

GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION NO. 1385
TO BE ANSWERED ON 27.11.2019

USE OF BLOCKCHAIN TECHNOLOGY

1385. SHRI PARVESH SAHIB SINGH VERMA:

Will the Minister of Electronics and Information technology be pleased to state:

- (a) **the steps taken by the Government to promote and encourage the use of blockchain technology;**
- (b) **whether the Government has conducted any research on the uses of blockchain technology and if so, the details and the outcome thereof; and**
- (c) **if not, the reasons therefor?**

ANSWER

MINISTER OF STATE FOR ELECTRONICS AND INFORMATION TECHNOLOGY
(SHRI SANJAY DHOTRE)

(a): Ministry of Electronics and Information Technology (MeitY) has identified Blockchain Technology as one of the important research areas having application potential in different domains such as Governance, Banking & Finance, Cyber Security and so on. MeitY has supported a multi institutional project titled Distributed Centre of Excellence in Blockchain Technology with C-DAC, IDRBT and VJTI as executing agencies. Objectives of this initiative are,

1. Evolving an ecosystem around R&D organizations, Government departments and Academia to foster Blockchain technology,
2. Design, development and pilot deployment / prototyping of Blockchain based applications in the domains of Governance, Banking & Finance and Cyber Security,
3. Conduct research to address the issues and challenges related to Blockchain usage in identified application domains,
4. Evolving Blockchain framework using open-source implementations to suite the identified application domain requirements and
5. Capacity building in Blockchain technology.

(b) and (c): As part of Distributed Centre of Excellence in Blockchain Technology initiative, agencies carried out research on the use of Blockchain Technology in various domains and developed Proof-of-Concept solutions. Blockchain Technology based solution for property registration has been developed and is being piloted at Shamshabad District, Telangana State. Proof-of-Concept solutions are being developed for enabling Cloud Security Assurance, C-KYC and trade finance. Generic Blockchain based Proof-of Existence (PoE) Framework is developed to enable PoE for digital artifacts, used to check the integrity of academic certificates, sale deed documents, MoU etc. By using PoE framework, solution is developed to authenticate academic certificates. Blockchain Technology has also been used and PoC is

developed for vehicle life cycle management and hotel registry management PoC. In addition to the above, action is taken for integrating Blockchain with e-Sign.

Considering the potential of Blockchain Technology and the need for shared infrastructure for different use cases, an approach paper on National Level Blockchain Framework is being prepared, for scaling up and wider deployment of Blockchain based use cases.
