

**GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION NO.3655
TO BE ANSWERED ON 2/1/2019**

RESEARCH AND DEVELOPMENT IN ARTIFICIAL INTELLIGENCE

**3655. SHRI BHARATHI MOHAN R.K.:
SHRIMATI V. SATHYA BAMA:
SHRIMATI VANAROJA R.:**

**Will the Minister of SCIENCE AND TECHNOLOGY विज्ञान और प्रौद्योगिकी मंत्री
be pleased to state:**

- (a) whether the Government has signed any MoU to carry out Research and Development in Artificial Intelligence (AI) and Internet of Things (IoT);**
- (b) if so, the details thereof and the advantages accrued to the Government;**
- (c) whether the Government is expecting rise in the usage of Artificial Intelligence (AI) and Internet of Things (IoT) in the fields of Automation, Aero Space, Defence and Military operations; and**
- (d) if so, the details thereof ?**

ANSWER

**MINISTER OF SCIENCE AND TECHNOLOGY, MINISTER OF EARTH SCIENCES AND MINISTER
OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(DR. HARSH VARDHAN)**

विज्ञान और प्रौद्योगिकी मंत्री, पृथ्वी विज्ञान मंत्री और पर्यावरण, वन एवं जलवायु परिवर्तन मंत्री

(डा. हर्ष वर्धन)

- (a) No, Madam.**
- (b) Does not arise.**
- (c) Yes, Madam.**
- (d) In automation, machines and production processes are controlled and managed by Artificial Intelligence and Internet of Things (IoT) devices. Self learning, Robots, Man-machine interface and predictive maintenance and analytics are slowly getting into automation. Artificial Intelligence (AI) and Internet of Things (IoT) are core contributing technologies.**

Similarly in Aero Space, Artificial Intelligence (AI) and Internet of Things (IoT) has enormous usage in fleet management, scheduling, predictive maintenance, and better customer experience and resource optimization.

Artificial Intelligence (AI) and Internet of Things (IoT) can be used for supply chain, logistics, predictive maintenance, sensors based surveillance, simulated war games and training, cyber security and intelligence & reconnaissance. AI has a potential to have transformative impact on Cyber Security and Security for physical infrastructure, thereby National Security and Defence.

Artificial Intelligence (AI) and Internet of Things (IoT) play a crucial role in development and deployment of autonomous weapons, intruders detection, situation analysis, counter measures, face recognition and pattern analyses which will help military operations.
