

LOK SABHA
UNSTARRED QUESTION NO.2000
TO BE ANSWERED ON 28th November, 2016

OIL AND GAS FROM KUTCH OFFSHORE

2000. SHRI JOSE K. MANI:
SHRI PARVESH SAHIB SINGH:
SHRI JITENDRA CHAUDHURY:
DR. K. GOPAL:

पेट्रोलियम और प्राकृतिक गैस मंत्री

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

- (a) the details of private/public sector companies including Oil and Natural Gas Corporation Limited (ONGC) and Oil India Limited (OIL) involved in exploration and production of oil and gas along with oil and gas explored and produced by them including Kutch Offshore basin during last three years and expenditure incurred and investment made by them on exploration of such oil/gas wells, States/UT/project/company-wise;
- (b) the State-wise quantum of reserves of crude oil and natural gas and petroleum products explored in the country and percentage of national requirement met by these reserve, States/UT/project/company and product-wise;
- (c) the details of sedimentary basins including cauvery basin which are under production so far and the reasons for delay to start these projects in time, oil fields/ basin-wise;
- (d) whether the ONGC and two other companies has explored huge quantity of natural gas in Tripura and if so, the details thereof, North Eastern Region-wise along with the status of proposed fertilizer plant to be set up through joint venture there; and
- (e) the details of 2D/3D seismic survey conducted and investment made by private sector and upstream companies to discover new oil and gas discoveries including deep water/ultra deep water such as east coast deepwater block and number of hydrocarbon blocks awarded along with quantum of crude oil/gas reserve find and produced from these blocks, State/UT/company/oil field-wise including NER ?

ANSWER

पेट्रोलियम और प्राकृतिक गैस मंत्रालय में राज्य मंत्री (श्री धर्मन्द्र प्रधान) (स्वतन्त्र प्रभार)

**MINISTER OF STATE (I/C) IN THE MINISTRY OF PETROLEUM & NATURAL GAS
(SHRI DHARMENDRA PRADHAN)**

(a) & b): The State-wise details of reserve accretion, balance recoverable reserve position as on 1.4.2016, production of oil & gas and exploration expenditure made by Oil & Natural Gas Corporation Limited (ONGC), Oil India Limited (OIL) and Private/Joint Venture companies in last three years from 2013-14 to 2015-16 is annexed at Annexure-I, Annexure-II and Annexure-III respectively. The current demand of petroleum product is more than the domestic crude oil and natural gas production. The domestic production of oil met 18.2% of the country's requirement and gas production met 54.6% of the country in year.

(c): Crude oil and natural gas production in the country is from 7 sedimentary basins of the country, namely, Rajasthan, Assam-Arakan Fold Belt, Assam Shelf Basin, Cambay, Cauvery, Krishna-Godavari and Mumbai and deepwater areas. In order to enhance oil and gas production in the country and resolve issues Government has taken several initiatives.

(d): ONGC has established about 49.58 billion cubic metre of natural gas in the State of Tripura. For the proposed fertilizer plant, a non-binding MoU was signed on 09.04.2013 between ONGC, Chambal Fertilizers & Chemicals Limited (CFCL) and Government of Tripura. The commerciality of the project is under assessment by ONGC.

(e): The State-wise and company-wise details of 2D seismic, 3D seismic and exploratory wells drilled alongwith hydrocarbon discoveries made by Oil & Natural Gas Corporation Limited (ONGC), Oil India Limited (OIL) and Private/Joint Venture companies are given in Annexure-IV, Annexure-V and Annexure - VI respectively.

Annexure-I

To be referred in reply to Lok Sabha Unstarred Question No.2000 dated 28.11.2016 regarding "Oil & Gas from Kutch offshore"

ONGC: Ultimate reserve Accretion, Reserve position and production of -Crude Oil and Natural Gas during last three years (2013-16) in Nomination blocks and expenditure thereon

Sl. No.	State	Basin	Fields	Ultimate Reserve Accretion O+OEG in 2013-16 (MMTOE)	Reserve Position as on 1.4.2016 (MMTOE)	Production oil and gas 2015-16 (MMTOE)	Exploration Expenditure in 2013-16 (Rscore)
1	Andhra Pradesh	Krishna Godavari	K.G. Onland	2.566	48.63	0.914	1,590.58
2	Assam	Upper Assam	Upper Assam Onland	-1.614	115.12	1.367	1,743.48
3	Gujarat	Cambay	Cambay Onland	15.822	168.87	5.708	1,875.92
4	Himachal Pradesh, MP, Uttarakhand & West Bengal			-	-		309.67
5	Nagaland	A.A.F.B.	AAFB Onland		2.47		
6	Rajasthan	Rajasthan	Rajasthan Onland	0.027	2.29	0.005	75.04
7	Tamil Nadu	Cauvery	Cauvery Onland	13.618	36.64	1.258	1,127.20
8	Tripura	A.A.F.B.	Tripura Onland	-1.275	26.52	1.335	480.37
Total Onland				29.144	400.54	10.587	7202.26
9	West Coast	Mumbai	Mumbai Offshore	94.804	505.35	32.719	7,396.43
		Kutch	Kutch Offshore	0.283			-
10	East Coast	K.G.	KG Offshore	5.461	56.78	0.239	6,680.53
Total Offshore				100.548	562.13	32.958	14076.96
Total ONGC				129.692	962.67	43.545	21279.22

Note: Negative figures in ultimate reserves accretion is owing to adjustment of reserves with respect to previous years on re-assessment of reserves.

MMTOE: Million Metric Tonne Oil Equivalent; O+OEG : Oil + Oil Equivalent of Gas

Annexure-II

To be referred in reply to Lok Sabha Unstarred Question No.2000 dated 28.11.2016 regarding "Oil & Gas from Kutch offshore"

OIL: Ultimate reserve Accretion, Reserve position and production of - Crude Oil and Natural Gas during last three years (2013-16) in Nomination blocks and expenditure thereon

Sl. No.	State	Basin	Fields	Ultimate Reserve Accretion O+OEG in 2013-16 (MMTOE)	Reserve Position as on 1.4.2016) (MMTOE)	Production oil and gas 2015-16 (MMTOE)	Exploration Expenditure in 2013-16 (Rscore)
1	Arunachal Pradesh	Upper Assam	Upper Assam	-0.35	1.524	0.076	180.51
2	Assam	Upper Assam	Upper Assam Onland	22.707	180.586	17.608	6480.38
4	Mizoram, Maharashtra, Tamil Nadu & Andhra Pradesh			0	0	0	902.24
6	Rajasthan	Rajasthan	Rajasthan Onland	0.012	1.909	0.605	299.04
Total OIL				22.369	184.019	18.289	7862.17

Note: Negative figures in ultimate reserves accretion is owing to adjustment of reserves with respect to previous years on re-assessment of reserves.

MMTOE: Million Metric Tonne Oil Equivalent; O+OEG : Oil +Oil Equivalent of Gas

Annexure-III

To be referred in reply to Lok Sabha Unstarred Question No.2000 dated 28.11.2016 regarding “Oil & Gas from Kutch offshore”						
Pvt/JV: Ultimate reserve Accretion, Reserve position and production of - Crude Oil and Natural Gas during last three years (2013-16) in and expenditure thereon under PSC Regime						
Onshore/Offshore	Location Area	Basin	Ultimate Reserve Accretion O+OEG in 2013-16 (MMTOE)	Reserve Position (as on 1.4.2016) (MMTOE)	Production oil and gas 2015-16 (MMTOE)	Exploration Expenditure in 2013-16 (MM\$)
Offshore	Eastern Offshore	Andaman-Nicobar, Bengal, Cauvery, Krishna Godavari, Mahanadi	68.64	431.07	5.59	1957.16
	Western Offshore	Cambay, KerelaKonkan, Kutch, Mumbai, Saurashtra	2.87	35.74	3.56	589.72
Offshore Total			71.50	466.81	9.15	2546.88
Onland	Andhra Pradesh	Krishna Godavari, Pranhita Godavari	4.30	4.30		302.09
	Arunanchal Pradesh	Assam-Arakan Shelf	-2.21	0.86	0.07	6.35
	Assam	Assam-Arakan Shelf	3.80	5.80		26.38
	Bihar	Ganga				0.42
	Chattisgarh	Satpura-South Rewa-Damodar				0.00
	Gujarat	Cambay, Kutch	0.50	15.28	0.24	148.67
	Himachal Pradesh	Himalayan-Foreland				0.00
	Madhya Pradesh	Satpura-South Rewa-Damodar, Vindhyan	-0.01			8.25

	Location Area	Basin	Ultimate Reserve Accretion O+OEG in 2013-16 (MMTOE)	Reserve Position (as on 1.4.2016) (MMTOE)	Production oil and gas 2015-16 (MMTOE)	Exploration Expenditure in 2013-16 (MM\$)
Onland	Maharashtra	Deccan Syncline				0.00
	Manipur	Assam-Arakan Shelf				0.52
	Mizoram	Assam-Arakan Fold Belt, Assam-Arakan Shelf				61.80
	Nagaland	Assam-Arakan Shelf				0.15
	Odisha	Mahanadi				0.00
	Rajasthan	Rajasthan, Vindhyan	23.54	60.14	9.73	796.14
	Tamil Nadu	Cauvery	4.12	4.11	0.01	45.88
	Tripura	Assam-Arakan Shelf	1.83	1.83		64.53
	Uttar Pradesh	Ganga				5.52
	West Bengal	Bengal, Ganga	27.30			48.87
Onland Total			63.16	92.32	10.05	1515.58
Pvt/JV Total			134.66	559.14	19.20	4062.46

MMTOE: Million Metric Tonne Oil Equivalent; O+OEG : Oil +Oil Equivalent of Gas

Annexure –IV

To be referred in reply to Lok Sabha Un-Starred Question No.2000 dated 28.11.2016 regarding “Oil and Gas from Kutch Offshore”

ONGC: Survey Conducted and Hydrocarbon discoveries State-wise

State	Survey Conducted as on 1.4.2016			Oil and gas Discovered as on 01.04.2016	
	2D seismic LKM	3D seismic Sq. km.	Exploratory wells	No of oil discoveries made	No of gas discoveries made
Andhra Pradesh	39165.6	8064.14	456	23	52
Assam	31326.6	4219.91	735	46	9
Bihar	6566		6		
Chhattisgarh	202				
Gujarat	104712	10261.5	2582	121	14
Himachal Pradesh	3784.53		15		
Haryana	1038				
Jammu & Kashmir	2563		4		
Madhya Pradesh	10021.1	469.61	17		2
Meghalaya	204.55		3		
Mizoram	35		2		
Nagaland	602.18	5.75	25	3	
Odisha	313				
Punjab	4078		4		
Rajasthan	20570.6	1210.01	78		8
Tamil Nadu	41030.7	8269.27	508	32	10
Tripura	6201.78	883.63	159		17
Uttar Pradesh	26798		7		

Uttarakhand	1522				
West Bengal	29226.5	595.96	33		
Eastern Offshore	117515	7292.09	259	19	19
Western Offshore	434940	72186.9	932	85	44
Grand Total	882416	113459	5825	329	175

Annexure-V

To be referred in reply to Lok Sabha Un-Starred Question No.2000 dated 28.11.2016 regarding "Oil and Gas from Kutch Offshore"

OIL: Survey Conducted and Hydrocarbon discoveries State-wise

State	Company	Survey Conducted as on 1.4.2016			Oil and Gas Discovered	
		2D seismic LKM	3D seismic Sq. km.	Exploratory wells	No of oil discoveries made	No of gas discoveries made
Arunachal Pradesh	OIL			60	3	
Assam	OIL	25638.64	7034.55	1364	95	25
Rajasthan	OIL	11923	410	63	2	3
Total		37561.64	7444.55	1487	100	28

Annexure-VI

To be referred in reply to Lok Sabha Un-Starred Question No.2000 dated 28.11.2016 regarding "Oil and Gas from Kutch Offshore"

Pvt/JV: Survey Conducted and Hydrocarbon discoveries State-wise

State	Company	Survey Conducted as on 30.06.2016			Oil and Gas Discovered as on 01.04.2016	
		2D seismic LKM	3D seismic Sq. km.	Exploratory wells	No of oil discoveries made	No of gas discoveries made
Andhra Pradesh	Pvt/JV	1466	1497.37	14	2	1
Arunachal Pradesh	Pvt/JV	52	114	2	0	0
Assam	Pvt/JV	3311.76	1629	15	0	1
Bihar	Pvt/JV	2423.15	947.17	3	0	0
Chhattisgarh	Pvt/JV	0	0	0	0	0
Gujarat	Pvt/JV	7449.258	7288.87	233	57	6
Himachal Pradesh	Pvt/JV	810	0	1	0	0
Madhya Pradesh	Pvt/JV	2339	304	2	0	0
Maharashtra	Pvt/JV	476	0	0	0	0
Manipur	Pvt/JV	210	0	0	0	0
Mizoram	Pvt/JV	1526.05	613	3	0	1
Odisha	Pvt/JV	470	0	0	0	0
Rajasthan	Pvt/JV	17214	16808.41	309	36	7
Tamil Nadu	Pvt/JV	1709.7	2763.33	21	3	2
Tripura	Pvt/JV	1583.46	13.59	12	0	5
Uttar Pradesh	Pvt/JV	2859.6	211	3	0	0
West Bengal	Pvt/JV	4375.7	3590.9143	4	0	0
Eastern Offshore	Pvt/JV	226000.88	193620.35	251	15	71
Western Offshore	Pvt/JV	109285.53	62190.434	118	6	19
Grand Total		383562.08	291591.44	991	119	113