

Ready Reckoner

Snapshot of India's Oil & Gas data

May, 2019



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

As on 20.06.2019

Index of Tables

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

Highlights for the month

- Indigenous crude oil and condensate production during May 2019 was lower by 6.9% than that of May 2018. OIL, ONGC and PSC fields registered lower production of 3.9%, 4.4% and 13.1% respectively during May 2019 as compared to May 2018. On cumulative basis indigenous crude oil and condensate production of the country was lower by 6.8% during April - May 2019 as compared to the corresponding period of the previous year.
- Total crude oil processed during May 2019 was 21.6 MMT, which was 3% lower than May 2018. However, on cumulative basis total crude oil processed was marginally higher (0.4%) during April - May 2019 as compared to the corresponding period of the previous year. Indian refineries processed 74.2% high sulphur crude during May 2019 as compared to 76.2% during May 2018.
- Production of petroleum products during May 2019 saw a de-growth of 1.5% over May 2018. However, on cumulative basis production of petroleum products was higher by 1.3% during April - May 2019 as compared to the corresponding period of the previous year.
- Crude oil imports decreased by 4.2% during May 2019 and increased by 4.3% during April - May 2019 as compared to the same period of the previous year.
- POL products imports increased by 7.7% and 4.2% during May 2019 and April - May 2019 respectively as compared to the same period of the previous year. Increase in POL products imports during April - May 2019 was due to increase in imports of LPG, MS, ATF, HSD and LOBS/Lube oil.
- Exports of POL products increased by 19.6% and 17.7% during May 2019 and April - May 2019 respectively as compared to the same period of the previous year. Increase in POL products exports during April - May 2019 was due to increase in exports of all POL products except ATF and VGO.
- Petroleum product consumption registered a marginal growth of 0.04% in May 2019. Except for SKO (-5.3%), lubes & greases (-5.5%), FO/LSHS (-4.5%), bitumen (-8.4%) and petcoke (-30%), all other products registered a growth during May 2019.

| |
|--|
| <ul style="list-style-type: none"> Total LPG consumption registered a growth of 0.4% in May 2019 as compared to 14.5% growth in May 2018. Out of the five regions, Northern region had the highest share in total LPG consumption of 32% followed by Southern region at 27.7%, Western region at 21.4%, Eastern region at 16.1% and North Eastern region at 2.9%. North Eastern region had the highest growth of 5.2% in total LPG consumption during May 2019. |
| <ul style="list-style-type: none"> SKO consumption registered de-growth of 5.3 % in May 2019 as compared to 19.8% de-growth in May 2018. This was mainly because of reduced Q1, 2019-20 PDS SKO allocation to the states and voluntary surrender of some of the allocation by the states. |
| <ul style="list-style-type: none"> Gross production of natural gas for the month of May 2019 was 2739 MMSCM which was higher by 0.4% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 5395 MMSCM for the period April-May 2019 was higher by 0.1% as compared with the corresponding period of the previous year. |
| <ul style="list-style-type: none"> LNG import during May 2019 was 2522 MMSCM which was 4.4 % higher than the corresponding month of the previous year. The cumulative import of 5153 MMSCM for the current year till May 2019 was higher by 5.62% as compared with the corresponding period of the previous year. |
| <ul style="list-style-type: none"> The price of Brent Crude averaged \$71.12/bbl during May 2019 as against \$71.26/bbl during April 2019 and \$/76.93bbl during May 2018. The Indian basket crude price averaged \$70.02/bbl during May 2019 as against \$71.00/bbl during April 2019 and \$75.25 /bbl during May 2018. |

1. Selected indicators of the Indian economy

| Economic indicators | | Unit/ Base | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|---------------------|--|------------|---------|---------|---------------------------|---------------------------|---------------------------|-----------------------------|
| 1 | Population (as on 1 st May, 2011) | Billion | 1.2 | - | - | - | - | - |
| 2 | GDP at constant (2011-12 Prices) | Growth % | 6.4 | 7.4 | 8.0 3 rd RE | 8.2 2 nd RE | 7.2 1 st RE | 6.8 PE |
| 3 | Agricultural Production (Food grains) | MMT | 265.1 | 252.0 | 251.5 | 275.1 | 285.0 FE | 283.4 3 rd AE |
| | | Growth % | 3.1 | -4.9 | -0.2 | 9.4 | 3.6 | -0.6 |
| 4 | Gross Fiscal Deficit | % | -4.5 | -4.1 | -3.9 | -3.5 | -3.5 | -3.4 RE |

| Economic indicators | | Unit/ Base | 2017-18 | 2018-19 (P) | May (P) | | April-May (P) | |
|---------------------|--|------------|---------|-------------|---------|------------|---------------|---------|
| | | | | | 2018-19 | 2019-20 | 2018-19 | 2019-20 |
| 5 | Index of Industrial Production (Base: 2011-12) | Growth % | 4.4 | 3.6 | 4.5* | 3.4* QE | - | - |
| 6 | Imports | \$ Billion | 465.6 | 507.4 | 43.5 | 45.4 | 83.1 | 86.8 |
| 7 | Exports | \$ Billion | 303.5 | 331.0 | 28.9 | 30.0 | 54.8 | 56.1 |
| 8 | Trade Balance | \$ Billion | -162.1 | -176.4 | -14.6 | -15.4 | -28.3 | -30.7 |
| 9 | Foreign Exchange Reserves [@] | \$ Billion | 424.4 | 411.9 | 412.8 | 421.9 | - | - |

IIP is for the month of *April; [@]2017-18-as on March 30, 2018, 2018-19-as on March 29, 2019, May 2018- as on May 25, 2018 and May 2019- as on May 31, 2019; AE-Advanced Estimates; RE-Revised Estimates; QE-Quick Estimates; FE: Final Estimates; PE: Provisional Estimates.

Source: Ministry of Commerce & Industry, Ministry of Agriculture & Farmer's Welfare, Reserve Bank of India

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

| Details | | Unit/ Base | 2017-18 | 2018-19 (P) | May (P) | | April-May (P) | |
|--|---|------------|---------|----------------|---------|---------|---------------|---------|
| | | | | | 2018-19 | 2019-20 | 2018-19 | 2019-20 |
| 1 | Crude oil production in India | MMT | 35.7 | 34.2 | 3.0 | 2.8 | 5.9 | 5.5 |
| 2 | Consumption of petroleum products | MMT | 206.2 | 211.6 | 18.6 | 18.6 | 36.4 | 36.3 |
| 3 | Production of petroleum products | MMT | 254.3 | 262.4 | 22.3 | 21.9 | 42.5 | 43.0 |
| 4 | Gross natural gas production | MMSCM | 32,648 | 32,874 | 2,728 | 2,739 | 5,391 | 5,395 |
| 5 | Natural gas consumption | MMSCM | 59,170 | 60,748 | 5,078 | 5,184 | 10,139 | 10,394 |
| 6 | Imports & exports: | | | | | | | |
| Crude oil imports | | MMT | 220.4 | 226.6 | 20.0 | 19.1 | 37.2 | 38.9 |
| | | \$ Billion | 87.8 | 112.0 | 10.2 | 9.7 | 18.5 | 19.5 |
| Petroleum products (POL) imports | | MMT | 35.5 | 32.5 | 2.6 | 2.8 | 5.6 | 5.8 |
| | | \$ Billion | 13.6 | 16.2 | 1.3 | 1.4 | 2.6 | 2.9 |
| Gross petroleum imports (Crude + POL) | | MMT | 255.9 | 259.2 | 22.6 | 22.0 | 42.8 | 44.7 |
| | | \$ Billion | 101.4 | 128.2 | 11.5 | 11.1 | 21.1 | 22.4 |
| Petroleum products exports | | MMT | 66.8 | 61.1 | 4.5 | 5.4 | 8.4 | 9.8 |
| | | \$ Billion | 34.9 | 38.2 | 3.1 | 3.3 | 5.6 | 6.1 |
| LNG imports | | MMSCM | 27,439 | 28,692 | 2,416 | 2,522 | 4,877 | 5,153 |
| | | \$ Billion | 8.1 | 10.3 | 0.8 | 0.7 | 1.6 | 1.5 |
| 7 | Petroleum imports as percentage of India's gross imports (in value terms) | % | 21.8 | 25.3 | 26.5 | 24.4 | 25.4 | 25.8 |
| 8 | Petroleum exports as percentage of India's gross exports (in value terms) | % | 11.5 | 11.6 | 10.8 | 10.9 | 10.2 | 10.8 |
| 9 | Import dependency of crude (on consumption basis) | % | 82.9 | 83.7 | 83.8 | 84.9 | 83.8 | 85.8 |

April -May 2019 private import (POL) quantity is prorated on the basis of April 2018-March 2019 actual data provided by DGCIS.

Note: Crude oil imports (\$ Billion) during 2018-19 does not include value of crude oil quantity of 0.8 MMT imported at ISPRL, Mangalore.

3. Indigenous crude oil production (Million Metric Tonnes)

| Details | 2017-18 | 2018-19 (P) | May | | | April-May | | |
|--|-------------|----------------|----------------|----------------------|----------------|----------------|----------------------|----------------|
| | | | 2018-19 (P) | 2019-20 (Target)* | 2019-20 (P) | 2018-19 (P) | 2019-20 (Target)* | 2019-20 (P) |
| ONGC | 20.8 | 19.6 | 1.7 | 1.8 | 1.6 | 3.4 | 3.5 | 3.2 |
| Oil India Limited (OIL) | 3.4 | 3.3 | 0.3 | 0.3 | 0.3 | 0.6 | 0.6 | 0.5 |
| Private / Joint Ventures (JVs) | 9.9 | 9.6 | 0.9 | 0.8 | 0.8 | 1.7 | 1.6 | 1.5 |
| Total Crude Oil | 34.0 | 32.5 | 2.9 | 2.9 | 2.7 | 5.6 | 5.6 | 5.2 |
| ONGC condensate | 1.5 | 1.5 | 0.1 | | 0.1 | 0.3 | | 0.2 |
| PSC condensate | 0.2 | 0.2 | 0.02 | | 0.02 | 0.04 | | 0.04 |
| Total condensate | 1.6 | 1.7 | 0.1 | | 0.1 | 0.3 | | 0.3 |
| Total (Crude + Condensate) (MMT) | 35.7 | 34.2 | 3.0 | 2.9 | 2.8 | 5.9 | 5.6 | 5.5 |
| Total (Crude + Condensate) (Million Bbl) | 261.6 | 250.7 | 22.0 | 21.2 | 20.5 | 43.4 | 41.2 | 40.5 |

*Target is inclusive of condensate. Targets as provided by OIL, ONGC and DGH as MOP&NG targets are not finalised.

4. Domestic oil & gas production vis-à-vis overseas production

| Details | 2017-18 | 2018-19 (P) | May (P) | | April-May (P) | |
|---|--------------|----------------|--------------|--------------|---------------|--------------|
| | | | 2018-19 | 2019-20 | 2018-19 | 2019-20 |
| Total domestic production (MMTOE) | 68.3 | 67.1 | 5.7 | 5.5 | 11.3 | 10.9 |
| Overseas production (MMTOE) | 22.7 | 24.7 | 2.1 | 2.1 | 4.2 | 4.2 |
| Overseas production as percentage of domestic production | 33.2% | 36.8% | 36.0% | 38.3% | 36.8% | 38.3% |

Source: ONGC Videsh, GAIL, OIL, IOCL, HPCL & BPRL; Note: IOCL data for 2017-18 revised.

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

| Details | | 2017-18 | 2018-19 (P) | May (P) | | April-May (P) | |
|---|--------------------|--------------|----------------|--------------|--------------|---------------|--------------|
| | | | | 2018-19 | 2019-20 | 2018-19 | 2019-20 |
| 1 | High Sulphur crude | 188.4 | 194.0 | 16.9 | 16.0 | 31.6 | 32.0 |
| 2 | Low Sulphur crude | 63.6 | 63.3 | 5.3 | 5.6 | 10.5 | 10.3 |
| Total crude processed | | 251.9 | 257.2 | 22.2 | 21.6 | 42.1 | 42.3 |
| Percentage share of HS crude in total crude oil processing | | 74.8% | 75.4% | 76.2% | 74.2% | 75.1% | 75.6% |

6. Quantity and value of crude oil imports

| Year | Quantity (MMT) | \$ Million | Rs. Crore |
|---------------------|----------------|------------|-----------|
| 2018-19 (P) | 226.6 | 111,956 | 7,83,427 |
| 2019-20 (Estimated) | 233.0 | 112,721 | 8,00,317 |

Note: 2019-20 Imports are estimated at average price of Indian basket crude oil \$66/bbl and average exchange rate for Rs.71/\$.

Impact of variation in crude oil price & exchange rate on value of crude oil imports for April 2019 - March 2020 :

If crude prices changes by one \$/bbl - Crude oil import bill changes by Rs. 12,126 crores

If exchange rate of Rs./\$ changes by Rs. 1/\$ - Crude oil import bill changes by Rs. 11,272 crores

7. Self-sufficiency in petroleum products (Million Metric Tonnes)

| Particulars | | 2017-18 | 2018-19 (P) | May (P) | | April-May (P) | |
|-----------------------------------|---|--------------|----------------|--------------|--------------|---------------|--------------|
| | | | | 2018-19 | 2019-20 | 2018-19 | 2019-20 |
| 1 | Indigenous crude oil processing | 32.8 | 31.7 | 2.8 | 2.6 | 5.5 | 4.6 |
| 2 | Products from indigenous crude (93.3% of crude oil processed) | 30.6 | 29.6 | 2.6 | 2.4 | 5.1 | 4.3 |
| 3 | Products from fractionators (Including LPG and Gas) | 4.6 | 4.9 | 0.4 | 0.4 | 0.8 | 0.8 |
| 4 | Total production from indigenous crude & condensate (2 + 3) | 35.2 | 34.5 | 3.0 | 2.8 | 5.9 | 5.2 |
| 5 | Total domestic consumption | 206.2 | 211.6 | 18.6 | 18.6 | 36.4 | 36.3 |
| % Self-sufficiency (4 / 5) | | 17.1% | 16.3% | 16.2% | 15.1% | 16.2% | 14.2% |

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

| Company | Refinery | Installed capacity (1.6.2019) MMTPA | Crude oil processing (MMT) | | | | | | | |
|---------|-------------------|---|----------------------------|----------------|----------------|----------------------|----------------|----------------|----------------------|----------------|
| | | | 2017-18 | 2018-19 (P) | May | | | April-May | | |
| | | | | | 2018-19 (P) | 2019-20 (Target)* | 2019-20 (P) | 2018-19 (P) | 2019-20 (Target)* | 2019-20 (P) |
| IOCL | Barauni (1964) | 6.0 | 5.8 | 6.7 | 0.6 | 0.6 | 0.6 | 1.2 | 1.1 | 1.2 |
| | Koyali (1965) | 13.7 | 13.8 | 13.5 | 1.2 | 0.9 | 0.8 | 2.4 | 1.6 | 1.5 |
| | Haldia (1975) | 7.5 | 7.7 | 8.0 | 0.6 | 0.7 | 0.7 | 1.3 | 1.4 | 1.4 |
| | Mathura (1982) | 8.0 | 9.2 | 9.7 | 0.9 | 0.8 | 0.9 | 1.7 | 1.6 | 1.7 |
| | Panipat (1998) | 15.0 | 15.7 | 15.3 | 1.4 | 1.4 | 1.4 | 2.7 | 2.6 | 2.5 |
| | Guwahati (1962) | 1.0 | 1.0 | 0.9 | 0.09 | 0.09 | 0.07 | 0.2 | 0.2 | 0.1 |
| | Digboi (1901) | 0.65 | 0.7 | 0.7 | 0.06 | 0.06 | 0.05 | 0.1 | 0.1 | 0.1 |
| | Bongaigaon(1979) | 2.35 | 2.4 | 2.5 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.4 |
| | Paradip (2016) | 15.0 | 12.7 | 14.6 | 1.3 | 1.4 | 1.2 | 1.5 | 2.5 | 2.6 |
| | IOCL-TOTAL | 69.2 | 69.0 | 71.8 | 6.3 | 6.0 | 5.9 | 11.6 | 11.5 | 11.5 |
| CPCL | Manali (1969) | 10.5 | 10.3 | 10.3 | 0.8 | 0.9 | 0.9 | 1.6 | 1.8 | 1.7 |
| | CBR (1993) | 1.0 | 0.5 | 0.4 | 0.03 | 0.0 | 0.0 | 0.07 | 0.0 | 0.0 |
| | | CPCL-TOTAL | 11.5 | 10.8 | 10.7 | 0.8 | 0.9 | 0.9 | 1.7 | 1.8 |
| BPCL | Mumbai (1955) | 12.0 | 14.1 | 14.8 | 1.2 | 1.3 | 1.3 | 2.5 | 2.4 | 2.5 |
| | Kochi (1966) | 15.5 | 14.1 | 16.1 | 1.4 | 1.4 | 1.4 | 2.7 | 2.8 | 2.9 |
| BORL | Bina (2011) | 7.8 | 6.7 | 5.7 | 0.6 | 0.7 | 0.7 | 1.1 | 1.3 | 1.4 |
| NRL | Numaligarh (1999) | 3.0 | 2.8 | 2.9 | 0.2 | 0.3 | 0.2 | 0.4 | 0.5 | 0.5 |
| | BPCL-TOTAL | 38.3 | 37.7 | 39.4 | 3.5 | 3.6 | 3.7 | 6.7 | 7.1 | 7.2 |

| Company | Refinery | Installed capacity (1.6.2019) (MMTPA) | Crude oil processing (MMT) | | | | | | | |
|------------------|-----------------------|---|----------------------------|----------------|----------------|----------------------|----------------|----------------|----------------------|----------------|
| | | | 2017-18 | 2018-19 (P) | May | | | April-May | | |
| | | | | | 2018-19 (P) | 2019-20 (Target)* | 2019-20 (P) | 2018-19 (P) | 2019-20 (Target)* | 2019-20 (P) |
| ONGC | Tatipaka (2001) | 0.066 | 0.08 | 0.07 | 0.006 | 0.004 | 0.008 | 0.013 | 0.008 | 0.014 |
| MRPL | Mangalore (1996) | 15.0 | 16.1 | 16.2 | 1.2 | 1.0 | 0.7 | 2.5 | 2.0 | 1.7 |
| | ONGC-TOTAL | 15.1 | 16.2 | 16.3 | 1.2 | 1.0 | 0.7 | 2.5 | 2.0 | 1.7 |
| HPCL | Mumbai (1954) | 7.5 | 8.6 | 8.7 | 0.7 | 0.7 | 0.5 | 1.4 | 1.4 | 0.8 |
| | Visakh (1957) | 8.3 | 9.6 | 9.8 | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 |
| HMEL | Bathinda (2012) | 11.3 | 8.8 | 12.5 | 1.1 | 0.9 | 1.1 | 2.1 | 1.8 | 2.1 |
| | HPCL-TOTAL | 27.1 | 27.1 | 30.9 | 2.6 | 2.5 | 2.4 | 5.1 | 4.9 | 4.6 |
| RIL | Jamnagar (DTA) (1999) | 33.0 | 33.2 | 31.8 | 2.8 | 2.8 | 2.8 | 5.5 | 5.5 | 5.6 |
| | Jamnagar (SEZ) (2008) | 35.2 | 37.3 | 37.4 | 3.2 | 3.2 | 3.3 | 5.5 | 5.5 | 6.5 |
| NEL [#] | Vadinar (2006) | 20.0 | 20.7 | 18.9 | 1.8 | 1.8 | 1.8 | 3.5 | 3.5 | 3.5 |
| All India | | 249.4 | 251.9 | 257.2 | 22.2 | 21.8 | 21.6 | 42.1 | 41.8 | 42.3 |

*Targets are as received from oil companies. #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 01.06.2019)

| Details | | ONGC | OIL | Cairn | HMEL | IOCL | BPCL | HPCL | Others* | Total |
|-----------|-------------|-------|-------|-------|-------|-------|-------|-------|---------|---------------|
| Crude Oil | Length (KM) | 1,283 | 1,193 | 688 | 1,017 | 5,301 | 937 | - | - | 10,419 |
| | Cap (MMTPA) | 60.6 | 9.0 | 10.7 | 11.3 | 48.6 | 7.8 | - | - | 147.9 |
| Products | Length (KM) | - | 654 | - | - | 8,769 | 2,241 | 3,371 | 2,395 | 17,430 |
| | Cap (MMTPA) | - | 1.7 | - | - | 45.6 | 19.5 | 29.4 | 9.4 | 105.6 |

*Others include 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 | 2018-19 (P) |
|------------------|-------------------------|-------------|-------------|-------------|-------------|
| IOCL | Barauni | 2.93 | 6.52 | 6.60 | 3.86 |
| | Koyali | 6.80 | 7.55 | 9.44 | 4.87 |
| | Haldia | 3.96 | 6.80 | 6.86 | 5.36 |
| | Mathura | 3.30 | 7.01 | 7.09 | 4.65 |
| | Panipat | 4.15 | 7.95 | 7.74 | 4.66 |
| | Guwahati ** | 15.88 | 22.14 | 21.88 | 16.35 |
| | Digboi ** | 16.17 | 24.49 | 24.86 | 22.74 |
| | Bongaigaon ** | 11.09 | 20.15 | 20.62 | 16.94 |
| | Paradip # | -0.65 | 4.22 | 7.02 | 4.46 |
| | Weighted average | 5.06 | 7.77 | 8.49 | 5.41 |
| BPCL | Kochi | 6.87 | 5.16 | 6.44 | 4.27 |
| | Mumbai | 6.37 | 5.36 | 7.26 | 4.92 |
| | Weighted average | 6.59 | 5.26 | 6.85 | 4.58 |
| HPCL | Mumbai | 8.09 | 6.95 | 8.35 | 5.79 |
| | Visakhapatnam | 5.46 | 5.51 | 6.55 | 4.31 |
| | Weighted average | 6.68 | 6.20 | 7.40 | 5.01 |
| CPCL | Chennai | 5.27 | 6.05 | 6.42 | 3.70 |
| MRPL | Mangalore | 5.20 | 7.75 | 7.54 | 4.06 |
| NRL | Numaligarh ** | 23.68 | 28.56 | 31.92 | 28.11 |
| BORL | Bina | 11.70 | 11.80 | 11.70 | 9.80 |
| RIL | Jamnagar | 10.80 | 11.00 | 11.60 | 9.20 |
| NEL [@] | Vadinar | 10.81 | 9.14 | 8.95 | * |

*Data not available; ** 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 | 2018-19 (P) |
|---------|------------|---------|---------|---------|-------------|
| IOCL | Guwahati | 1.26 | 1.12 | 3.70 | 0.63 |
| | Digboi | 4.16 | 7.73 | 8.27 | 8.84 |
| | Bongaigaon | 0.08 | 6.03 | 6.22 | 4.21 |
| NRL | Numaligarh | 8.06 | 8.50 | 11.43 | 11.80 |

12. Production and consumption of petroleum products (Million Metric Tonnes)

| Products | 2018-19 (P) | | May 2018 (P) | | May 2019 (P) | | April-May 2018 (P) | | April-May 2019 (P) | |
|-------------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------------|-------------|--------------------|--------------|
| | Prod | Cons | Prod | Cons | Prod | Cons | Prod | Cons | Prod | Cons |
| LPG | 12.8 | 24.9 | 1.1 | 2.1 | 1.0 | 2.1 | 2.1 | 3.9 | 2.0 | 4.0 |
| MS | 38.0 | 28.3 | 3.3 | 2.5 | 3.3 | 2.7 | 6.3 | 4.7 | 6.4 | 5.2 |
| NAPHTHA | 19.6 | 14.1 | 1.6 | 1.0 | 1.5 | 1.1 | 3.1 | 2.2 | 2.9 | 2.0 |
| ATF | 15.5 | 8.3 | 1.3 | 0.7 | 1.3 | 0.7 | 2.5 | 1.4 | 2.5 | 1.4 |
| SKO | 4.1 | 3.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.7 | 0.6 | 0.5 | 0.5 |
| HSD | 110.6 | 83.5 | 9.7 | 7.6 | 9.4 | 7.8 | 18.0 | 14.7 | 18.4 | 15.1 |
| LDO | 0.7 | 0.6 | 0.04 | 0.04 | 0.06 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 |
| LUBES | 0.9 | 3.9 | 0.1 | 0.3 | 0.1 | 0.3 | 0.2 | 0.6 | 0.1 | 0.6 |
| FO/LSHS | 10.0 | 6.5 | 0.7 | 0.5 | 0.8 | 0.5 | 1.4 | 1.0 | 1.5 | 1.0 |
| BITUMEN | 5.6 | 6.6 | 0.6 | 0.7 | 0.5 | 0.7 | 1.2 | 1.4 | 1.0 | 1.3 |
| PET COKE | 13.7 | 20.5 | 1.3 | 2.1 | 1.1 | 1.5 | 2.3 | 4.0 | 2.3 | 3.1 |
| OTHERS | 31.0 | 11.0 | 2.3 | 0.9 | 2.7 | 1.0 | 4.7 | 1.7 | 5.1 | 2.0 |
| ALL INDIA | 262.4 | 211.6 | 22.3 | 18.6 | 21.9 | 18.6 | 42.5 | 36.4 | 43.0 | 36.3 |
| Growth (%) | 3.2% | 2.7% | 4.9% | 2.2% | -1.5% | 0.04% | 3.9% | 3.2% | 1.3% | -0.3% |

Note: Prod - Production; Cons - Consumption

13. LPG consumption (Thousand Metric Tonne)

| LPG category | 2017-18 | 2018-19 (P) | May (P) | | | April-May (P) | | |
|-----------------------------------|-----------------|-----------------|----------------|----------------|------------|----------------|----------------|------------|
| | | | 2018-19 | 2019-20 | Gr (%) | 2018-19 | 2019-20 | Gr (%) |
| 1. PSU Sales : | | | | | | | | |
| LPG-Packed Domestic | 20,351.8 | 21,732.5 | 1,783.1 | 1,794.7 | 0.7 | 3,401.9 | 3,449.3 | 1.4 |
| LPG-Packed Non-Domestic | 2,085.8 | 2,358.8 | 187.9 | 201.2 | 7.1 | 366.1 | 389.5 | 6.4 |
| LPG-Bulk | 355.4 | 322.0 | 30.8 | 21.9 | -29.0 | 60.5 | 44.1 | -27.1 |
| Auto LPG | 184.4 | 180.3 | 15.7 | 14.4 | -8.2 | 30.1 | 28.4 | -5.8 |
| Sub- | 22,977.4 | 24,593.6 | 2,017.4 | 2,032.2 | 0.7 | 3,858.6 | 3,911.3 | 1.4 |
| 2. Direct Private Imports* | 364.5 | 324.4 | 32.5 | 26.0 | -20.2 | 53.4 | 52.0 | -2.7 |
| Total (1+2) | 23,341.8 | 24,918.0 | 2,050.0 | 2,058.2 | 0.4 | 3,912.0 | 3,963.2 | 1.3 |

*April-May 2019 import data are prorated on the basis of April 2018 to March 2019 actual data provided by DGCIS.

14. Kerosene allocation vs upliftment (Kilo Litres)

| Product | 2015-16 | | 2016-17 | | 2017-18 | | 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 | 46,69,160 | 44,32,994 | 41,52,117 |

15. Industry marketing infrastructure (as on 01.06.2019) (Provisional)

| Particulars | IOCL | BPCL | HPCL | RIL | NEL ^{##} | SHELL | Others | Total |
|--|--------|--------|--------|-------|-------------------|-------|--------|--------|
| POL Terminal/ Depots (Nos.) [§] | 125 | 78 | 83 | 18 | 3 | - | 6 | 313 |
| Aviation Fuel Stations (Nos.) [@] | 117 | 56 | 43 | 31 | - | - | 1 | 248 |
| Retail Outlets (total) (Nos.) [^] | 27,742 | 14,842 | 15,459 | 1,400 | 5,205 | 147 | 7 | 64,802 |
| out of which Rural ROs | 7,879 | 2,262 | 3,487 | 127 | 1,846 | 21 | - | 15,622 |
| SKO/LDO agencies (Nos.) | 3,889 | 1,001 | 1,638 | - | - | - | - | 6,528 |
| LPG Distributors (total) (Nos.) (PSUs only) | 11,977 | 5,928 | 5,871 | - | - | - | - | 23,776 |
| LPG Bottling plants (Nos.) (PSUs only) [#] | 89 | 51 | 49 | - | - | - | 3 | 192 |
| LPG Bottling capacity (TMTPA) (PSUs only) ^{&} | 9,666 | 4,182 | 4,317 | - | - | - | 173 | 18,338 |
| LPG active domestic consumers (Nos. crore) (PSUs only) | 12.4 | 6.8 | 7.4 | - | - | - | - | 26.6 |

[§](RIL= 5 terminals and 13 depots, Others=4 MRPL & 2 NRL); [@](Others=ShellMRPL -1); [^](Others=MRPL-7); [#](Others=NRL-1, OIL-1, CPCL-1); [&](Others=NRL-30, OIL-23, CPCL-120); ^{##}Nayara Energy Limited (formerly Essar Oil Limited).

16. Natural gas at a glance

(MMSCM)

| Details | 2017-18 | 2018-19 (P) | May | | | April-May | | |
|---|---------|----------------|----------------|---------------------|----------------|----------------|---------------------|----------------|
| | | | 2018-19 (P) | 2019-20 (Target) | 2019-20 (P) | 2018-19 (P) | 2019-20 (Target) | 2019-20 (P) |
| (a) Gross production | 32,648 | 32,874 | 2,728 | 2,877 | 2,739 | 5,391 | 5,653 | 5,395 |
| - ONGC | 23,429 | 24,675 | 1,982 | 2,132 | 2,082 | 3,954 | 4,227 | 4,120 |
| - Oil India Limited (OIL) | 2,881 | 2,722 | 227 | 287 | 231 | 449 | 564 | 455 |
| - Private / Joint Ventures (JVs) | 6,338 | 5,477 | 519 | 458 | 426 | 989 | 862 | 819 |
| (b) Net availability (excluding flare gas and loss) | 31,731 | 32,056 | 2,662 | | 2,662 | 5,262 | | 5,242 |
| (c) LNG import | 27,439 | 28,692 | 2,416 | | 2,522 | 4,877 | | 5,153 |
| (d) Total consumption including internal consumption (b+c) | 59,170 | 60,748 | 5,078 | | 5,184 | 10,139 | | 10,394 |
| (e) Total consumption (in BCM) | 59.2 | 60.7 | 5.1 | | 5.2 | 10.1 | | 10.4 |
| (f) Import dependency based on consumption (%), {c/d*100} | 46.4 | 47.2 | 47.6 | | 48.6 | 48.1 | | 49.6 |

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

April -May 2019 private import (LNG) quantity is prorated on the basis of April 2018-March 2019 actual data provided by DGCIS.

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 | May 2019 (P) | 55.5 |
| Production of CBM gas | April-May 2019 (P) | 109.8 |
| | | MMSCM |
| | | MMSCM |

18. Major natural gas pipeline network as on 01.06.2019

| Nature of pipeline | | GAIL | Reliance | GSPL | ARN [^] | IOCL | Total |
|--------------------|--------------|--------|----------|-------|------------------|------|--------|
| Natural gas | Length (KM) | 11,411 | 1,784 | 2,692 | 297 | 140 | 16,324 |
| | Cap (MMSCMD) | 230.0 | 71.0 | 43.0 | 2.8 | 9.5 | 356.3 |

[^]Excludes CGD pipeline network

19. Gas pipelines under execution / construction as on 01.06.2019

| Network/ Region | Entity | Length sanctioned (KM) | Design capacity (MMSCMD) | Pipeline size |
|--|-----------------------------|------------------------|--------------------------|---------------------|
| Kochi - Kottanad - Bengaluru - Mangalore | GAIL(India) Ltd. | 880 | 16 | 30"/24" |
| Dabhol -Bengaluru (DBPL) Spur Lines, Phase-2 | GAIL(India) Ltd. | 302 | 16 | 36"/30"/24"/18" |
| Jagdishpur- Haldia-Bokaro-Dhamra (JHBDPL) | GAIL(India) Ltd. | 2,539 | 16 | 30"/24"/18"/12"/8" |
| Mallavaram-Bhopal-Bhilwara-Vijaipur | GSPL India Transco Ltd. | 363 | 5 | 18" |
| Mehsana - Bathinda | GSPL India Gasnet Ltd. | 1,849 | 46 | 30"/24"/18" |
| Bathinda -Jammu-Srinagar | GSPL India Gasnet Ltd. | 742 | 34 | 24"/18"/12" |
| Kakinada - Vizag-Srikakulam | AP Gas Distribution | 254 | 90 | 24"/18" |
| Ennore- Nellore | Gas Transmission India Pvt. | 250 | 36 | 24"/18" |
| Ennore-Thiruvallur-Bengaluru-Puducherry-Nagapattinam-Madurai-Tuticorin | Indian Oil Corporation Ltd. | 1,244 | 35 | 30"/24"/18"/16"/12" |
| Total | | 8,423 | | |

20. Existing LNG terminals

| Location | Promoters | Capacity as on 01.05.2019 | Capacity utilisation in % April 2019 (P) |
|-----------------------|------------------------------|---------------------------|--|
| Dahej | Petronet LNG Ltd (PLL) | 15 MMTPA | 102.4% |
| Hazira | Shell Energy India Pvt. Ltd. | 5 MMTPA | 92.4% |
| Dabhol | RGPPL (GAIL - NTPC JV) | 1.692 MMTPA* | 2.4% |
| Kochi | Petronet LNG Ltd (PLL) | 5 MMTPA | 10.8% |
| 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 01.06.2019

| 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, Vijaywada, East/West Godavari, Krishna district GA (excluding areas already authorized) | 45 | 19,859 | 32,893 | 129 | 5 |
| Assam | Assam Gas Co. Ltd | Upper Assam GA | 0 | 0 | 33,009 | 1,079 | 402 |
| Bihar | GAIL (India) Ltd. | Patna | 2 | 1,321 | 170 | 0 | 0 |
| Chandigarh | Indian Oil-Adani Gas Pvt. Ltd. | Chandigarh | 7 | 7,500 | 11,440 | 1 | 1 |
| Daman and Diu | Indian Oil-Adani Gas Pvt. Ltd. | Daman | 3 | 1,000 | 571 | 22 | 12 |
| Delhi | Indraprastha Gas Ltd . | NCT of Delhi (Including Noida & Ghaziabad) | 484 | 10,63,111 | 11,08,405 | 2,579 | 1,790 |
| Gujarat & DNH | 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 & Sabarkanta GA, Patan district GA, Surat-Bharuch-Ankleswar GA, Nadiad GA, Navsari GA, Rajkot GA, Surendranagar GA, Hazira GA, Valsad GA, Jamnagar GA, Bhavnagar GA, Kutch (West) GA, Amreli District GA, Dahej Vagra Taluka GA, Dahod District GA, Panchmahal District GA, Anand (excluding area authorised) district GA, Ahmedabad city and Daskroi area (excluding area already authorised) GA, Vadodara district, Vadodara Rural, Ahmedabad district GA, Anand area including Kanjari and Vadtal villages GA and Palanpur, Dadra and Nagar Haveli-Silvassa | 552 | 9,44,325 | 20,73,437 | 18,719 | 4,903 |

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.06.2019

| 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 Ltd., GAIL Gas Ltd., Indraprastha Gas Ltd., Indian Oil-Adani Gas Pvt. Ltd. | Sonapat, Faridabad, Gurgaon, Rewari, Panipat, Nuh & Palwal, Karnal | 74 | 1,59,929 | 104,055 | 291 | 502 |
| Karnataka | Gail Gas Ltd., Megha Engineering & Infrastructures Ltd. | Bengaluru rural and urban districts GA, Tumkur district GA, Belgaum district GA, Dharwad | 16 | 1,115 | 21,262 | 139 | 79 |
| Kerala | Indian Oil-Adani Gas Pvt. Ltd. | Ernakulam | 4 | 900 | 1,134 | 9 | 2 |
| Madhya Pradesh | Aavantika Gas Ltd, GAIL Gas Ltd | Dewas, Vijaiapur, Gwalior GA, Indore GA including Ujjain city | 43 | 36,257 | 60,260 | 133 | 194 |
| Maharashtra | Mahanagar Gas Ltd, Maharashtra Natural Gas Ltd, Gujarat Gas Limited, Mahesh Gas Ltd, Unison Enviro Private Limited | Mumbai, Greater Mumbai, Thane Urban, Mira Bhayender, Navi Mumbai, Ambernath, Bhiwandi, Kalyan, Dombivli, Badlapur, Ulhasnagar, Panvel, Kharghar & Talaja, Pune City including Pimpri-Chinchwad along with adjoining contiguous areas of Hinjewadi, Chakan & Talegaon GA, Raigarh District GA excl. areas already authorized, Palghar district and Thane Rural GA, Pune (excluding area already authorised), Ratnagiri | 316 | 9,35,955 | 14,81,210 | 4,097 | 262 |

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.06.2019

| State | Entity operating | Geographical area/City | CNG stations | No. of CNG vehicles | PNG connections | | |
|----------------------|--|--|--------------|---------------------|------------------|---------------|--------------|
| | | | | | Domestic | Commercial | Industrial |
| Odisha | GAIL (India) Ltd. | Khordha district GA, Cuttack district GA | 6 | 2,755 | 245 | 0 | 0 |
| Punjab | IRM Energy Pvt. Ltd., GSPL | Fatehgarh Sahib, Amritsar | 8 | 2,337 | 630 | 1 | 13 |
| Rajasthan | Rajasthan State Gas Limited | Kota, Neemrana & Kukas | 5 | 8,438 | 2,198 | 12 | 15 |
| Telangana | Bhagyanagar Gas Ltd. | Hyderabad | 45 | 24,980 | 11,846 | 12 | 19 |
| Tripura | Tripura Natural Gas Co. Ltd | Agartala | 9 | 11,774 | 39,794 | 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., Torrent Gas Pvt Ltd., GAIL (India) Ltd., IGL | Meerut, Dibrayapur, Mathura, Agra, Kanpur ga, Bareilly GA, Lucknow district, Moradabad GA, Firozabad Geographical Area (TTZ), Khurja GA, Allahabad, Varanasi and Auraiya, Kanpur Dehat & Etawah, Gorakhpur, Sant Kabir Nagar & Kushinagar, Bulandshahr, Jhansi | 142 | 1,56,905 | 1,64,745 | 505 | 654 |
| Uttarakhand | Indian Oil-Adani Gas Pvt. Ltd. | Udham Singh Nagar, Haridwar district GA | 1 | 100 | 1,560 | 2 | 8 |
| West Bengal | Great Eastern Energy Corporation Ltd. | Kultora, Asansol, Raniganj, Durgapur | 7 | 3,792 | 0 | 0 | 0 |
| Total | | | 1,769 | 33,82,353 | 51,48,864 | 28,145 | 8,910 |

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 |
| October 2018 - March 2019 | 3.36 | 7.67 |
| April 2019 - September 2019 | 3.69 | 9.32 |

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

| International FOB prices/ Exchange rates (\$/bbl) | | | | Price buildup of petroleum products (Rs./litre/Cylinder) | | | | |
|--|-----------------------------|---------------------------------|------------------|--|--------------------------------------|--|--------------------------------------|---|
| Particulars | 2017-18 | 2018-19 | May 2019 | Particulars | Petrol* | Diesel* | | |
| Crude oil (Indian Basket) | 56.43 | 69.88 | 70.02 | Price charged to dealers (excluding Excise Duty and VAT) | 33.54 | 38.11 | | |
| Petrol | 67.83 | 75.58 | 74.49 | Excise Duty | 17.98 | 13.83 | | |
| Diesel | 68.19 | 82.51 | 80.45 | Dealers' Commission (Average) | 3.54 | 2.49 | | |
| Kerosene | 67.65 | 82.24 | 79.48 | VAT (incl VAT on dealers' commission) | 14.87 | 9.41 | | |
| LPG (\$/MT) | 485.92 | 526.00 | 528.00 | Retail Selling Price | 69.93 | 63.84 | | |
| FO (\$/MT) | 327.50 | 420.93 | 404.69 | Particulars | PDS SKO* | Sub. Dom LPG* | | |
| Naphtha (\$/MT) | 494.73 | 573.72 | 528.32 | Price before taxes and dealers'/distributors' commission | 28.05 | 651.45 | | |
| Exchange (Rs./\$) | 64.45 | 69.89 | 69.77 | Dealers'/distributors' commission | 2.60 | 50.93 | | |
| Customs, excise duty & GST rates (as on 01.12.2018) | | | | GST (incl GST on dealers'/distributors' commission) | | | | |
| Product | Basic customs duty # | Excise duty | GST rates | Retail Selling Price | | | | |
| Petrol | 2.50% | Rs 17.98/Ltr | ** | 32.18 | | | | |
| Diesel | 2.50% | Rs 13.83/Ltr | ** | 737.50 | | | | |
| PDS SKO | Nil | Not Applicable | 5.00% | Less: Cash compensation on LPG to consumers under DBTL | | | | |
| Non-PDS SKO | 5.00% | | 18.00% | 240.13 | | | | |
| Domestic LPG | Nil*** | | 5.00% | Effective cost to consumer after subsidy | | | | |
| Non Domestic LPG | 5.00% | | 18.00% | 497.37 | | | | |
| Furnace Oil (Non-Fert) | 5.00% | | 18.00% | *Petrol and diesel at Delhi as per IOCL are as on 16th June 2019. PDS SKO at Mumbai and Sub. Dom LPG at Delhi are as on 16th June 2019 & 1st June 2019 respectively. | | | | |
| Naphtha (Non-Fert) | 5.00% | | 18.00% | | | | | |
| ATF | 5.00% | | 11% * | | | | ** | |
| Crude Oil | Nil+Rs.50/-MT as NCCD | Nil+Cess@ 20% +Rs.50 /- MT NCCD | ** | 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 \$ | | | | |
| | | | | Impact of change in product price by \$1per bbl / \$10per MT | | Impact of change in exchange rate by ₹ 1/\$ | | |
| | | | | Product | Per unit impact (₹/lit./cyl.) | Annualised financial impact (₹crore) | Per unit impact (₹/lit./cyl.) | Annualised financial impact (₹crore) |
| | | | | PDS SKO | 0.44 | 160 | 0.52 | 190 |
| | | | | Domestic LPG | 10.09 | 1410 | 7.74 | 1,080 |
| | | | | Total | - | 1,570 | - | 1,270 |

*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 lieu 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 domestic LPG.

Note: The above calculations are based on RTP for June 2019.

24. Capital expenditure of PSU oil companies

(Rs in crores)

| Company | 2016-17 (P) | 2017-18 (P) | 2018-19 (P) | 2019-20 (P) | |
|---|----------------|----------------|---------------|---------------|--------------|
| | | | | Target | April-May |
| ONGC Ltd | 28,010 | 72,383 | 28,738 | 32,921 | 3,032 |
| ONGC Videsh Ltd (OVL) | 18,360 | 6,240 | 6,013 | 5,161 | 712 |
| Oil India Ltd (OIL) | 10,514 | 8,395 | 3,702 | 4,105 | 378 |
| GAIL (India) Ltd | 2,180 | 3,613 | 5,958 | 5,339 | 310 |
| Indian Oil Corp. Ltd. (IOCL) | 21,918 | 20,345 | 26,548 | 25,084 | 2,383 |
| Hindustan Petroleum Corp. Ltd (HPCL) | 5,861 | 7,134 | 11,689 | 9,500 | 904 |
| Bharat Petroleum Corp. Ltd (BPCL) | 16,810 | 8,161 | 10,084 | 7,900 | 1,047 |
| Mangalore Refinery & Petrochem Ltd (MRPL) | 614 | 1,281 | 1,072 | 818 | 249 |
| Chennai Petroleum Corp. Ltd (CPCL) | 1,293 | 963 | 1,208 | 1,105 | 183 |
| Numaligarh Refinery Ltd (NRL) | 500 | 387 | 459 | 455 | 16 |
| Balmer Lawrie Co. Ltd (BL) | 73 | 78 | 125 | 40 | 4 |
| Engineers India Ltd (EIL) # | - | - | 87 | 1212 | 2 |
| Total | 106,133 | 128,981 | 95,684 | 93,639 | 9,220 |

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

Included from 2018-19.

25. Conversion factors and volume conversion

| Weight to volume conversion | | | | Volume conversion | |
|--------------------------------|------------------|-------------|--------------|---------------------------|---------------|
| Product | Weight (MT) | Volume (KL) | Barrel (bbl) | From | To |
| LPG | 1 | 1.844 | 11.60 | 1 US Barrel (bbl) | 159 litres |
| Petrol (MS) | 1 | 1.411 | 8.88 | 1 US Barrel (bbl) | 42 US Gallons |
| Diesel (HSD) | 1 | 1.210 | 7.61 | 1 US Gallon | 3.78 litres |
| Kerosene (SKO) | 1 | 1.285 | 8.08 | 1 Kilo litre (KL) | 6.29 bbl |
| ATF | 1 | 1.288 | 8.10 | 1 Million barrels per day | 49.8 MMTPA |
| Light Diesel Oil (LDO) | 1 | 1.172 | 7.37 | Energy conversion | |
| Furnace Oil (FO) | 1 | 1.071 | 6.74 | 1 Kilocalorie (kcal) | 4.187 kJ |
| Crude Oil | 1 | 1.170 | 7.33 | 1 Kilocalorie (kcal) | 3.968 Btu |
| Exclusive Economic Zone | | | | 1 Kilowatt-hour (kWh) | 860 kcal |
| 200 Nautical Miles | 370.4 Kilometers | | | 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 | 1,325 SCM | Power generation from 1 MMSCMD of gas | 220 MW |