

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

UNSTARRED QUESTION NO:1022  
ANSWERED ON:16.08.2012  
NEW TECHNOLOGY FOR EXPLORATION  
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**Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state:**

- (a) whether new technologies are being used for exploration of hydrocarbons in the country;
- (b) if so, the details thereof; and
- (c) the extent to which the use of new technologies have helped in reducing the exploration cost?

**Answer**

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

(a) & (b) Yes, Madam. The Contractors are using various new technologies for exploration of hydrocarbon such as Resistivity anisotropy measurement, Nuclear Magnetic Resonance (NMR) measurement, Advanced Sonic measurement, Volume based interpretation and 3D visualization, Geocellular Modelling, Amplitude Versus Offset analysis and Reservoir characterization.

(c) The use of all the above latest technologies helps in improving the accuracy in finding oil and gas reservoirs with reduced expenditure in exploration activities. However, the Contractors have not submitted any quantification of savings in exploration cost solely due to use of new technologies by them.