Snapshot of India's Oil & Gas data

Monthly Ready Reckoner
March-2024

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

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Petroleum Planning & Analysis Cell (PPAC), an attached office of the Ministry of Petroleum & Natural Gas (MoPNG), Government of India, collects and analyses data on the Oil and Gas sector. It disseminates many reports on the Oil & Gas sector to the various stakeholders. The data is obtained from the Public Sector companies, Government agencies as well as the Private companies. Given the ever-increasing demand for energy and transition of energy demand to renewables and Biofuels, Policy makers and Analysts need to be well informed about the updated trends in the Oil & Gas industry.

The Snapshot of India's Oil & Gas data (Monthly Ready Reckoner), released by PPAC, provides monthly data/information in a single volume for the latest month and historical time series. The Snapshot of India's Oil & Gas data is also published on PPAC's website (www.ppac.gov.in) and is accessible on mobile app-PPACE.

This publication is a concerted effort by all divisions of PPAC. The cooperation of the Oil and Gas industry is acknowledged for their timely inputs.

Note: Reported data may undergo change on receipt of actuals

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Highlights for the month

- Indigenous crude oil and condensate production during March 2024 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 March 2024. There is a growth of 2.02% in crude oil and condensate production during March 2024 as compared to March 2023.
- Total Crude oil processed during March 2024 was 23.4 MMT which is 1.6% higher than March 2023, where PSU/JV refiners processed 16.1 MMT and private refiners processed 7.3 MMT of crude oil. Total indigenous crude oil processed was 2.4 MMT and total Imported crude oil processed was 21.0 by all Indian refineries (PSU+JV+PVT). There was a growth of 2.5% in total crude oil processed in April March FY 2023 – 24 as compared to same period of FY 2022 – 23.
- Crude oil imports decreased by 4.4% and 0.1% during March 2024 and April-March 2023-24 respectively as compared to the corresponding period of the previous year.As compared to net import bill for Oil & Gas for March 2023 of $9.8 billion, the net import bill for Oil & Gas for March 2024 was $10.7 billion. Out of which, crude oil imports constitutes $11.6 billion, LNG imports $1.1 billion and the exports were $4.0 billion during March 2024.
- The price of Brent Crude averaged $85.48/bbl during March 2024 as against $83.93/bbl during February 2024 and $78.56/bbl during March 2023. The Indian basket crude price averaged $84.49/bbl during March 2024 as against $81.62/bbl during February 2024 and $78.54 /bbl during March 2023.
- Production of petroleum products was 24.9 MMT during March 2024 which is 1.5% higher than March 2023. Out of 24.6 MMT, 24.6 MMT was from refinery production & 0.3 MMT was from fractionator. There was a growth of 3.6 % in production of petroleum products in April March FY 2023 – 24 as compared to same period of FY 2022 – 23. Out of total POL production, in March 2024, share of HSD is 40.5 %, MS 16.6 %, Naphtha 6.7 %, ATF 6.3 %, Pet Coke 5.5 %, LPG 4.6% which are of major products and rest are shared by Bitumen, FO/LSHS, LDO, Lubes & others.
- POL products imports decreased by 8.5% and increased by 7.8% during March 2024 and April-March 2023-24 respectively as compared to the corresponding period of the previous year. Increase in POL products imports during April-March 2023-24 were mainly due to increase in imports of petcoke, fuel oil (FO) and naphtha.

- Exports of POL products decreased by 11.7% and increased by 1.9% during March 2024 and Apr-Mar 2023-24 respectively as compared to the corresponding period of the previous year. Increase in POL products exports during April-February 2023-24 were mainly due to increase in exports of aviation turbine fuel (ATF), vacuum gas oil (VGO) and fuel oil (FO).
- The consumption of petroleum products during April-March 2024, with a volume of 233.3 MMT, reported a growth of 4.6 % compared to the volume of 223.0 MMT during the same period of the previous year. This growth was led by 6.4% growth in MS, 4.4% in HSD & 11.8% in ATF & 14.3% in Naptha consumption besides LPG, Lubes, Bitumen, Petcoke and LDO during the period. The consumption of petroleum products during March 2024 recorded de-growth of 0.6% with a volume of 21.1 MMT compared to the same period of the previous year.
- Ethanol blending with Petrol was 12.8% during March 2024 and cumulative ethanol blending during November2023- March 2024 was 12.0%. As on 31.03.2024, 13,364 PSU outlets out of 81,435 total PSU Retail Outlets are dispensing E20 Ethanol Blended MS.
- Total Natural Gas Consumption (including internal consumption) for the month of March 2024 was 5594 MMSCM which was 2.9 % higher than the corresponding month of the previous year. The cumulative consumption of 66634 MMSCM for the current financial year till March 2024 was higher by 11.1 % compared with the corresponding period of the previous year.
- Gross production of natural gas for the month of March 2024 (P) was 3138 MMSCM which was higher by 6.2 % compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 36438 MMSCM for the current financial year till March 2024 was higher by 5.8 % compared with the corresponding period of the previous year.
- LNG import for the month of March 2024 (P) was 2522 MMSCM which was 1.1 % lower than the corresponding month of the previous year. The cumulative import of 30917 (P) MMSCM for the current financial year till March 2024 is higher by 17.5 % compared with the corresponding period of the previous year.

PART-A

Economic Indicators

1. Selected indicators of the Indian economy

	Economic indicators	Unit/ Base	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	Population (basis RGI projections)	Billion	1.323	1.337	1.351	1.365	1.377	1.388
2	GDP at constant (2011-12 Prices)	Growth %	6.5 2nd RE	4.0 1st RE	-6.6 1st RE	9.1 1st RE	7.2 PE	7.6 (E)
3	Agricultural Production (Food grains)	MMT	285.2	297.5	310.7	315.7 4th AE	323.6 2nd AE	-
		Growth %	0.1	4.3	4.5	1.6	2.5	-
4	Gross Fiscal Deficit (as percent of GDP)	%	3.4	4.6	9.5 RE	6.7 RE	6.4 RE	5.9 RE

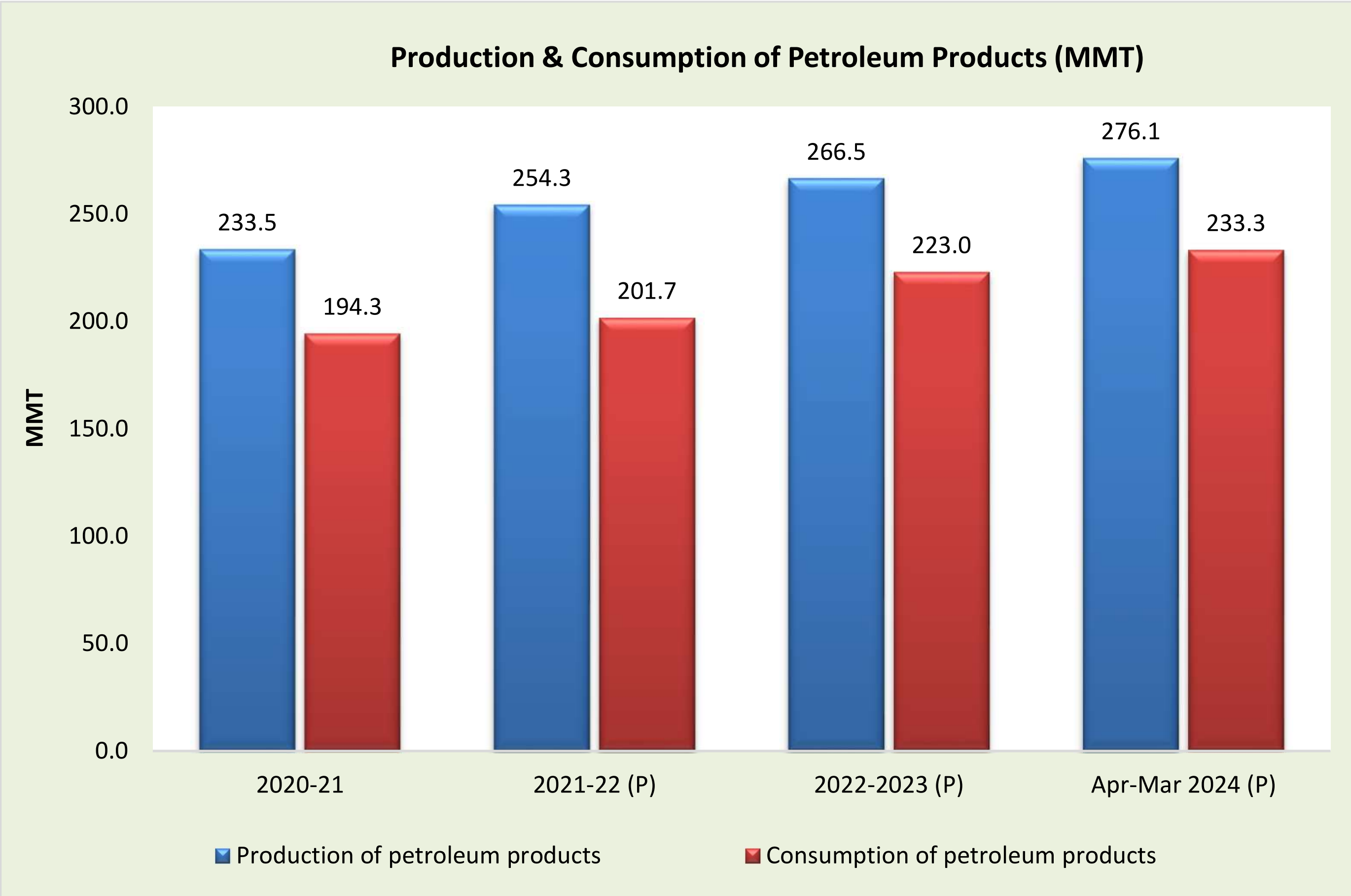
	Economic indicators	Unit/ Base	2021-22	2022-23	March		April-March	
					2022-23	2023-24 (P)	2022-23	2023-24 (P)
5	Index of Industrial Production (Base: 2011-12)	Growth %	11.4	5.5#	6.0*	5.7* QE	5.6#	5.9#
6	Imports^	$ Billion	611.9	714.2	60.9	57.3	716.0	677.2
7	Exports^	$ Billion	422.0	451.0	42.0	41.7	451.1	437.1
8	Trade Balance	$ Billion	-189.9	-263.2	-19.0	-15.6	-264.9	-240.2
9	Foreign Exchange Reserves @	$ Billion	617.6	578.4	578.5	645.6	-	-

Population projection by RGI is taken as on 1st July for the year. IIP is for the month of *Feb'24 and #April-Feb'24; @ 2021-22 - as on March 25,2022, 2022-23 as on March 31, 2023, March 2023 as on March 31, 2023 and March, 2024 as on March 29, 2024; ^Imports & Exports are for Merchandise for the month of March 2024 and April 23- March 2024; E: Estimates; PE: Provisional Estimates; AE-Advanced Estimates; RE-Revised Estimates; QE-Quick Estimates.

Source: Registrar General India**,** Ministry of Commerce & Industry, Ministry of Statistics and Programme Implementation, Ministry of Agriculture & Farmer's Welfare, Ministry of Finance, Reserve Bank of India

2. Crude oil, LNG and petroleum products at a glance								
Details		Unit/ Base	2021-22 (P)	2022-23 (P)	March		April-March	
					2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)
1	Crude oil production in India#	MMT	29.7	29.2	2.5	2.5	29.2	29.4
2	Consumption of petroleum products*	MMT	201.7	223.0	21.2	21.1	223.0	233.3
3	Production of petroleum products	MMT	254.3	266.5	24.5	24.9	266.5	276.1
4	Gross natural gas production	MMSCM	34,024	34,450	2,956	3,138	34,450	36,438
5	Natural gas consumption	MMSCM	64,159	59,969	5,439	5,594	59,969	66,634
6	Imports & exports:							
	Crude oil imports	MMT	212.4	232.7	20.9	20.0	232.7	232.5
		$ Billion	120.7	157.5	10.9	11.6	157.5	132.4
	Petroleum products (POL) imports*	MMT	39.0	44.6	4.4	4.0	44.6	48.1
		$ Billion	23.7	26.9	2.2	2.0	26.9	23.4
	Gross petroleum imports (Crude + POL)	MMT	251.4	277.3	25.3	24.0	277.3	280.5
		$ Billion	144.3	184.4	13.1	13.6	184.4	155.8
	Petroleum products (POL) export	MMT	62.8	61.0	6.0	5.3	61.0	62.2
		$ Billion	44.4	57.3	4.5	4.0	57.3	47.4
	LNG imports*	MMSCM	31,028	26,304	2,550	2,522	26,304	30,917
		$ Billion	13.5	17.1	1.2	1.1	17.1	13.3
	Net oil & gas imports	$ Billion	113.4	144.2	9.8	10.7	144.2	121.6
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	23.6	25.8	24.4	22.7	28.2	25.1
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	10.5	12.7	12.1	9.8	14.0	12.0
9	Import dependency of crude oil (on POL consumption basis)	%	85.5	87.4	88.9	88.0	87.4	87.7

#Includes condensate; *Private direct imports are prorated for the period Jan'24 to March'24 for POL. RIL data prorated. LNG Imports figure from DGCIS are prorated for Feb'24 to Mar'24.Total may not tally due to rounding off.


Production & Consumption of Petroleum Products (MMT)
MMT
300.0
250.0
200.0
150.0
100.0
50.0
0.0
233.5
194.3
254.3
201.7
266.5
223.0
276.1
233.3
2020-21
2021-22 (P)
2022-2023 (P)
Apr-Mar 2024 (P)
Production of petroleum products
Consumption of petroleum products

PART-B

Crude Oil, Refining & Production

3. Indigenous crude oil production (Million Metric Tonnes)

Details	2021-22	2022-23 (P)	March			April-March		
			2022-23 (P)	2023-24 Target*	2023-24 (P)	2022-23 (P)	2023-24 Target*	2023-24 (P)
ONGC	18.5	18.4	1.6	1.6	1.5	18.4	19.2	18.1
Oil India Limited (OIL)	3.0	3.2	0.3	0.3	0.3	3.2	3.4	3.3
Private / Joint Ventures (JVs)	7.0	6.2	0.5	0.6	0.5	6.2	7.4	5.7
Total Crude Oil	**28.4**	**27.8**	**2.3**	**2.5**	**2.3**	**27.8**	**30.0**	**27.2**
ONGC condensate	0.9	1.0	0.1	0.0	0.1	1.0	0.0	1.1
PSC condensate	0.3	0.31	0.03	0.0	0.1	0.3	0.0	1.1
Total condensate	**1.2**	**1.4**	**0.12**	**0.0**	**0.2**	**1.4**	**0.0**	**2.2**
Total (Crude + Condensate) (MMT)	**29.7**	**29.2**	**2.5**	**2.5**	**2.5**	**29.2**	**30.0**	**29.4**
Total (Crude + Condensate) (Million Bbl/Day)	0.60	0.59	0.58	0.60	0.59	0.58	0.60	0.59

*Provisional targets inclusive of condensate.

4. Domestic and overseas oil & gas production (by Indian Companies)

Details	2021-22	2022-23 (P)	March		April-March	
			2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)
Total domestic production (MMTOE)	63.7	63.6	5.4	5.6	63.6	65.8
Overseas production (MMTOE)	21.8	19.5	1.7	1.7	19.5	19.9

Source: ONGC Videsh, GAIL, OIL , IOCL, HPCL & BPRL

5. High Sulphur (HS) & Low Sulphur (LS) crude oil processing (MMT)

	Details	2021-22	2022-23 (P)	March		April-March	
				2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)
1	High Sulphur crude	185.0	197.9	17.9	18.8	197.9	205.2
2	Low Sulphur crude	56.7	57.4	5.1	4.6	57.4	56.3
Total crude processed (MMT)		**241.7**	**255.2**	**23.0**	**23.4**	**255.2**	**261.5**
Total crude processed (Million Bbl/Day)		4.85	5.13	5.44	5.53	5.11	5.24
Percentage share of HS crude in total crude oil processing		**76.6%**	**77.5%**	**78.0%**	**80.5%**	**77.5%**	**78.5%**

6. Quantity and value of crude oil imports			
Year	**Quantity (MMT)**	**$ Million**	**Rs. Crore**
2021-22	212.4	1,20,675	9,01,262
2022-23	232.7	1,57,531	12,60,372
April-Mar 2023-24(P)	232.5	1,32,392	10,96,840

7. Self-sufficiency in petroleum products (Million Metric Tonnes)							
Particulars		**2021-22**	**2022-23 (P)**	**March**		**April-March**	
				2022-23 (P)	**2023-24 (P)**	**2022-23 (P)**	**2023-24 (P)**
1	Indigenous crude oil processing	27.0	26.5	2.2	2.4	26.5	26.9
2	Products from indigenous crude (93.3% of crude oil processed)	25.2	24.7	2.0	2.2	24.7	25.1
3	Products from fractionators (Including LPG and Gas)	4.1	3.5	0.3	0.3	3.5	3.5
4	Total production from indigenous crude & condensate **(2 + 3)**	29.3	28.2	2.3	2.5	28.2	28.6
5	Total domestic consumption	201.7	223.0	21.2	21.1	223.0	233.3
% Self-sufficiency (4 / 5)		**14.5%**	**12.6%**	**11.1%**	**12.0%**	**12.6%**	**12.3%**

8. Refineries: Installed capacity and crude oil processing (MMTPA / MMT)										
Sl. no.	Refinery	Installed capacity (01.04.2024) MMTPA	Crude oil processing (MMT)							
			2021-22	2022-23 (P)	March			April-March		
					2022-23 (P)	2023-24 (Target)	2023-24 (P)	2022-23 (P)	2023-24 (Target)	2023-24 (P)
1	Barauni (1964)	6.0	5.6	6.8	0.6	0.6	0.6	6.8	6.6	6.6
2	Koyali (1965)	13.7	13.5	15.6	1.3	1.3	1.4	15.6	14.4	15.2
3	Haldia (1975)	8.0	7.3	8.5	0.7	0.7	0.7	8.5	7.6	8.1
4	Mathura (1982)	8.0	9.1	9.6	0.9	0.9	0.9	9.6	9.2	9.2
5	Panipat (1998)	15.0	14.8	13.8	1.3	1.0	1.1	13.8	14.3	14.3
6	Guwahati (1962)	1.2	0.7	1.1	0.10	0.09	0.1	1.1	1.0	1.0
7	Digboi (1901)	0.65	0.7	0.7	0.06	0.06	0.07	0.7	0.7	0.7
8	Bongaigaon(1979)	2.70	2.6	2.8	0.3	0.2	0.3	2.8	2.8	3.0
9	Paradip (2016)	15.0	13.2	13.6	1.4	1.3	1.4	13.6	15.3	15.2
	IOCL-TOTAL	**70.3**	**67.7**	**72.4**	**6.7**	**6.2**	**6.6**	**72.4**	**72.0**	**73.3**
10	Manali (1969)	10.5	9.0	11.3	1.0	0.9	1.1	11.3	10.2	11.6
11	CBR (1993)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CPCL-TOTAL	**10.5**	**9.0**	**11.3**	**1.0**	**0.9**	**1.1**	**11.3**	**10.2**	**11.6**
12	Mumbai (1955)	12.0	14.4	14.5	1.4	1.3	1.5	14.5	14.5	15.1
13	Kochi (1966)	15.5	15.4	16.0	1.5	1.4	1.6	16.0	15.8	17.3
14	Bina (2011)	7.8	7.4	7.8	0.7	0.7	0.6	7.8	7.0	7.1
	BPCL-TOTAL	**35.3**	**37.2**	**38.4**	**3.6**	**3.3**	**3.7**	**38.4**	**37.3**	**39.5**
15	Numaligarh (1999)	3.0	2.6	3.1	0.2	0.3	0.3	3.1	2.8	2.5

Sl. no.	Refinery	Installed capacity (01.04.2024) MMTPA	Crude oil processing (MMT)							
			2021-22	2022-23	March			April-March		
					2022-23 (P)	2023-24 (Target)	2023-24 (P)	2022-23 (P)	2023-24 (Target)	2023-24 (P)
16	Tatipaka (2001)	0.07	0.08	0.07	0.005	0.006	0.005	0.07	0.06	0.07
17	MRPL-Mangalore (1996)	15.0	14.9	17.1	1.5	1.5	1.5	17.1	15.9	16.5
	ONGC-TOTAL	**15.1**	**14.9**	**17.2**	**1.5**	**1.5**	**1.5**	**17.2**	**16.0**	**16.6**
18	Mumbai (1954)	9.5	5.6	9.8	0.9	0.8	0.5	9.8	9.0	9.6
19	Visakh (1957)	13.7	8.4	9.3	0.9	1.2	1.3	9.3	12.0	12.7
20	HMEL-Bathinda (2012)	11.3	13.0	12.7	1.1	1.0	1.1	12.7	11.5	12.6
	HPCL- TOTAL	**34.5**	**27.0**	**31.8**	**2.9**	**3.0**	**3.0**	**31.8**	**32.5**	**35.0**
21	RIL-Jamnagar (DTA) (1999)	33.0	34.8	34.4	2.8	2.8	3.0	34.4	34.4	34.4
22	RIL-Jamnagar (SEZ) (2008)	35.2	28.3	27.9	2.5	2.5	2.6	27.9	27.9	28.3
23	NEL-Vadinar (2006)	20.0	20.2	18.7	1.7	1.7	1.7	18.7	18.7	20.3
All India (MMT)		**256.8**	**241.7**	**255.2**	**23.0**	**22.2**	**23.4**	**255.2**	**251.7**	**261.5**
All India (Million Bbl/Day)		**5.02**	**4.85**	**5.13**	**5.44**	**5.26**	**5.53**	**5.11**	**5.04**	**5.24**

Note: Provisional Targets; Some sub-totals/ totals may not add up due to rounding off at individual levels. The Inputs to Refinery includes both Crude Oil and Other Inputs (OI), however Other Inputs (OI) do not form part of the above data.

9. Major crude oil and product pipeline network (as on 01.04.2024)

Details		ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Others*	Total
Crude Oil	Length (KM)	1,284	1,193	688	1,017	5,822	937			**10,941**
	Cap (MMTPA)	60.6	9.0	10.7	11.3	53.8	7.8			**153.1**
Products	Length (KM)		654			12,581	2,600	5,123	2,399	**23,357**
	Cap (MMTPA)		1.7			70.6	22.6	35.2	10.2	**140.3**

*Others include GAIL and Petronet India. HPCL and BPCL lubes pipeline included in products pipeline data

OIL & GAS MAP OF INDIA

LEGENDS

Refineries

Refineries (Capacity in MMTPA)

Producing Fields

Major Producing Fields

LNG Terminals

Dabhol, Dahej, Hazira, Kochi, Mundra, Ennore

★ (Upcoming Terminals) Dhamra, Jafrabad, Jaigarh, Chhara

LEGENDS

Pipelines Network

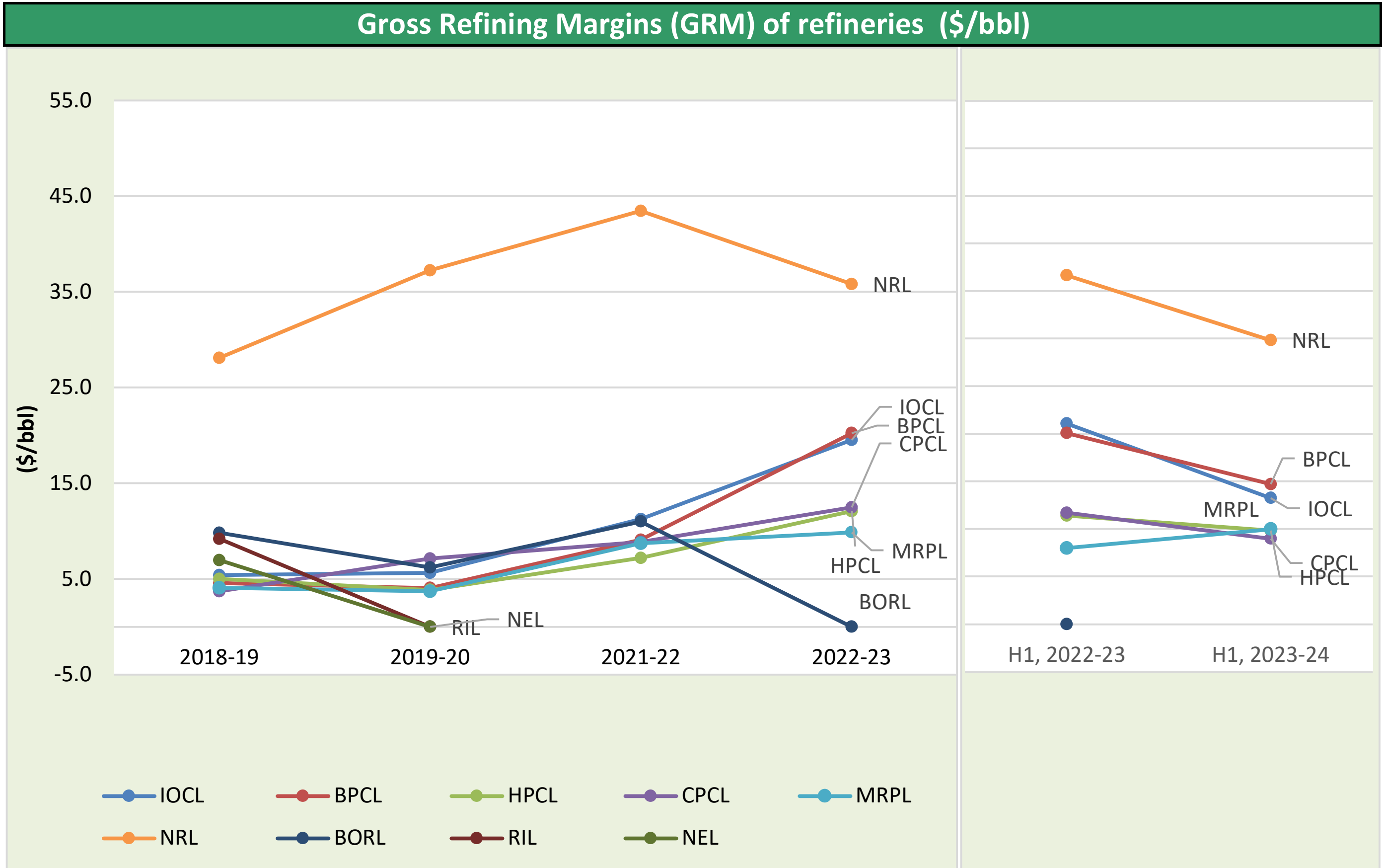
- Crude Oil Pipeline
- Ongoing Crude Oil Pipeline
- Product Pipeline
- Ongoing Product Pipeline
- LPG Pipeline
- Ongoing LPG Pipeline
- Gas Pipeline
- Ongoing Gas Pipeline

10. Gross Refining Margins (GRM) of refineries ($/bbl)					
Company	**2020-21**	**2021-22**	**2022-23**	**Apr - Dec**	
				2022-23	**2023-24**
IOCL	5.64	11.25	19.52	21.08	13.26
BPCL	4.06	9.09	20.24	20.08	14.72
HPCL	3.86	7.19	12.09	11.40	9.84
CPCL	7.14	8.85	12.48	11.70	8.98
MRPL	3.71	8.72	9.88	8.00	9.98
NRL	37.23	43.46	35.82	36.65	29.84
BORL	6.20	11.00	#	#	#
RIL	*	*	*	*	*
NEL	*	*	*	*	*

GRM of North Eastern refineries are including excise duty benefit

BPCL figures effective 2022-23 includes BORL also after its merger with BPCL

*Not available



GRM of North Eastern refineries are including excise duty benefit

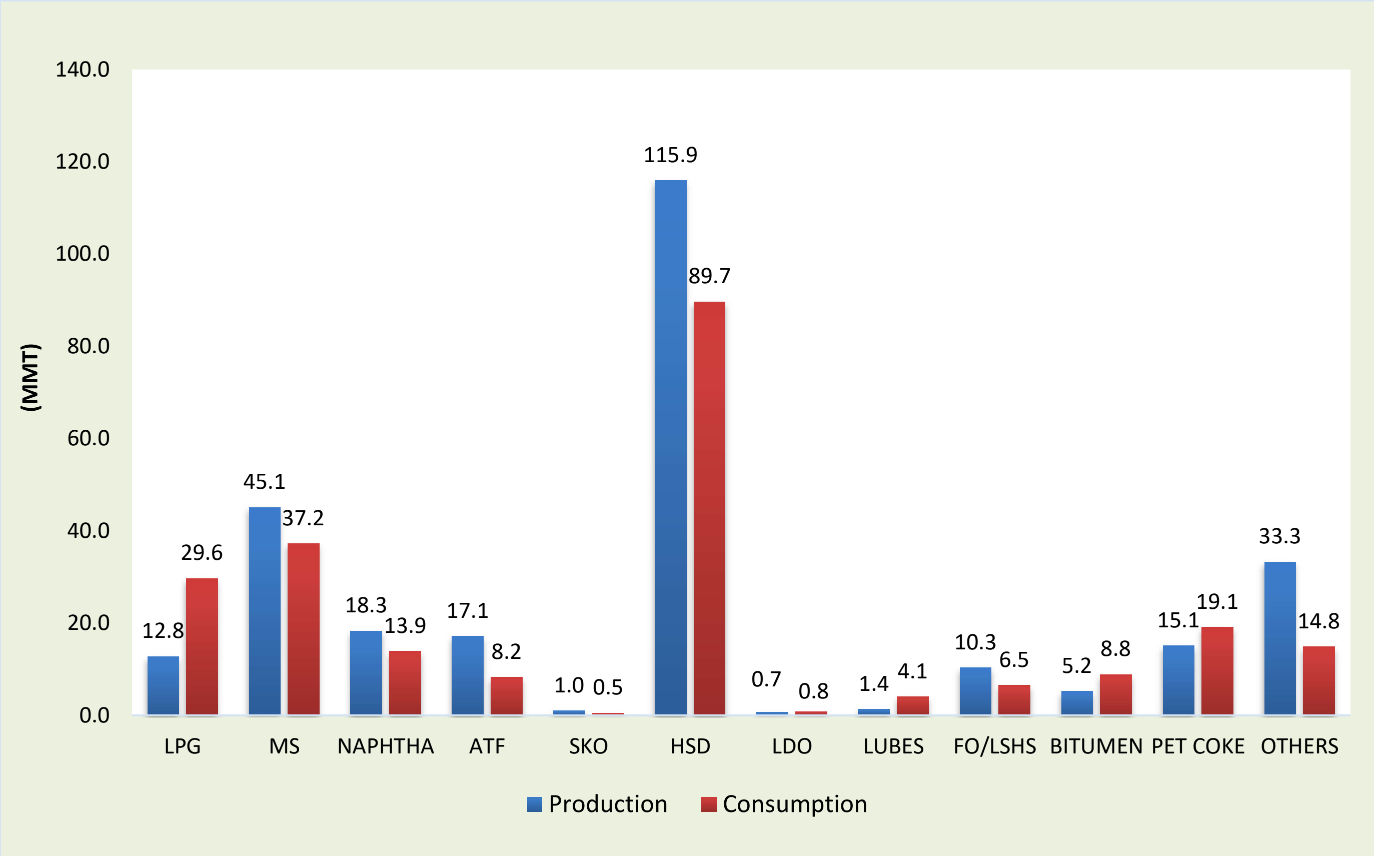
PART-C

Consumption

11. Production and consumption of petroleum products (Million Metric Tonnes)												
Products	**2021-22**		**2022-23 (P)**		**Mar- 2023 (P)**		**Mar-2024 (P)**		**Apr-Mar 2023 (P)**		**Apr-Mar 2024 (P)**	
	Prod	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**
LPG	12.2	28.3	12.8	28.5	1.1	2.4	1.2	2.6	12.8	28.5	12.8	29.6
MS	40.2	30.8	42.8	35.0	4.1	3.1	4.1	3.3	42.8	35.0	45.1	37.2
NAPHTHA	20.0	13.2	17.0	12.2	1.5	1.1	1.7	1.2	17.0	12.1	18.3	13.9
ATF	10.3	5.0	15.0	7.4	1.4	0.7	1.6	0.8	15.0	7.4	17.1	8.2
SKO	1.9	1.5	0.9	0.5	0.1	0.0	0.1	0.0	0.9	0.5	1.0	0.5
HSD	107.2	76.7	113.8	85.9	10.3	7.8	10.1	8.0	113.8	85.9	115.9	89.7
LDO	0.8	1.0	0.6	0.7	0.08	0.1	0.07	0.1	0.6	0.7	0.7	0.8
LUBES	1.2	4.5	1.3	3.7	0.3	0.4	0.1	0.4	1.4	3.7	1.4	4.1
FO/LSHS	8.9	6.3	10.4	7.0	0.6	0.6	0.7	0.5	10.2	7.0	10.3	6.5
BITUMEN	5.1	7.8	4.9	8.0	0.6	1.1	0.6	1.0	4.9	8.0	5.2	8.8
PET COKE	15.5	14.3	15.4	18.3	1.4	2.0	1.4	1.6	15.4	18.3	15.1	19.1
OTHERS	30.9	12.3	31.5	15.8	3.0	2.0	3.3	1.5	31.5	15.8	33.3	14.8
ALL INDIA	**254.3**	**201.7**	**266.5**	**223.0**	**24.5**	**21.2**	**24.9**	**21.1**	**266.5**	**223.0**	**276.1**	**233.3**
Growth (%)	**-3.1%**	**-5.4%**	**4.8%**	**10.6%**	**1.5%**	**8.7%**	**1.5%**	**-0.6%**	**4.8%**	**10.6%**	**3.6%**	**4.6%**

Note: Prod - Production; Cons - Consumption

Petroleum Products: April-March 2024 (P) (MMT)



12. Kerosene allocation vs upliftment (Kilo Litres)

Product	2020-21		2021-22		2022-23		2023-24 (P)*	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
PDS Kerosene	23,15,008	20,38,790	17,83,344	16,59,906	12,43,644	3,96,115	9,71,796	3,83,479

* Allocation is for Apr-Mar 2023-24 and upliftment is for Apr-Mar' 2024

13. Ethanol blending programme

Particulars	Ethanol Supply Year *				
	2020-21	2021-22	2022-23 (Dec'22- Oct'23)	Mar'24	Nov'23-Mar'24
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	296.1	408.1	494.0	55.3	224.5
Ethanol blended under EBP Program (in Cr. Litrs)	302.3	433.6	508.8	53.0	232.6
Average Percentage of Blending Sales (EBP%)	8.1%	10.0%	12.1%	12.8%	12.0%

*Ethanol Supply Year : Ethanol supply year for 2022-23 taken for Dec'22-Oct'23 & thereafter changed to ethanol supplies between 1st November of current year to 31st October of the following year.

Note: With effect from 01.04.2019, EBP Programme has been extended to whole of India except UTs of Andaman and Nicobar Islands and Lakshadweep.

14. Industry marketing infrastructure (as on 01.04.2024) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL/RBML/RSIL	NEL	SHELL	MRPL & Others	Total
POL Terminal/ Depots **(Nos.)**[$]	126	80	81	17	3		6	**313**
Aviation Fuel Stations **(Nos.)**[@]	129	62	55	31			10	**287**
Retail Outlets (total) **(Nos.),**[^]	37,473	21,840	22,022	1,706	6,599	343	101	**90,084**
out of which Rural ROs	12,197	5,527	5,453	130	2,112	88	35	**25,542**
SKO/LDO agencies **(Nos.)**	3,830	927	1,638					**6,395**
LPG Distributors (total) **(Nos.) (PSUs only)**	12,880	6,252	6,349					**25,481**
LPG Bottling plants **(Nos.) (PSUs only)**[#]	98	53	56				3	**210**
LPG Bottling capacity **(TMTPA) (PSUs only)**[&]	10,950	5,100	6,590				203	**22,843**
LPG active domestic consumers **(Nos. crore) (PSUs only)**	15.2	8.4	8.9					**32.4**

[$](Others=4 MRPL & 2 NRL); [@](Others=ShellMRPL); [^](Others=MRPL); [#](Others=NRL-1, OIL-1, CPCL-1); [&](Others=NRL-60, OIL-23, CPCL-120); RBML- Reliance BP Mobility Limited; RSIL-RBML Solutions India Ltd.

Industry Alternate fuel infrastructure at Retail outlets (Nos. of ROs as on 01.04.2024) (Provisional)

Alternate fuel	IOCL	BPCL	HPCL	RBML/RSIL	NEL	SHELL	MRPL	Total
CNG_LNG	2111	2031	1690	28	37	0	2	**5899**
EV Charging	9542	3135	3603	57	487	240	14	**17078**
Auto LPG	319	44	105	54	51	0	0	**573**
Compressed Bio-Gas outlets	73	40	1	9	0	0	0	**123**
Total RO's with at least one Alternate fuel	11118	4653	4972	39	575	240	16	**21613**
Solarization at Retail outlets	31647	17252	17618	74	1001	0	0	**67592**

पहल ...एक नई दिशा

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प्रधानमंत्री उज्ज्वला योजना

PART-D

LPG

15. LPG consumption (Thousand Metric Tonne)

LPG category	2021-22	2022-23	March			April-March		
			2022-23	2023-24 (P)	Growth (%)	2022-23	2023-24 (P)	Growth (%)
1. PSU Sales :								
LPG-Packed Domestic	25,501.6	25,381.5	2,181.2	2,345.1	7.5%	25,381.5	26,207.5	3.3%
LPG-Packed Non-Domestic	2,238.8	2,606.0	192.5	216.1	12.2%	2,606.0	2,760.2	5.9%
LPG-Bulk	390.9	408.9	24.8	44.9	80.6%	408.9	593.8	45.2%
Auto LPG	122.0	106.7	7.9	6.4	-19.2%	106.7	88.0	-17.6%
Sub-Total (PSU Sales)	28,253.3	28,503.1	**2,406.5**	**2,612.4**	**8.6%**	**28,503.1**	**29,649.4**	**4.0%**
2. Direct Private Imports*	0.1	0.1	0.00	0.01	-	0.08	0.06	-29.6%
Total (1+2)	28,253.4	28,503.2	**2,406.5**	**2,612.4**	**8.6%**	**28,503.2**	**29,649.5**	**4.0%**

*Jan-Mar'24 DGCIS data is prorated.

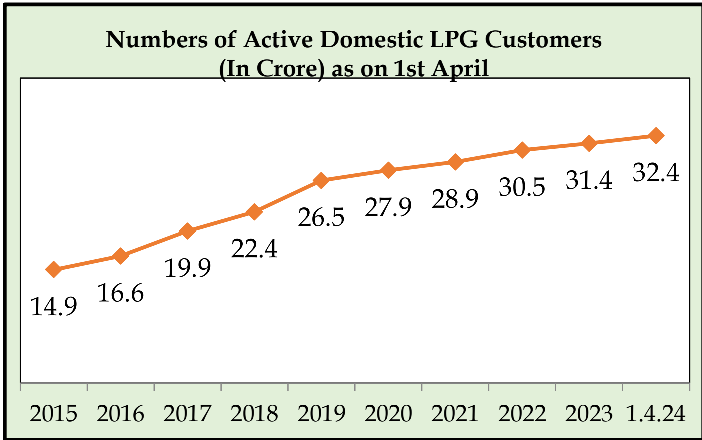
16. LPG marketing at a glance

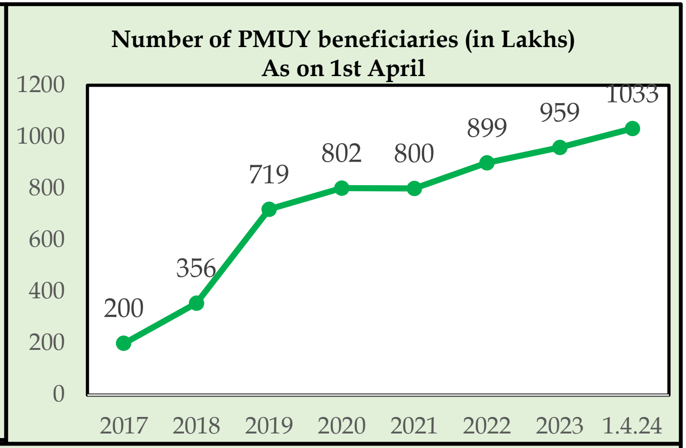
Particulars (As on 1st of April)	Unit	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	1.04.24 (P)
LPG Active Domestic Customers	(Lakh)				1486	1663	1988	2243	2654	2787	2895	3053	3140	3242
	Growth					11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	5.5%	2.9%	3.2%
LPG Coverage (Estimated)	(Percent)				56.2	61.9	72.8	80.9	94.3	97.5	99.8	-	-	-
	Growth					10.1%	17.6%	11.1%	16.5%	3.4%	2.3%	-	-	-
PMUY Beneficiaries	(Lakh)						200.3	356	719	802	800	899.0	958.6	1032.7
	Growth							77.7%	101.9%	11.5%	-0.2%	12.2%	6.6%	7.7%
LPG Distributors	(No.)	11489	12610	13896	15930	17916	18786	20146	23737	24670	25083	25269	25386	25481
	Growth	9.0%	9.8%	10.2%	14.6%	12.5%	4.9%	7.2%	17.8%	3.9%	1.7%	0.7%	0.5%	0.4%
Auto LPG Dispensing Stations	(No.)	652	667	678	681	676	675	672	661	657	651	601	526	468
	Growth	7.9%	2.3%	1.6%	0.4%	-0.7%	-0.1%	-0.4%	-1.6%	-0.6%	-0.9%	-8.5%	-12.5%	-11.0%
Bottling Plants	(No.)	184	185	187	187	188	189	190	192	196	200	202	208	210
	Growth	0.5%	0.5%	1.1%	0.0%	0.5%	0.5%	0.5%	1.1%	2.1%	2.0%	1.0%	4.5%	1.0%

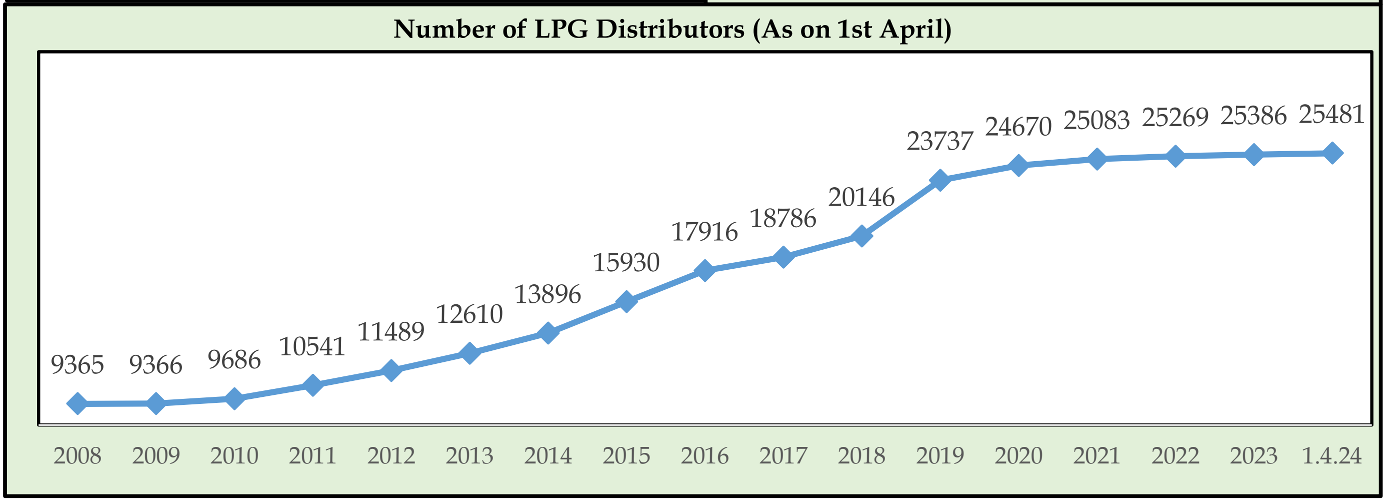
Source: PSU OMCs (IOCL,BPCL and HPCL)

1.Growth rates as on 01.04.2024 are with respect to figs as on 01.04.2023. Growth rates as on 1 April of any year are with respect to figs as on 1 April of previous year.

2. The LPG coverage is calculated by PSU OMCs based upon the active LPG domestic connections and the estimated number of households. The number of households has been projected by PSU OMCs based on 2011 census data. Factors like increasing nuclearization of families, migration of individuals/ families due to urbanization and reduction in average size of households etc. impact the growth of number of households. Due to these factors, the estimated no. of households through projection of 2011 census data may slightly differ from the actual no. of households in a State/UT. Further, this methodology does not include PNG (domestic) connections.

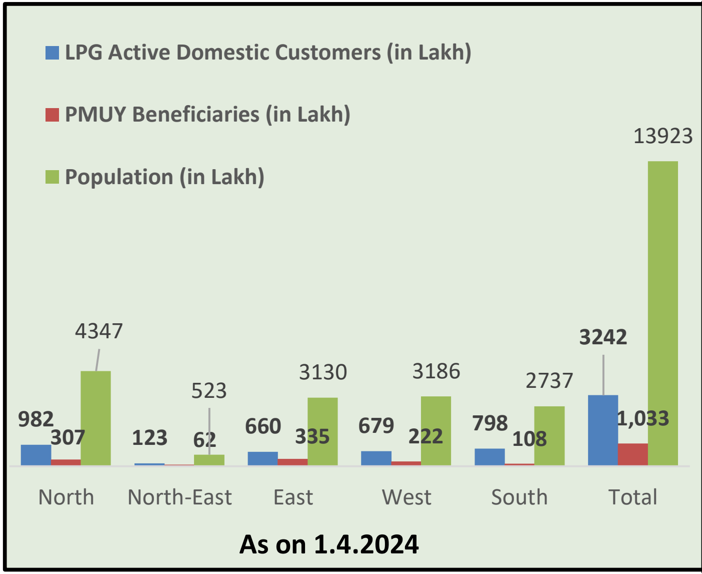

Numbers of Active Domestic LPG Customers
(In Crore) as on 1st April
14.9
16.6
19.9
22.4
26.5
27.9
28.9
30.5
31.4
32.4
2015
2016
2017
2018
2019
2020
2021
2022
2023
1.4.24

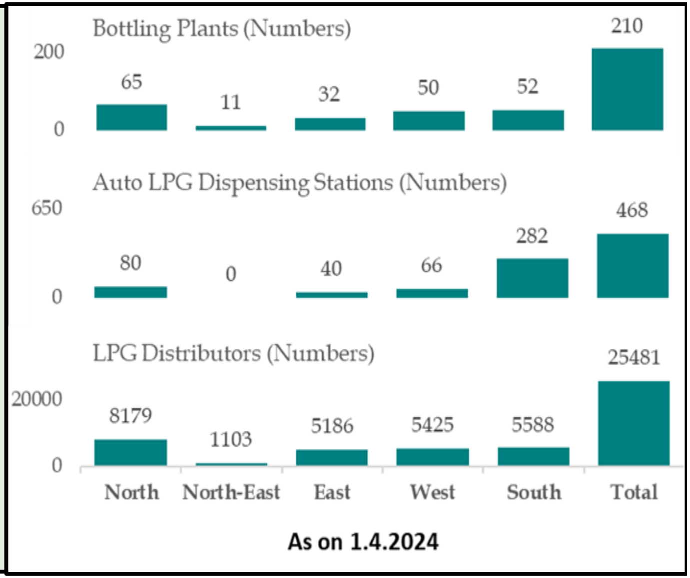

Number of PMUY beneficiaries (in Lakhs)
As on 1st April
1200
1000
800
600
400
200
0
200
356
719
802
800
899
959
1033
2017
2018
2019
2020
2021
2022
2023
1.4.24


Number of LPG Distributors (As on 1st April)
9365
9366
9686
10541
11489
12610
13896
15930
17916
18786
20146
23737
24670
25083
25269
25386
25481
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
1.4.24

17-Region-wise data on LPG marketing (As on 01.04.2024)						
Particulars	**North**	**North-East**	**East**	**West**	**South**	**Total**
LPG Active Domestic Customers (in Lakh)	982.4	122.6	660.1	679.0	798.1	3242.2
Population^ (in Lakh)	4347.5	523.0	3130.2	3185.9	2736.7	13923.3
PMUY Beneficiaries (in Lakh)	306.6	61.8	334.5	221.6	108.1	1032.7
LPG Distributors (Numbers)	8179	1103	5186	5425	5588	25481
Auto LPG Dispensing Stations (Numbers)	80	0	40	66	282	468
Bottling Plants* (Numbers)	65	11	32	50	52	210

*Includes Numaligarh BP, Duliajan BP and CPCL BP.   ^Population as on 1st July 2023 taken from RGI POPULATION PROJECTIONS 2011 – 2036





PART-E

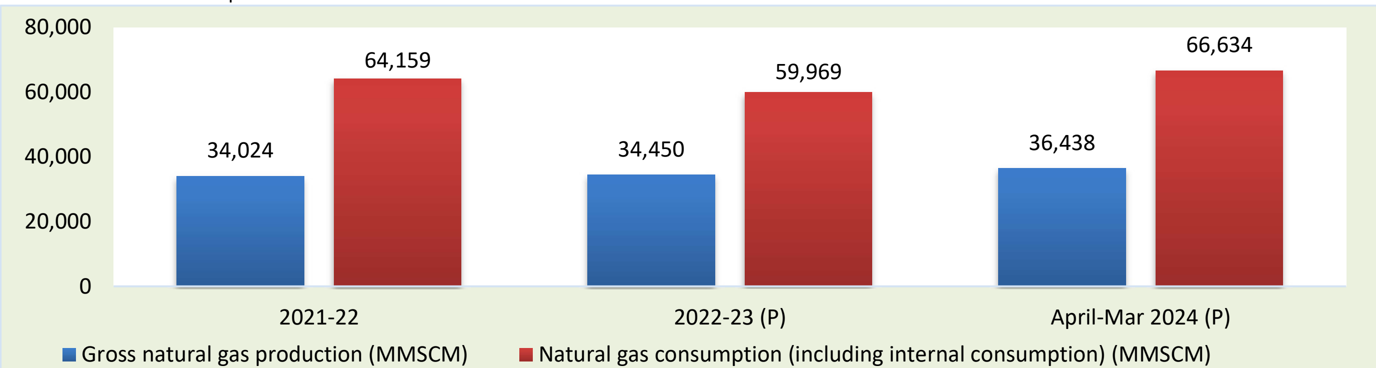
Natural Gas

18. Natural gas at a glance

(MMSCM)

Details	2021-22 (P)	2022-23 (P)	March			April-March		
			2022-23 (P)	2023-24 (Target)	2023-24 (P)	2022-23 (P)	2023-24 (Target)	2023-24 (P)
(a) Gross production	34,024	34,450	2,956	3,330	3,138	34,450	38,181	36,438
- ONGC	20,629	19,969	1,696	1,731	1,617	19,969	20,559	19,316
- Oil India Limited (OIL)	2,893	3,041	261	268	277	3,041	3,155	3,090
- Private / Joint Ventures (JVs)	10,502	11,440	999	1,330	1,245	11,440	14,466	14,032
(b) Net production (excluding flare gas and loss)	33,131	33,664	2,889		3,072	33,664		35,717
(c) LNG import#	31,028	26,304	2,550		2,522	26,304		30,917
(d) Total consumption including internal consumption (b+c)	64,159	59,969	5,439		5,594	59,969		66,634
(e) Total consumption **(in BCM)**	64.2	60.0	5.4		5.6	60.0		66.6
(f) Import dependency based on consumption (%), {c/d*100}	48.4	43.9	46.9		45.1	43.9		46.399

March 2024 DGCIS data prorated.



19. Coal Bed Methane (CBM) gas development in India

Prognosticated CBM resources		91.8	TCF
Established CBM resources		10.4	TCF
CBM Resources (33 Blocks)		62.8	TCF
Total available coal bearing areas (India)		32760	Sq. KM
Total available coal bearing areas with MoPNG/DGH		12254*	Sq. KM
Area awarded		21,177**	Sq. KM
Blocks awarded*		39	Nos.
Exploration initiated (Area considered if any boreholes were drilled in the awarded block)		10670	Sq. KM
Production of CBM gas	April-Mar 2024 (P)	650.48	MMSCM
Production of CBM gas	Mar 2024 (P)	56.83	MMSCM

*ST CBM Block awarded & relinquished twice- in CBM Round II and Round IV -Area considered if any boreholes were drilled in the awarded block. **MoPNG awarded 04 new CBM Blocks (Area 3862 sq. km) under Special CBM Bid Round 2021 in September 2022. ***Area considered if any boreholes were drilled in the awarded block.

19a. Status of Compressed Bio Gas (CBG) projects under SATAT (as on 01.04.2024) (Provisional)

Particulars	Units	IOCL	HPCL	BPCL	GAIL#	IGL	Total
No. of CBG plants commissioned and initiated sale of CBG	No. of plants	31*	9	8	10	5	**61***
Start of CBG sale from retail outlet(s)	Nos.	85	41	50	1	0	**177**
Sale of CBG in 2022-23	Tons	5,822	77	6	5322		**11,227**
Sale of CBG in 2023-24 (up to March, 2023)	Tons	6500	309	102	9156@		**16068**
Sale of CBG in CGD network	GA Nos.				25		**25**

#Sale of CBG sourced under CBG-CGD synchronization by GAIL through its own marketing channels and other CGDs/OMCs. @GAIL data is upto Feb-24.*2 LOI holders of IndianOil are supplying CBG produced at their plants to two other OGMCs and hence they are counted only once in cumulative CBG plants commissioned on industry basis.

20. Common Carrier Natural Gas pipeline network as on 31.12.2023

Nature of pipeline		GAIL	GSPL	PIL	IOCL	AGCL	RGPL	GGL	DFPCL	ONGC	GIGL	GITL	Others*	Total
Operational	Length	11,009	2,716	1,483	143	107	304	73	42	24	0	0	0	**15,901**
	Capacity	167.2	43.0	85.0	20.0	2.4	3.5	5.1	0.7	6.0				**-**
Partially commissioned#	Length	4,743	0	0	1,080	0	0	0	0	0	1,302	0	365	**7,490**
	Capacity	55.0	0.0	0.0	84.7	0.0	0.0	0.0	0.0	0.0	122.5	0.0	0.0	**-**
Total operational length		**15,752**	**2,716**	**1,483**	**1,223**	**107**	**304**	**73**	**42**	**24**	**1,302**	**0**	**365**	**23,391**
Under construction	Length	1,347	3	0	352	0	0	0	0	0	899	36	1,488	**4,125**
	Capacity	26.3	3.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	36.0	0.0	**-**
Total length		**17,099**	**2,719**	**1,483**	**1,575**	**107**	**304**	**73**	**42**	**24**	**2,201**	**36**	**1,853**	**27,516**

Source: PNGRB; Length in KMs ; Authorized Capacity in MMSCMD (Arithmetic sum taken for each entity -capacity may vary from pipeline to pipeline); *Others-APGDC, , IGGL, IMC,GTIL,HPPL Consortium of H-Energy. Total authorized Natural Gas pipelines including Tie-in connectivity, dedicated & STPL is 33,347 Kms (P),however total operational and Under Construction Pipeline length is 35,217 Kms (P)

21. Existing LNG terminals

Location	Promoters	Capacity as on 01.04.2024	% Capacity utilisation (April-Feb 2024)
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	95.1
Hazira	Shell Energy India Pvt. Ltd.	5.2 MMTPA	31.5
Dabhol	Konkan LNG Limited	*5 MMTPA	41.5
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	20.6
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	17.8
Mundra	GSPC LNG Limited	5 MMTPA	12.6
Dhamra	Adani Total Private Limited	5 MMTPA	23.1
Total Capacity		**47.7 MMTPA**	

* To increase to 5 MMTPA with breakwater. Only HP stream of capacity of 2.9 MMTPA is commissioned

22. Status of PNG connections and CNG stations across India (Nos.), as on 29.02.2024(P)				
State/UT (State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	PNG connections		
		Domestic	Commercial	Industrial
Andhra Pradesh	174	2,68,579	467	38
Andhra Pradesh, Karnataka & Tamil Nadu	43	9,275	4	6
Assam	17	55,689	1,391	453
Bihar	123	1,37,824	121	9
Bihar & Jharkhand	6	8,355	4	0
Bihar & Uttar Pradesh	23	1,690	0	0
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	27	26,724	163	43
Chhattisgarh	16	419	0	0
Dadra & Nagar Haveli (UT)	6	12,083	56	63
Daman & Diu (UT)	5	5,180	62	47
Daman and Diu & Gujarat	15	6,044	23	0
Goa	12	13,465	30	40
Gujarat	993	32,53,175	23,445	5,786
Haryana	362	3,45,599	920	2,259
Haryana	22	22,617	137	59
Haryana & Himachal Pradesh	10	48	0	0
Haryana & Punjab	27	1,081	0	0
Himachal Pradesh	13	7,314	20	0
Jharkhand	95	1,31,288	26	4
Karnataka	362	4,28,136	571	359
Kerala	131	66,957	44	20
Kerala & Puducherry	11	2,136	0	0
Madhya Pradesh	281	2,28,481	462	508
Madhya Pradesh and Chhattisgrah	7	0	0	0
Madhya Pradesh and Rajasthan	35	806	0	0
Madhya Pradesh and Uttar Pradesh	16	0	0	3
Maharashtra	852	33,36,031	4,817	976
Maharashtra & Gujarat	64	1,87,645	10	32
Maharashtra and Madhya Pradesh	15	0	0	0

State/UT (State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	PNG connections		
		Domestic	Commercial	Industrial
National Capital Territory of Delhi (UT)	481	15,56,912	3,965	1,910
Odisha	98	1,08,991	8	0
Puducherry	2	0	0	0
Puducherry & Tamil Nadu	8	322	0	0
Punjab	215	82,644	608	288
Punjab & Rajasthan	18	508	0	0
Rajasthan	283	2,71,787	180	1,691
Tamil Nadu	277	19,884	7	13
Telangana	176	1,99,649	106	111
Telangana and Karnataka	4	0	0	1
Tripura	18	61,408	508	62
UT of Jammu and Kashmir	1	0	0	0
Uttar Pradesh	914	15,86,903	2,644	3,270
Uttar Pradesh & Rajasthan	45	21,532	48	349
Uttar Pradesh and Uttrakhand	28	14,864	0	0
Uttarakhand	35	72,795	90	99
West Bengal	90	11,194	3	1
Grand Total	**6,456**	**1,25,66,034**	**40,940**	**18,500**

Source: PNGRB

Note: 1. All the GAs where PNG connections/CNG Stations have been established are considered as Operational, 2. Under normal conditions. Operation of any particular GA commences within around one year of authorization. 3. State/UTs wherever clubbed are based on the GAs authorised by PNGRB.

23. Domestic natural gas price and gas price ceiling (GCV basis)

Period	Domestic Natural Gas price in	Gas price ceiling in US$/MMBTU
March 2014 - March 2015	5.05	-
April 2015 - September 2015	4.66	-
October 2015 - March 2016	3.82	-
April 2016 - September 2016	3.06	6.61
October 2016 - March 2017	2.5	5.3
April 2017 - September 2017	2.48	5.56
October 2017 - March 2018	2.89	6.3
April 2018 - September 2018	3.06	6.78
October 2018 - March 2019	3.36	7.67
April 2019 - September 2019	3.69	9.32
October 2019 - March 2020	3.23	8.43
April 2020 - September 2020	2.39	5.61
October 2020 - March 2021	1.79	4.06
April 2021 - September 2021	1.79	3.62
October 2021 - March 2022	2.9	6.13
April 2022 - September 2022	6.1	9.92
October 2022 - March 2023	8.57	12.46
1 April 2023 - 7 April 2023	9.16	12.12

Period	Domestic Gas calculated	Domestic Gas ceiling price for	Period	HP-HT Gas price ceiling in
8 April 2023 - 30 April 2023	7.92	6.50	April 2023 - September 2023	12.12
1 May 2023 - 31May 2023	8.27	6.50		
1 June 2023 - 30 June 2023	7.58	6.50		
1 July 2023 - 31 July 2023	7.48	6.50		
1 Aug 2023 - 31 Aug 2023	7.85	6.50		
1 Sept 2023 - 30 Sept 2023	8.60	6.50		
1 Oct 2023 - 31 Oct 2023	9.20	6.50	October'2023 - March 2024	9.96
1 Nov 2023 - 30 Nov2023	9.12	6.50		
1 Dec 2023 - 31 Dec 2023	8.47	6.50		
1 Jan 2024 - 31 Jan 2024	7.82	6.50		
1 Feb 2024- 29 Feb 2024	7.85	6.50		
1 Mar 2024- 31 Mar 2024	8.17	6.50		
1 April 2023 - 30 April 2023	8.38	6.50	April 2024-September 2024	9.96

Natural Gas prices are on GCV basis

24. CNG/PNG prices

City	CNG (Rs/Kg)	PNG (Rs/SCM)	Source
Delhi	74.09	48.59	IGL website (12.04.2024)
Mumbai	73.50	47.00	MGL website (12.04.2024)

Indian Natural Gas Spot Price for Physical Delivery

IGX Price Index Month	Avg. Price		Volume (MMSCM)	Source
	INR/MMBtu	$/MMBtu		
`Mar 2024	799	9.60	72.70	As per IGX website:

*Prices are weighted average prices|$1=INR 83.00| 1 MMBtu=25.2 SCM (Data Excluding Ceiling Price Gas)

PART-F

Taxes & Duties on Petroleum Products

25. Information on Prices, Taxes and Under-recoveries/Subsidies

International FOB prices/ Exchange rates ($/bbl)

Particulars	2021-22	2022-23	Mar 2024
Crude oil (Indian Basket)	79.18	93.15	84.49
Petrol	89.66	107.00	97.14
Diesel	88.45	128.08	98.70
Kerosene	85.31	120.55	97.62
LPG ($/MT)	692.67	711.50	636.00
FO ($/MT)	445.25	452.66	447.02
Naphtha ($/MT)	698.25	666.53	641.55
Exchange (Rs./$)	74.51	80.39	83.00

Customs, excise duty & GST rates

Product	Basic customs duty #	Excise duty	GST rates
Petrol	2.50%	Rs 19.90/Ltr	**
Diesel	2.50%	Rs 15.80/Ltr	**
PDS SKO	5.00%	Not Applicable	5.00%
Non-PDS SKO	5.00%	Not Applicable	18.00%
Domestic LPG	Nil***	Not Applicable	5.00%
Non Domestic LPG	5.00%	Not Applicable	18.00%
Furnace Oil (Non-Fert)	2.50%	Not Applicable	18.00%
Naphtha (Non-Fert)	2.50%	Not Applicable	18.00%
ATF	5.00%	11% *	**
Crude Oil	Rs.1/MT+ Rs.50/-MT as NCCD	Rs.1/MT+ Cess@20% + Rs.50 /-MT NCCD + Rs.6800/ MT SAED ^^^	**

Social welfare surcharge @ 10% is levied on aggregate duties of Customs excluding CVD in lieu of IGST;

*2% for scheduled commuter airlines from regional connectivity scheme airports;

** GST Council shall recommend the date on which GST shall be levied on petroleum crude , HSD, MS, natural gas and ATF;

*** Basic Customs duty is Nil for import of domestic LPG sold to household consumers (including NDEC) by PSU OMCs. Basic Customs duty rate is 5% for other importers of domestic LPG;

^^^ Effective 04.04.2024 SAED on crude oil.

Price buildup of petroleum products (Rs./litre/Cylinder) *

Particulars	Petrol	Diesel
Price charged to dealers (excluding Excise Duty and VAT)	55.62	56.38
Excise Duty	19.90	15.80
Dealers' Commission (Average)	3.81	2.62
VAT (incl VAT on dealers' commission)	15.39	12.82
Retail Selling Price	**94.72**	**87.62**

Particulars	PDS SKO	Subsidised Domestic LPG
Price before taxes and dealers'/distributors' commission	59.46	691.67
Dealers'/distributors' commission	2.65	73.08
GST (incl GST on dealers'/distributors' commission)	3.11	38.25
Retail Selling Price	**65.22**	**803.00**

*Petrol and Diesel at Delhi as per IOCL are as on 01st Apr 2024. PDS SKO at Mumbai as on 1st Apr 2024 and Subsidised Domestic LPG at Delhi as on 1st Apr 2024.

25. Information on Prices, Taxes and Under-recoveries/Subsidies

DBTL/ PMUY Subsidy

Domestic LPG under DBTL (Direct benefit transfer for LPG)

Product	2020-21	2021-22	2022-23 (P)
	Rs./Crore		
DBTL subsidy	3,559	-	823
PME &IEC^	99	242	32
Total	**3,658**	**242**	**855**

^ On payment basis (PME & IEC - Project Management Expenditure & Information , Education and Communication)

Note: During FY 2022-23 Government of India has approved a one-time grant of Rs. 22,000 crores to PSU OMCs towards under-recoveries in Domestic LPG.

PMUY

Particulars	2020-21	2021-22	2022-23 (P)
	Rs./Crore		
PMUY	-34	1,569	6,110
PME &IEC^	110	-	-
Pradhan Mantri Gareeb Kalyan Yojana	8,162	-	-
Total	**8,238**	**1,569**	**6,110**

^ On payment basis (PME & IEC - Project Management Expenditure & Information , Education and Communication)

Sales & profit of petroleum sector (Rs. Crores)

Particulars	2022-23		2023-24 (P) (Upto Q3)	
	TurDecer	PAT	Turnover	PAT
Upstream/midstream Companies (PSU)	3,21,099	50,941	2,17,314	39,950
Downstream Companies (PSU)	19,16,438	1,138	13,55,925	69,082
Standalone Refineries (PSU)	2,45,272	9,875	1,50,664	6,075
Private-RIL	5,78,088	44,190	4,15,650	30,759

Borrowings of OMCs (Rs. Crores), As on

Company	Mar'22	Mar'23	Dec'23
IOCL	1,10,799	1,32,495	1,06,190
BPCL	24,123	35,855	16,017
HPCL	43,193	64,517	49,999

Petroleum sector contribution to Central/State Govt.

Particulars	2020-21	2021-22	2022-23
Central Government	4,55,069	4,92,303	4,28,067
% of total revenue receipts	28%	23%	18%
State Governments	2,17,650	2,82,122	3,20,651
% of total revenue receipts	8%	8%	8%
Total (Rs. Crores)	**6,72,719**	**7,74,425**	**7,48,718**

Total Subsidy as a percentage of GDP (at current prices)

Particulars	2020-21	2021-22	2022-23 (P)
Petroleum subsidy	0.06	0.01	0.03

Note: GDP figure for 2020-21 & 2021-22 are Revised Estimates (RE) and 2022-23 are Second Advance Estimates (SAE).

**Totals may not tally due to roundoff.

PART-G

Miscellaneous

26. Capital expenditure of PSU oil companies

(Rs in crores)

Company	2020-21	2021-22	2022-23 (P)	2023-24 (P)	
				Target (Annual)	Apr-Mar'24 (P)
ONGC Ltd	26,441	26,621	29,209	30,125	34,551
ONGC Videsh Ltd (OVL)	5,351	4,836	2,723	3,229	3,262
Oil India Ltd (OIL)	12,802	4,239	5,057	4,896	5,390
GAIL (India) Ltd	5,560	6,970	8,313	7,750	10,388
Indian Oil Corp. Ltd. (IOCL)	27,195	29,604	35,205	30,395	38,660
Bharat Petroleum Corp. Ltd (BPCL)	10,697	11,449	11,527	10,000	11,002
Hindustan Petroleum Corp. Ltd (HPCL)	14,036	16,205	13,847	10,210	13,842
Mangalore Refinery & Petrochem Ltd (MRPL)	2,218	604	641	820	1,513
Chennai Petroleum Corp. Ltd (CPCL)	592	575	609	548	561
Numaligarh Refinery Ltd (NRL)	981	3,403	6,615	8,290	8,585
Balmer Lawrie Co. Ltd (BL)	42	23	46	40	47
Engineers India Ltd (EIL)	730	67	60	98	108
Total	**1,06,642**	**1,04,596**	**1,13,853**	**1,06,401**	**1,27,908**

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional

Totals may not tally due to roundoff.

27. Conversion factors and volume conversion

Weight to volume conversion

Product	Weight (MT)	Volume (KL)	Barrel (bbl)
LPG	1	1.844	11.60
Petrol (MS)	1	1.411	8.88
Diesel (HSD)	1	1.210	7.61
Kerosene (SKO)	1	1.285	8.08
Aviation Turbine Fuel (ATF)	1	1.288	8.10
Light Diesel Oil (LDO)	1	1.172	7.37
Furnace Oil (FO)	1	1.0424	6.74
Crude Oil	1	1.170	7.33

Exclusive Economic Zone

200 Nautical Miles	370.4 Kilometers

Volume conversion

From	To
1 US Barrel (bbl)	159 litres
1 US Barrel (bbl)	20130.81
1 US Gallon	3.78 litres
1 Kilo litre (KL)	6.29 bbl
1 Million barrels per day	49.8 MMTPA

Energy conversion

1 Kilocalorie (kcal)	4.187 kJ
1 Kilocalorie (kcal)	3.968 Btu
1 Kilowatt-hour (kWh)	860 kcal
1 Kilowatt-hour (kWh)	3,412 Btu

Natural gas conversions

1 Standard Cubic Metre (SCM)	35.31 Cubic Feet	1 MMBTU	25.2 SCM @10000 kcal/SCM
1 Billion Cubic Metres (BCM)/year of Gas	2.74 MMSCMD	GCV (Gross Calorific Value)	10,000 kcal/SCM
1 Trillion Cubic Feet (TCF) of Gas Reserve	3.88 MMSCMD	NCV (Net Calorific Value)	90% of GCV
1 Million Metric Tonne Per Annum (MMTPA) of LNG	3.60 MMSCMD	Gas required for 1 MW power generation	4,541 SCM/day
1 MT of LNG	1,325 SCM	Power generation from 1 MMSCMD of gas	220 MW

Petroleum Planning & Analysis Cell
Ministry of Petroleum & Natural Gas, Government of India)
SCOPE Complex, 2nd Floor, Core-8, Lodhi Road, New Delhi-110003
Tel.: 011-24306191/92, 011-24361314, Fax : 011-24361253 www.ppac.gov.in