

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

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

October 2017



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 production during October 2017 was marginally lower by 0.4% than October, 2016. PSU companies registered a growth of 1.3% during October 2017 as compared to October 2016. However PSC fields registered de-growth of 4.6% during the month as compared to October 2016.
- Total crude oil processed during October 2017 increased by 5.2% over October 2016. On cumulative basis crude oil processed was higher by 1.5% over the period April - October, 2016-17.
- Production of petroleum products during October, 2017 saw a growth of 6.4% over October, 2016. On cumulative basis a growth of 2.8% was recorded in production over the period April- October, 2016-17.
- Crude oil imports increased by 4.9% during October 2017 as compared to October 2016. On cumulative basis crude oil imports marginally increased by 0.6% over the corresponding period of the previous year.
- Product imports increased by 3.9% during October 2017 as compared to October 2016 mainly due to increase in LPG imports for domestic consumption. On cumulative basis, product imports decreased by 5.9% over the corresponding period of previous year.
- Export of POL products decreased by 2.7% during October 2017 as compared to October 2016 primarily due to lower surplus availability of MS. On cumulative basis, a marginal increase of 0.7% was recorded in product exports over the period April - October, 2016-17.

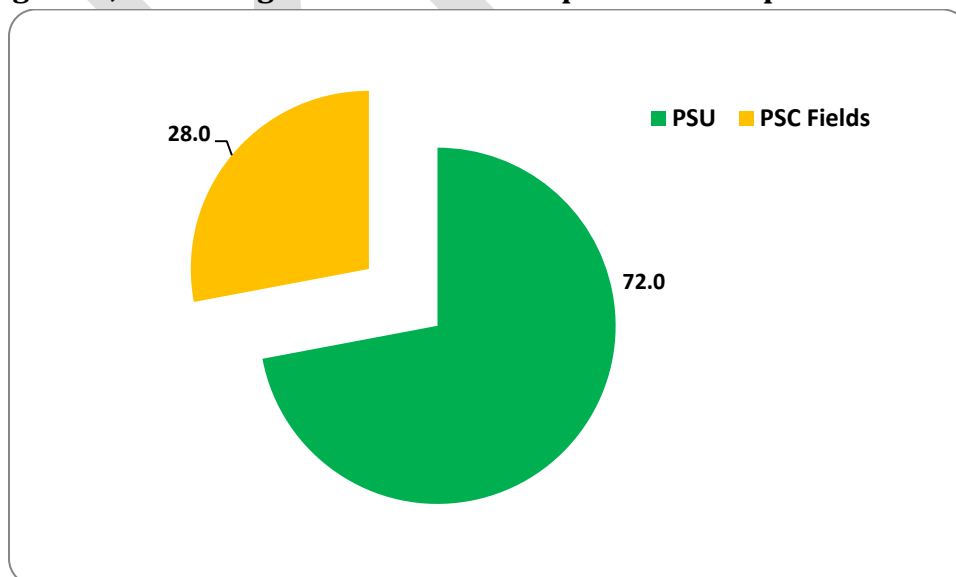
2. Indigenous crude oil and condensate production

2.1. Indigenous crude oil and condensate production marginally decreased by 0.4% during October 2017 as compared to October 2016. On cumulative basis it marginally decreased by 0.2% as compared to April - October, 2016-17.

- OIL's crude oil production in October 2017 was higher by 4.1% as compared to October 2016. On cumulative basis growth of 5.3% was recorded during April – October 2017 as compared to the corresponding period in 2016-17.
- In case of ONGC, crude oil and condensate production in October 2017 was higher by 0.9% as compared to October 2016. During the month condensate production registered growth of 12.9% over October 2016. On cumulative basis growth of 2.3% was recorded in total crude oil and condensate production during April-October 2017 as compared to April – October 2016.
- Indigenous crude oil and condensate production under PSC fields decreased by 4.6% during October 2017 and 7.0% during April - October 2017 as compared to the corresponding period in 2016-17.

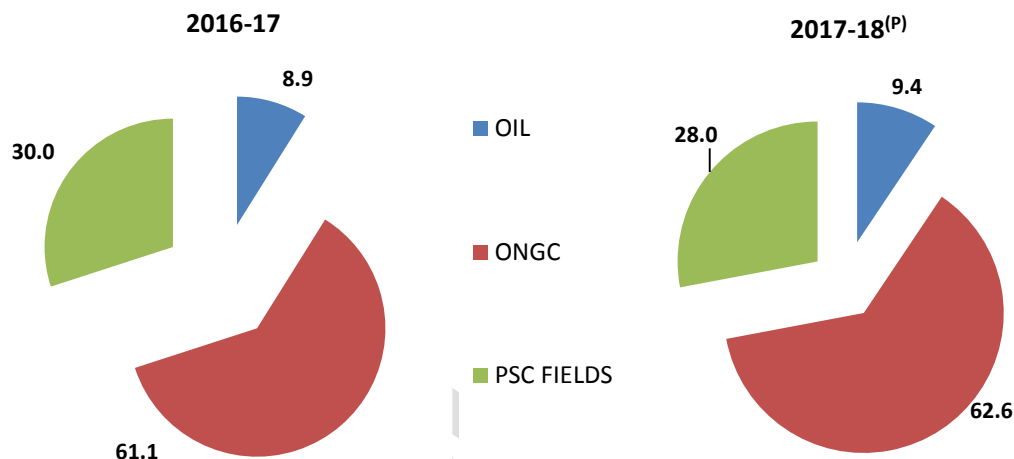
The percentage share of PSU upstream companies and PSC in overall crude oil production including condensate during April – October 2017 is shown in figure-1 below:

Figure-1; Percentage share in crude oil production: April - October (P)



The percentage share of ONGC and OIL in overall crude oil production including condensate during April – October 2017 has increased as compared to April – October 2016, while PSC field’s share has declined. The comparison is shown in figure-2 below:

Figure-2; Percentage share in crude oil production: April – October



3. Crude oil processing by Oil Companies

The total crude oil processed by Indian refining companies during October 2017 was 22108 TMT. On cumulative basis Indian refining companies processed 144605 TMT during April - October 2017.

- Indigenous crude oil processed during April - October 2017 decreased by 0.8% over April - October 2016. On cumulative basis, an increase of 1.8% was observed in total imported crude oil processed during April - October 2017 over the corresponding period of last year.
- Indian refineries processed 75.6% of high sulphur crudes during October 2017 as compared to 74.4% in October 2016. On cumulative basis 74.1% of high sulphur crudes were processed during April - October 2017 as against 72.4% in the corresponding period of 2016-17.
- Self-sufficiency of petroleum products on consumption basis was 18.4% in October 2017 as against 17.4% during September 2016. On cumulative basis self-sufficiency was 17.8% during April - October 2017 as against 18.0% during April - October 2016.

4. Production of Petroleum Products

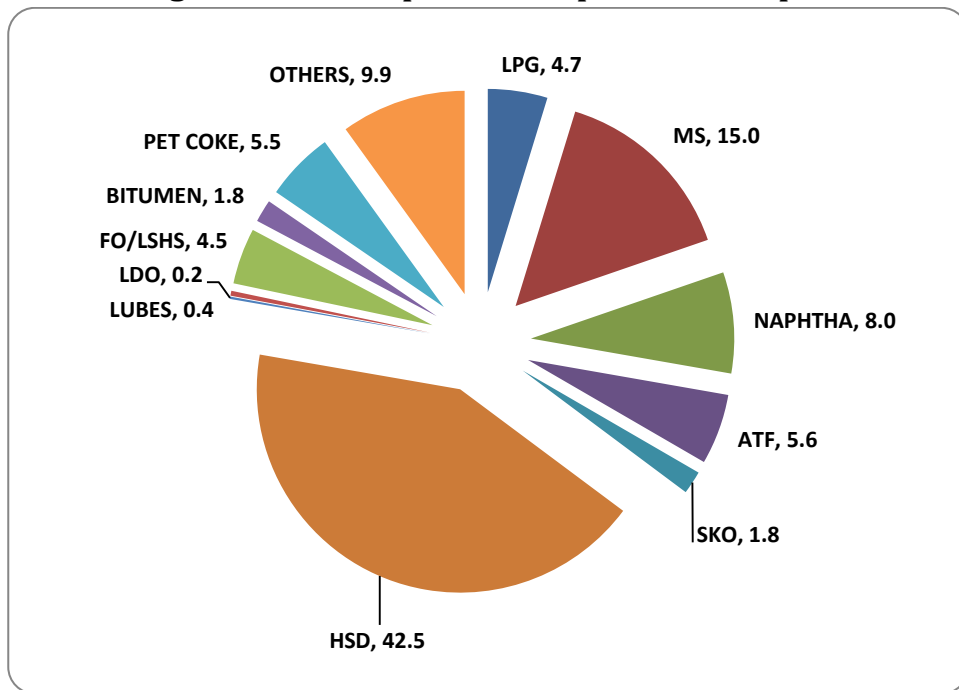
4.1. Details of production of Petroleum products are given in Table-1.

| Table-1; Production of petroleum products | | |
|--|-----------------------------------|--|
| <i>(Thousand Metric Tonnes)</i> | | |
| PRODUCTS | October 2017^(P) | April-October 2017^{P)} |
| LPG | 1073 | 6875 |
| NAPHTHA | 1834 | 11654 |
| MS BS-III | 0 | 0 |
| MS BS-IV | 2058 | 13809 |
| MS Others | 1179 | 7927 |
| ATF | 1243 | 8136 |
| SKO | 432 | 2658 |
| HSD BS-III | 18 | 21 |
| HSD BS-IV | 5735 | 39766 |
| HSD Others | 3661 | 21905 |
| LDO | 41 | 266 |
| LUBES | 86 | 569 |
| FO | 997 | 6327 |
| LSHS | 25 | 143 |
| BITUMEN | 344 | 2601 |
| RPC(Petcoke) | 1209 | 7969 |
| Others | 2429 | 14430 |
| TOTAL | 22365 | 145057 |
| <i>Note: All figures are provisional. Source : Oil Companies</i> | | |
| <i>* Others include products like Propylene, solvents (Hexane, Benzene, Toluene, Xylene and Specialty solvents), Reformate, Mineral Turpentine Oil, Carbon Black Feeds Sock, Waxes, Sulphur etc.</i> | | |

- Production of petroleum products from refineries and fractionators increased by 6.4% in October 2017 as compared to October 2016. On cumulative basis an increase of 2.8% was registered during April - October 2017 over April – October 2016.
- SKO production registered de-growth of 7.0% during October 2017 and 30.3% during April – October 2017 as compared to the corresponding period of previous year mainly because of reduced allocation to states and also voluntary surrender of PDS SKO quota by a few states.
- On cumulative basis production of FO decreased by 9.3% 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 – October 2017 is shown in figure-3 below:

Figure-3; Percentage share of POL products in production: April - October 2017^(P)



LPG, MS, ATF, SKO and HSD accounted for 69.7% of total POL production during April – October 2017.

5.0 Import of Crude oil and Petroleum Products

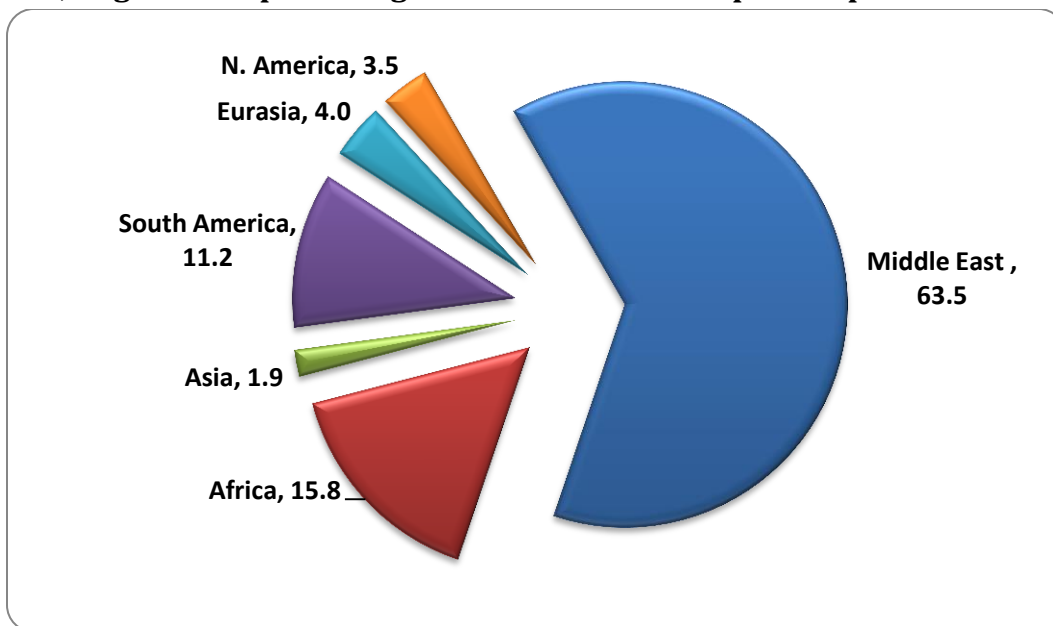
5.1 Details of import of crude oil and petroleum products are given in Table-2:

| Table-2; Import of Crude oil and Petroleum Products | | |
|--|-----------------------------------|--|
| <i>(Thousand Metric Tonnes)</i> | | |
| Imports | October 2017^(P) | April-October 2017^{P)} |
| Crude oil | 19037 | 125810 |
| PRODUCT IMPORT # | | |
| LPG | 1198 | 6388 |
| MS/ Petrol | 0 | 174 |
| Naphtha | 219 | 962 |
| ATF | 26 | 161 |
| HSD | 4.9 | 1250 |
| LOBS/Lube oil | 169 | 1323 |
| Fuel Oil | 141 | 601 |
| Bitumen | 75 | 473 |
| Petcoke | 1040 | 7988 |
| Others* | 234 | 1591 |
| TOTAL | 3107 | 20911 |
| <i>Note: All figures are provisional. Source: Oil Companies # DGCI&S data is estimated. * Others include SKO, CBFS, Paraffin wax, Petroleum Jelly, LSWR , Aviation Gas etc.</i> | | |

- Crude oil imports during October 2017 increased by 4.9% as compared to October 2016. Middle East region continued to be the largest source of crude oil imports at 63.5% followed by Africa at 15.8% and South America at 11.2% during April – October 2017.
- Crude oil imports from OPEC countries reduced to 83.6% of total imports during April - October 2017 as compared to 87.8% of total imports during April - October 2016 with increased imports from non-OPEC countries like US, Canada, Russia, Kazakhstan and Sudan.
- Crude oil imports of PSU/JV oil companies during October 2017 increased by 7.0% as compared to October, 2016 but registered a marginal decrease of 0.3% during April - October 2017 as compared to the corresponding period of the previous year mainly due to planned shutdown in various PSU /JV refineries during the period.
- Crude oil imports of private oil companies increased by 1.7% during October 2017 as compared to October 2016 and it registered an increase of 2.0% in April - October 2017 as compared to the corresponding period of the previous year.

Region wise crude oil import share during April - October 2017 is given below.

Figure-4; Region wise percentage share of crude oil imports: April-October 2017^(P)

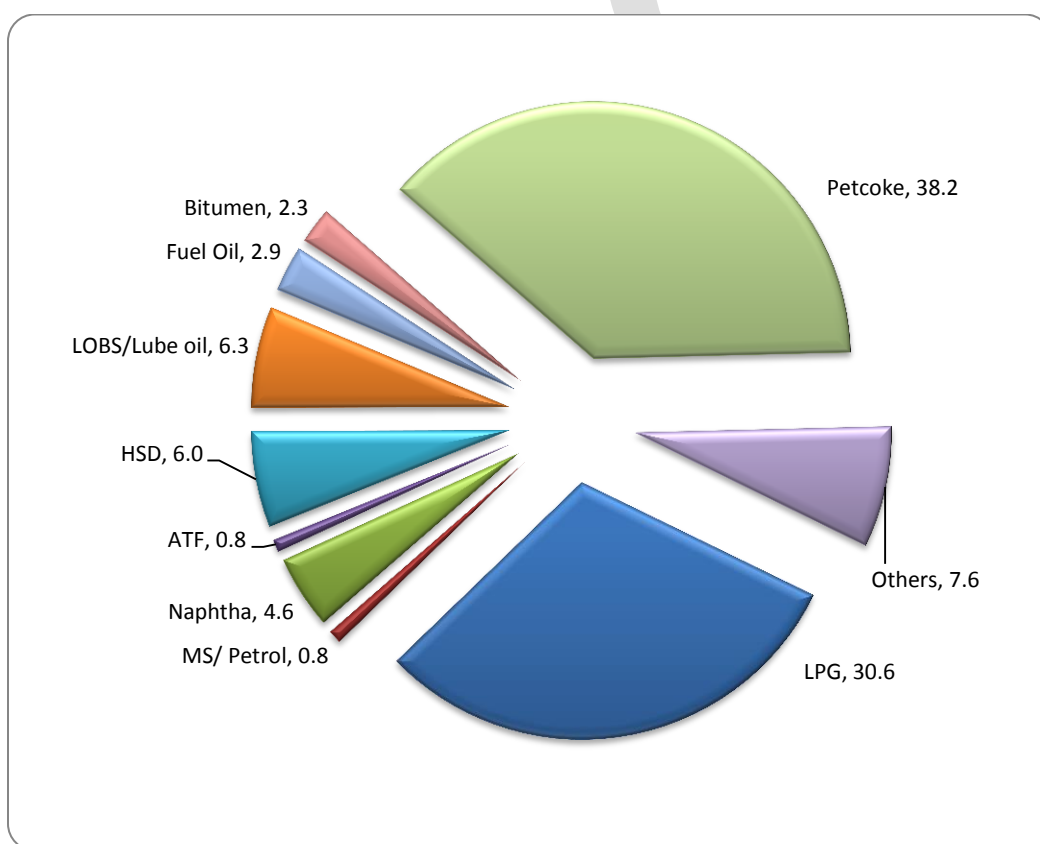


- Import of POL products decreased by 3.9% during October 2017 and 5.9% during April - October 2017 as compared to the corresponding period of the previous year mainly due to reduction in MS, naphtha and petcoke imports.
- Saudi Arabia, UAE, USA and Qatar were the top countries from where 63.1% of total POL products were imported during April – October 2017. LPG was mainly imported from Saudi Arabia, UAE, Kuwait and Qatar during April - October 2017. Petcoke and CBFS were major components of import of POL from USA and Saudi Arabia.
- Import of LPG and petcoke accounted for 72.0% share of the total petroleum product imports during October 2017, while LPG alone accounted for 38.6% of total POL imports. LPG imports increased by 9.7% during April - October 2017 as compared to the corresponding period of the previous year due to increase in domestic consumption. Further, 97.2% of total LPG imports were from the Middle East during the month.
- Petcoke imports, with a percentage share of 33.5% of total POL imports during October 2017, were mainly done by cement and steel industries as a cheap substitute of coal. Saudi Arabia and USA were the main supply source for petcoke.

- Import of naphtha remained at the same level during October 2017 as compared to October 2016. On cumulative basis naphtha imports decreased by 45.2% during April - October 2017 as compared to the same period last year due to decrease in domestic consumption in fertilizer and petrochemical sectors.

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

Figure-5; Percentage share of petroleum products in imports: April-October 2017^(P)



6.0 Export of Petroleum Products

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

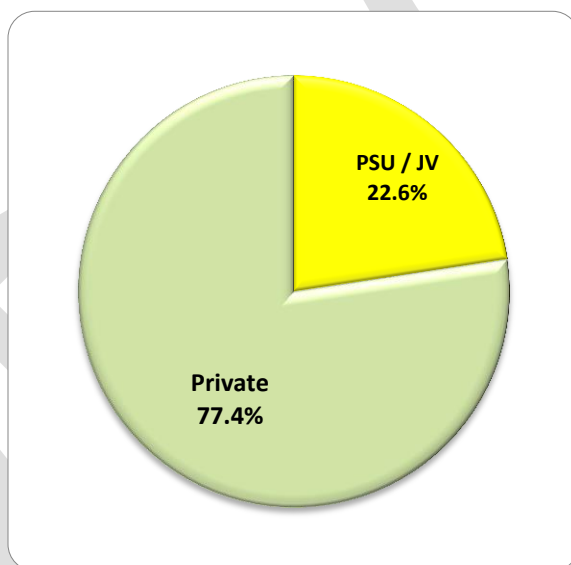
| Table-3; Export of major petroleum products | | |
|--|-----------------------------------|---|
| <i>(Thousand Metric Tonnes)</i> | | |
| Exports | October 2017^(P) | April - October 2017^(P) |
| LPG | 30 | 197 |
| MS | 1030 | 8194 |
| NAPHTHA | 851 | 5250 |
| AVIATION. TURBINE FUEL | 647 | 3953 |
| HSD | 2912 | 17125 |
| SKO | 1 | 10 |
| LDO | 4 | 14 |
| LOBS/ LUBE OIL | 1 | 9 |
| FUEL OIL | 272 | 1713 |
| BITUMEN | 12 | 53 |
| PET COKE | 42 | 336 |
| VGO | 40 | 488 |
| OTHERS* | 147 | 1466 |
| PRODUCT EXPORT | 5989 | 38809 |
| <i>Note: All figures are provisional. Source : Oil Companies</i> | | |
| <i>* Others in export include CBFS, Hexane, Benzene, MTO, Paraffin wax, Sulphur etc.</i> | | |

6.2 Significant variations in export of petroleum products are analyzed below:

- Export of petroleum products decreased by 2.7 % during October 2017 as compared to October 2016 primarily due to decreased surplus availability of POL products like MS and fuel oil which constituted 21.7% of total POL exports. On cumulative basis export of petroleum products marginally increased by 0.7% during April - October 2017 as compared to April - October 2016. MS, naphtha, ATF and HSD constituted 89.0% of POL exports during April - October 2017.
- HSD exports increased by 7.5% during October 2017 in comparison to October 2016. HSD share in exports of POL was 48.6% during October 2017 as compared to 44.0% during October 2016. On cumulative basis HSD exports increased by 3.9% during April - October 2017 as compared to April - October 2016. Singapore, Turkey, South Africa and Australia were the major export destinations of HSD.

- MS exports showed de-growth of 18.2% due to lower surplus availability of MS during October 2017. On cumulative basis MS exports dropped by 13.2% during April - October 2017 as compared to the corresponding period of the previous year. MS was mainly exported to UAE, Oman and USA (76.7% of total MS exports) during April - October 2017.
- Percentage share of POL exports by PSU/JV and private oil companies during April- October 2017 are given in figure-6.

**Figure-6; Percentage share of PSU/JV and private oil companies in POL exports
April-October 2017^(P)**



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