



उच्च प्रौद्योगिकी केन्द्र

(पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय, भारत सरकार)

Centre for High Technology

(Ministry of Petroleum & Natural Gas, Govt. of India)

स.उ.प्रौ.के./प्रशा./3.17/1393

दिनांक 20.12.2018

अनुभाग अधिकारी (ओआर-II)
पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय,
भारत सरकार, शास्त्री भवन,
नई दिल्ली - 110001

विषय: दिनांक 31.12.2018 का लोकसभा प्रश्न डायरी सं.7451

(संदर्भ: कम्पनिज़ ऐंगेज्ड इन रिफाइनिंग)

महोदय,

कृपया आप अपने पत्र दिनांक 19.12.2018 का अवलोकन करें जो कि लोकसभा के पटल पर 31.12.2018 को रखा जाना तय हुआ है।

लोकसभा प्रश्न डायरी संख्या 7451 के प्रश्न का उत्तर देने हेतु अनुपूरक सामग्री उच्च प्रौद्योगिकी केन्द्र द्वारा प्रेषित की जा रही है।

धन्यवाद,

भवदीय

सत्यवीर सिंह

(सत्यवीर सिंह)

संयुक्त निदेशक (एच आर)

संलग्नक: यथा उपर्युक्त

का. प्रति:

- कार्यकारी निदेशक
- निदेशक

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Centre for High Technology

(Ministry of Petroleum & Natural Gas)

NOIDA

December 20, 2018

Ref: MoP&NG e-mail dated 19.12.2018 – Lok Sabha Q No. 7451 on Companies engaged in Refining to be answered on 31.12.2018

Q (a) The names of private and public sector oil companies engaged in refining of crude oil and blending of oil products;

Ans.(a) The names of private and public sector oil companies engaged in refining of crude oil and blending of oil products are given below :

Sl. No.	Name of Oil Company & Refinery	Location
A)	Public Sector	
I.	Indian Oil Corporation Limited (IOCL)	
1.	Guwahati Refinery	Assam
2.	Barauni Refinery	Bihar
3.	Koyali Refinery	Gujarat
4.	Haldia Refinery	West Bengal
5.	Mathura Refinery	Uttar Pradesh
6.	Digboi Refinery	Assam
7.	Panipat Refinery	Haryana
8.	Bongaigaon Refinery	Assam
9.	Paradip Refinery	Odisha
II.	Bharat Petroleum Corporation Limited (BPCL)	
10.	Mumbai Refinery	Maharashtra
11.	Kochi Refinery	Kerala
III.	Hindusthan Petroleum Corporation Limited (HPCL)	
12.	Mumbai Refinery	Maharashtra
13.	Visakh Refinery	Andhra Pradesh
IV.	Chennai Petroleum Corporation Limited (CPCL)	
14.	Manali Refinery	Tamil Nadu
15.	Cauvery Basin Refinery, Narimanam	Tamil Nadu
V.	Numaligarh Refinery Limited (NRL)	
16.	Numaligarh Refinery	Assam
VI.	Oil & Natural Gas Corporation Limited (ONGC)	
17.	Tatipaka Refinery	Andhra Pradesh
VII.	Mangalore Refinery & Petrochemicals Limited (MRPL)	
18.	Mangalore Refinery	Karnataka
	PSU (Sub Total)	
B)	Private/JV Sector	
19.	HMEL Bathinda refinery	Punjab
20.	BORL Bina Refinery	Madhya Pradesh
21.	Nayara Energy Limited, Vadinar Refinery	Gujarat
22.	RIL-Jamnagar Refinery	Gujarat
23.	RIL-SEZ Refinery, Jamnagar	Gujarat

Q (b) The name of the petroleum products produced by each refinery alongwith the procedure adopted for determining the cost of various petroleum products;

Ans.(b). The products produced from a Refinery depend upon the technology employed and its configuration. All refineries produce products like LPG, Petrol, Naphtha, Kerosene/ATF, Diesel. The other products like Furnace Oil, Bitumen and Petroleum Coke are refinery specific and depend upon the type of crude processed and configuration. Refineries of HPCL and BPCL at Mumbai, CPCL-Manali and IOC's Haldia Refinery are designed to produce Lube Oil base Stocks also. Some refineries have integrated petrochemical units and produce Polymers, Linear Alkyl Benzene, Xylenes, Purified Terephthalic Acid and other Petrochemicals. The refinery-wise products are indicated in the attached table at **Annexure-1..**

All the above products are produced from Crude Oil, which is the major raw material. Therefore it is not possible to allocate cost to individual products. Also it is not necessary to determine cost of individual products as their pricing is done based on international prices and market dynamics.

Q (c) whether the Government has compared oil refining cost with that of other countries/Oil companies; and

Q (d) if so, the details thereof?

Ans.(c&d): The refinery-wise operating cost per MT of Crude processed, excluding cost of the crude, fuel, depreciation, miscellaneous income etc. is given in the **Annexure-2**. However, these are not comparable as the refining cost depends upon refinery complexity, type of crude processed and the product mix. In general, with increase in complexity, the value addition capability as well as operating cost increases. Refineries therefore optimise the operating cost while maximising net value addition.



Refinery-wise Products

Annexure-1.

(√ means product produced by the refinery and
X means product not produced by the refinery)

Refinery	LPG	MS	Naphtha	ATF	Kerosene	Diesel	Furnace Oil	Bitumen	Lube Oil	Petcoke	Others *
IOC-Guwahati	√	√	√	√	√	√	X	X	X	√	√
IOC-Barauni	√	√	√	X	√	√	√	√	X	√	√
IOC-Koyali	√	√	√	√	√	√	√	√	X	√	√
IOC-Haldia	√	√	√	√	√	√	√	√	X	√	√
IOC-Mathura	√	√	√	√	√	√	√	√	√	X	√
IOC-Digboi	√	√	x	X	√	√	√	√	X	X	√
IOC-Panipat	√	√	√	√	√	√	√	X	X	√	√
IOC-Bongaigaon	√	√	√	√	√	√	√	√	X	√	√
IOC-Paradip	√	√	√	√	√	√	X	X	X	√	√
BPC-Mumbai	√	√	√	√	√	√	√	√	√	√	√
BPC-Kochi	√	√	√	√	√	√	√	√	√	X	√
HPC-Mumbai	√	√	√	√	√	√	√	√	X	√	√
HPC-Visakh	√	√	√	√	√	√	√	√	√	X	√
CPCL-Manali	√	√	√	√	√	√	√	√	X	X	√
CPCL-Narimanam	√	X	√	X	√	√	X	X	√	√	√
NRL-Numaligarh	√	√	X	√	√	√	√	X	X	X	√
MRPL-Mangalore	√	√	√	√	√	√	√	X	X	√	√
ONGC-Tatipaka	X	X	√	X	√	√	√	√	X	√	√
RIL-Jamnagar	√	√	√	√	X	√	X	X	X	X	√
RIL-SEZ, Jamnagar	√	√	√	√	X	√	√	X	X	√	√
Nayara Energy Ltd, Vadinar	√	√	√	√	√	√	√	X	X	√	√
BORL-Bina	√	√	√	√	√	√	X	√	X	√	√
HMEL-Bathinda	√	√	√	√	√	√	X	X	X	√	√

*Others include Sulphur, Solvents, Speciality Products and Petrochemicals

Bharat

Refinery-wise Operating Cost

(Figs. in US Dollar per Barrel of Crude Processed)

Refinery	2014-15	2015-16	2016-17	2017-18
IOC-Guwahati	7.47	9.60	10.68	9.69
IOC-Barauni	2.43	1.89	2.12	2.55
IOC-Koyali	1.87	1.78	1.77	1.92
IOC-Haldia	2.07	2.11	2.27	2.37
IOC-Mathura	1.40	1.52	1.57	1.73
IOC-Digboi	17.87	19.46	21.93	19.09
IOC-Panipat	1.22	0.97	1.03	1.21
IOC-Bongaigaon	3.88	4.12	4.22	5.49
BPC-Mumbai	1.50	1.54	1.55	1.97
BPC-Kochi	1.38	1.15	1.16	2.00
HPC-Mumbai	3.04	2.60	2.65	2.68
HPC-Visakh	1.61	1.53	1.62	1.50
CPCL-Manali	1.54	1.85	2.00	7.31
NRL-Numaligarh	2.61	3.26	2.85	2.90
MRPL-Mangalore	0.88	1.15	1.05	2.04
Nayara Energy Ltd, Vadinar	0.66	0.73	0.70	2.09
BORL-Bina	3.64	3.55	2.29	2.19
HMEL-Bathinda	1.67	1.02	0.85	1.03

Note: Operating cost (\$/bbl) excluding cost of crude, fuel, depreciation, miscellaneous income and other costs



LOK SABHA

D.No 7451

Ministry to which the day has been allotted : PETROLEUM AND NATURAL GAS
Sitting on the : 31/12/2018

Companies Engaged in Refining

Will the Minister of PETROLEUM AND NATURAL GAS

- (a) the names of private and public sector oil companies engaged in refining of crude oil and blending of oil products;
(b) the names of petroleum products produced by each refinery along with the procedure adopted for determining the cost of various petroleum products;
(c) whether the Government has compared oil refining cost with that of other countries/oil companies; and
(d) if so, the details thereof?

<<http://gandhi.gov.in>>

Parliament Question
Most Immediate

Government of India
Refinery Branch
Ministry of petroleum and Natural Gas

Please furnish inputs on the above mentioned parliament question along with note for supplementary by today.

Shantanu Bandel
19/12/2018
SO(OR-II)

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ED,CHT
DG,PPAC
Chairman IOCL
CMD HPCL/BPCL
MD NRL/MRPL/CPCL