari GA, Rajkot GA, Surendra Nagar GA, Hazira GA, Valsad GA, Jamnagar GA, Bhavnagar GA, Kutch (West) GA, UT of Dadra and Nagar Haveli GA, Amreli District GA, Dahej-Vagra Taluka GA, Dahod District GA, Panchmahal District GA, Anand (Exclusive area authorised) district GA, Ahmedabad (Excluding area already authorised) district GA, Vadodara, Vadodara Rural and Ahmedabad Urban, Anand and Palanpur | 463 | 9,47,869 | 19,07,663 | 18,098 | 4,648 |

| 21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.08.2018 | | | | | | | |
|---|---|---|---|---|---|---|---|
| State | Entity operating | Geographical area/City | CNG stations | No. of CNG vehicles | PNG connections | | |
| | | | | | Domestic | Commercial | Industrial |
| **Haryana** | Haryana City Gas Distribution Ltd, Adani Gas Limited, GAIL Gas Ltd., Indraprastha Gas Ltd. , Indian Oil-Adani Gas Pvt. Ltd. | Sonepat, Faridabad, Gurgaon, Rewari, Panipat | 52 | 1,26,877 | 84,675 | 251 | 386 |
| **Karnataka** | Gail Gas Ltd., Megha Engineering & Infrastructures Ltd. | Bengaluru, Tumkur, Belgaum | 9 | 492 | 7,232 | 72 | 34 |
| **Kerala** | Indian Oil- Adani Gas | Ernakulam | 4 | 250 | 11172 | 3 | 0 |
| **Madhya Pradesh** | Aavantika Gas Ltd, GAIL Gas Ltd | Dewas, Vijaipur, Indore including Ujjain, Gwalior, Pithampur | 31 | 30,837 | 34,771 | 104 | 139 |
| **Maharashtra** | Mahanagar Gas Ltd, Maharashtra Natural Gas Ltd, Gujarat Gas Limited | Mumbai, Greater Mumbai including Thane City, Mira Bhayender, Navi Mumbai, Ambernath, Bhiwandi, Kalyan, Dombivli, Badlapur, Ulhasnagar, Panvel, Kharghar & Taloja, Pune City including Pimpri Chinchwad along with adjoining contiguous areas of Hinjewadi, Chakan & Talegaon GA, Raigarh District and Palghar and Thane Rural | 272 | 8,38,178 | 12,73,606 | 3,858 | 235 |
| **Odisha** | GAIL (India) Ltd. | Bhubaneswar | 4 | 1,106 | 117 | 0 | 0 |
| **Punjab** | IRM Energy Pvt. Ltd. | Fatehgarh Sahib | 1 | 184 | 60 | 0 | 4 |

## 21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.08.2018

| State | Entity operating | Geographical area/City | CNG stations | No. of CNG vehicles | PNG connections | | |
|---|---|---|---|---|---|---|---|
| | | | | | Domestic | Commercial | Industrial |
| **Rajasthan** | Rajasthan State Gas Limited | Kota, Neemrana & Kukas | 5 | 7,376 | 617 | 4 | 15 |
| **Telangana** | Bhagyanagar Gas Ltd. | Hyderabad | 33 | 24,518 | 8,068 | 9 | 9 |
| **Tripura** | Tripura Natural Gas Co. Ltd | Agartala | 6 | 10,902 | 35,946 | 415 | 49 |
| **Uttar Pradesh** | GAIL Gas Ltd, Sanwariya Gas Ltd, Green Gas Ltd, Central U.P. Gas Ltd, Siti Energy Ltd, Adani Gas Ltd, Indian Oil-Adani Gas Pvt. Ltd. | Meerut, Dibiyapur, Mathura, Agra, Kanpur, Bareilly, Lucknow, Moradabad, Firozabad Geographical Area (TTZ), Khurja and Allahabad | 89 | 1,41,763 | 1,26,738 | 399 | 650 |
| **Uttarakhand** | Indian Oil-Adani Gas Pvt. Ltd. | Udham Singh Nagar | 1 | 0 | 1,670 | 0 | 0 |
| **West Bengal** | Great Eastern Energy Corporation Ltd. | Kultora, Asansol, Raniganj, Durgapur | 7 | 3,553 | 0 | 0 | 0 |
| **Total** | | | **1,458** | **32,01,997** | **45,26,853** | **26,628** | **7,928** |

## 22. Domestic natural gas price and gas price ceiling (GCV basis)

| Period | Domestic Natural Gas price in US$/MMBTU | Gas price ceiling in US$/MMBTU |
|---|---|---|
| November 2014 - March 2015 | 5.05 | - |
| April 2015 - September 2015 | 4.66 | - |
| October 2015 - March 2016 | 3.82 | - |
| April 2016 - September 2016 | 3.06 | 6.61 |
| October 2016 - March 2017 | 2.50 | 5.30 |
| April 2017 - September 2017 | 2.48 | 5.56 |
| October 2017 - March 2018 | 2.89 | 6.30 |
| April 2018 - September 2018 | 3.06 | 6.78 |

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

## International FOB prices/ Exchange rates ($/bbl)

| Particulars | 2016-17 | 2017-18 | Apr-Jul'18 |
|---|---|---|---|
| Crude oil (Indian Basket) | 47.56 | 56.43 | 72.93 |
| Petrol | 58.10 | 67.83 | 81.59 |
| Diesel | 56.59 | 68.19 | 85.33 |
| Kerosene | 56.81 | 67.65 | 85.63 |
| LPG ($/MT) | 393.17 | 485.92 | 524.75 |
| FO ($/MT) | 258.92 | 327.50 | 426.55 |
| Naphtha ($/MT) | 415.17 | 494.73 | 620.60 |
| Exchange (Rs./$) | 67.09 | 64.45 | 67.47 |

## Customs, excise duty & GST rates (w.e.f. 02.02.2018)

| 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 | Not Applicable | 5.00% |
| Non-PDS SKO | 5.00% | | 18.00% |
| Domestic LPG | Nil*** | | 5.00% |
| Non Domestic LPG | 5.00% | | 18.00% |
| Furnace Oil (Non-Fert) | 5.00% | | 18.00% |
| Naphtha (Non-Fert) | 5.00% | | 18.00% |
| ATF | Nil | 14% * | ** |
| Crude Oil | Nil+Rs.50/ -MT as NCCD | Nil+Cess@ 20% +Rs.50 /-MT NCCD | ** |

*2% for scheduled commuter airlines from regional connectivity scheme airports; ** Crude oil, Petrol, Diesel, ATF and Natural Gas are outside GST levy; # Social welfare surcharge @ 3% on petrol and diesel and 10% on other products is levied on aggregate duties of Customs excluding CVD in liue of IGST.*** Customs duty is Nil for import of Domestic LPG sold to household consumers (including NDEC) by PSU OMCs. Customs duty rate is 5% for other importers of

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

| Particulars | Petrol* | Diesel* |
|---|---|---|
| Price charged to dealers (excluding Excise Duty and VAT) | 37.93 | 41.04 |
| Excise Duty | 19.48 | 15.33 |
| Dealer Commission (Average) | 3.61 | 2.51 |
| VAT (incl VAT on dealer commission) | 16.47 | 10.16 |
| **Retail selling price (RSP) -Rounded** | **77.49** | **69.04** |
| **Particulars** | **PDS SKO*** | **Sub. Dom LPG*** |
| Price before taxes and dealer/distributor commission | 23.05 | 702.59 |
| Dealer/distributor commission | 2.03 | 49.31 |
| GST (incl GST on dealer/distributor commission) | 1.25 | 37.60 |
| **Retail Selling Price** | **26.34** | **789.50** |
| Less: Cash Compensation on LPG to consumers under DBTL | | 291.48 |
| **Effective cost to consumer after subsidy** | | **498.02** |

*Petrol and diesel at Delhi as per IOCL are as on 20th August, 2018. SKO at Mumbai is as on 16th August, 2018 and Sub. Dom LPG at Delhi is as on 1st August, 2018.

## Impact of changes in product price by $1 per bbl for PDS SKO and $10/MT for Domestic LPG & change in exchange rate by ₹1 per $

| Product | Impact of change in product price by $1per bbl / $10per MT | | Impact of change in exchange rate by ₹ 1/$ | |
|---|---|---|---|---|
| | Per unit impact (₹/lit./cyl.) | Annualised financial impact (₹crore) | Per unit impact (₹/lit./cyl.) | Annualised financial impact (₹crore) |
| PDS SKO | 0.43 | 180 | 0.55 | 240 |
| Domestic LPG | 9.85 | 1320 | 8.04 | 1,080 |
| **Total** | - | **1,500** | - | **1,320** |

Note: The above calculations are based on RTP for August, 2018

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

## Under-recoveries/subsidy & burden sharing

### PDS Kerosene

| Product | 2016-17 | 2017-18 | Q1, 2018-19 |
|---|---|---|---|
| | Rs./Crore | | |
| Under Recovery | 7,595 | 4,672 | 1,660 |
| Subsidy under DBTK # | 11 | 113 | 0 |
| **Total** | **7,605** | **4,785** | **1,660** |

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

### Domestic LPG under DBTL (Direct benefit transfer for LPG)

| Particulars | 2016-17 | 2017-18 | Q1, 2018-19 |
|---|---|---|---|
| | Rs./Crore | | |
| DBTL subsidy | 12,905 | 20,880 | 5,026 |
| PME &IEC^ | - | 25 | 92 |
| **Total** | **12,905** | **20,905** | **5,118** |

### PMUY (Pradhan Mantri Ujjwala Yojana)

| Particulars | 2016-17 | 2017-18 | Q1, 2018-19 |
|---|---|---|---|
| | Rs./Crore | | |
| PMUY claims | 2,999 | 2,496 | 1,372 |
| PME & IEC^ | - | 63 | 34 |
| **Total** | **2,999** | **2,559** | **1,406** |

^ on payment basis

## Sales & profit of petroleum sector (Rs. Crores)

| Particulars | 2017-18 | | Q1, 2018-19 | |
|---|---|---|---|---|
| | Turnover | PAT | Turnover | PAT |
| Upstream/midstream Companies (PSU) | 1,48,473 | 27,231 | 47,693 | 8,106 |
| Downstream Companies (PSU) | 10,17,028 | 35,622 | 3,03,769 | 10,844 |
| Standalone Refineries (PSU) | 1,20,430 | 5,181 | 29,456 | 1,008 |
| Private-RIL | 3,15,357 | 33,612 | 99,318 | 8,820 |

### Borrowings of OMCs (Rs. Crores), As on

| Company | Mar`16* | Mar`17 | Mar`18 |
|---|---|---|---|
| IOCL | 54,820 | 58,030 | 44,797 |
| BPCL | 23,159 | 23,351 | 19,683 |
| HPCL | 21,250 | 20,991 | 14,842 |

*Regrouped as per Ind AS

### Petroleum sector contribution to Central/State Govt.

| Particulars | 2015-16 | 2016-17 | 2017-18 (P) |
|---|---|---|---|
| Central Government | 2,53,615 | 3,34,534 | 3,43,858 |
| % of total revenue receipts | 21% | 24% | - |
| State Governments | 160209 | 189770 | 2,09,155 |
| % of total revenue receipts | 8% | 8% | - |
| **Total (Rs. Crores)** | **4,13,824** | **5,24,304** | **5,53,013** |

### Subsidy as a percentage of GDP (at current prices)

| Particulars | 2014-15 | 2015-16 | 2016-17 |
|---|---|---|---|
| Petroleum subsidy | 0.62 | 0.25 | 0.18 |

**Note:** GDP figure for 2014-15 and 2015-16 are Revised Estimates and 2016-17 are Provisional Estimates

## 24. Capital expenditure of PSU oil companies

(Rs in crores)

| Company | 2015-16 (P) | 2016-17 (P) | 2017-18 (P) | 2018-19 | |
|---|---|---|---|---|---|
| | | | | Target | April-July (P) |
| ONGC Ltd | 29,502 | 28,010 | 72,383 | 32,077 | 8,407 |
| ONGC Videsh Ltd (OVL) | 6,783 | 18,360 | 6,240 | 5,886 | 1,325 |
| Oil India Ltd (OIL) | 3,550 | 10,514 | 8,395 | 4,300 | 972 |
| GAIL (India) Ltd | 1,880 | 2,180 | 3,613 | 4,722 | 1,320 |
| Indian Oil Corp. Ltd. (IOCL) | 14,368 | 21,918 | 20,345 | 22,862 | 8,064 |
| Hindustan Petroleum Corp. Ltd (HPCL) | 5,459 | 5,861 | 7,134 | 8,425 | 2,047 |
| Bharat Petroleum Corp. Ltd (BPCL) | 10,926 | 16,810 | 8,161 | 7,400 | 3,051 |
| Mangalore Refinery & Petrochem Ltd (MRPL) | 1,550 | 614 | 1,281 | 744 | 202 |
| Chennai Petroleum Corp. Ltd (CPCL) | 1,318 | 1,293 | 963 | 1,010 | 314 |
| Numaligarh Refinery Ltd (NRL) | 237 | 500 | 387 | 428 | 101 |
| Balmer Lawrie Co. Ltd (BL) | 38 | 73 | 78 | 125 | 20 |
| Engineers India Ltd (EIL) # | - | - | - | 1356 | 34 |
| **Total** | **75,611** | **106,133** | **128,981** | **89,335** | **25,858** |

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

# Included from 2018-19.

# 25. Conversion factors and volume conversion

## Weight to volume conversion

| Product | Weight (MT) | Volume (KL) | Barrel (bbl) |
|---|---|---|---|
| LPG | 1 | 1.844 | 11.60 |
| Petrol (MS) | 1 | 1.411 | 8.88 |
| Diesel (HSD) | 1 | 1.210 | 7.61 |
| Kerosene (SKO) | 1 | 1.285 | 8.08 |
| ATF | 1 | 1.288 | 8.10 |
| Light Diesel Oil (LDO) | 1 | 1.172 | 7.37 |
| Furnace Oil (FO) | 1 | 1.071 | 6.74 |
| Crude Oil | 1 | 1.170 | 7.33 |

## Exclusive Economic Zone

| | |
|---|---|
| 200 Nautical Miles | 370.4 Kilometers |

## Volume conversion

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

## Energy conversion

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

## Natural gas conversions

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