

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

LOK SABHA
UNSTARRED QUESTION No. 2136
TO BE ANSWERED ON THE 12th DECEMBER 2025

Importance of Artificial Intelligence in Pharmaceutical Industry

**2136. Shri Chamala Kiran Kumar Reddy:
Shri Eatala Rajender:**

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

- (a) whether Artificial Intelligence (AI) has reduced the cost of producing a new pharmaceutical molecule by ten times and the development time by fifty percent creating an opportunity for the country to invent a clutch of drugs globally, if so, the details thereof; and
(b) whether this situation is creating an opportunity for the country an opening to develop competitive drugs globally in the near future, if so, the details thereof?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS AND FERTILIZERS

(SMT. ANUPRIYA PATEL)

(a) and (b): Use of AI represents an emerging opportunity for domestic industry to enhance its global competitiveness. Pharmaceutical industry is exploring AI-enabled platforms for target identification, lead optimisation, molecular screening, predictive toxicology and regulatory intelligence, which has potential to reduce costs and timeframes for early stages of drug development. The extent of such reduction has not been quantified conclusively.
