

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

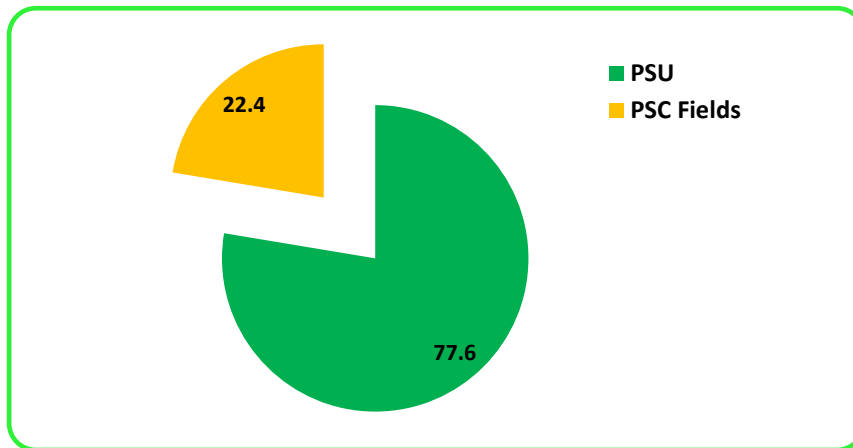
- Indigenous crude oil and condensate production was down by 1.7% and 2.8% during April- March 2023 and March 2023 as compared to corresponding period of the previous year.
- Crude oil processed increased by 5.6 % during April-March 2023 as compared April-March 2022. A growth of 3.0 % was registered during March 2023 as compared to March 2022.
- Production of petroleum products increased by 4.8 % during April- March 2023 as compared to corresponding period of the previous year, whereas there is a growth of 1.5% during March 2023 as compared to March 2022.
- Crude oil imports increased by 8.9% and 9.5% during March 2023 and April 2022-March 2023 respectively as compared to the corresponding period of the previous year.
- POL product imports decreased by 0.7% and increased by 12.3% during March 2023 and April 2022-March 2023 respectively as compared to the corresponding period of the previous year. Increase in POL product imports during April-March 2022-23 were mainly due to increase in import of all products except lubes/LOBS, fuel oil (FO), bitumen and others etc.
- Exports of POL products decreased by 10.9% and 2.7% during March 2023 and April 2022-March 2023 respectively as compared to the corresponding period of the previous year. Decrease in POL products exports during April - March 2022-23 were mainly due to decrease in exports of motor spirit (MS), naphtha, superior kerosene oil (SKO) and high-speed diesel (HSD) etc.

Part A: Production

2. Indigenous crude oil and condensate production

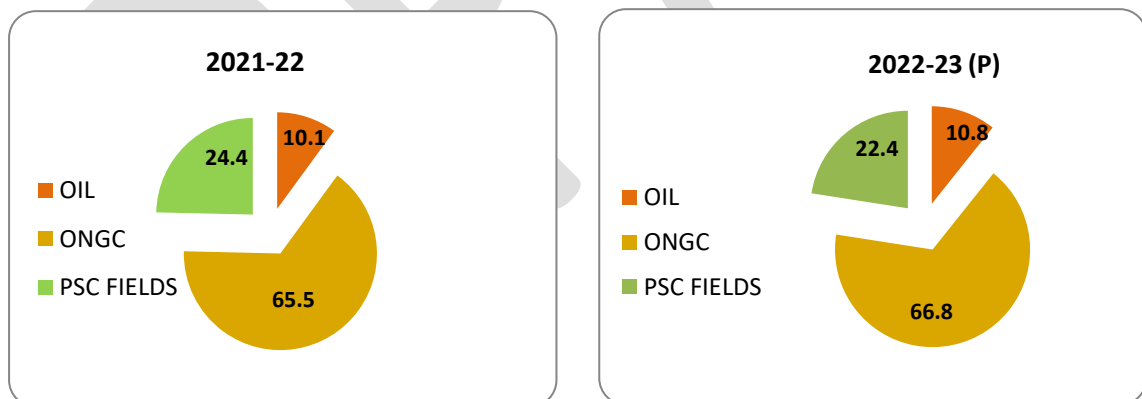
- The percentage share of PSU upstream companies and PSC fields in overall crude oil and condensate production during April – March (P) is shown in figure-1 below:

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



- The comparison of percentage share of ONGC, OIL and PSC fields in total crude oil and condensate production during April – March 2023 and April – March 2022 is shown in figure-2 below:

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



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 – March 2023 and April – March 2022 is given below:

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

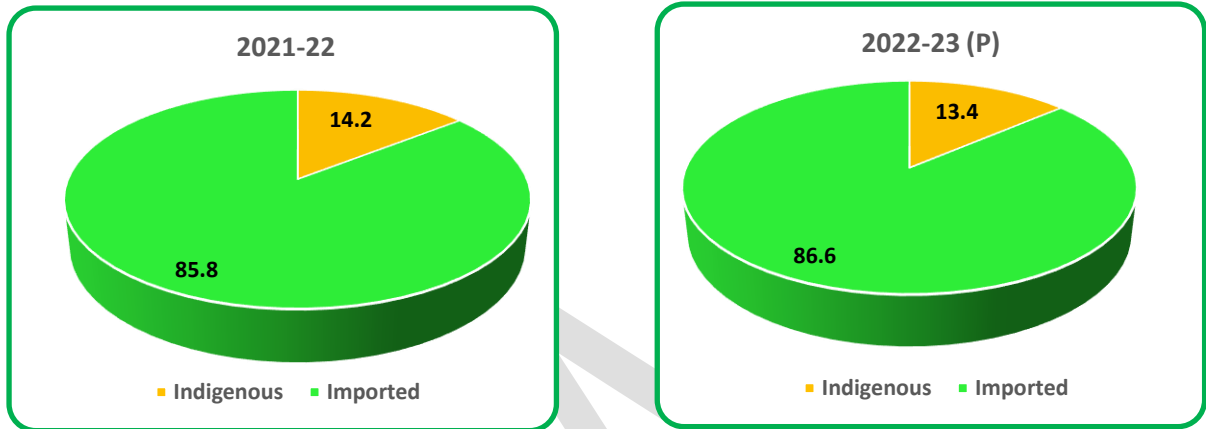
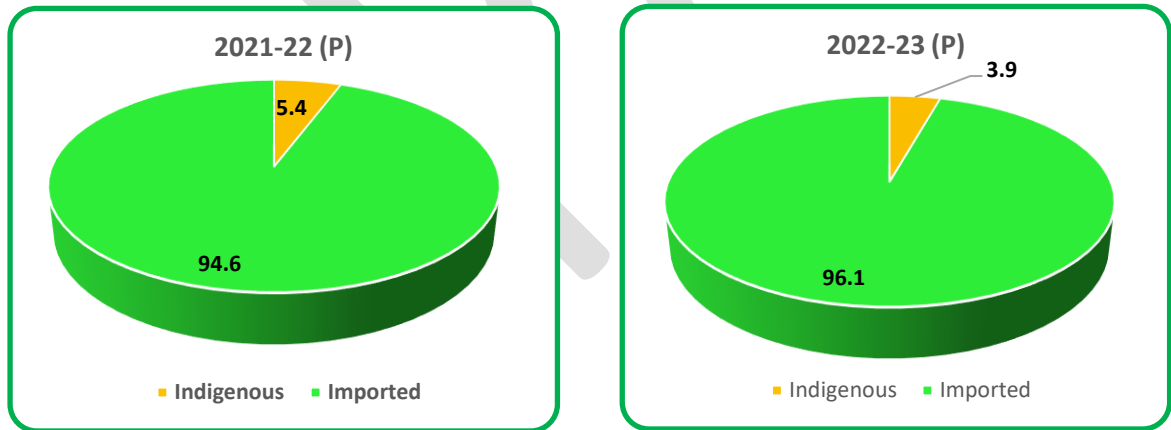


Figure-4; Percentage share of indigenous and imported crude oil processed by Private refineries: April - March



| Table-1; High Sulphur crude oil processed as percentage of total crude oil processed | | | | |
|---|----------------|--------------------|----------------------|--------------------|
| | March | | April – March | |
| | 2021-22 | 2022-23 (P) | 2021-22 | 2022-23 (P) |
| | Qty. in MMT | | | |
| High Sulphur crude (HS) | 17.3 | 17.9 | 185.0 | 197.9 |
| Low Sulphur crude (LS) | 5.1 | 5.1 | 56.7 | 57.4 |
| Total crude processed | 22.3 | 23.0 | 241.7 | 255.2 |
| % Share of HS crude in total crude processed | 77.4% | 78.0% | 76.6% | 77.5% |

4. Production of Petroleum Products

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

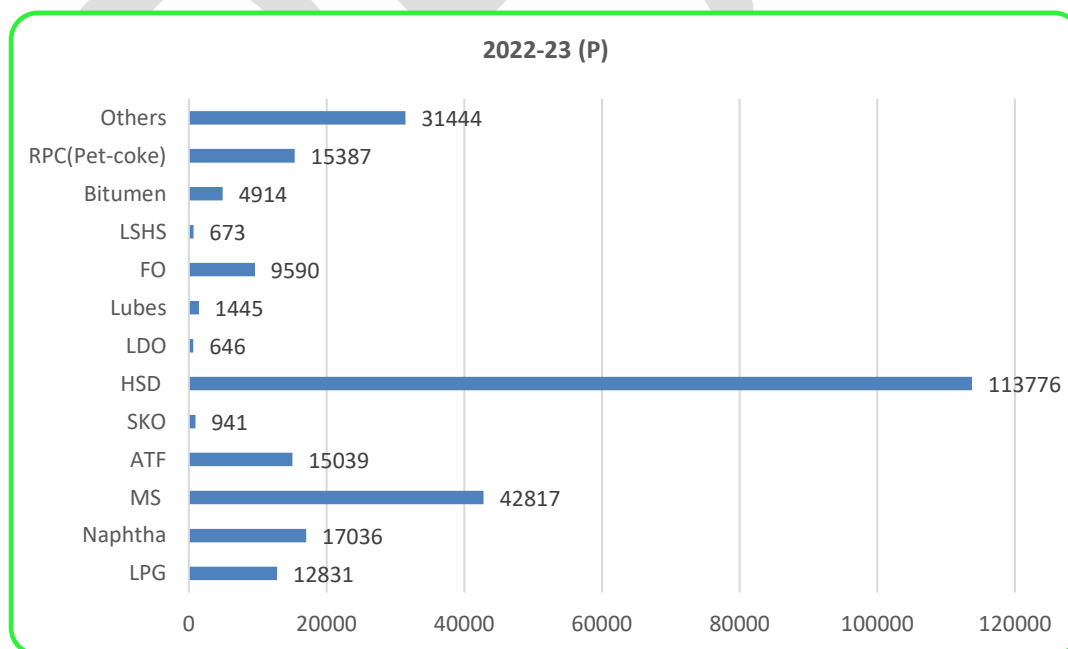
| Table-2; Production of petroleum products | |
|---|---------------------------|
| (Thousand Metric Tonnes) | |
| Products | March 2023 ^(P) |
| LPG | 1149 |
| Naphtha | 1487 |
| MS | 4051 |
| ATF | 1442 |
| SKO | 99 |
| HSD | 10308 |
| LDO | 79 |
| Lubes | 269 |
| FO | 573 |
| LSHS | 74 |
| Bitumen | 622 |
| RPC(Pet-coke) | 1390 |
| Others | 2963 |
| Total | 24507 |

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.

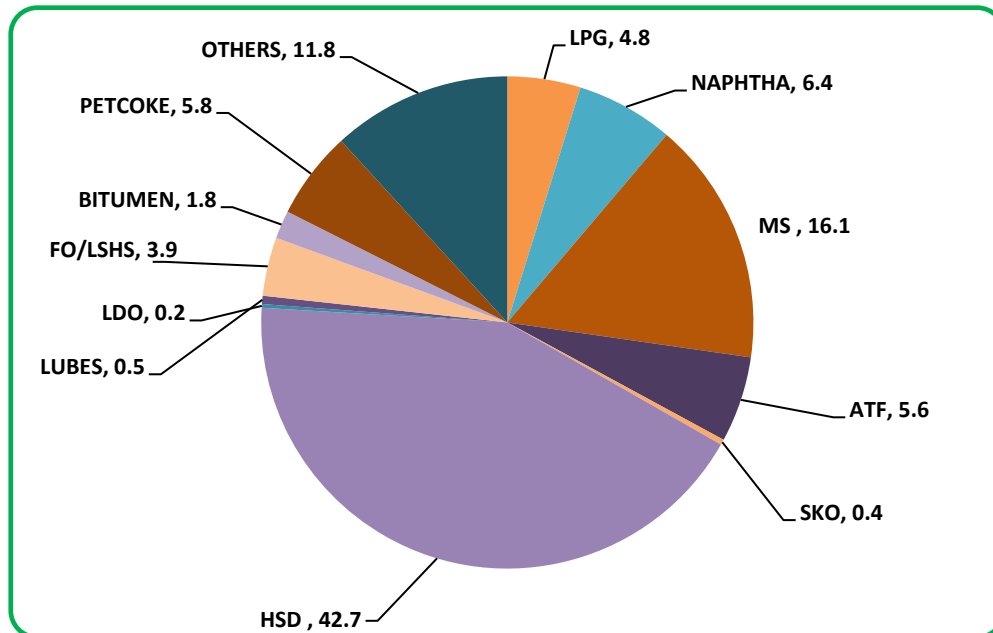
LPG: Liquefied petroleum gas, MS: Motor spirit, ATF: Aviation turbine fuel; SKO: Superior kerosene oil, HSD: High speed diesel;

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



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

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



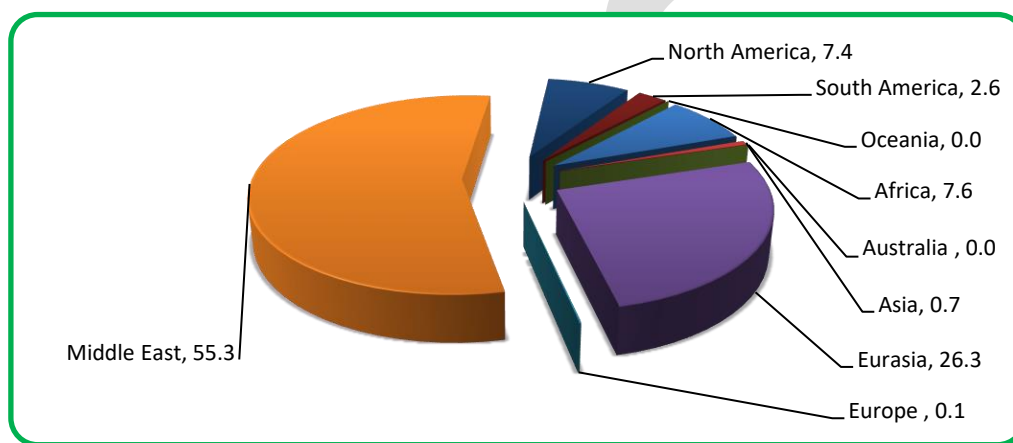
Part B: Import /Export

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 | March 2023 ^(P) | April to March 2022-23 ^(P) |
| Crude Oil | 20729 | 232561 |

Figure 7: Region wise percentage share (%) of crude oil during April to March 2022-23 (P)



- Crude oil imports increased by 8.9% and 9.5% during March 2023 and April 2022-March 2023 respectively as compared to the corresponding period of the previous year.
- Crude oil imports from OPEC countries decreased to 59.5% of total imports during April-March 2022-23 as compared to 71.6% during April-March 2021-22.

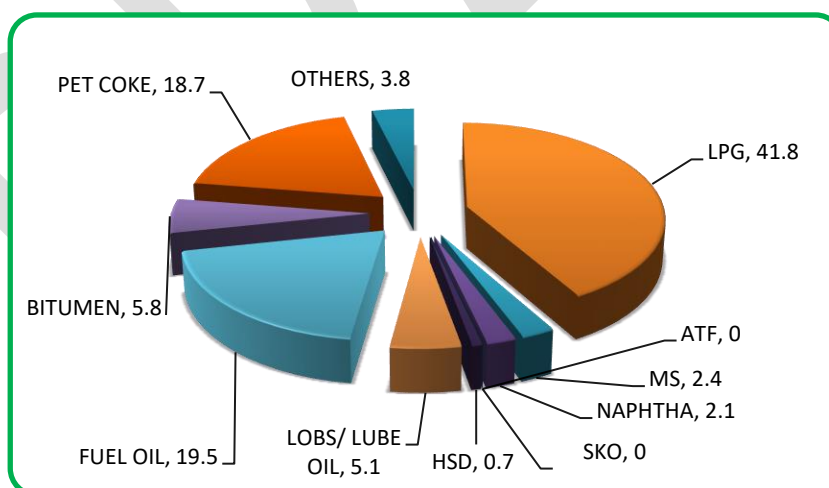
5.b Import Petroleum Products

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

| Table-4; Import of Petroleum products | | |
|---------------------------------------|---------------------------|---------------------------------------|
| (Thousand Metric Tonnes) | | |
| Product | March 2023 ^(P) | April to March 2022-23 ^(P) |
| LPG | 1410 | 18309 |
| MS/ Petrol | 0.001 | 1069 |
| NAPHTHA | 117 | 936 |
| ATF | 0 | 0 |
| SKO | 0 | 0 |
| HSD | 6 | 327 |
| LOBS/LUBE OIL | 191 | 2235 |
| FUEL OIL | 739 | 8555 |
| BITUMEN | 219 | 2536 |
| PETCOKE | 648 | 8186 |
| OTHERS [§] | 313 | 1681 |
| TOTAL IMPORTS | 3644 | 43833 |

Notes: (P): Provisional. Source: Oil Companies & DGCIS
 # Private imports are prorated for the period January-2023 to March-2023 on the basis of actual data received from DGCIS for the period January-2022 to December-2022
 § 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 March 2022-23 (P)



- Imports made due to deficit in production viz. LPG and Lubes/LOBS accounted for 46.9% share of total POL products import during April-March 2022-23 as compared to 51.5% during April-March 2021-22.
- Import of petcoke accounted for 18.7% of the total POL imports during April-March 2022-23. The entire quantity was imported by private importers.

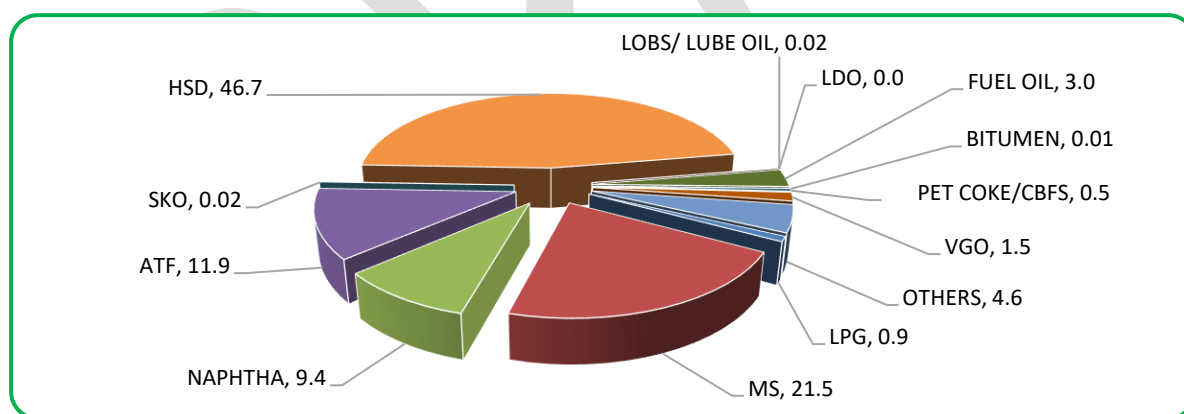
5.c Export of Petroleum Products

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

| Table-5 Export of major Petroleum products | | |
|--|---------------------------|---------------------------------------|
| <i>(Thousand Metric Tonnes)</i> | | |
| Product | March 2023 ^(P) | April to March 2022-23 ^(P) |
| LPG | 51 | 534 |
| MS | 1470 | 13118 |
| Naphtha | 511 | 5714 |
| ATF | 786 | 7264 |
| SKO | 1 | 11 |
| HSD | 2482 | 28535 |
| LDO | 0.2 | 1 |
| LOBS/LUBE OIL | 1 | 12 |
| FUEL OIL | 141 | 1841 |
| BITUMEN | 3 | 9 |
| PETCOKE | 123 | 284 |
| VGO | 0 | 891 |
| OTHERS [#] | 435 | 2825 |
| TOTAL EXPORT | 6006 | 61039 |

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

Figure 9: Percentage share of petroleum products in export: April to March 2022-23 (P)



- Exports of POL products decreased by 10.9% and 2.7% during March 2023 and April 2022- March 2023 respectively as compared to the corresponding period of the previous year. Decrease in POL products exports during April - March 2022-23 were mainly due to decrease in exports of motor spirit (MS), naphtha, superior kerosene oil (SKO) and high speed diesel (HSD) etc.