

**MONTHLY REPORT ON INDIGENOUS CRUDE OIL
PRODUCTION, IMPORT AND PROCESSING**

&

**PRODUCTION, IMPORT AND EXPORT OF PETROLEUM
PRODUCTS**

January 2018



Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

1. In this report, indigenous crude oil production, imports and processing as well as production and imports/exports of petroleum products by oil companies are analyzed on a monthly basis to assess the domestic availability of petroleum products in the country for consumption.

Highlights

- Indigenous crude oil and condensate production during January 2018 was lower by 3.2% than January 2017. OIL registered a growth of 4.1% while ONGC registered de-growth of 4.2% during January 2018 as compared to January 2017. PSC fields registered de-growth of 3.5% during the month.
- Total crude oil processed during January 2018 was 22770 TMT, an increase of 7.9% over January 2017 with nil shutdown during the month. During April 2017 to January 2018 crude oil processed was higher by 2.8% over the corresponding period of the previous year mainly due to increase in crude oil processed by PSU refineries.
- Production of petroleum products during January 2018 saw a growth of 11.0% with 15.8% growth in LPG production, 18.4 % growth in ATF production and 13.8% growth in HSD production over January 2017. During April 2017 to January 2018 a growth of 4.5% was recorded over the corresponding period of the previous year.
- Crude oil imports increased by 15.3% during January 2018 as compared to January 2017. During April 2017 to January 2018 crude oil imports increased by 2.9% over the corresponding period of the previous year.
- Product imports increased by 8.2% during January 2018 as compared to January 2017 mainly due to increase in LPG, naphtha and FO imports for domestic consumption. During April 2017 to January 2018, product imports decreased by 2.2% over the corresponding period of the previous year.
- Export of POL products increased by 14.7% during January 2018 as compared to January 2017 primarily due to higher surplus availability of MS, ATF, fuel oil and HSD. During April 2017 to January 2018, an increase of 3.5% was recorded in product exports over the corresponding period of the previous year.

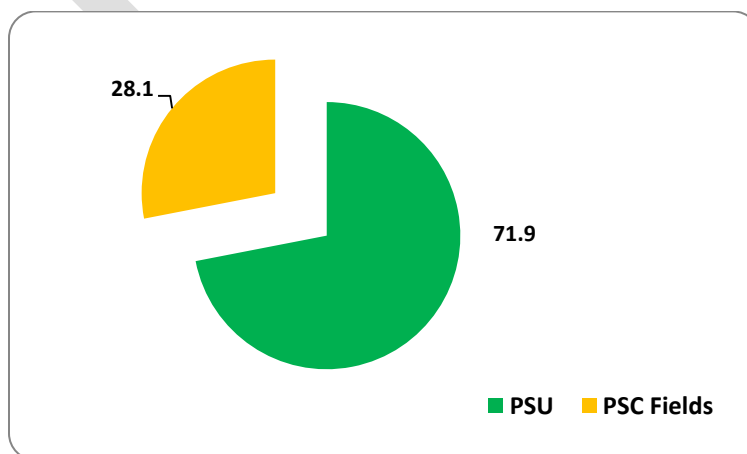
2. Indigenous crude oil and condensate production

2.1. Indigenous crude oil and condensate production decreased by 3.2% during January 2018 as compared to January 2017. During April 2017 to January 2018 it marginally decreased by 0.7% as compared to corresponding period in 2016 - 17 with a decrease of 210 TMT.

- OIL's crude oil production in January 2018 was higher by 4.1% as compared to January 2017. During April 2017 to January 2018 growth of 4.8% was recorded as compared to the corresponding period in 2016-17.
- In case of ONGC, crude oil and condensate production in January 2018 was lower by 4.2% as compared to January 2017. However during April 2017 to January 2018 marginal growth of 0.8% was recorded in total crude oil and condensate production.
- Indigenous crude oil and condensate production under PSC fields decreased by 3.5% during January 2018 as compared to January 2017. During April 2017 to January 2018 crude oil and condensate production under PSC fields decreased by 5.4% as compared to the corresponding period in 2016-17.

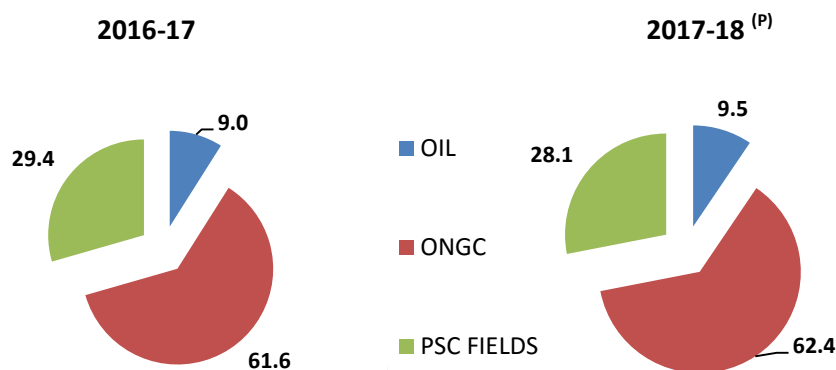
The percentage share of PSU upstream companies and PSC in overall crude oil production including condensate during April 2017 to January 2018^(P) is shown in figure-1 below:

Figure-1; Percentage share in crude oil production: April 2017 – January 2018^(P)



The percentage share of ONGC and OIL in overall crude oil production including condensate during April 2017 to January 2018 has increased as compared to April 2016 to January 2017 while PSC fields' share has declined. The comparison is shown in figure-2 below:

Figure-2; Percentage share in crude oil production: (April – January)



3. Crude oil processing by Oil Companies

3.1. The total crude oil processed by Indian refineries was 22770 TMT during January 2018 and 210734 TMT during April 2017 to January 2018.

- Indigenous crude oil processed during April 2017 to January 2018 decreased by 2.5% over the corresponding period of the previous year. However an increase of 3.6% was observed in total imported crude oil processed during April 2017 to January 2018 over the corresponding of the previous year.
- Indian refineries processed 77.1% of high sulphur crude during January 2018 as compared to 71.1% in January 2017. During April 2017 to January 2018, 74.7% of high sulphur crude was processed against 72.4% in the corresponding period of the previous year.
- Self-sufficiency of petroleum products on consumption basis was 17.2% in January 2018 against 21.2% during January 2017. During April 2017 to January 2018 self-sufficiency was 17.3% against 18.4% in the corresponding period of the previous year.

4. Production of Petroleum Products

4.1. Details of production of Petroleum products are given in Table-1.

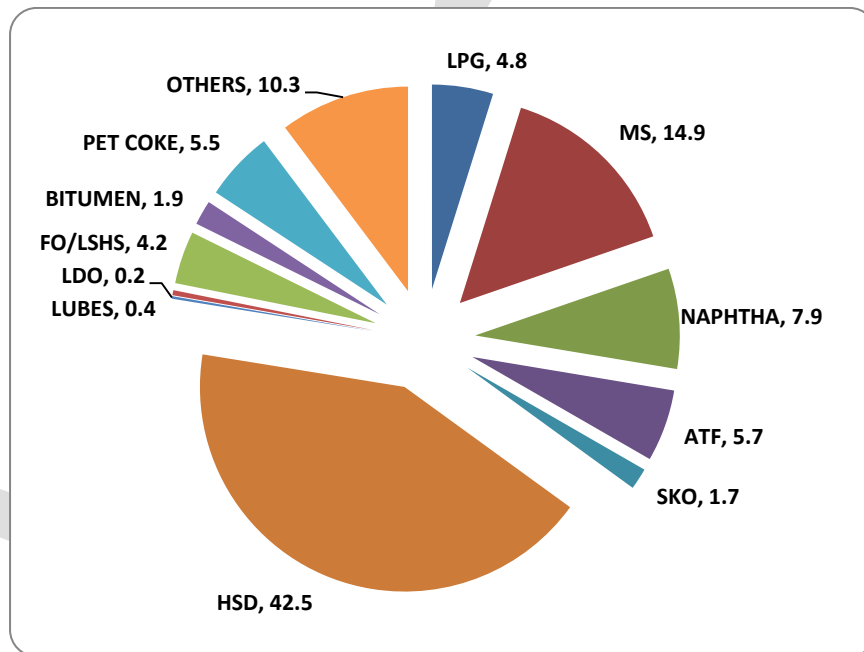
| Table-1; Production of petroleum products | | |
|--|------------------------------------|---|
| <i>(Thousand Metric Tonnes)</i> | | |
| PRODUCTS | January 2018 ^(P) | April 2017 - January 2018 ^(P) |
| LPG | 1127 | 10230 |
| NAPHTHA | 1789 | 16765 |
| MS BS-III | 0 | 0 |
| MS BS-IV | 2107 | 19961 |
| MS Others | 1258 | 11577 |
| ATF | 1376 | 12047 |
| SKO | 315 | 3573 |
| HSD BS-III | 9 | 22 |
| HSD BS-IV | 6384 | 57902 |
| HSD Others | 3333 | 32215 |
| LDO | 58 | 425 |
| LUBES | 101 | 844 |
| FO | 739 | 8522 |
| LSHS | 75 | 283 |
| BITUMEN | 525 | 4112 |
| RPC (Petcoke) | 1271 | 11649 |
| Others | 2465 | 21739 |
| TOTAL | 22930 | 211865 |

Note: (P):Provisional.. Source : Oil Companies
** Others include products like Propylene, solvents (Hexane, Benzene, Toluene, Xylene and Specialty solvents), Reformate, Mineral Turpentine Oil, Carbon Black Feed Stock, Waxes, Sulphur etc.*

- Production of petroleum products from refineries and fractionators increased by 11% in January 2018 as compared to January 2017. During April 2017 to January 2018 an increase of 4.5% was registered over in the corresponding period of the previous year.
- LPG production registered growth of 15.8% during January 2018 and 10.8% during April 2017 to January 2018 as compared to the corresponding period of the previous year.
- ATF production registered growth of 18.4% during January 2018 and 5.4% during April 2017 to January 2018 as compared to the corresponding period of the previous year.

- SKO production registered de-growth of 37.3% during January 2018 and 30.1% during April 2017 to January 2018 as compared to the corresponding period of the previous year.
- During April 2017 to January 2018 production of FO decreased by 18.1% and petcoke increased by 8.2% as a result of operation of bottom upgradation units.
- The percentage share contribution of various products in the total POL production during April 2017 to January 2018 is shown in figure-3 below:

Figure-3; Percentage share of POL products in production: (April 2017 – January 2018^(P1))



LPG, MS, ATF, SKO and HSD accounted for 69.6% of total POL production during April 2017 to January 2018.

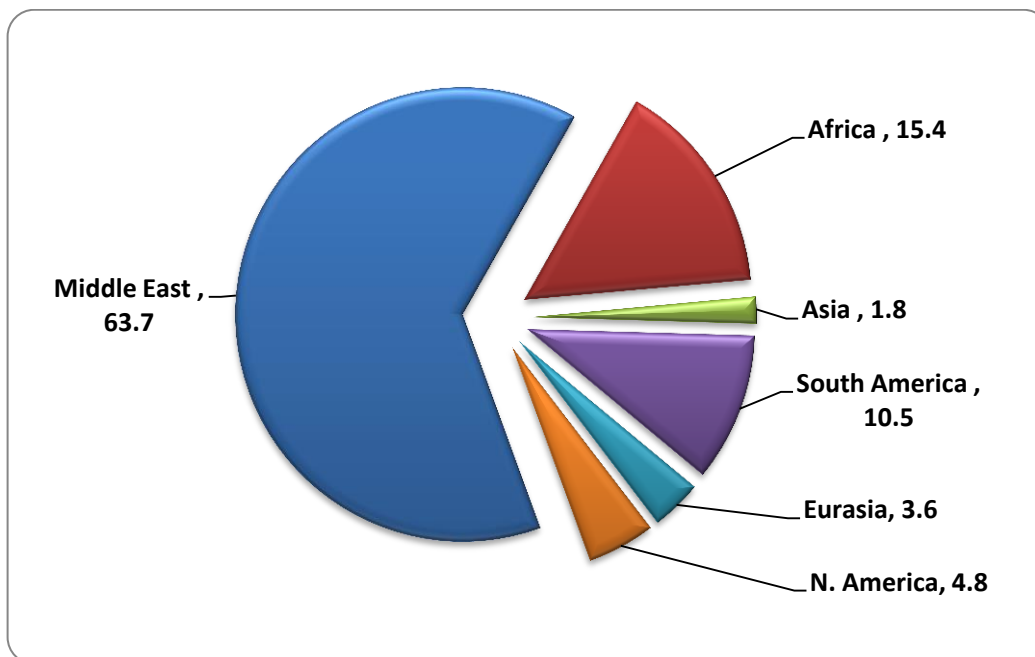
5. Import of Crude oil and Petroleum Products

5.1 Details of import of crude oil and petroleum products are given in Table-2 below:

| Table-2 ; Import of Crude oil and Petroleum Products | | |
|--|-----------------------------|---|
| (Thousand Metric Tonnes) | | |
| IMPORT | January 2018 ^(P) | April 2017- January 2018 ^(P) |
| Crude oil | 20115 | 184448 |
| PRODUCT IMPORT # | | |
| LPG | 969 | 9728 |
| MS/ Petrol | 0 | 174 |
| Naphtha | 203 | 1527 |
| ATF | 26 | 245 |
| HSD | 6 | 1275 |
| LOBS/Lube oil | 183 | 1980 |
| Fuel Oil | 101 | 863 |
| Bitumen | 76 | 671 |
| Petcoke | 1043 | 11167 |
| Others ^{\$} | 294 | 2187 |
| TOTAL | 2901 | 29817 |
| <i>Note: (P):Provisional.. Source : Oil Companies</i> | | |
| <i># DGCI&S data is actual upto November 2017 and prorated for December 2017 and January 2018.</i> | | |
| <i>\$ Others include SKO, CBFS, Paraffin wax, Petroleum Jelly, LSWR , Aviation Gas etc.</i> | | |

- Crude oil imports during January 2018 increased by 15.3% as compared to January 2017. During April 2017 to January 2018 crude oil imports increased by 2.9% as compared to the corresponding period of the previous year.
- Crude oil imports from OPEC countries reduced to 82.6% of total imports during April 2017 - January 2018 as compared to 87.4% of total imports during April 2016 - January 2017 with increased imports from non-OPEC countries.
- Crude oil imports of PSU/JV oil companies during January 2018 increased by 17.4% as compared to January 2017 and registered an increase of 3.1% during April 2017 - January 2018 as compared to the corresponding period of the previous year.
- Crude oil imports of private oil companies increased by 12.2% during January 2018 as compared to January 2017 and registered an increase of 2.6% in April 2017 - January 2018 as compared to the corresponding period of the previous year.
- Region wise crude oil import share during April 2017 - January 2018^(P) is given in figure-4.

Figure-4; Region wise percentage share of crude oil imports (April 2017 – January 2018^(P))

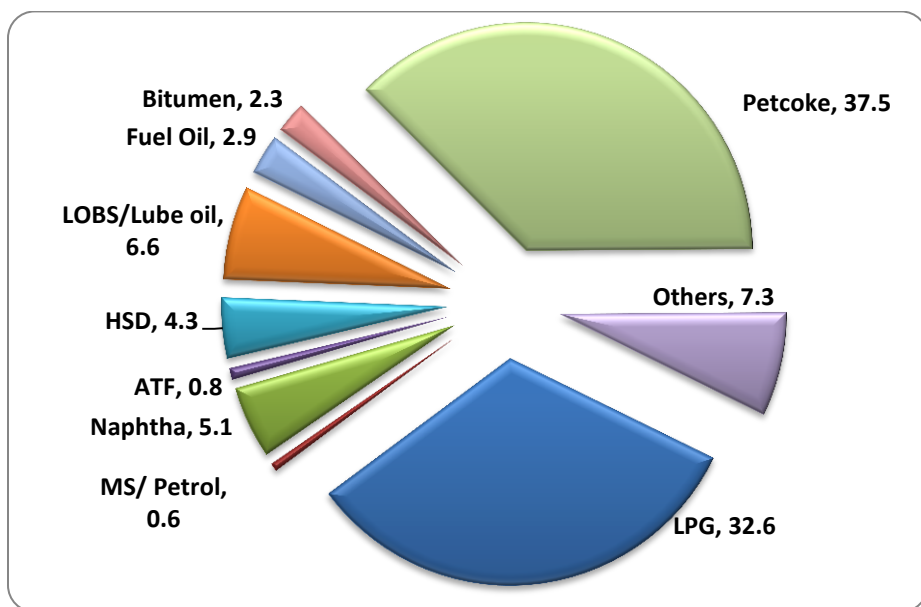


Import of POL products increased by 8.2% during January 2018 as compared to January 2017 mainly due to increase in import of LPG, naphtha, fuel oil and petcoke. However POL imports decreased by 2.2% during April 2017 to January 2018 as compared to the corresponding period of the previous year.

- Import of LPG and petcoke accounted for 69.4% share of the total petroleum product imports during January 2018, while LPG alone accounted for 33.4% of total POL imports. Further, 96.7% of total LPG imports were from the Middle Eastern region during the month.
- Petcoke imports, with a percentage share of 36.0% of total POL imports during January 2018, were mainly done by cement and steel industries as a cheap substitute of coal. However, the percentage share of import of petcoke was lower than its cumulative share of 37.5% during April 2017 to January 2018.
- Import of naphtha increased by 123.9% during January 2018 as compared to January 2017. Naphtha imports decreased by 34.6% during April 2017 to January 2018 as compared to the corresponding period of the previous year due to decrease in demand of naphtha in fertilizer and petrochemical sectors.

- The percentage share of all major products in the cumulative imports of the country during April 2017 to January 2018 is shown in figure-5.

Figure-5; Percentage share of petroleum products in imports (April 2017 – January 2018^(P))



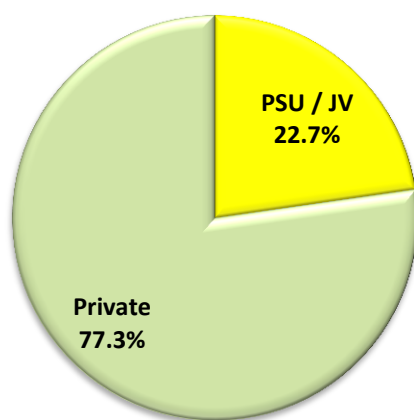
6. Export of Petroleum Products

6.1 The details of export of petroleum products are given in Table-3 below:

| Table-3 ; Export of major petroleum products | | |
|--|-----------------------------------|--|
| <i>(Thousand Metric Tonnes)</i> | | |
| EXPORT | January 2018^(P) | April 2017 - January 2018^(P) |
| LPG | 35 | 298 |
| MS | 1195 | 11659 |
| NAPHTHA | 761 | 7417 |
| ATF | 640 | 5837 |
| SKO | 1 | 15 |
| HSD | 2694 | 25354 |
| LDO | 0 | 18 |
| LOBS/ LUBE OIL | 1 | 11 |
| FUEL OIL | 159 | 2157 |
| BITUMEN | 2.4 | 60 |
| PET COKE | 56 | 491 |
| VGO | 28 | 556 |
| OTHERS [#] | 384 | 2382 |
| PRODUCT EXPORT | 5957 | 56256 |
| <i>Note: (P):Provisional. Source : Oil Companies</i> | | |
| <i># Others in export include CBFS, Hexane, Benzene, MTO, Paraffin wax, Sulphur etc.</i> | | |

- Export of petroleum products increased by 14.7% during January 2018 as compared to January 2017 primarily due to surplus availability of POL products like MS, ATF, fuel oil and HSD which constituted 78.7% of total POL exports. Export of petroleum products increased by 3.5% during April 2017 to January 2018 as compared to April 2016 to January 2017. MS, Naphtha, ATF and HSD constituted 89.4% of POL exports during April 2017 to January 2018.
- HSD exports increased by 47.7% during January 2018 in comparison to January 2017. HSD share in exports of POL was 45.2% during January 2018 as compared to 35.1% during January 2017. HSD exports increased by 10.6% during April 2017 to January 2018 as compared to April 2016 to January 2017.
- MS exports showed a growth of 15.5% due to surplus availability of MS during January 2018. MS exports dropped by 7.4% during April 2017 to January 2018 as compared to the corresponding period of the previous year due to sustained demand.
- Percentage share of POL exports by PSU/JV and private oil companies during April 2017 to January 2018^(P) are given in figure-6.

Figure-6; Percentage share of PSU/JV and private oil companies in POL exports: (April 2017 – January 2018^(P))



-----X-----