

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

UNSTARRED QUESTION NO:2491
ANSWERED ON:15.03.2007
IMPROVEMENT IN REFINING PROCESS
Khaire Shri Chandrakant Bhaurao

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

- (a) whether the Indian Oil Corporation has taken any steps to bring improvement in the refining process;
- (b) if so, the technologies adopted by IOC in the refining sector; and
- (c) the amount of investment proposed to be made by IOC in the new technology?

Answer

MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS (SHRI DINSHA PATEL)

(a) and (b): Yes, Sir. Indian Oil Corporation (IOC) have taken various steps to bring improvement in the refining process. For this purpose, the technologies adopted by IOC in the refining sector are annexed.

(c) The anticipated cost for acquiring new technologies by IOC in refining sector is approximately Rs.373 crore.

ANNEX REFERRED TO IN REPLY TO PARTS (a) AND (b) OF THE LOK SABHA UNSTARRED QUESTION NO.2491 BY SHRI CHANDRAKANT KHAIRE TO BE ANSWERED ON 15TH MARCH, 2007 REGARDING IMPROVEMENT IN REFINING PROCESS

- i) Fluidised Catalytic Cracking (FCC)
- ii) Hydrocracking
- iii) Diesel Hydrodesulphurisation
- iv) Resid Fluidised Catalytic Cracking
- v) Once through Hydrocracking
- vi) Diesel Hydrotreatment
- vii) Catalytic Iso-Dewaxing
- viii) Wax Hydrofinishing
- ix) Solvent Dewaxing/Deoiling
- x) Hydrogen Generation
- xi) Sulphur Recovery
- xii) ISOSIV
- xiii) Soaker Visbreaking
- xiv) Delayed Coking
- xv) Catalytic Reforming
- xvi) Isomerisation
- xvii) INDMAX
- xviii) Hexane Hydrogenation
- xix) Normal Methyl Pyrolidine(NMP) Extraction
- xx) Residum Oil Supercritical Extraction-Propane Deasphalting
- xxi) FCC Gasoline desulphurization (Prime-G)
- xxii) Udex Technology
- xxiii) Kero-Hydrodesulphurisation Technology
- xxiv) Lube Hydrofinishing Technology (HFU)
- xxv) Biturox Technology
- xxvi) Methyl Tertiary Butyl Ether (MTBE) Technology
- xxvii) FCC Flue Gas Desulphurisation Technolgy