

MONTHLY REPORT
ON
INDIGENOUS CRUDE OIL PRODUCTION, CRUDE OIL
IMPORT AND PROCESSING
&
PRODUCTION, IMPORT AND EXPORT OF PETROLEUM
PRODUCTS
December 2023



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

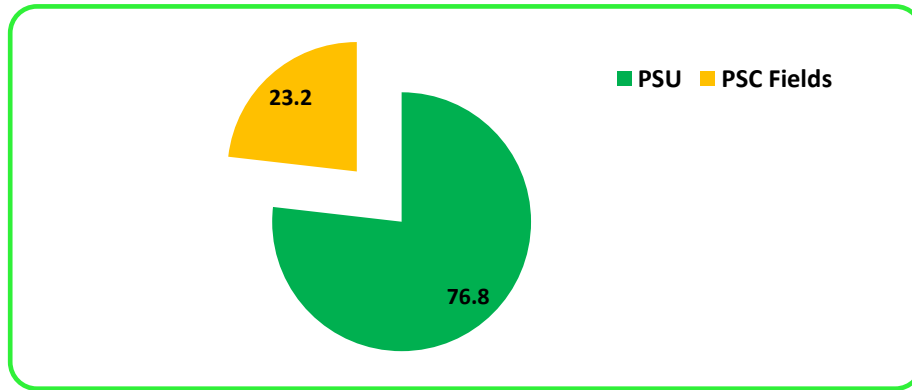
- Indigenous crude oil and condensate production during December 2023 was 2.5 MMT. OIL registered a production of 0.3 MMT, ONGC registered a production of 1.6 MMT whereas PSC/RSC registered production of 0.6 MMT during December 2023.
- Total Crude oil processed during December 2023 was 22.7 MMT which is 1.9% higher than December 2022, where PSU/JV refiners processed 15.7 MMT and private refiners processed 7.0 MMT of crude oil. Total indigenous crude oil processed was 2.6 MMT and total Imported crude oil processed was 20.1 MMT by all Indian refineries (PSU+JV+PVT). There was a growth of 3.3 % in total crude oil processed in April-December FY 2023 – 24 as compared to same period of FY 2022 – 23.
- Production of petroleum products was 24.5 MMT during December 2023 which is 4.0% higher than December 2022. Out of 24.5 MMT, 24.2 MMT was from refinery production & 0.3 MMT was from fractionator. There was a growth of 4.9 % in production of petroleum products in April-December FY 2023 – 24 as compared to same period of FY 2022 – 23. Out of total POL production, in December 2023, share of HSD is 41.7 %, MS 17.4 %, Naphtha 6.1 %, ATF 6.1 %, Pet Coke 5.5 %, LPG 4.8% which are of major products and rest are shared by Bitumen, FO/LSHS, LDO, Lubes & others.
- Crude oil imports increased by 1.1% and 0.4% during December 2023 and April-December 2023 respectively as compared to the corresponding period of the previous year.
- POL products imports decreased by 4.1% and increased by 9.9% during December 2023 and April-December 2023 respectively as compared to the corresponding period of the previous year. Increase in POL product imports during April-December 2023 were mainly due to an increase in imports of petcoke, bitumen and fuel oil (FO).
- Exports of POL products increased by 2.5% and 2.7% during December 2023 and April-December 2023 respectively as compared to the corresponding period of the previous year. Increase in POL products exports during April-December 2023 were mainly due to increase in exports of aviation turbine fuel (ATF), motor-spirit (MS) and vacuum gas oil (VGO).

Part A: Production

2. Indigenous crude oil and condensate production

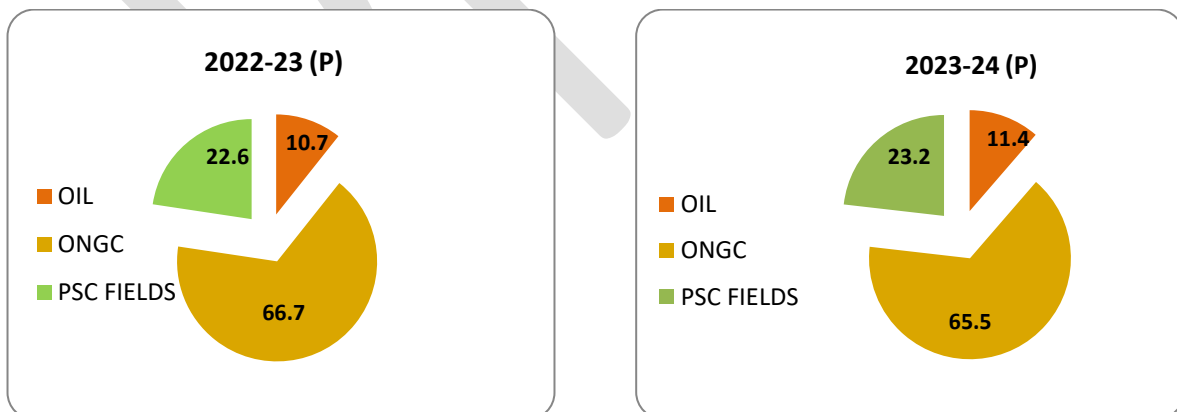
- The percentage share of PSU upstream companies and PSC fields in overall crude oil and condensate production during April-December 2023 (P) is shown in figure-1 below:

Figure-1; Percentage share in crude oil and condensate production; April – December 2023 ^(P)



- The comparison of percentage share of ONGC, OIL and PSC fields in total crude oil and condensate production during April December 2022-23 (P) and April December 2023-24 (P) is shown in figure-2 below:

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



3. Crude oil processing by Oil Companies

Analysis of crude oil processing by refineries:

- Analysis of type of crude oil processed (i.e. indigenous, imported and low sulphur & high sulphur) in Indian refineries during April-December 2022-23 (P) and April-December 2023-24 (P) is given below

Figure-3; Percentage share of Indigenous/imported crude oil processed in PSU/JV refineries in April - December

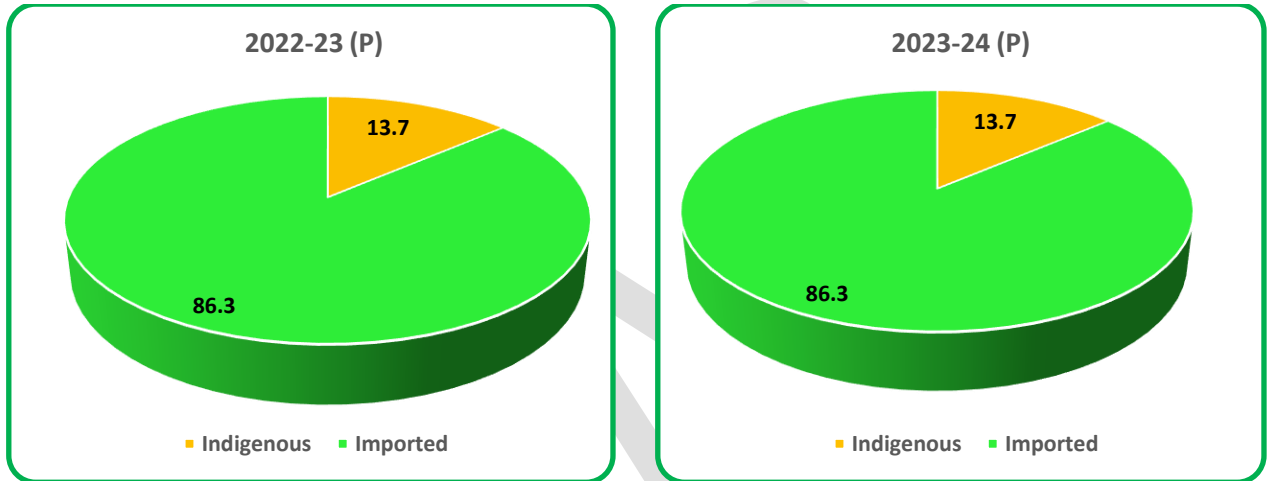
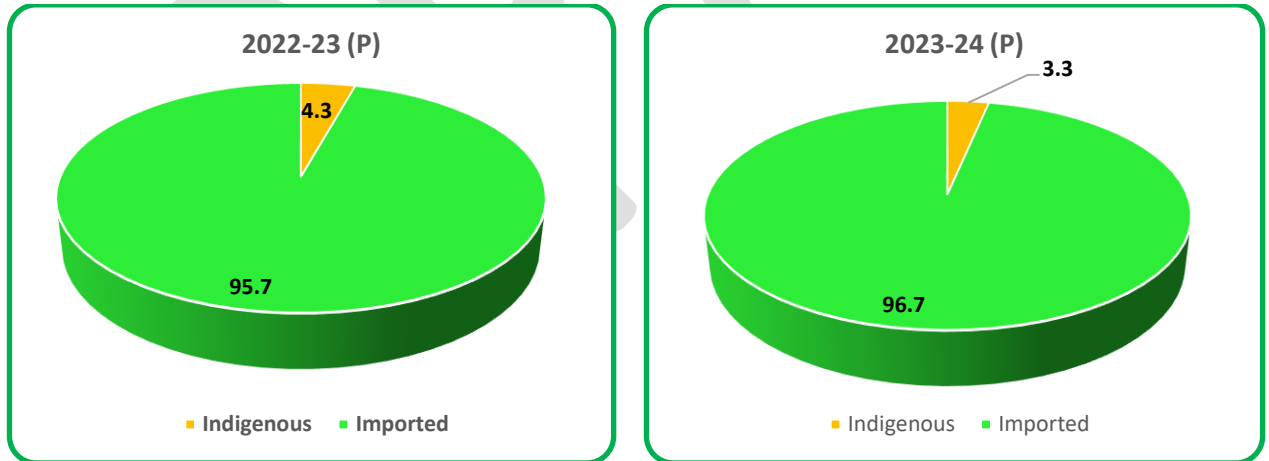


Figure-4; Percentage share of indigenous and imported crude oil processed by Private refineries: April -December



	2022 - 23 (P)	December		April – December	
		2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)
		Qty. in MMT			
High Sulphur crude (HS)	197.9	17.0	18.0	145.7	151.6
Low Sulphur crude (LS)	57.4	5.2	4.7	42.9	43.2
Total crude processed	255.2	22.3	22.7	188.6	194.7
% Share of HS crude in total crude processed	77.5%	76.5%	79.4%	77.3%	77.8%

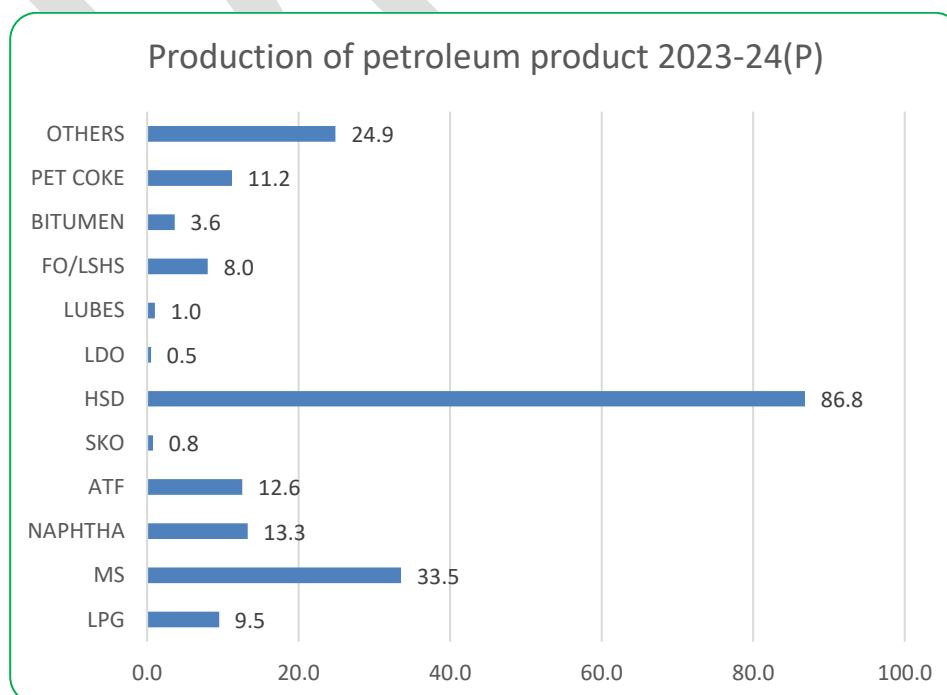
4. Production of Petroleum Products

Details of production of petroleum products by refineries and fractionators during December 2023^(P) are given in Table-2.

Table-2; Production of petroleum products	
(Thousand Metric Tonnes)	
Products	December 2023 ^(P)
LPG	1167
Naphtha	1488
MS	4262
ATF	1503
SKO	104
HSD	10237
LDO	55
Lubes	114
FO	729
LSHS	44
Bitumen	461
RPC(Pet-coke)	1344
Others	3040
Total	24546

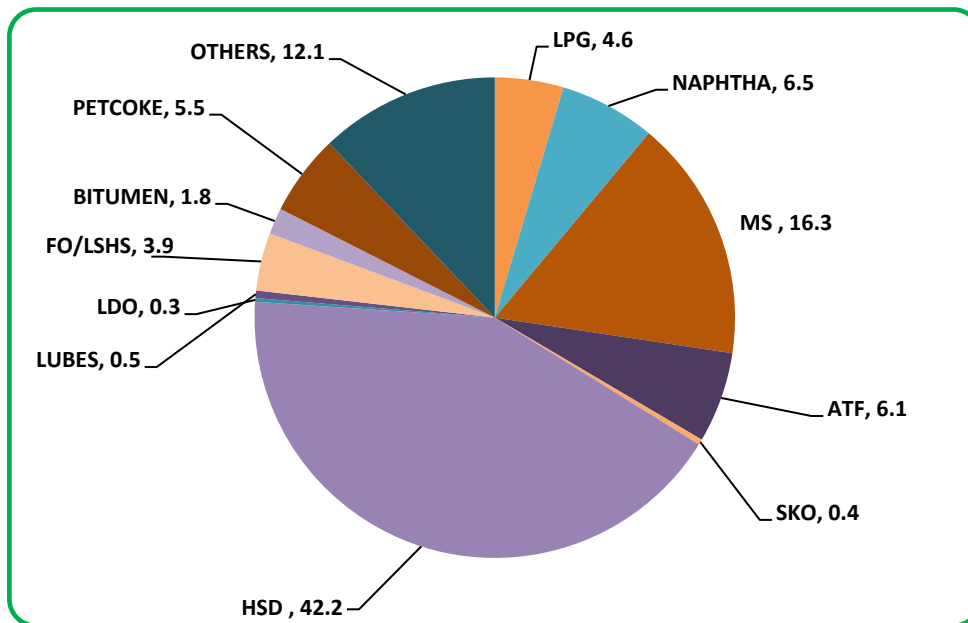
Note: (P): Provisional. Source: Oil Companies, Total may not tally due to rounding off.
 * Others include products like Propylene, solvents (Hexane, Benzene, Toluene, Xylene and Specialty solvents), Reformate, Mineral Turpentine Oil, Carbon Black Feedstock, Waxes, Sulphur etc.
 LPG: Liquefied petroleum gas, MS: Motor spirit, ATF: Aviation turbine fuel; SKO: Superior kerosene oil, HSD: High speed diesel;

Figure-5; Product wise production of POL products by refineries and fractionators: April-December 2023^(P)



The percentage share of various products in total POL production during April - December 2023 is shown below:

Figure-6; Percentage share of products in total POL production: April-December 2023 ^(P)



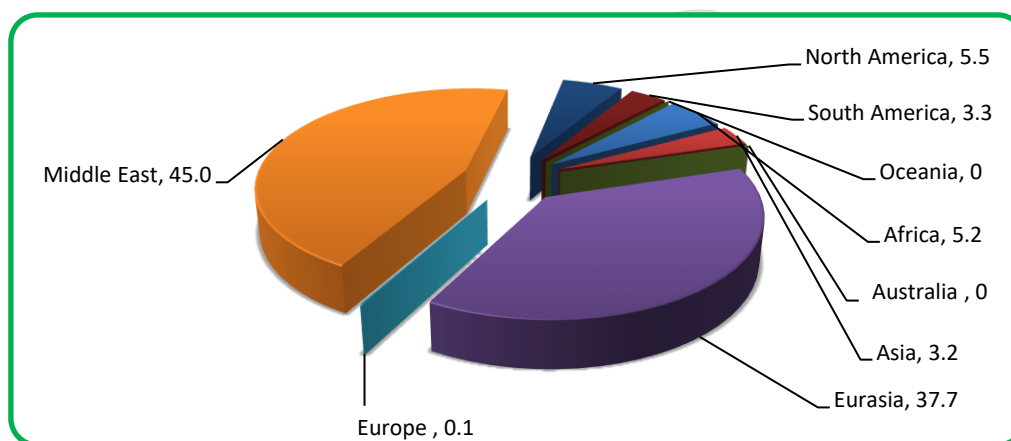
Part B: Import /Export

5.a Import of Crude oil

Details of import of crude oil given in Table-3 below:

Table-3; Import of Crude oil		
<i>(Thousand Metric Tonnes)</i>		
Import	December 2023 ^(P)	April to December 2023-24 ^(P)
Crude Oil	19832	172935

Figure 7: Region wise percentage share (%) of crude oil during April to December 2023-24 (P)



- Crude oil imports increased by 1.1% and 0.4% during December 2023 and April-December 2023 respectively as compared to the corresponding period of the previous year.
- Crude oil imports from OPEC countries decreased to 48.6% of total imports during April-December 2023-24 as compared to 61.8% during April-December 2022-23.

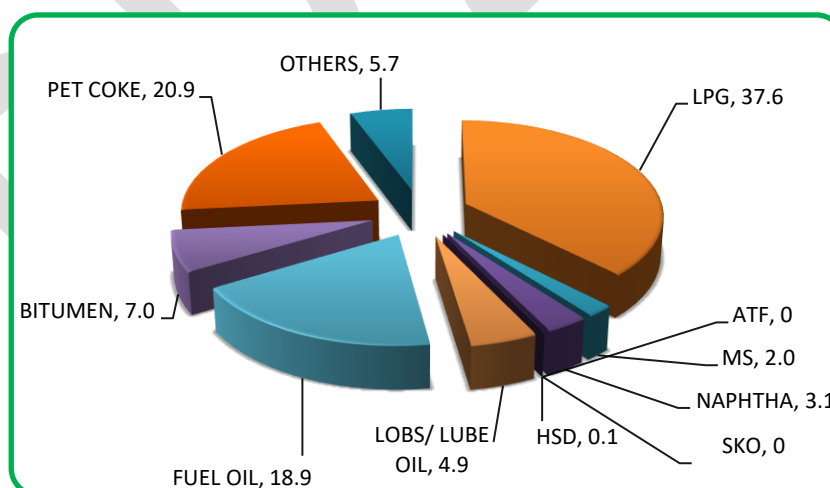
5.b Import Petroleum Products

Details of import of petroleum products given in Table-4 below:

Table-4; Import of Petroleum products		
(Thousand Metric Tonnes)		
Product	December 2023 ^(P)	April to December 2023-24 ^(P)
LPG	1564	13522
MS/ Petrol	0	717
NAPHTHA	142	1117
ATF	0	0.003
SKO	0	0
HSD	5	29
LOBS/LUBE OIL	181	1752
FUEL OIL	753	6789
BITUMEN	287	2506
PETCOKE	813	7520
OTHERS [§]	141	2050
TOTAL IMPORTS	3885	36003

Notes: (P): Provisional. Source: Oil Companies & DGCIS. Total may not tally due to rounding off.
 # Private imports are prorated for the period November-2023 to December-2023 on the basis of actual data received from DGCIS for the period November-2022 to October-2023
 § Others include 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.

Figure 8: Percentage share of petroleum products in imports: April to December 2023-24 (P)



- Imports made due to deficit in production viz. LPG and Lubes/LOBS accounted for 42.4% share of total POL products import during April-December 2023-24 as compared to 46.5% during April-December 2022-23.
- Import of petcoke accounted for 20.9% of the total POL imports during April-December 2023-24. The entire quantity was imported by private importers.

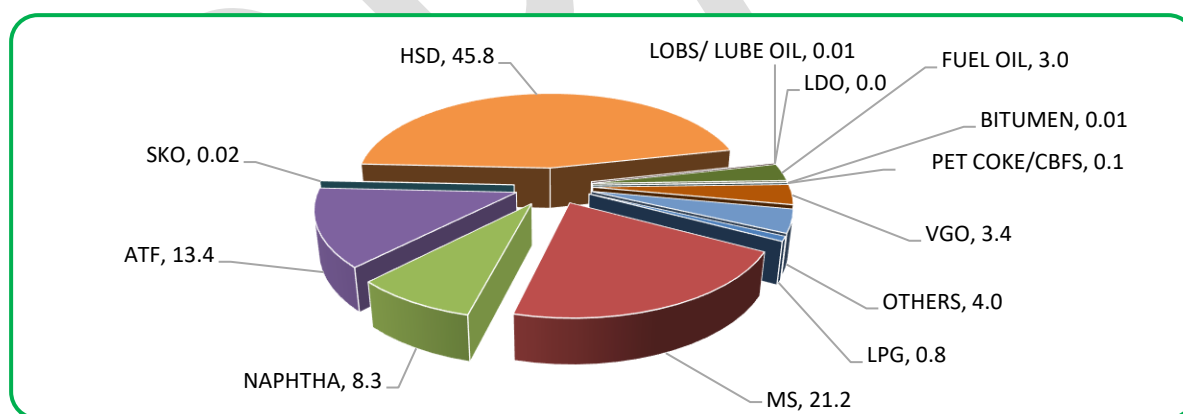
5.c Export of Petroleum Products

Details of export of petroleum products given in Table-5 below:

Table-5 Export of major Petroleum products		
<i>(Thousand Metric Tonnes)</i>		
Product	December 2023 ^(P)	April to December 2023-24 ^(P)
LPG	45	387
MS	1193	9893
Naphtha	286	3891
ATF	771	6246
SKO	1	8
HSD	2841	21339
LDO	0	0.1
LOBS/LUBE OIL	1	5
FUEL OIL	193	1382
BITUMEN	0	5
PETCOKE	0	28
VGO	271	1595
OTHERS [#]	236	1845
TOTAL EXPORT	5838	46625

Note: (P): Provisional. Source: Oil Companies. Total may not tally due to rounding off.
[#] 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

Figure 9: Percentage share of petroleum products in export: April to December 2023-24 (P)



- Exports of POL products increased by 2.5% and 2.7% during December 2023 and April-December 2023 respectively as compared to the corresponding period of the previous year. Increase in POL products exports during April-December 2023 were mainly due to increase in exports of aviation turbine fuel (ATF), motor-spirit (MS) and vacuum gas oil (VGO).