LOK SABHA
UNSTARRED QUESTION NO. 4781
TO BE ANSWERED ON 21st August 2025

Research and Development by PSUs

4781. SHRI DAGGUMALLA PRASADA RAO:

पेट्रोलियम और प्राकृतिक गैस मंत्री

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

(a) the details regarding the steps taken by all Public Sector Undertakings (PSUs) under the Ministry for research, development and innovation into petroleum and natural gas sector of India;
(b) the details regarding the total number of patents filed, accepted, rejected and under examination by each PSU during the last five years; and
(c) the details regarding the quantum of funds allocated, released and utilised for the purposes of research and development of new technologies in exploration and discoveries of petroleum and natural gas in India during the last five years especially in Andhra Pradesh?

ANSWER

पेट्रोलियम और प्राकृतिक गैस मंत्रालय में राज्य मंत्री
(श्री सुरेश गोपी)

MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS (SHRI SURESH GOPI)

(a) Oil & Gas Public Sector companies carry out inhouse Research & Development activities and also collaborate with various external stakeholders. Activities for Research, development & innovation, *inter-alia,* include development of indigenous technologies, process optimization, alternative fuels (including biofuels, hydrogen and synthetic fuels), refining process improvements, lubricants formulation, petrochemicals, exploration & production operations, Enhanced Oil recovery, Carbon Capture Utilization and Storage, pipeline technologies, environment-friendly solutions aimed at enhancing operational efficiency, energy security, and sustainability etc.

(b) The details regarding the total number of patents filed, accepted, rejected and under examination by major PSUs during the last five years (FY 2020-21 to FY 2024-25) is given below:

CPSE	Patent Applications filed during FY 2020-21 to 2024-25	Patent granted *	Patent Applications Under Examination *	Patent Applications Rejected *
ONGC	52	70	286	9
OIL	06	10	6	0

GAIL	18	4	14	0
IOCL	380	323	267	09
BPCL	35	28	35	0
HPCL	407	197	310	01

*include patent filed prior to FY 2020-21.

(c) Oil & Gas Public Sector companies have spent Rs 11,621 crore on Research & Development including on new technologies in exploration and discoveries of petroleum and natural gas in India including the state of Andhra Pradesh during the last five years.

*****