

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

&

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

October 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 October 2018 was lower by 5% than that of October 2017. PSC fields registered de-growth of 2.9% during the month over October 2017. PSU companies OIL and ONGC registered de-growth of 1.4% and 6.6% respectively during the month over October 2017. On cumulative basis de-growth of 3.6% was registered during April – October 2018 over the corresponding period of the previous year.
- Total crude oil processed during October 2018 was 21.9 MMT, which was a decrease of 1% over October 2017. On cumulative basis an increase of 4.1% was registered in the total crude oil processed during April – October 2018 over the corresponding period of the previous year.
- Production of petroleum products during October 2018 saw a growth of 1.2% over October 2017. During April – October 2018, an increase of 5.8% was registered in the total production of petroleum products over April – October 2017.
- Crude oil imports during October 2018 and April – October 2018 increased by 10.5% and 6.4% respectively as compared to the same period of the previous year.
- Product imports decreased by 19.8% and 9.1% during October 2018 and April – October 2018 respectively over the corresponding period of the previous year. Decrease in POL product imports during April-October 2018 was due to decrease in imports of HSD and petcoke.
- Exports of products decreased by 4.3% and 6.0% during October 2018 and April-October 2018 respectively over the corresponding period of the previous year. Decrease in exports during April-October 2018 was mainly due to decrease in exports of MS, naphtha, HSD, fuel oil, bitumen and VGO.

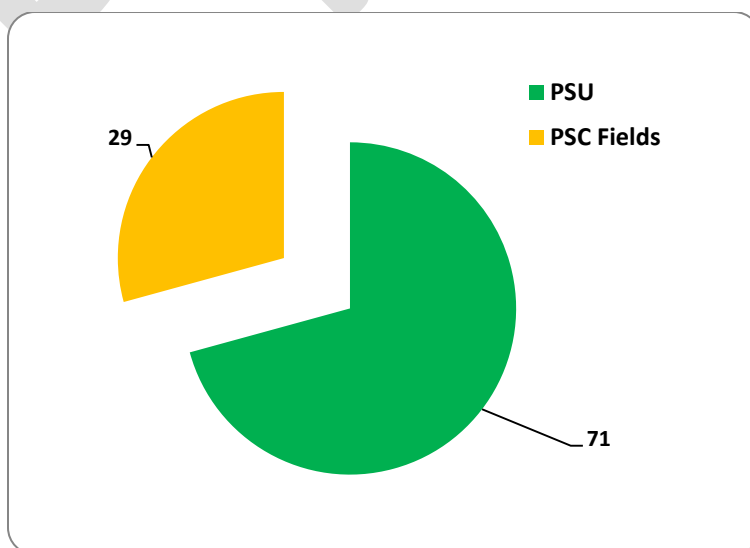
2. Indigenous crude oil and condensate production

2.1. Production of indigenous crude oil and condensate registered a de-growth of 5% during October 2018 as compared to October 2017 and a de-growth of 3.6% during April - October 2018 as compared to April - October 2017.

- OIL's crude oil production in October 2018 was lower by 1.4% as compared to the production during October 2017. OIL's crude oil production registered a de-growth of 0.6% during April - October 2018 as compared to the corresponding period of the previous year.
- In case of ONGC, crude oil and condensate production in October 2018 was lower by 6.6% as compared to October 2017. De-growth of 5.7% in production was recorded during April - October 2018 vis a vis April - October 2017.
- Indigenous crude oil and condensate production under PSC fields decreased by 2.9% during October 2018 as compared to October 2017. On cumulative basis the PSC fields production during April - October 2018 was 0.1% lower than the crude oil and condensate production during April - October 2017.

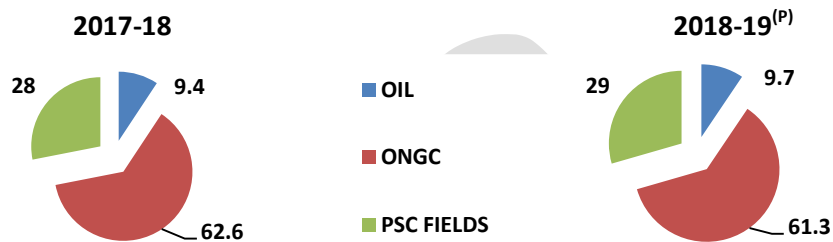
The percentage share of PSU upstream companies and PSC fields in overall crude oil and condensate production including condensate during April - October 2018^(P) is shown in figure-1 below:

Figure-1; Percentage share in crude oil and condensate production; April – October 2018^(P)



The percentage share of ONGC in overall crude oil production including condensate decreased during April - October 2018 as compared to April - October 2017 while the share of OIL marginally increased. PSC fields' share also increased during April - October 2018 as compared to April - October 2017. 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

3.1. Total crude oil processed by Indian refineries was 21.9 MMT during October 2018 and 150.5 MMT during April - October 2018.

- During October 2018 crude oil processed was lower by 1% over October 2017. However during April - October 2018 crude oil processed was higher by 4.1% over the corresponding period of the previous year.
- Refineries processed 74.1% of high sulphur crudes during October 2018 as compared to 75.6% in October 2017. During April - October 2018, 76% high sulphur crudes were processed against 74.1% in the corresponding period of the previous year.
- Based on processing of indigenous crude oil/condensate and the country's domestic POL consumption, self-sufficiency of petroleum products was 16.5% in October 2018 against 17.9% during October 2017. During April - October 2018 self-sufficiency was 16.7% against 17.4% during 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.

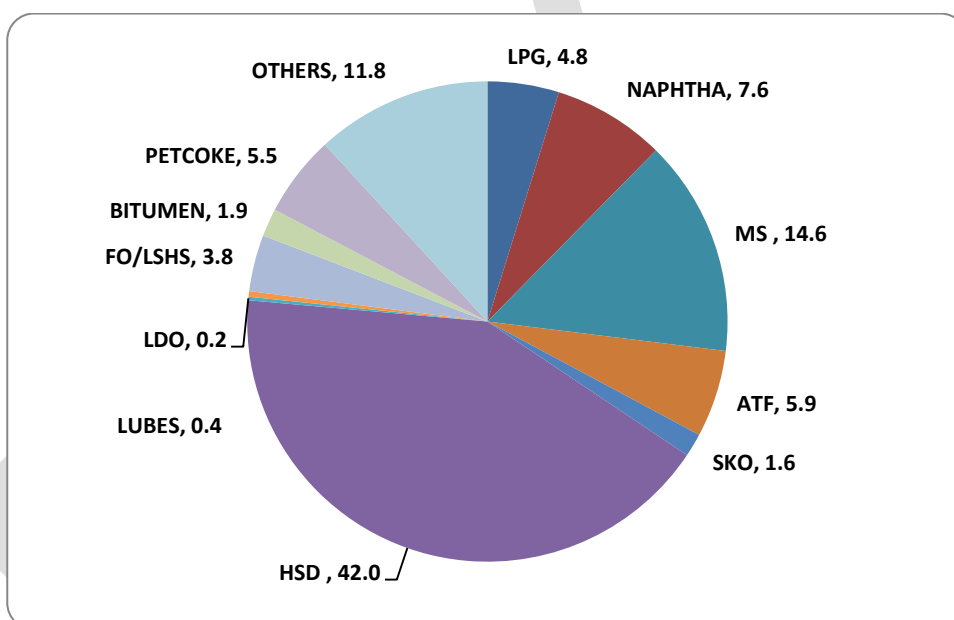
Table-1; Production of petroleum products		
<i>(Thousand Metric Tonnes)</i>		
PRODUCTS	October 2018 ^(P)	April – October 2018 ^(P)
LPG	1085	7377
NAPHTHA	1766	11616
MS BS-IV	2048	13849
MS BS-VI	45	375
MS Others	1159	8142
ATF	1346	8998
SKO	253	2399
HSD BS-IV	5768	40831
HSD BS-VI	71	521
HSD Others	3640	23120
LDO	86	359
LUBES	65	579
FO	852	5587
LSHS	33	243
BITUMEN	417	2886
RPC(Petcoke)	1258	8389
Others	2756	18143
TOTAL	22649	153412

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 Feedstock, Waxes, Sulphur etc.*

- Production of petroleum products from refineries and fractionators increased by 1.2% in October 2018 and 5.8% in April - October 2018 over the corresponding period of the previous year.
- LPG production registered a growth of 1.1% and 7.3% respectively during October 2018 and April - October 2018 over the corresponding period of the previous year.
- Naphtha and FO production registered a de-growth of 4.6% and 14.6% respectively during October 2018 as compared to October 2017. Naphtha and FO registered a de-growth of 0.7 and 11.4% respectively during April – October 2018 over the corresponding period of the previous year.

- Bitumen registered a growth of 21.3% and 10.9% respectively during October 2018 and April – October 2018 over the corresponding period of the previous year.
- Petcoke production increased during October 2018 and April - October 2018 by 4.1% and 5.3% respectively over the corresponding period of the previous year as a result of operation of bottom upgradation units.
- The percentage share of various products in total POL production during April-October 2018 is shown in figure-3 below:

Figure-3; Percentage share of POL products in production; April–October 2018^(P)



LPG, MS, ATF, SKO and HSD accounted for 68.8% of total POL production during April - October 2018.

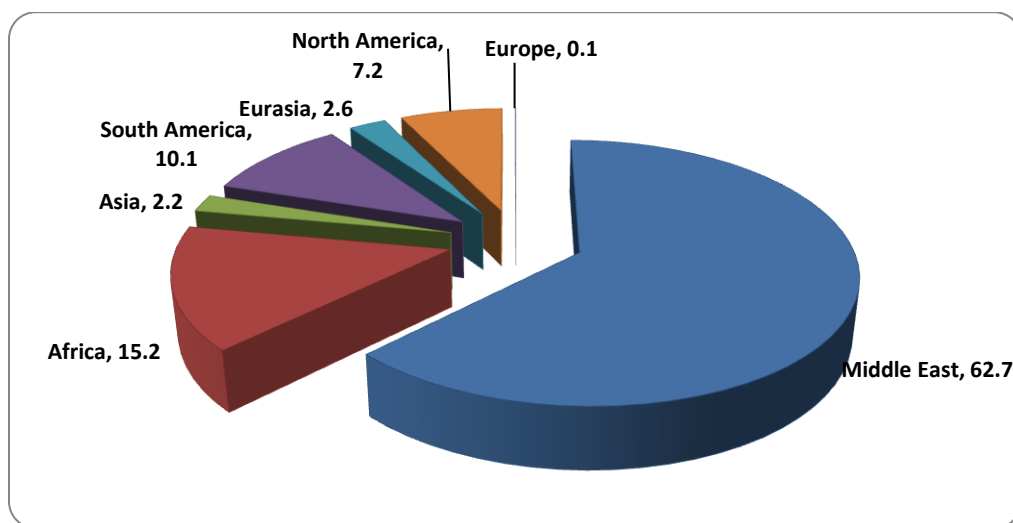
5. Import of Crude oil and Petroleum Products

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		
<i>(Thousand Metric Tonnes)</i>		
IMPORT	October 2018 ^(P)	April - October 2018 ^(P)
Crude oil	21023	133890
PRODUCT #		
LPG	1007	7257
MS/ Petrol	36	281
Naphtha	187	1360
ATF	25	178
HSD	6	210
LOBS/Lube oil	226	1613
Fuel Oil	51	958
Bitumen	79	491
Petcoke	828	4896
Others\$	190	1926
TOTAL	2635	19171
<i>"Notes: (P): Provisional. Source : Oil Companies DGCIS September and October 2018 quantity prorated on the basis of September 2017- August 2018 actual data provided by DGCIS."</i>		
<i>\$ Others include SKO, CBFS, Paraffin wax, Petroleum Jelly, LSWR , Aviation Gas etc.</i>		

- Crude oil imports during October 2018 and April-October 2018 increased by 10.5% and 6.4% respectively as compared to the same period of the previous year.
- Crude oil imports from OPEC countries decreased to 82.2% of total imports during April-October 2018 as compared to 83.8% during April-October 2017 with increased imports from non OPEC countries.
- Crude oil imports by PSU/JV increased by 14.4% and 11.4% during October 2018 and April-October 2018 respectively over the corresponding period of the previous year.
- Crude oil imports by private companies increased by 4.2% and decreased by 1.1% during October 2018 and April-October 2018 respectively over the corresponding period of the previous year.
- Region wise crude oil import share during April– October 2018 is given in figure-4.

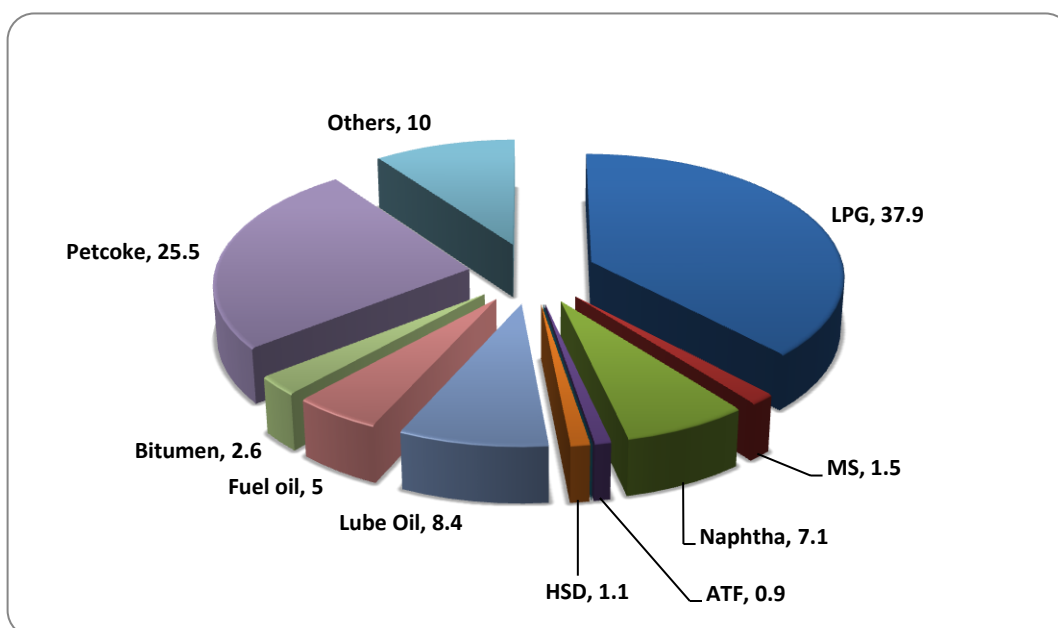
Figure-4; Region wise percentage share of crude oil imports: April - October 2018^(P)



- Product imports decreased by 19.8% and 9.1% during October 2018 and April-October 2018 respectively over the corresponding period of the previous year. Decrease in POL product imports during April-October 2018 was due to decrease in imports of HSD and Petcoke.
- Import of LPG and pet coke accounted for 69.6% share of the total petroleum product imports during October 2018, while LPG alone accounted for 38.2% of total POL imports. Further, 96.4% of total LPG imports were from the Middle Eastern region during October 2018.
- Petcoke imports, with a percentage share of 31.4% of total POL imports during October 2018, were mainly done by cement and steel industries as it is a cheap substitute for coal.
- Import of naphtha decreased by 20.1% during October 2018 as compared to October 2017. Private sector accounted for 93.6% of the total naphtha imports during April- October 2018.

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

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



6. Export of Petroleum Products

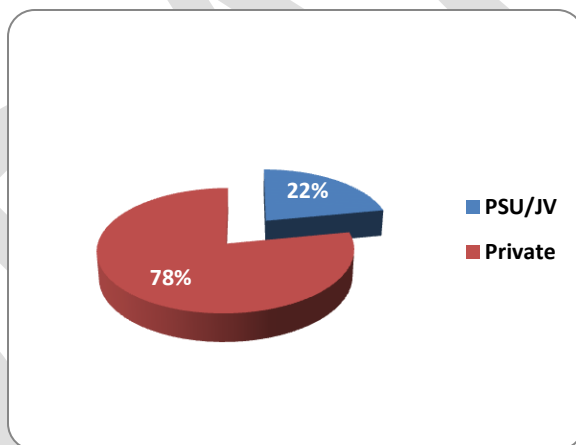
6.1 The details of export of petroleum products are given in Table-3 below:

PRODUCT	October 2018 ^(P)	April - October 2018 ^(P)
LPG	34	230
MS	1176	7501
Naphtha	563	4335
ATF	598	4283
SKO	2	11
HSD	2731	16855
LDO	33	33
LOBS/Lube oil	0	4
Fuel Oil	310	1291
Bitumen	2	13
Pet Coke	153	754
VGO	50	205
Others [#]	77	918
TOTAL EXPORT	5730	36432

Note: (P): Provisional. Source : Oil Companies
[#] Others include CBFS, Hexane, Benzene, MTO, Paraffin wax, Polypropylene, Sulphur etc.

- Exports of products decreased by 4.3% and 6.0% during October 2018 and April- October 2018 respectively over the corresponding period of the previous year. Decrease in exports during April-October 2018 was mainly due to decrease in exports of MS, naphtha, HSD, fuel oil, bitumen and VGO.
- HSD exports decreased by 7.3% and 1.8% during October 2018 and April- October 2018 respectively over the corresponding period of the previous year.
- MS exports increased by 18.1% and decreased by 7.4% during October 2018 and April- October 2018 respectively over the corresponding period of the previous year.
- Percentage share of POL exports by PSU/JV and private oil companies during April- October 2018 is given in figure -6.

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



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