

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

&

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

November 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 November 2018 was lower by 3.5% than that of November 2017. PSC fields registered de-growth of 0.4% during the month over November 2017. PSU companies OIL and ONGC registered de-growth of 2.4% and 5% respectively during the month over November 2017. On cumulative basis de-growth of 3.6% was registered during April – November 2018 over the corresponding period of the previous year.
- Total crude oil processed during November 2018 was 21.1 MMT, which was a decrease of 0.6% over November 2017. On cumulative basis an increase of 3.5% was registered in the total crude oil processed during April – November 2018 over the corresponding period of the previous year.
- Production of petroleum products during November 2018 saw a growth of 2.4% over November 2017. During April – November 2018, an increase of 5.4% was registered in the total production of petroleum products over April – November 2017.
- Crude oil imports during November 2018 decreased by 11.4%. However during April - November 2018 imports increased by 4.1% as compared to the same period of the previous year.
- Product imports decreased by 6.9% and 11.2% during November 2018 and April - November 2018 respectively over the corresponding period of the previous year. Decrease in POL product imports during April - November 2018 was due to decrease in imports of HSD and petcoke.
- Exports of products decreased by 6.7% and 6% during November 2018 and April - November 2018 respectively over the corresponding period of the previous year. Exports of all products decreased except for ATF, LDO and petcoke/CBFS/sulphur during April - November 2018, mainly due to increase in domestic consumption.

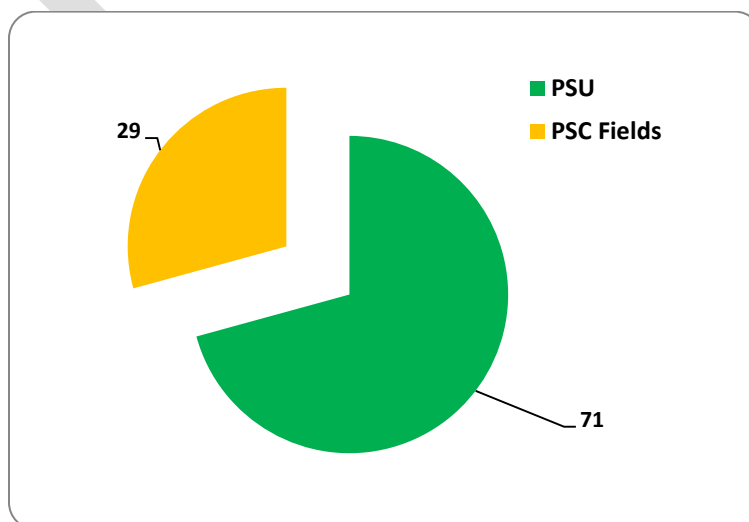
2. Indigenous crude oil and condensate production

2.1. Production of indigenous crude oil and condensate registered a de-growth of 3.5% during November 2018 as compared to November 2017 and a de-growth of 3.6% during April - November 2018 as compared to April - November 2017.

- OIL's crude oil production in November 2018 was lower by 2.4% as compared to the production during November 2017. OIL's crude oil production registered a de-growth of 0.8% during April - November 2018 as compared to the corresponding period of the previous year.
- In case of ONGC, crude oil and condensate production in November 2018 was lower by 5% as compared to November 2017. De-growth of 5.6% in production was recorded during April - November 2018 vis- a- vis April - November 2017.
- Indigenous crude oil and condensate production under PSC fields decreased by 0.4% during November 2018 as compared to November 2017. On cumulative basis the PSC fields production during April - November 2018 was 0.1% lower than the crude oil and condensate production during April - November 2017.

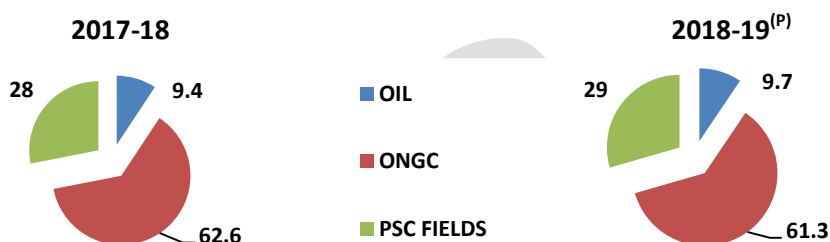
The percentage share of PSU upstream companies and PSC fields in overall crude oil and condensate production including condensate during April - November 2018^(P) is shown in figure-1 below:

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



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

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



3. Crude oil processing by Oil Companies

3.1. Total crude oil processed by Indian refineries was 21.1 MMT during November 2018 and 171.6 MMT during April - November 2018.

- During November 2018 crude oil processed was lower by 0.6% over November 2017. However during April - November 2018 crude oil processed was higher by 3.5% over the corresponding period of the previous year.
- Refineries processed 75.1% of high sulphur crudes during November 2018 as compared to 76.3% in November 2017. During April - November 2018, 75.9% high sulphur crudes were processed against 74.4% 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 November 2018 against 16.1% during November 2017. During April - November 2018 self-sufficiency was 16.7% against 17.3% 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.

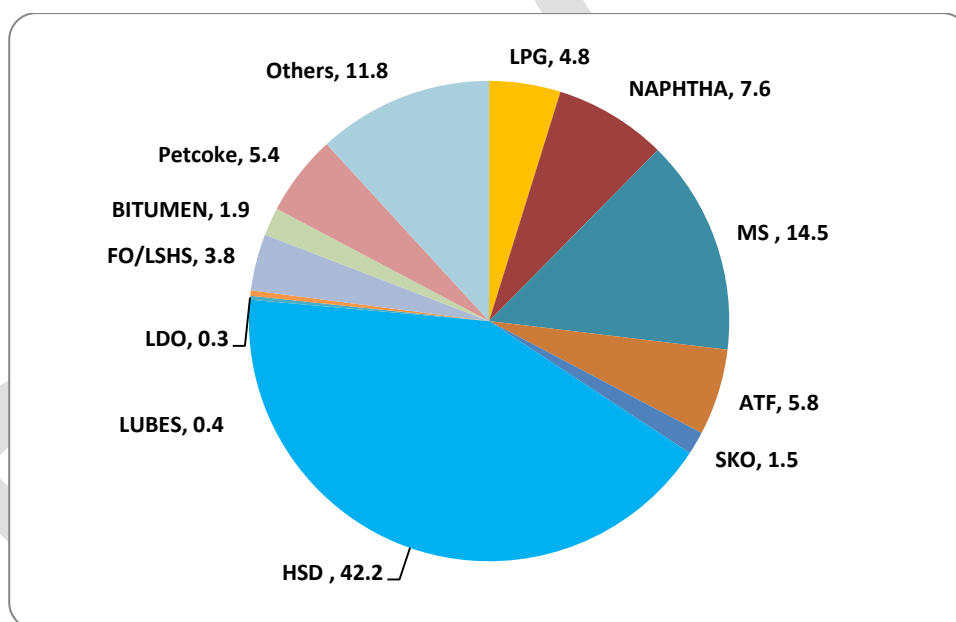
Table-1; Production of petroleum products		
<i>(Thousand Metric Tonnes)</i>		
PRODUCTS	November 2018 ^(P)	April – November 2018 ^(P)
LPG	1043	8419
NAPHTHA	1684	13300
MS BS-IV	2009	15857
MS BS-VI	55	431
MS Others	997	9139
ATF	1191	10188
SKO	316	2715
HSD BS-IV	6019	46850
HSD BS-VI	61	582
HSD Others	3320	26440
LDO	105	463
LUBES	59	639
FO	814	6400
LSHS	31	274
BITUMEN	422	3308
RPC(Petcoke)	1144	9533
Others	2564	20707
TOTAL	21834	175246

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 2.4% in November 2018 and 5.4% in April - November 2018 over the corresponding period of the previous year.
- LPG production registered a de-growth of 5.3% during November 2018. However growth of 5.6% was registered during April - November 2018 over the corresponding period of the previous year.
- Naphtha and FO production registered a growth of 2.1% and 6.4% respectively during November 2018 as compared to November 2017. Naphtha and FO registered a de-growth of 0.4% and 9.5% respectively during April – November 2018 over the corresponding period of the previous year.

- Bitumen production registered a de-growth of 8.6% during November 2018. However growth of 8% was registered during April – November 2018 over the corresponding period of the previous year.
- Petcoke production decreased by 2.3% during November 2018. However an increase of 4.3% was registered during April - November 2018 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 - November 2018 is shown in figure-3 below:

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



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

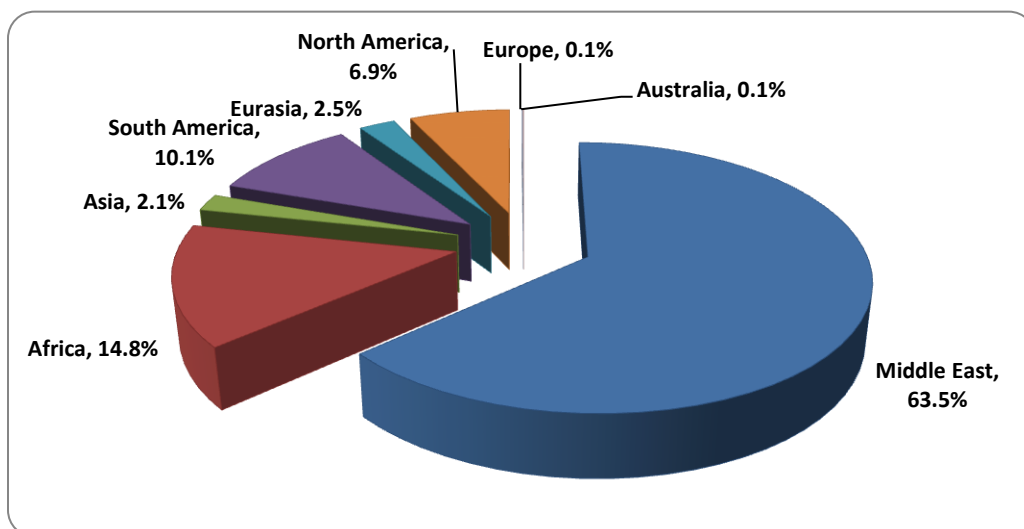
5. Import of Crude oil and Petroleum Products

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	November 2018 ^(P)	April - November 2018 ^(P)
Crude oil	17009	150984
PRODUCT #		
LPG	1029	8285
MS/ Petrol	37	319
Naphtha	182	1514
ATF	26	217
HSD	6	213
LOBS/Lube oil	241	1818
Fuel Oil	51	992
Bitumen	79	544
Petcoke	775	5164
Others\$	215	2180
TOTAL	2642	21246
<i>"Notes: (P): Provisional. Source : Oil Companies</i> <i># DGCIS October and November 2018 quantity prorated on the basis of October 2017-September 2018 actual data provided by DGCIS."</i> <i>\$ Others include SKO, CBFS, Paraffin wax, Petroleum Jelly, LSWR, Aviation Gas etc.</i>		

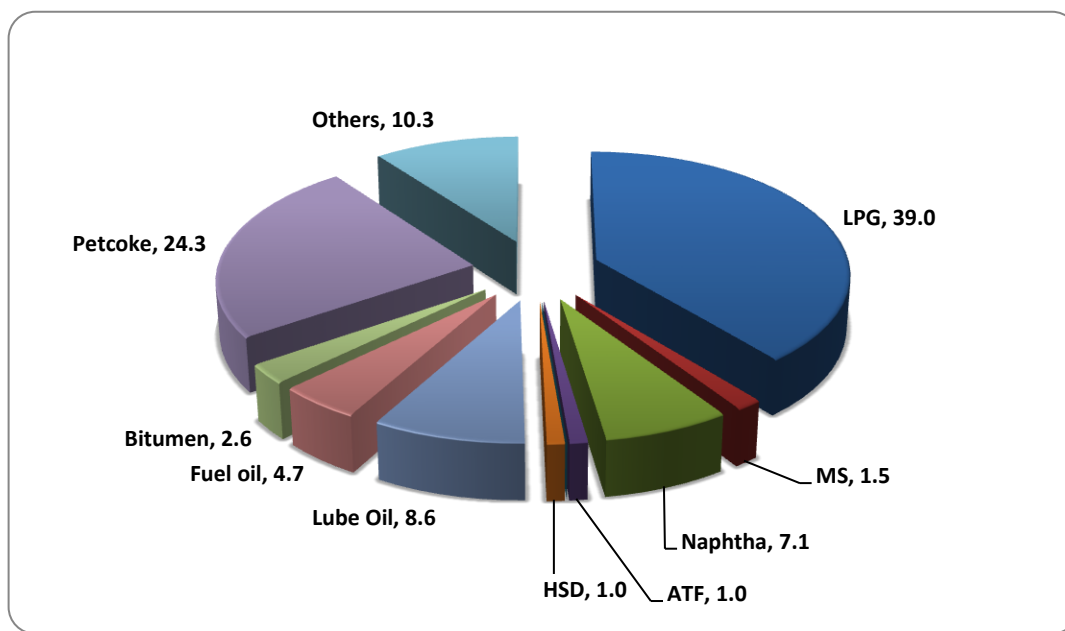
- Crude oil imports during November 2018 decreased by 11.4%. However during April - November 2018 imports increased by 4.1% as compared to the same period of the previous year.
- Crude oil imports from OPEC countries increased to 83.0% of total imports during April - November 2018 as compared to 82.5% during April - November 2017.
- Crude oil imports by PSU/JV decreased by 1.9% and increased by 9.8% during November 2018 and April - November 2018 respectively over the corresponding period of the previous year.
- Crude oil imports by private companies decreased by 25.1% and 4.4% during November 2018 and April - November 2018 respectively over the corresponding period of the previous year.
- Region wise crude oil import share during April - November 2018 is given in figure-4.

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



- Product imports decreased by 6.9% and 11.2% during November 2018 and April - November 2018 respectively over the corresponding period of the previous year. Decrease in POL product imports during April - November 2018 was due to decrease in imports of HSD and petcoke.
- Imports of LPG and petcoke accounted for 68.3% share of the total petroleum product imports during November 2018, while LPG alone accounted for 38.9% of total POL imports. Further, 96.6% of total LPG imports were from the Middle Eastern region during November 2018.
- Petcoke imports, with a percentage share of 29.3% of total POL imports has registered a de-growth of 23.1% during November 2018 as compared to November 2017.
- Imports of naphtha increased by 55.5% during November 2018 as compared to November 2017. Private sector accounted for 93.3% of the total naphtha imports during April - November 2018.
- Imports of LOBS/Lube oil increased by 8.8% during November 2018 as compared to November 2017. Private sector accounted for 95.9% of the total LOBS/Lube oil imports during April - November 2018.
- The percentage share of all major products in the imports of the country during April - November 2018 is shown in figure-5.

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



6. Export of Petroleum Products

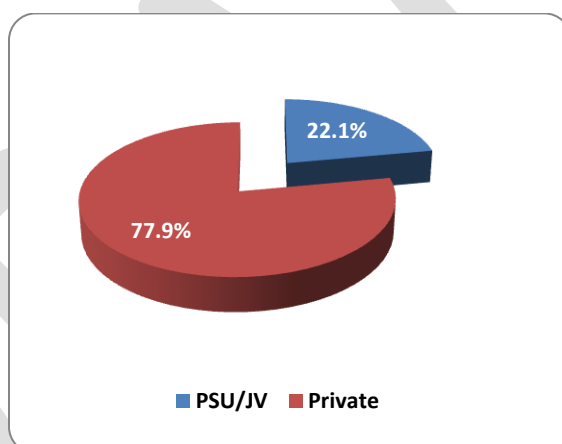
6.1 The details of export of petroleum products are given in Table-3 below:

<i>(Thousand Metric Tonnes)</i>		
PRODUCT	November 2018 ^(P)	April - November 2018 ^(P)
LPG	29	259
MS	1110	8611
Naphtha	661	4996
ATF	611	4894
SKO	1	13
HSD	2311	19179
LDO	66	99
LOBS/Lube oil	1	5
Fuel Oil	75	1365
Bitumen	0	12
Pet Coke	44	798
VGO	25	230
Others [#]	309	1227
TOTAL EXPORT	5241	41687

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

- Exports of products decreased by 6.7% and 6% during November 2018 and April - November 2018 respectively over the corresponding period of the previous year. Exports of all products decreased except for ATF, LDO and petcoke/CBFS/sulphur during April - November 2018, mainly due to increase in domestic consumption.
- HSD exports decreased by 11.4% and 3.0% during November 2018 and April - November 2018 respectively over the corresponding period of the previous year.
- MS exports decreased by 2.4% and 6.8% during November 2018 and April - November 2018 respectively over the corresponding period of the previous year.
- Percentage share of POL exports by PSU/JV and private oil companies during April - November 2018 is given in figure -6.

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



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