

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

UNSTARRED QUESTION NO:386
ANSWERED ON:06.12.2013
REFINING OF CRUDE OIL
Singh Shri Ratan

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

- (a) the estimated refining cost of various petroleum products per barrel;
- (b) the procedure adopted for refining of crude oil at present;.
- (c) whether the Public Sector refineries propose to adopt different techniques for refining crude oil ; and
- (d) if so, the details thereof?

Answer

MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS (SMT. PANABAAKA LAKSHMI)

(a) Refining of crude oil is a process industry, where crude oil constitutes around 90% of the total cost. Crude oil is processed through several processing units. Each of these units produces intermediate product streams, which require extensive reprocessing and blending. This results in difficulty in apportioning the total cost to individual refined products with reasonable accuracy. Therefore, individual product-wise costs are not identified separately.

(b) The procedure adopted for refining of Crude oil by Indian refineries is in line with that adopted by refineries worldwide. This includes primary processing of Crude oil by Atmospheric Distillation and Vacuum Distillation for initial separation of various product fractions based on their boiling point; Upgradation of heavy ends by Atmospheric/Vacuum Distillation through Secondary/Upgradation Technologies for yield improvement and Product Quality Upgradation Technologies etc.

(c) & (d) While the basic techniques adopted for refining crude oil by Indian Public Sector Refineries, which are at par with those being followed by Refineries, world wide will remain the same, the specific techniques may vary depending upon the type of Crude processed, existing refining configuration, techno-economic consideration & supply/demand balance in the region etc.