

LOK SABHA
UNSTARRED QUESTION NO.1372
TO BE ANSWERED ON 25th July, 2016

OIL EXPLORATION AND PRODUCTION

1372. SHRI P.C. MOHAN:
DR. VIRENDRA KUMAR:
PROF. K.V. THOMAS:
SHRI ASHWINI KUMAR CHOUBEY:
SHRI ANIL SHIROLE:

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 during last three years and expenditure incurred on exploration of such oil/gas wells, States/UT/company/project-wise;
- (b) the details of survey conducted/proposed to be conducted and oil and gas fields discovered including deep water/ultra deep water, high pressure/high temperature area by public/private sector and State owned oil companies and number of hydrocarbon blocks awarded along with quantum of crude oil/gas produced from these blocks, State/UT/company/oil field- wise;
- (c) the details of crude oil and gas reserves available in the country along with the percentage of crude oil and gas produced by upstream companies and their share in production of oil/gas and achievement made by the ONGC/OIL during the said period, company/oil field-wise;
- (d) the efforts made/action plan prepared by the Government to bring transparency in the functioning of upstream companies and explore the adequate resources of fuel to meet the domestic requirement of oil and gas in the coming years; and
- (e) whether the Government proposes to revise gas pricing formula and if so, the details thereof?

ANSWER

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

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

(a) to (c): During last three years, crude oil & natural gas production, reserves accretion and exploration and production expenditure made by Oil & Natural Gas Corporation (ONGC) Limited; Oil India Limited (OIL) and Private/JV companies are at **Annexure-I, II and III** respectively.
The details of survey conducted/proposed to be conducted by ONGC, OIL and Private/JV companies are at **Annexure-IV, V and VI** respectively.
During 2015-16, crude oil production by ONGC is about 22.368 Million Metric Tonne(MMT), which is 60.5% of the total crude oil production in the country. The share of ONGC in natural gas production is about 65.6% of the domestic natural gas production of 32.249 Billion Cubic Meter (BCM). OIL has produced 3.225 MMT of crude OIL and 2.836 BCM of Natural Gas which constitutes 8.7% and 7.7% of total crude oil and natural gas production of the country respectively.

(d): To enhance domestic oil and gas production Government of India has approved a new policy “Hydrocarbon Exploration Licensing Policy (HELP)”. Under this policy a transparent and easy to administer revenue sharing model has been introduced for awarding the blocks.

(e): Presently, there is no proposal under consideration of Government for revision of Gas pricing formula for gas produced from NELP, Pre-NELP & nomination regime.

Crude oil and natural gas production as well as reserves accreted under ONGC Nomination in last three years (2013-16).

State/Source	Crude oil production (2013-16) (MMT)	Natural gas production (2013-16) (BCM)	Ultimate oil reserves accretion (2013-16) (MMT)	Ultimate gas reserves accretion (2013-16) (BCM)	Exploration Expenditure (2013-16) (Rs Crore)	Production Expenditure (2013-16) (Rs Crore)
Andhra Pradesh	0.85	2.33	0.85	1.71	1,585.84	2,030.60
Arunachal Pradesh	0.00	0.00	0.00	0.00	-	
Assam	3.28	1.31	-1.59	-0.02	1,743.75	7,590.25
Bihar						
Chattisgarh						
Gujarat	13.74	4.37	15.01	0.80	1,876.00	25,815.99
Himachal Pradesh					25.04	
Madhya Pradesh					280.50	
Maharashtra						1,664.34
Manipur						
Mizoram						
Nagaland						
Odisha						
Rajasthan	0.00	0.03	0.00	0.03	75.04	89.86
Tamil Nadu	0.72	3.51	2.25	11.38	1,127.20	2,357.54
Tripura	0.01	3.29	0.01	-1.27	480.41	819.94
Uttar Pradesh						
Uttanchal					3.64	
West Bengal					0.49	215.89
CBM-West Bengal						
CBM- Madhya Pradesh						
CBM- Jharkhand						
Eastern Offshore	0.07	0.44	1.16	4.30	6,685.17	389.45
Western Offshore	48.21	51.21	38.52	56.57	7,396.43	51,085.28
Total	66.88	66.48	56.21	73.49	21,279.51	92,059.14

* Negative ultimate reserves accretion means estimated ultimate reserves are less than last year

Crude oil and natural gas production as well as reserves accreted under OIL Nomination in last three years (2013-16).

State/Source	Crude oil production (2013-16) (MMT)	Natural gas production (2013-16) (BCM)	Ultimate oil reserves accretion (2013-16) (MMT)	Ultimate gas reserves accretion (2013-16) (BCM)	Exploration Expenditure (2013-16) (Rs Crore)	Production Expenditure (2013-16) (Rs Crore)
Andhra Pradesh					346.56	0
Arunachal Pradesh	0.03	0.04	-0.49	0.15	174.81	185.64
Assam	10.07	7.54	6.57	10.11	2077.6	3850.64
Bihar						
Chattisgarh						
Gujarat					49.28	0
Himachal Pradesh						
Madhya Pradesh						
Maharashtra						
Manipur						
Mizoram					360.96	0
Nagaland						
Odisha						
Rajasthan		0.61	0.01	0.02	149.65	141.55
Tamil Nadu					35.71	0
Tripura						
Uttar Pradesh						
Uttranchal						
West Bengal						
CBM-West Bengal						
CBM- Madhya Pradesh						
CBM- Jharkhand						
Eastern Offshore	0.00	0.00	0.00	0.00	199.78	0
Western Offshore					37.53	0
Total	10.10	8.19	6.08	10.29	3431.88	4177.83

* Negative ultimate reserves accretion means estimated ultimate reserves are less than last year

Crude oil and natural gas production as well as reserves accreted under PSC regime in last three years (2013-16).

State/Source	Crude oil production (2013-16) (MMT)	Natural gas production (2013-16) (BCM)	Ultimate oil reserves accretion (2013-15) (MMT)	Ultimate gas reserves accretion (2013-15) (BCM)	Exploration Expenditure (2013-15) (Rs crore)	Development Expenditure (2013-15) (Rs crore)
Andhra Pradesh			4.13	0.17	1649.19	
Arunachal Pradesh	0.21	0.06	-1.05	-1.16	38.47	80.40
Assam				3.82	146.27	4.39
Bihar					2.56	
Chattisgarh						
Gujarat	0.43	0.31	0.62	-2.01	673.10	263.34
Himachal Pradesh						
Madhya Pradesh					3.19	
Maharashtra						
Manipur					1.44	
Mizoram					205.88	
Nagaland					0.93	
Odisha						
Rajasthan	26.63	2.87	-4.84	25.34	4489.88	6716.41
Tamil Nadu	0.01	0.00	0.34		217.90	
Tripura				1.42	391.84	
Uttar Pradesh					33.39	
Uttranchal						
West Bengal					231.63	
CBM-West Bengal		0.41		1.86	875.31	664.64
CBM- Madhya Pradesh					106.12	588.26
CBM- Jharkhand		0.01		1.46	100.55	57.30
Eastern Offshore	3.92	14.83	18.96	57.79	10971.46	5629.90
Western Offshore	4.02	7.79	1.72	1.77	2689.97	2712.91
Total	35.22	26.27	19.89	90.46	22829.08	16717.55

* Negative ultimate reserves accretion means estimated ultimate reserves are less than last year

State-wise Exploretory data, Oil & Gas Discoveries under ONGC Nomination since inception

State	Company	Survey Conducted as on 1.4.2016			Survey work proposed in next three years (2016-19)*			Oil and gas Discovered**			Production
		2D seismic LKM	3D seismic Sq. km.	Exploratory wells	2D seismic LKM	3D seismic Sq. km.	Exploratory wells	No of oil discoveries made	No of gas discoveries made	Ultimate oil and gas reserves (MMTOE)	Crude oil and natural production in 2015-16 (MMTOE)
Andhra Pradesh Total	ONGC Nomination	39165.64	8064.14	456		1210	9	23	52	90.481	0.91
Arunanchal Pradesh Total	ONGC Nomination										
Assam Total	ONGC Nomination	31326.57	4219.91	735	30	320	16	46	9	212.412	1.37
Bihar Total	ONGC Nomination	6566	0	6				0			
Chattisgarh Total	ONGC Nomination	202	0	0				0			
Gujarat Total	ONGC Nomination	104712.34	10261.45	2582		825	19	121	14	517.288	5.71
Himachal Pradesh Total	ONGC Nomination	3784.53	0	15	100		1	0			
Haryana Total	ONGC Nomination	1038	0	0				0			
Jammu & Kashmir Total	ONGC Nomination	2563	0	4				0			
Jharkhand Total	ONGC Nomination	0	0	0				0			
Madhya Pradesh Total	ONGC Nomination	10021.12	469.61	17		160	4		2		
Maharashtra Total	ONGC Nomination										
Meghalaya Total	ONGC Nomination	204.55	0	3							
Manipur Total	ONGC Nomination										
Mizoram Total	ONGC Nomination	35	0	2							
Nagaland Total	ONGC Nomination	602.18	5.75	25				3	0	4.001	
Odisha Total	ONGC Nomination	313	0	0				0			
Punjab Total	ONGC Nomination	4078	0	4		100	2	0			
Rajasthan Total	ONGC Nomination	20570.55	1210.01	78					8	2.637	0.01
Tamil Nadu Total	ONGC Nomination	41030.7	8269.27	508			12	32	10	88.543	1.26
Tripura Total	ONGC Nomination	6201.78	883.63	159	85	145	6		17	40.886	1.34

Annexure-V

State-wise Exploratory data, Oil & Gas Discoveries under OIL Nomination since inception

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Western Offshore Total	OIL Nomination										
Grand Total	OIL	37561.64	7444.55	1487	200	200	44	100	28	416.8735827	6.06
*As far as Survey work proposed for next three years (2016-19) is concerned, exercise has been initiated by ONGC to firm up plan of survey work for the period from 2017-2022 (XIII Five Year Plan period). Proposed surveys work for 2016-17 is given in the above format											
** Includes Prospect (Field) + Pool Discoveries											
* Ultimate Oil & Gas Reserves data is upto FY 2014-15. Annual Reserves review for FY 2015-16 in progress.											

State-wise Exploretory data, Oil & Gas Discoveries in Counetry since inception

State	Company	Survey Conducted as on 1.4.2016			Survey work proposed in next three years (2016-19)*			Oil and gas Discovered** as on 1.4.2016			Production
		2D seismic LKM	3D seismic Sq. km.	Exploratory wells	2D seismic LKM	3D seismic Sq. km.	Exploratory wells	No of oil discoveries made	No of gas discoveries made	Ultimate oil and gas reserves (MMTOE)	Crude oil and natural production in 2015-16 (MMTOE)
Andhra Pradesh Total	PSC/ONGC/OIL	40631.64	9561.51	470.00	0.00	1210.00	13.00	25.00	53.00	94.78	0.91
Arunanchal Pradesh Total	PSC/ONGC/OIL	52.00	114.00	62.00	0.00	0.00	1.00	3.00	0.00	5.42	0.09
Assam Total	PSC/ONGC/OIL	60172.47	12883.46	2114.00	230.00	520.00	63.00	141.00	35.00	629.47	7.21
Bihar Total	PSC/ONGC/OIL	8989.15	947.17	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chattisgarh Total	PSC/ONGC/OIL	202.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gujarat Total	PSC/ONGC/OIL	112161.60	17550.32	2806.00	0.00	874.00	49.00	178.00	20.00	545.28	5.95
Himachal Pradesh Total	PSC/ONGC/OIL	4594.53	0.00	16.00	100.00	0.00	1.00	0.00	0.00	0.00	0.00
Haryana Total	PSC/ONGC/OIL	1038.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jammu & Kashmir Total	PSC/ONGC/OIL	2563.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jharkhand Total	PSC/ONGC/OIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.29	0.00
Madhya Pradesh Total	PSC/ONGC/OIL	12360.12	773.61	19.00	0.00	160.00	4.00	0.00	2.00	32.13	0.00
Maharashtra Total	PSC/ONGC/OIL	476.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya Total	PSC/ONGC/OIL	204.55	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manipur Total	PSC/ONGC/OIL	210.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mizoram Total	PSC/ONGC/OIL	1561.05	613.00	5.00	0.00	1681.00	2.00	0.00	1.00	0.00	0.00
Nagaland Total	PSC/ONGC/OIL	602.18	5.75	25.00	0.00	0.00	0.00	3.00	0.00	4.00	0.00
Odisha Total	PSC/ONGC/OIL	783.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Punjab Total	PSC/ONGC/OIL	4078.00	0.00	4.00	0.00	100.00	2.00	0.00	0.00	0.00	0.00
Rajasthan Total	PSC/ONGC/OIL	49707.55	18385.32	453.00	0.00	76.00	8.00	38.00	18.00	117.37	9.94
Tamil Nadu Total	PSC/ONGC/OIL	42740.40	11032.60	530.00	0.00	0.00	15.00	35.00	12.00	92.30	1.27
Tripura Total	PSC/ONGC/OIL	7720.92	897.22	168.00	85.00	185.00	9.00	0.00	22.00	42.72	1.34
Uttar Pradesh Total	PSC/ONGC/OIL	29657.59	211.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uttranchal Total	PSC/ONGC/OIL	1522.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
West Bengal Total	PSC/ONGC/OIL	33602.24	4186.87	37.00	0.00	0.00	7.00	0.00	0.00	67.15	0.39
Eastern Offshore Total	PSC/ONGC/OIL	343515.51	200912.44	509.00	0.00	950.00	13.00	35.00	90.00	633.87	5.83
Western Offshore Total	PSC/ONGC/OIL	543610.09	134377.33	1049.00	6000.00	3610.00	31.00	91.00	64.00	1956.40	36.27
Grand Total	PSC/ONGC/OIL	1302755.59	412451.60	8293.00	6415.00	9366.00	218.00	549.00	317.00	4249.18	69.20

