

**GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION NO.3670
TO BE ANSWERED ON 8/8/2018**

CYBER PHYSICAL SYSTEM PROJECT

**3670. SHRI ASHOK SHANKARRAO CHAVAN:
KUNWAR HARIBANSH SINGH:
SHRI SUDHEER GUPTA:
SHRI GAJANAN KIRTIKAR:
SHRI BIDYUT BARAN MAHATO:
SHRI S.R. VIJAYAKUMAR:
SHRI S. RAJENDRAN:**

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

- (a) whether the Government proposes to launch cyber physical system project;
- (b) if so, the details thereof along with the aims and objectives thereto;
- (c) the salient features of the cyber physical system mission;
- (d) the time by which a decision is likely to be taken by the Government in this regard;
- (e) the total expenditure likely to be involved in the said project along with the initial budget that has been earmarked for the project in the current financial year; and
- (f) the other steps taken/being taken by the Government to strengthen cyber security in the country?

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) Yes, Madam.
- (b) Cyber-Physical Systems (CPS) is defined as a system that interacts with real world “Physical Systems” in “Cyber Space”. It aims at research, training and skilling in Robotics, Artificial Intelligence, digital manufacturing, big data analysis, quantum communication and internet of things, to make India Self-reliant and Leader in Cyber Physical Systems.

Objectives:

- i) To promote basic and translational research and development in CPS and its foundational technologies.
- ii) To develop and demonstrate CPS technologies, prototypes and associated applications, keeping in view national priorities.
- iii) To increase the number of scientists and technologists to cater to present and future needs of the country and to generate skilled workforce in these emerging areas.
- iv) To nurture innovation, incubation and start-up ecosystem.
- v) To establish and strengthen the international collaborations for the development of cutting-edge technologies in CPS.
- (c) The Mission salient features are indigenous technology development, to create specialized Centre of Excellence, generate next level technical manpower, nurture start-up and innovative ecosystem and establish international collaborative research.
- (d) Decision is expected in the Current Financial year.
- (e) Total expenditure involved is Rs 3660.00 crores. No initial budget has been earmarked for the project in current financial year.
- (f) A specialized Centre of Excellence to develop Cyber Security technologies was created at Indian Institute of Technology (IIT), Kanpur. Cyber Security for critical infrastructure is one of the focused area under the National Mission on Interdisciplinary Cyber Physical Systems (NM-ICPS). A National framework to secure the digital transnational was developed by Ministry of Electronics and Information Technology (MeitY).
