

**GOVERNMENT OF INDIA
PETROLEUM AND NATURAL GAS
LOK SABHA**

UNSTARRED QUESTION NO:5591
ANSWERED ON:10.05.2012
SURVEY TO DISCOVER OIL DEPOSITS
Kumar Shri P.

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

- (a) whether the Government had undertaken surveys to discover oil deposits in the country;
- (b) if so, the details thereof;
- (c) whether in many places oil deposits have been discovered but their exploration is not economically viable;
- (d) if so, the details thereof; and
- (e) the details of the demand of various petroleum products in the country during the last three years?

Answer

Minister of state in the Ministry of PETROLEUM AND NATURAL GAS (SHRI R.P.N. SINGH)

(a) & (b) In order to assess hydrocarbon prospectivity in the sedimentary basins, Government, through Directorate General of Hydrocarbons (DGH), has been carrying out gravity magnetic, electro-magnetic, aero-magnetic, magneto-telluric, geochemical and seismic surveys in Indian sedimentary basins in onland and offshore areas. The data obtained from these surveys are used for carving out exploratory blocks for offering under New Exploration Licensing Policy (NELP) bidding rounds. In addition, Contractor(s) under the Production Sharing Contract (PSC) regime also conduct various geo-scientific surveys to find the hydrocarbon potential in the awarded blocks.

Surface Geochemical Survey was recently carried out by DGH in Satpura- South Rewa-Damodar Basins in Central and Eastern India and Cauvery Basin in Southern India to ascertain the indications of presence of hydrocarbon. Geochemical Surveys are also planned to be carried out in Spiti-Zaskar and Karewa Basins in Northern India.

In addition, Oil and Natural Gas Corporation (ONGC) is carrying out seismic and other surveys to discover hydrocarbon deposits in blocks operated by it in different onland and offshore areas of the country. During the last five years (2007-12), ONGC has acquired a total of 1,36,997 Ground Line Kilo Metre/ Kilometre (GLK/LK) of 2D seismic and 97,060 Square Kilometre (SK) of 3D seismic data.

As far as Oil India Ltd. (OIL) is concerned, surveys were taken up in the following parts of the country to discover oil deposits:-

1. Assam-Arakan basin (state of Assam and Mizoram),
2. Rajasthan basin bordering Pakistan,
3. State of Orissa on-shore and off-shore,
4. Andaman Offshore,
5. Ganga Valley in the state of Uttar Pradesh and Uttarkhand,
6. Krishna Godavari onshore basin in the States of Puducherry and Andhra Pradesh,
7. Cauvery offshore basins, Gulf of Mannar.

(c) & (d) Under the PSC regime, so far 65 oil discoveries have been made in the following locations:

Area/State	No. of Oil Discoveries
Eastern Offshore	10
Western Offshore	6
Gujarat	34
Rajasthan	13
Andhra Pradesh	2
Total	65

Commercial production of crude oil has already commenced from 11 discoveries (4 in Rajasthan, 4 in Gujarat, 2 in Western Offshore and 1 in Eastern Offshore area). So far, 5 oil discoveries (3 in Eastern Offshore, 1 in Western offshore & 1 in Gujarat) have been found to be non-commercial by the Contractor(s) and hence subsequently these discoveries were not developed. As on 01.04.2011, In-Place oil reserves to the tune of 372.64 Million Metric Tonne (MMT) has been established from these oil discoveries. Other oil discoveries are under various stages of evaluation, appraisal, commerciality and development.

As far as ONGC is concerned, it has made 133 hydrocarbon discoveries in last five year (2007-12) period. Of these 57 discoveries have been put on production as on 1.4.2012. Assessment/appraisal of remaining 76 discoveries is in progress before their economic viability can be evaluated.

In addition, OIL has discovered heavy oil in Baghewala field in Rajasthan during the year 1991 with an estimated heavy oil in-place

reserve of 25 MMT. However, commercial production of heavy oil from Rajasthan has not started. Heavy oil is difficult to produce by conventional method, experiments are on to produce it.

(e) The consumptions of petroleum products in the country during last three years are as under:-

('000 Metric Tonne)
Products 2009-10 2010-11 2011-12 (P)
LPG 13135 14331 15367
MS 12818 14194 14993
Naptha+NGL 10134 10676 11188
ATF 4627 5078 5536
SKO 9304 8928 8229
HSD 56242 60071 64753
LDO 457 455 415
Lubricants & Greases 2539 2429 2769
FO & LSHS 11629 10789 9185
Bitumen 4934 4536 4607
PetroleumCoke 6586 4982 6068
Others 5400 4569 4883
Total 137808 141040 147991
P=Provisional