

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

UNSTARRED QUESTION NO:1024

ANSWERED ON:02.03.2015

MODERNISATION OF REFINERIES

Chudasama Shri Rajeshbhai Naranbhai;Deka Shri Ramen;Mullappally Shri Ramachandran;Singh Shri Dushyant

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

- (a) whether the Government proposes to undertake modernization/upgradation and expansion of the oil refineries across the country including Digboi and Kochi in accordance with the international standards;
- (b) if so, the details thereof including the funds earmarked, targets set for expansion of refining capacity and upgrade the fuel quality norms, State/LT/Oil Marketing company-wise;
- (c) the details of the refineries which have not started their oil production after expansion of their capacity during the last three years and the current year along with the steps taken by the Government to start refinery operation, refinery-wise;
- (d) the quantum of oil refined by various exiting oil refinery companies during the above period along with the capacity utilization of the said refineries, OMC/refinery-wise; and
- (c) the details of export of petroleum products by various refineries during the said period?

Answer

MINISTER OF STATE (INDEPENDENT CHARGE) IN THE MINISTRY OF PETROLEUM AND NATURAL GAS (SHRI DHARMENDRA PRADHAN)

(a) and (b): Indian refineries have adopted modern technologies for production of petroleum products and continuously upgrade the technologies in line with their requirements and international trends.

Apart from primary processing technologies, viz., Crude Oil Fractionation by Atmospheric Distillation and Vacuum Distillation for initial separation, the major modern process technologies employed by Public Sector Undertaking (PSU) refineries for producing petroleum products include:-

(i) Secondary/Upgradation Technologies for yield improvement:

Thermal cracking processes, viz., Visbreaking, Delayed Coking.

Fluidised Catalytic Cracking, INDMAX Technology.

Hydrocracking.

(ii) Quality Upgradation Technologies:

Catalytic Reforming. Isomerisation, Alkylation, Prime G for meeting the quality specifications of Petrol W.r.t. octane number, benzene content, aromatics, olefins, sulphur, distillation etc.

Diesel Hydro-desulphurisation (DHDS), Diesel Hydro-treating (DHDT) for diesel for reduction of sulphur & PAH (Poly Aromatic Hydrocarbons) and cetane number improvement.

As per information received from Oil PSUs, they have undertaken a number of initiatives for upgradation and modernization of their refineries. Details of such initiatives/projects are given at Annexure-I.

Ministry of Petroleum and Natural Gas has decided to implement BS-1V fuels in the entire country by 1st April, 2017 in a phased manner.

(c) No such case has come to the notice of this Ministry.

(d) The refinery/company-wise quantum of crude oil processed by the refineries of various oil companies along with their capacity utilization during past three years and the current year is given at Annexure-II.

(e) Details of the export of petroleum products by oil companies during the last three years and the current year are given at Annexure-

