

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

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

November 2019



Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

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

Highlights

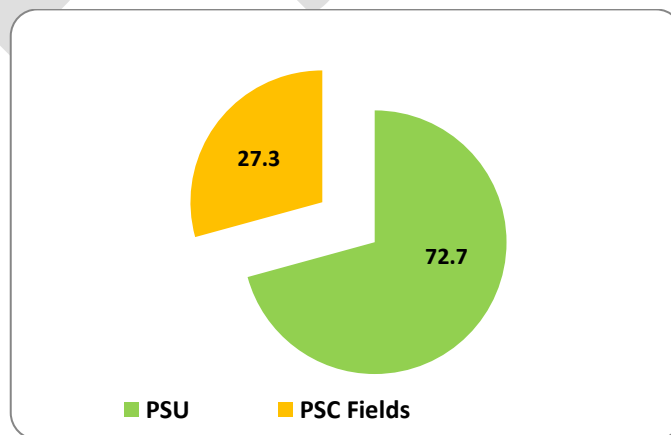
- Indigenous crude oil and condensate production during November 2019 and April – November 2019 was lower by 5.8% as compared to the corresponding period of the previous year.
- Total crude oil processed during November 2019 was 21.9 MMT, which was 3.8% higher than November 2018. On cumulative basis total crude oil processed was 169.6 MMT which was lower by 1.2% during April – November 2019 as compared to the corresponding period of the previous year.
- Production of petroleum products saw a growth of 3.1% during November 2019 and de-growth of 1.1% during April – November 2019 over the corresponding period of the previous year.
- Crude oil imports increased by 12.7% during November 2019 and decreased by 0.7% during April – November 2019 as compared to the corresponding period of the previous year.
- POL products imports increased by 45.4% and 36.3% during November 2019 and April – November 2019 respectively as compared to the corresponding period of the previous year. Increase in POL products imports during April – November 2019 was due to increase in imports of all products except naphtha and aviation turbine fuel (ATF).
- Exports of POL products increased by 16.4% and 4.5% during November 2019 and April – November 2019 as compared to the corresponding period of the previous year. Increase in POL products exports during April - November 2019 was mainly due to increase in exports of naphtha and high-speed diesel (HSD).

2. Indigenous crude oil and condensate production

- Production of indigenous crude oil and condensate of 2618 TMT in November 2019 registered a de-growth of 5.8% as compared to November 2018 and as against a de-growth of 5.1% during October 2019. Total indigenous production during April - November 2019 (21729 TMT) was a 5.8% degrowth over the corresponding period of the previous year.
- OIL's crude oil production in November 2019 was lower by 3.2% as compared to the production during November 2018. OIL's crude oil production registered a de-growth of 4% during April - November 2019 over the corresponding period of the previous year.
- In case of ONGC, crude oil and condensate production in November 2019 was lower by 1.9% as compared to November 2018. De-growth of 3.6% in production was recorded during April - November 2019 over the corresponding period of the previous year.
- Indigenous crude oil and condensate production under PSC fields decreased by 15.1% during November 2019 as compared to November 2018. On cumulative basis production from PSC fields during April - November 2019 was 11.2% lower than the crude oil and condensate production during April - November 2018.

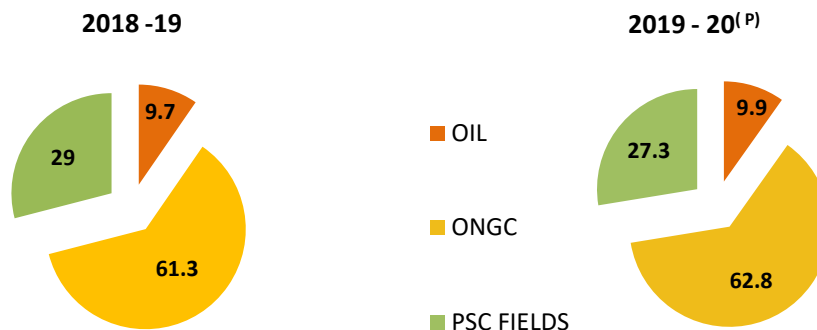
The percentage share of PSU upstream companies and PSC fields in overall crude oil and condensate production during April - November 2019 ^(P) is shown in figure-1 below:

Figure-1; Percentage share in crude oil and condensate production; April - November 2019^(P)



- The percentage share of ONGC and OIL in total crude oil and condensate production increased while the share of PSC fields decreased during April - November 2019 over the corresponding period of the previous year. 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

- Total crude oil processed by Indian refineries was 21.9 MMT during November 2019 (as compared to 21.1 MMT during November 2018) and 169.6 MMT during April - November 2019 as compared to 171.6 MMT.
- Crude oil processed was higher by 3.8% during November 2019 as compared to November 2018. On cumulative basis crude oil processed was lower by 1.2% during April – November 2019 as compared to the corresponding period of the previous year.
- Refineries processed 76% of high sulphur crudes during November 2019 as compared to 75.1% in November 2018. During April - November 2019, 74.5% high sulphur crudes were processed as compared to 75.9% during April - November 2018.
- Based on processing of indigenous crude oil/condensate and the country's domestic POL consumption, self-sufficiency of petroleum products was 13.8% in November 2019 against 16.87% during November 2018. During April - November 2019 self-sufficiency was 15.3% against 16.7% during the corresponding period of the previous year.

4. Production of Petroleum Products

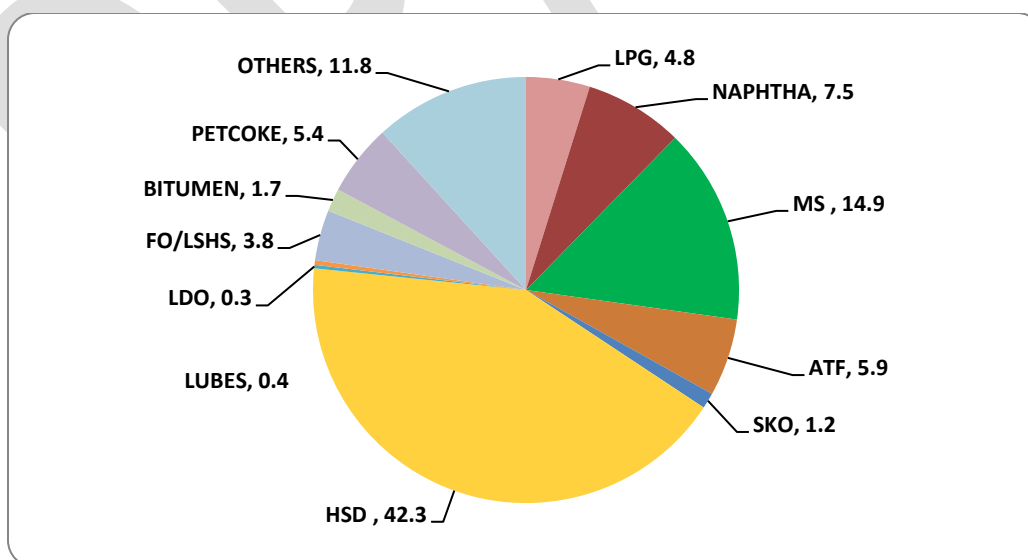
Details of production of petroleum products by refineries and fractionators are given in Table-1.

Table-1; Production of petroleum products		
<i>(Thousand Metric Tonnes)</i>		
Products	November 2019 ^(P)	April – November 2019^(P)
LPG	1144	8395
Naphtha	1936	13000
MS	3210	25788
ATF	1339	10209
SKO	232	2074
HSD	8979	73377
LDO	73	456
Lubes	63	613
FO	788	6373
LSHS	46	263
Bitumen	396	3022
RPC(Pet-coke)	1281	9386
Others	3026	20412
Total	22513	173368
<p><i>Note: (P): 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 Feedstock, Waxes, Sulphur etc.</i> <i>LPG: Liquefied petroleum gas, MS: Motor spirit, ATF: Aviation turbine fuel; SKO: Superior kerosene oil, HSD: High speed diesel;</i></p>		

- Production of petroleum products from refineries and fractionators increased by 3.1% during November 2019 as compared to November 2018. However, on cumulative basis production of petroleum products was lower by 1.1% during April – November 2019 as compared to the corresponding period of the previous year.
- Liquefied petroleum gas (LPG) production registered a growth of 9.7% during November 2019 as compared to November 2018. However, on cumulative basis production of was marginally lower by 0.3% during April – November 2019 as compared to the corresponding period of the previous year.
- Naphtha production registered a growth of 15% during November 2019 over November 2018. However, on cumulative basis production of was lower by 2.3% during April – November 2019 as compared to the corresponding period of the previous year.

- Motor spirit (MS)) BS-VI production increased to 172 TMT during November 2019 from 55 TMT in November 2018. The cumulative production during April - November 2019 also increased to 914 TMT from 431 TMT during April - November 2018.
- High speed diesel (HSD) BS-VI production increased to 459TMT during November 2019 from 71TMT in November 2018.The cumulative production during April - November 2019 increased to 2028 TMT from 592 TMT during April - November 2018.
- Fuel oil (FO) production decreased by 3.2% and 0.4% during November 2019 and April – November 2019 over the corresponding period of the previous year.
- Bitumen production registered a de-growth of 6.1% during November 2019 and 8.6% during November 2019 and April – November 2019 respectively over the corresponding period of the previous year.
- Pet-coke production increased by 12% during November 2019 over November 2018. However, the cumulative production during April – November 2019 decreased by 1.5% as compared to April – November 2018.
- The percentage share of various products in total POL production during April – November 2019 is shown in figure-3 below:

Figure-3; Percentage share of POL products in production; April – November 2019^(P)



Liquefied petroleum gas (LPG), motor spirit (MS), aviation turbine fuel (ATF), superior kerosene oil (SKO) and high-speed diesel (HSD) accounted for 69.1% of total POL production during April – November 2019.

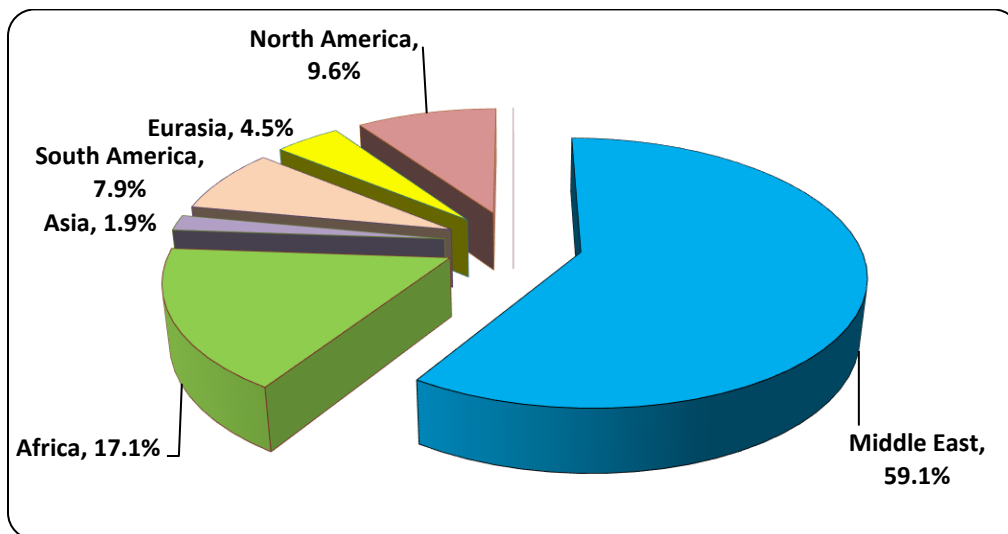
5. Import of Crude oil and Petroleum Products

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	November 2019^(P)	April – November 2019^(P)
Crude oil	19171	149874
Products #		
LPG	1309	9641
MS/ Petrol	138	1586
Naphtha	156	1340
ATF	7	79
HSD	8	1162
LOBS/Lube oil	208	1729
Fuel Oil	278	1801
Bitumen	88	762
Petcoke	826	7252
Others\$	267	2277
Total	3285	27629
<i>Notes: (P): Provisional. Source: Oil Companies & DGCIS</i>		
<i># October-November 2019 private import (POL) quantity prorated based on October 2018-September 2019 actual data provided by DGCIS.</i>		
<i>\$ Others include SKO, Paraffin wax, Petroleum Jelly, Aviation Gas, MTBE, Reformate etc. LPG: Liquefied petroleum gas, MS: Motor spirit, ATF: Aviation turbine fuel; SKO: Superior kerosene oil, HSD: High speed diesel; MTBE: Methyl tert-butyl ether</i>		

- Crude oil imports increased by 12.7% during November 2019 and decreased by 0.7% during April – November 2019 as compared to the corresponding period of the previous year.
- Crude oil imports from OPEC countries decreased to 78.9% of total imports during April – November 2019 as compared to 82.9% during April – November 2018.
- Crude oil imports by PSU/JV increased by 9% during November 2019 and decreased by 2.4% during April – November 2019 as compared to the corresponding period of the previous year.
- Crude oil imports by private companies increased by 19.7% and 2.2% during November 2019 and April – November 2019 respectively over the corresponding period of the previous year.
- Region wise crude oil import share during April – November 2019 is given in figure-4.

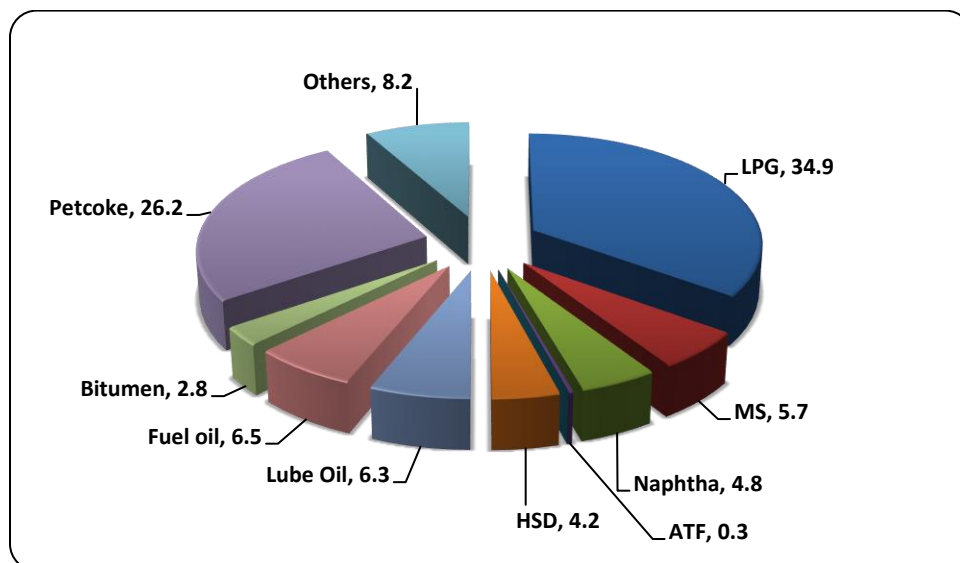
Figure-4; Region wise percentage share of crude oil imports; April – November 2019^(P)



- POL products imports increased by 45.4% and 36.3% during November 2019 and April – November 2019 respectively as compared to the corresponding period of the previous year. Increase in POL products imports during April – November 2019 was due to increase in imports of all products except naphtha and aviation turbine fuel (ATF).
- Imports of liquefied petroleum gas (LPG) and pet-coke accounted for 65% share of the total petroleum product imports during November 2019, while liquefied petroleum gas (LPG) alone accounted for 39.9% of total POL imports. Further, 93.8% of total liquefied petroleum gas (LPG) imports were from the Middle Eastern region during April – November 2019.
- Imports of 138 TMT of motor Spirit (MS) was done during November 2019 as compared to 37 TMT during November 2018.
- Imports of naphtha decreased by 33% during November 2019 as compared to November 2018.
- Import of 8 TMT of high-speed diesel (HSD) was done during November 2019 as well as November 2018.
- Imports of LOBS/lube oil decreased by 2.7% during November 2019 as compared to November 2018.
- Imports of fuel oil increased to 278 TMT during November 2019 as compared to 36 TMT during November 2018.

The percentage share of all major products in the imports of the country during April – November 2019 is shown in figure-5.

Figure-5; Percentage share of petroleum products in imports; April – November 2019^(P)



6. Export of Petroleum Products

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

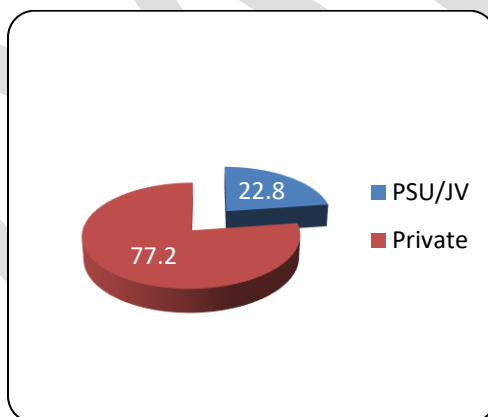
Table-3; Export of major Petroleum products		
<i>(Thousand Metric Tonnes)</i>		
Product	November 2019^(P)	April – November 2019^(P)
LPG	42	296
MS	1023	8456
Naphtha	705	5559
ATF	701	4728
SKO	2	14
HSD	3254	21005
LDO	0	0
LOBS/Lube oil	1	5
Fuel Oil	152	1277
Bitumen	2	19
Pet Coke	0	442
VGO	25	306
Others [#]	195	1455
Total Export	6102	43562

Note: (P): Provisional. Source: Oil Companies
Other include Benzene, Hexane, MTO, Paraffin wax, Polypropylene, Sulphur etc.
LPG: Liquefied petroleum gas, MS: Motor spirit, ATF: Aviation turbine fuel; SKO: Superior kerosene oil, HSD: High speed diesel, LDO: Light diesel oil, VGO: Vacuum gas oil, MTO: Mineral turpentine oil

- Exports of POL products increased by 16.4% and 4.5% during November 2019 and April – November 2019 as compared to the corresponding period of the previous year. Increase in POL products exports during April - November 2019 was mainly due to increase in exports of naphtha and high-speed diesel (HSD).
- Motor spirit (MS) exports decreased by 7.8% and 1.8% during November 2019 and April – November 2019 respectively over the corresponding period of the previous year.
- High speed diesel (HSD) exports increased by 40.8% and 9.5% during November 2019 and April – November 2019 respectively over the corresponding period of the previous year.

Percentage share of POL exports by PSU/JV and private oil companies during April – November 2019 is given in figure -6.

Figure-6; Percentage share of PSU/JV and private oil companies in POL exports; April – November 2019^(P)



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