

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

&

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

November 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 November 2017 was marginally higher by 0.2% than November, 2016. ONGC registered a de-growth of 1.5% while OIL registered a growth of 3.7%. during November 2017 as compared to November 2016 PSC fields also registered growth of 2.9% during the month as compared to November 2016.
- Total crude oil processed during November 2017 increased by 6.5% over November 2016, mainly due to increase in crude oil processed by PSU/JV refineries. On cumulative basis crude oil processed was higher by 2.1% over the period April - November, 2016-17.
- Production of petroleum products during November, 2017 saw a growth of 8.3% over November, 2016. On cumulative basis a growth of 3.4% was recorded in production over the period April - November, 2016-17.
- Crude oil imports increased by 1.6% during November 2017 as compared to November 2016. On cumulative basis crude oil imports marginally increased by 0.6% over the corresponding period of the previous year.
- Product imports increased by 7.7% during November 2017 as compared to November 2016 mainly due to increase in LPG imports for domestic consumption. On cumulative basis, product imports decreased by 4.9% over the corresponding period of previous year.
- Export of POL products increased by 3.1% during November 2017 as compared to November 2016 primarily due to higher surplus availability of MS, Naphtha and HSD. On cumulative basis, an increase of 1.0% was recorded in product exports over the period April - November, 2016-17.

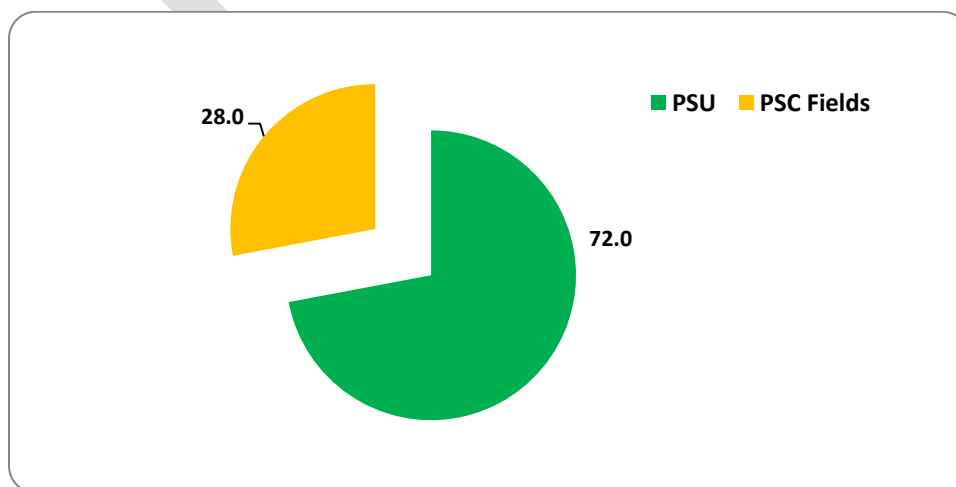
2. Indigenous crude oil and condensate production

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

- OIL's crude oil production in November 2017 was higher by 3.7% as compared to November 2016. On cumulative basis growth of 5.1% was recorded during April – November 2017 as compared to the corresponding period in 2016-17.
- In case of ONGC, crude oil and condensate production in November 2017 saw a de-growth of 1.5% as compared to November 2016. However on cumulative basis a growth of 1.8% was recorded in total crude oil and condensate production during April – November 2017 as compared to April – November 2016.
- Indigenous crude oil and condensate production under PSC fields recorded a growth of 2.9% during November 2017 over November 2016. However on cumulative basis de-growth of 5.9% was recorded during April - November 2017 as compared to the corresponding period in 2016-17.

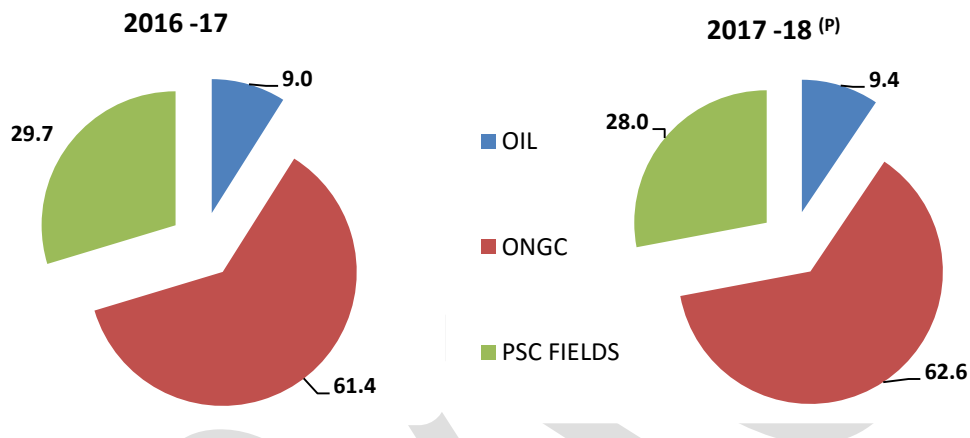
The percentage share of PSU upstream companies and PSC in overall crude oil production including condensate during April – November 2017 is shown in figure-1 below:

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



The percentage share of ONGC and OIL in overall crude oil production including condensate during April – November 2017 has increased as compared to April – November 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 – November



3. Crude oil processing by Oil Companies

The total crude oil processed by Indian refineries was 21226 TMT during November 2017 and 165831 TMT during April - November 2017.

- Indigenous crude oil processed during April - November 2017 decreased by 1.1% over April - November 2016. However, an increase of 2.6% was observed in total imported crude oil processed during April - November 2017 over the corresponding period of last year.
- Indian refineries processed 76.3% of high sulphur crude during November 2017 as compared to 72.6% in November 2016. On cumulative basis 74.4% of high sulphur crude was processed during April - November 2017 as against 72.4% in the corresponding period of 2016-17.
- Self-sufficiency of petroleum products on consumption basis was 16.3% in November 2017 as against 17.6% during November 2016. On cumulative basis self-sufficiency was 17.4% during April - November 2017 as against 18.0% during April - November 2016.

4. Production of Petroleum Products

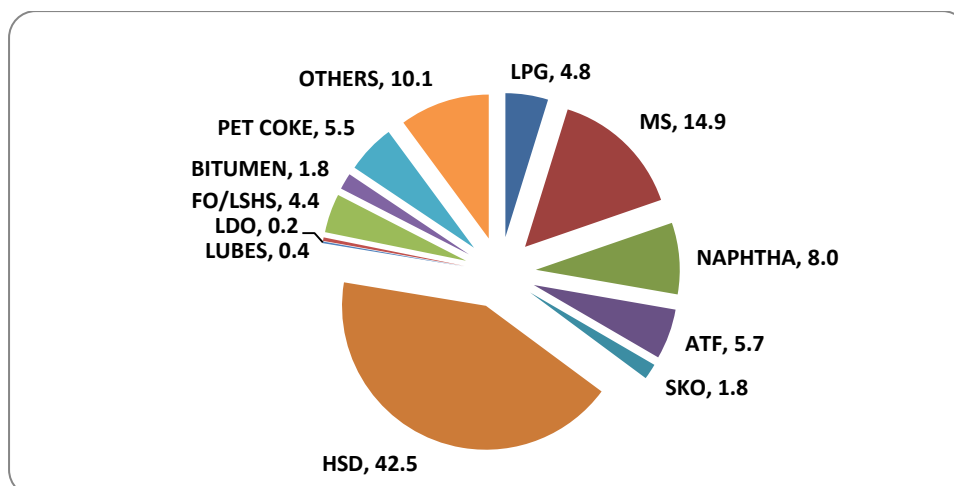
4.1. Details of production of Petroleum products are given in Table-1.

Table-1; Production of petroleum products		
<i>(Thousand Metric Tonnes)</i>		
PRODUCTS	November 2017 ^(P)	April-November 2017 ^(P)
LPG	1101	7976
NAPHTHA	1648	13302
MS BS-III	0	0
MS BS-IV	2003	15815
MS Others	1093	9020
ATF	1266	9402
SKO	269	2928
HSD BS-III	3	24
HSD BS-IV	5700	45466
HSD Others	3249	25196
LDO	37	303
LUBES	85	654
FO	765	7092
LSHS	48	191
BITUMEN	462	3063
RPC(Petcoke)	1171	9140
Others	2442	16830
TOTAL	21343	166402

Note: All figures are provisional. Source : Oil Companies
** Others include products like Propylene, solvents (Hexane, Benzene, Toluene, Xylene and Specialty solvents), Reformate, Mineral Turpentine Oil, Carbon Black Feeds Sock, Waxes, Sulphur etc.*

- Production of petroleum products from refineries and fractionators increased by 8.3% in November 2017 as compared to November 2016. On cumulative basis an increase of 3.4% was registered during April - November 2017 over April - November 2016.
- SKO production registered de-growth of 31.9% during November, 2017 and 30.5% during April - November 2017 as compared to the corresponding period of the previous year.
- On cumulative basis production of FO decreased by 11.4% and petcoke increased by 7.5% as a result of operation of bottom upgradation units.
- The percentage share contribution of various products in the total POL production during April – November 2017 is shown in figure-3 below:

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



LPG, MS, ATF, SKO and HSD accounted for 69.6% of total POL production during April – November 2017.

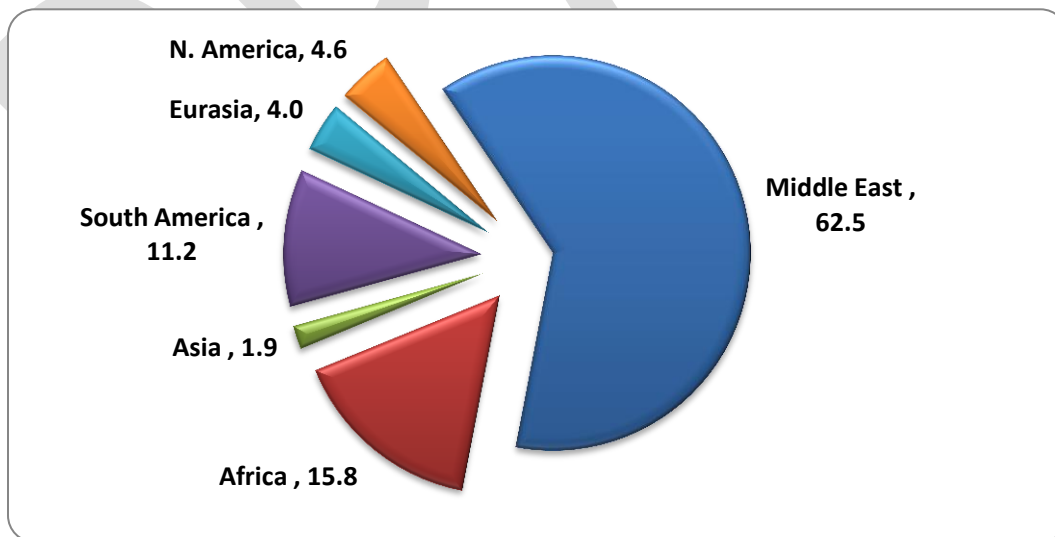
5. Import of Crude oil and Petroleum Products

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		November 2017 ^(P)	April - November 2017 ^(P)
	Crude oil	19051	144721
PRODUCT IMPORT #			
	LPG	1246	7641
	MS/ Petrol	0	174
	Naphtha	162	1172
	ATF	25	183
	HSD	5	1250
	LOBS/Lube oil	176	1530
	Fuel Oil	121	676
	Bitumen	78	538
	Petcoke	1025	8966
	Others ^{\$}	139	1630
	TOTAL	2976	23761
PSU/JV		1232	8976
Pvt.		1743	14784
<i>Note: All figures are provisional. Source : Oil Companies</i>			
<i># DGCI&S data is actual upto September 2017 and prorated for October and November 2017.</i>			
<i>\$ Others include SKO, CBFS, Paraffin wax, Petroleum Jelly, LSWR , Aviation Gas etc.</i>			

- Crude oil imports during November 2017 increased by 295 TMT as compared to November 2016. On cumulative basis crude oil imports increased by 908 TMT during April - November 2017 as against April - November 2016.
- Crude oil imports from OPEC countries reduced to 82.4% of total imports during April- November 2017 as compared to 87.9% of total imports during April- November 2016 with increased imports from non-OPEC countries like US, Canada, Russia, Kazakhstan and Sudan.
- Crude oil imports of PSU/JV oil companies during November 2017 decreased by 3.9% as compared to November 2016 and registered a decrease of 1.0% during April - November 2017 as compared to the corresponding period of the previous year due to planned shutdown in various PSU /JV refineries during the period.
- Crude oil imports of private oil companies increased by 10.6% during November 2017 as compared to November 2016 and registered an increase of 3.1% in April - November 2017 as compared to the corresponding period of the previous year.
- Region wise crude oil import share during April- November 2017 is given in figure-4.

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

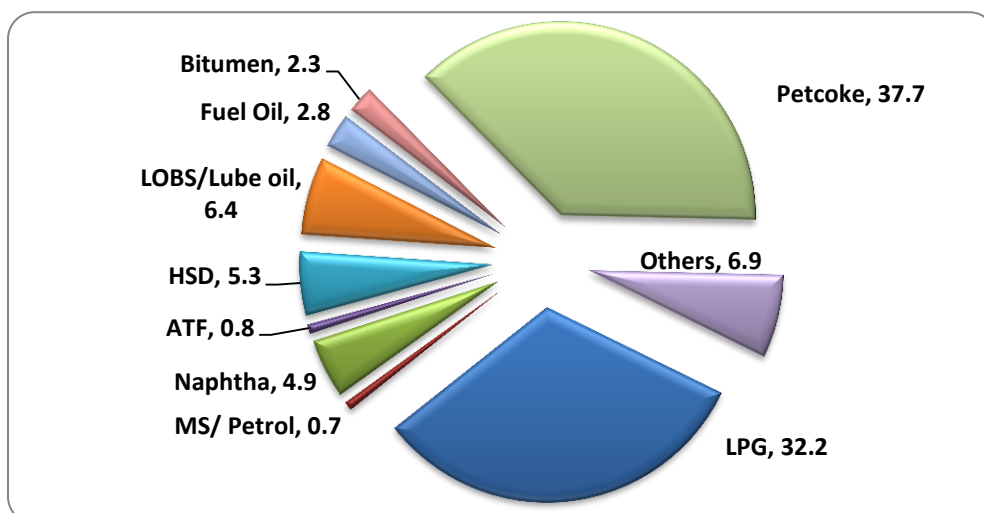


- Import of POL products increased by 7.7% during November 2017 mainly due to the increase in imports of LPG, FO, bitumen and petcoke. However, POL imports decreased by

4.9% during April - November 2017 as compared to the corresponding period of the previous year

- Saudi Arabia, UAE, USA and Qatar were the top countries from where 65.2% of total POL products were imported during April - November 2017. LPG was mainly imported from Saudi Arabia, UAE, Qatar and Kuwait during April - November 2017. Petcoke and CBFS were major components of import of POL from USA and Saudi Arabia.
- Import of LPG and petcoke accounted for 76.3% share of the total petroleum product imports during November 2017, while LPG alone accounted for 41.9% of total POL imports. Further, 98.4% of total LPG imports were from Middle Eastern region during the month.
- Petcoke imports, with a percentage share of 34.4% of total POL imports during November 2017, were mainly done by cement and steel industries as a cheap substitute of coal. However, the percentage share of import of petcoke is lower than its cumulative share of 37.7% during April - November 2017. Saudi Arabia and USA were the main supply source for petcoke.
- Import of naphtha reduced by 35.7% during November 2017 as compared to November 2016. On cumulative basis naphtha imports decreased by 41.6% during April - November 2017 as compared to the same period of last 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 - November 2017 is shown in figure-5.

Figure-5; Percentage share of petroleum products in imports April - November 2017^(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	November 2017 ^(P)	April - November 2017 ^(P)	
LPG	34	231	
MS	1137	9297	
NAPHTHA	749	5999	
ATF	558	4511	
HSD	2521	19680	
SKO	2	12	
LDO	4	18	
LOBS/ LUBE OIL	1	10	
FUEL OIL	200	1913	
BITUMEN	2	55	
PET COKE	42	378	
VGO	0	488	
OTHERS [#]	251	1717	
PRODUCT EXPORT	5501	44310	
<i>Note: All figures are provisional. Source : Oil Companies</i>			
<i># Others in export include CBFS, Hexane, Benzene, MTO, Paraffin wax, Sulphur etc.</i>			

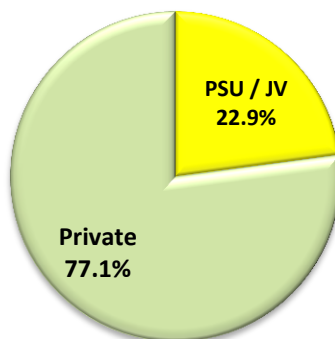
- Export of petroleum products increased by 3.1% during November 2017 as compared to November 2016 primarily due to surplus availability of POL products like MS, HSD and

naphtha which constituted 80.1% of total POL exports. On cumulative basis export of petroleum products marginally increased by 1.0% during April - November 2017 as compared to April - November 2016. MS, Naphtha and HSD constituted 78.9% of POL exports during April - November 2017.

- HSD exports increased by 4.3% during November 2017 in comparison to November 2016. HSD share in exports of POL was 45.8% during November 2017 as compared to 45.3% during November 2016. On cumulative basis HSD exports increased by 4.2% during April - November 2017 as compared to April - November 2016. Singapore, Turkey, South Africa, Malaysia and Australia were the major export destinations of HSD during April - November 2017.
- MS exports showed a meager growth of 3.1% due to lower surplus availability of MS during November 2017. On cumulative basis MS exports dropped by 11.8% during April - November 2017 as compared to the corresponding period of the previous year. MS was mainly exported to UAE, Oman and USA (76.9% of total MS exports) during April - November 2017.
- Percentage share of POL exports by PSU/JV and private oil companies during April - November 2017 are given in figure-6.

Figure-6; Percentage share of PSU/JV and private oil companies in POL exports:

April-November 2017(P)



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