

**LOK SABHA
UNSTARRED QUESTION NO. 3143
TO BE ANSWERED ON 16TH DECEMBER, 2021**

HYDRO CARBON VISION FOR NORTH EAST

3143. SHRI ADHIR RANJAN CHOWDHURY:

पेट्रोलियम व प्राकृतिक गैस मंत्री

Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state:

- (a) the status of implementation of the Hydrocarbon Vision for North East 2030 as of 2021, including the details of investments made State-wise as on date;
- (b) the details of refineries in the North East region including respective refining capacities and production rates during last five years, State-wise;
- (c) the data on the quantum of oil refined and produced by said refineries including by-products and profit/loss incurred by them during the said period, year-wise;
- (d) whether there has been any initiative towards transferring ONGC's assets to OIL;
- (e) if so, the details thereof including the current status of the same; and
- (f) the details of the current status of implementation of the Guwahati-Barauni pipeline including estimated date of completion?

ANSWER

पेट्रोलियम और प्राकृतिक गैस मंत्रालय में राज्य मंत्री
(श्री रामेश्वर तेली)

**MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS
(SHRI RAMESWAR TELI)**

(a):

The Hydrocarbon Vision 2030 for North East was released by the Government on 9th February, 2016 in Guwahati, Assam. In the said Vision, the key action points identified for improving the infrastructure in the NER comprise of sectors viz., Upstream, Midstream-Downstream & Gas pipeline. The following is the status of implementation for each sector:

Upstream:

Presently Oil & Gas E&P activities in North-East are concentrated in the States of Assam, Arunachal Pradesh, Tripura and Mizoram. Assam, Arunachal Pradesh, and Tripura contribute 13% (approx.) of Oil production and 16% (approx.) of Gas production in the country as of 2021. Details of Oil & Gas Production & investment are provided at **Annexure-I.**

Midstream:

The details of the status of implementation of the Hydrocarbon Vision for North East 2030 as of 2021, including details of investments made, project-wise in the midstream sector are provided at **Annexure-II.**

Downstream

The details of the status of implementation of the Hydrocarbon Vision for North East 2030 as of 2021, including details of investments made, project-wise in the downstream sector are provided at **Annexure-III.**

Gas pipeline

The North East Gas Grid (NEGG) project was conceived in line with the Hydrocarbon Vision to supply Natural gas covering all the North Eastern states at an estimated cost of INR 9,265 crores. The 1656 Km long natural gas pipeline grid having capacity of 4.75 MMSCMD (million metric standard cubic meter per day) traverses through challenging terrains of the North East India and would connect Guwahati to capital / major cities of the region like Itanagar, Dimapur, Kohima, Imphal, Aizawl, Agartala, Shillong, Silchar, Gangtok and Numaligarh. NEGG project is scheduled to be completed by March 2024. The state wise planned and actual investments made in the project are provided at **Annexure-IV.**

(b) & (c):

The details of refineries in the Northeast region i.e. refining capacities, crude oil processing, total products and profit/loss is provided at **Annexure-V.**

(d) & (e):

At present, there is no proposal to transfer ONGC's assets to OIL.

(f):

Total length of the Barauni- Guwahati Pipeline (BGPL) is 729 Kms which comprises of 540 Kms of Bihar & Assam Section and 189 Kms of West Bengal Section. As on date total of 413 KM pipeline has been laid. The anticipated completion date for Bihar & Assam Sections is January 2022 while in case of West Bengal, it will be completed within 12 months from the availability of hindrance free RoU by the State Government of West Bengal.

**Annexure-I to the Reply to Lok Sabha Unstarred
Question No.3143 for 16.12.2021**

STATE	Cumulative Production from 2015 - 2021		Cumulative Investment details from 2015 - 2021 (Rs in Crores)			
	Oil (MMT)	Gas (BCM)	PSC	DSF	RSC	NSP
Arunachal Pradesh	0.32	0.23	48.75	0.00	1.42	45.46
Assam	25.02	18.80	288.75	1.073	65.58	150.05
Manipur	0.00	0.00	2.25	0.00	0.00	0.85
Mizoram	0.00	0.00	612.75	0.00	0.00	30.74
Nagaland	0.00	0.00	0.00	0.00	31.62	0.00
Tripura	0.017	8.85	412.50	1.973	36.14	5.76
Assam-AR	0.00	0.00	0.00	0.00	179.27	0.00
Assam-MZ	0.00	0.00	0.00	0.00	0.29	0.00
Assam-NL	0.00	0.00	0.00	0.00	57.47	0.00
Total NER	25.36	27.88	1363.50	3.05(approx)	371.78	232.86

***PSC: Production Sharing Contracts, DSF: Discovered Small fields, RSC: Revenue Sharing Contracts & NSP: National Seismic Program.*

Oil India Limited (OIL):

OIL has carried out following E&P activities in the north-eastern region during last five-year period:

Activities	Unit	2016-17	2017-18	2018-19	2019-20	2020-21	Total
2D Seismic Survey	LKM	197	139	21	266	841	1464
3D Seismic Survey	SKM	141	413	242	122	145	1063
Exploratory wells drilled	Nos.	19	11	10	6	12	58
Development wells drilled	Nos.	33	26	21	22	18	120
Oil Production	MMT	3.258	3.375	3.290	3.099	2.928	15.950
Gas production	BCM	2.705	2.670	2.494	2.417	2.292	12.578

The State wise investment in Hydrocarbon sector in North East Region made by OIL in last 5 years from FY 2016-17 to 2020-21 is given below:

States	Investments (Rs. Crore)
Assam & Arunachal Pradesh	13,586.14
Mizoram	315.75
Nagaland	39.03
Tripura	10.09
Grand Total	13,951.01

In addition, Rs. 8,677.27 crore was invested by OIL in strategic acquisition of additional 54.16% equity shares of Numaligarh Refinery Limited (NRL) in FY 2020-21.

Oil & Natural Gas Corporation Ltd (ONGC):

The State-wise investment made by ONGC in North-East Region is as under:

(Rs. In crore)

State / Year	Assam	Tripura	Total
2014-15	2,226.97	265.32	2,492.29
2015-16	2,049.47	175.03	2,224.50
2016-17	2,075.37	344.50	2419.87
2017-18	2,445.75	407.48	2,853.23
2018-19	2,713.09	404.95	3,118.04
2019-20	2,910.54	392.17	3,302.71
2020-21	2,535.67	295.13	2,830.80

The details of ONGC's crude oil and natural gas production along with Oil + Oil Equivalent of Gas (O+OEG) in the State of Assam and Tripura during the years 2016-17 to 2020-21:-

(oil in MMT, Gas in BCM & O+OEG in MMTOE)

Year	Assam#		Tripura		Total North East		Total North East
	Oil	Gas	Oil	Gas	Oil	Gas	O+OEG
2016-2017	0.950	0.435	0.003	1.430	0.953	1.865	2.818
2017-2018	0.971	0.508	0.003	1.441	0.974	1.949	2.923
2018-2019	0.990	0.482	0.003	1.554	0.993	2.036	3.029
2019-2020	0.986	0.461	0.002	1.473	0.988	1.934	2.922
2020-2021	0.963	0.387	0.002	1.634	0.965	2.021	2.986

Production from Assam Asset, Jorhat Asset and Assam Arakan Fold Belt Exploration (AAFBE) Asset, Silchar

**Annexure-II to the Reply to Lok Sabha Unstarred
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Pipeline

S No	Project/Item	Physical Progress (in %)	Expenditure/ Funds released (Rs in Cr)
1	Barauni-Bongaigaon pipeline by OIL	94.70%	Rs 485.05 Cr
2	Paradip-Siliguri- Numaligarh Imported crude oil pipeline (1640 Km)	16.04%	Rs. 838 Cr
3	Numaligarh-Siliguri Product Pipeline (capacity enhancement) by OIL	2.00%	Rs 2.0 Crores
4	Siliguri-Parbatipur (Bangladesh) product pipeline Capacity: 1 MMTPA	81.30%	Rs. 231 crore

POL Products

S No	Project/Item	Physical Progress (in %)	Expenditure/ Funds released (Rs in Cr)
1	Tankages for POL products at Malom, Imphal, Manipur (Cap: 21.9 TKL)	100	Rs 127 Cr
2	Conversion of existing MG rail Siding to BG at Dharmanagar (Tripura) tankage 5.8 TKL and Ramnagar (Silchar) Depotstankage 18.7 TKL – Discontinuation of MG	100	Rs 54 Cr
3	ATF handling facilities at Lumding Assam, Terminal ATF availability to AFS – supply reliability & strategic requirement	100	Rs 8 Cr
4	Digboi Marketing Terminal (Golai) Digboi (Tinsukia Resitement) with Rail handling facilities (HSD 13.1 TKL, MS-	100	Rs 273 Cr

S No	Project/Item	Physical Progress (in %)	Expenditure/ Funds released (Rs in Cr)
	8.7 TKL, SKO/ATF- 6.6 TKL, FO-6.6 TKL)		
5	Tankages for POL products at Doimukh, Arunachal Pradesh (with Rail handling facilities) Tankage enhancement from 6.7 TKL to 21.5 TKL. Conversion from road fed to rail fed improving product availability & reliability	100	Rs 248 Cr
6	Tankages (30 TKL) for POL products at Moinarband, Silchar (with Rail handling facilities)	98.85%	Rs 444.3 Cr

Liquefied Petroleum Gas (LPG), Bottling Plant (BP) & Storage

S No	Project/Item	Physical Progress (in %)	Expenditure/ Funds released (Rs in Cr)
1	2 x 150 MT additional storage of LPG at BP Dimapur (Nagaland)	100	Rs 12 Cr
2	Augmentation of Gopanari BP from 30 TMTPA to 60 TMTPA	100	Rs 9.0 Cr
3	Augmentation of Silchar BP from 60 TMTPA to 120 TMTPA by installation of additional 1x24 pt. Carousel.	100	Rs 23 Cr
4	2x600 MT Additional LPG Storage Project at North Guwahati	100	Rs 28 Cr
5	North Guwahati LPG BP capacity augmentation(120 to 180 TMTPA)	100	Rs 17 Cr
6	New BP of 120 TMTPA at Bodhjunnagar, Agartala, Tripura	100	Rs 159 Cr

**Annexure-III to the Reply to Lok Sabha Unstarred
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S No	Project/Item	Physical Progress (in %)	Expenditure/ Funds released (Rs in Cr)
1	Expansion of NRL's refining capacity	7.56%	Rs. 681 Cr
2	Expansion of refining capacity 1 to 1.2 MMTPA- Guwahati	5.01%	Rs 24 Cr
3	New Catalytic Reforming Unit at Guwahati Refinery capacity -90 TMTPA.		
4	Enhancement of LPG production in refineries using INDMAX technology	100%	Rs. 2167 Cr
5	Petcoke fired Boiler at Guwahati Refinery (Capacity 80 MT/h)	83.60%	Rs 122 Cr
6	Fuel quality upgradation Project at Guwahati Refinery	98%	Rs 557 Cr
7	Fuel quality upgradation Project at Digboi refinery	100%	Rs 54 Cr
8	Fuel quality upgradation Project at Bongaigaon refinery	100%	Rs 1222 Cr
9	Guwahati Refinery: Indadept-G unit (35 TMTPA)	100%	Rs 164 Cr
10	Digboi Refinery: Crumb Rubber Modified Bitumen (CRMB) / Hybrid Bitumen (25 TMTPA)	100%	Rs 10.5 Cr
11	Bio-ethanol through Bio refinery of NRL	52.50%	Rs. 923 Cr

**Annexure-IV to the Reply to Lok Sabha Unstarred
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State	Planned Investment (in Rs. Crore)	Investment made till 31.10.21 (in Rs. Crore)
Assam	5142	566
Meghalaya	959	44
Arunachal Pradesh	66	3.34
Tripura	1198	62.79
Mizoram	511	27.69
Nagaland	426	22.25
Manipur	404	22.25
Sikkim	78	7.42
West Bengal	481	23.24
Total	9265	779

**Annexure-V to the Reply to Lok Sabha Unstarred
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Refining capacity and Oil Refined (TMTPA):

Refinery	Refining Capacity	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
IOC Guwahati	1000	1006	904	864	1024	863	892	849
IOC Digboi	650	591	562	533	666	676	664	605
IOC Bongaigaon	2350*	2403	2442	2486	2402	2513	2045	2450
NRL Numaligarh	3000	2777	2520	2683	2809	2900	2383	2707

*2700 TMTPA w.e.f. Oct'2020 after Indmax commissioning.

Total Product (TMTPA):

Refinery	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
IOC Guwahati	884	787	760	912	784	801	759
IOC Digboi	577	547	519	648	659	648	591
IOC Bongaigaon	2186	2233	2278	2190	2303	1866	2172
NRL Numaligarh	2608	2361	2488	2617	2729	2131	2539

Profit/Loss: Profit After Tax (Rs. Crores):

Refinery	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
IOC Guwahati	-58	285	483	479	86	15	627
IOC Digboi	-121	-21	101	173	89	26	290
IOC Bongaigaon	-878	597	1821	1430	1164	184	2718
NRL Numaligarh	718	1209	2101	2045	1968	1381	3036

