

**GOVERNMENT OF INDIA  
MINISTRY OF CHEMICALS AND FERTILIZERS  
DEPARTMENT OF PHARMACEUTICALS**

LOK SABHA  
STARRED QUESTION NO. 276  
TO BE ANSWERED ON THE 13<sup>th</sup> DECEMBER, 2024

**Role of Artificial Intelligence in Boosting Pharmaceutical Sector**

**\*276. Shri Dhairyasheel Sambhajirao Mane:**

Will the Minister of **CHEMICALS AND FERTILIZERS** be pleased to state:

- (a) whether the Government has taken note of the importance of advanced technologies such as Artificial Intelligence, Block Chains etc. which can play a major role in boosting the pharmaceutical sector in the country;
- (b) if so, the details in this regard and the various steps taken by the Government to leverage such technological developments to the sector's advantage in the country; and
- (c) the steps taken by the Government to boost the pharmaceutical sector in the country?

**ANSWER**

**MINISTER IN THE MINISTRY OF CHEMICALS & FERTILIZERS  
(SHRI JAGAT PRAKASH NADDA)**

---

(a) to (c): A Statement is laid on the Table of the House.

**Statement referred to in reply to the Lok Sabha Starred Q. No. 276 (16<sup>th</sup> POSITION) for answer on 13.12.2024 raised by Shri Dhairyasheel Sambhajirao Mane regarding the “*Role of Artificial Intelligence in Boosting Pharmaceutical Sector*”**

(a) & (b): Yes, Department of Pharmaceuticals has taken steps to promote R&D in the sector including in the areas of Artificial Intelligence and Machine Learning through the Promotion of Research and Innovation in the Pharma-Meditech Sector (PRIP) Scheme. Further, NIPERs under the aegis of Dept. of Pharmaceuticals have introduced courses that cover topics related to Artificial Intelligence, Machine Learning and Blockchain Technology and they also provide training to students in AI-based tools to build human resource capacities in these areas for the pharmaceutical sector. In addition, the Department of Biotechnology also supports the projects for application of Artificial Intelligence for Affordable and Accessible Healthcare.

(c): The Government of India has undertaken several measures to boost the pharmaceutical and medical device sectors, including the implementation of PLI Scheme for critical Key Starting Materials, Drug Intermediates & Active Pharmaceutical Ingredients; the PLI Scheme for Pharmaceuticals; the PLI Scheme for Medical Devices; the Medical Device Parks Scheme; the Bulk Drug Park Scheme; Strengthening Medical Device Industry Scheme and PRIP Scheme.

\*\*\*\*\*