

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

UNSTARRED QUESTION NO:1220

ANSWERED ON:01.12.2014

MODERNISATION OF REFINERIES

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

- (a) whether the Government proposes to undertake modernization/upgradation of the oil refineries across the country in accordance with the international standards;
- (b) if so, the details thereof including the funds earmarked, targets set for expansion of refining capacity, State/UT/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 oil refinery companies during the above period along with the capacity utilization of the said refineries, refinery-wise; and
- (e) the steps taken by the Government to take adequate measures to upgrade the fuel quality norms and bring it at par with global norms?

Answer

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

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

(b) 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.

Oil PSUs have undertaken a number of initiatives for upgradation and modernization of their refineries. Details of such initiatives/projects are Annexure-I.

(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) Government had constituted an Expert Committee under the Chairmanship of Shri Soumitra Choudhuri, Member, Planning Commission, to draft Auto Fuel Vision and Policy 2025. The Committee has submitted its Report to the Government. The Committee has recommended a phased programme for upgradation of fuel quality norms across the country. Ministry of Petroleum and Natural

Gas has finalized plan for implementation of BS-IV fuels in the entire country by 1st August, 2017 in a phased manner.