

GOVERNMENT OF INDIA  
DEPARTMENT OF ATOMIC ENERGY  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 1121**  
TO BE ANSWERED ON 29.07.2021

**DATA MINING BY ELECTRONICS CORPORATION OF INDIA LTD.**

1121. Dr. Vinay P. Sahasrabuddhe:

Will the PRIME MINISTER be pleased to state:

- (a) whether the Electronics Corporation of India Ltd. (ECIL) has taken any initiatives in terms of data warehousing and data mining;
- (b) if so, the details thereof and if not, the reasons therefor; and
- (c) whether the ECIL has collaborated with other Government organizations/ departments/agencies for capacity building in terms of e-governance, if so, the details thereof and if not, the reasons therefor?

**ANSWER**

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES AND PENSIONS AND PRIME MINISTER'S OFFICE (DR. JITENDRA SINGH):

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- (a) Yes, Sir.
- (b) ECIL's initiatives in Data Warehousing are implemented in the Integrated Security Systems of Rashtrapati Bhavan, Parliament House and Delhi Police where Data Warehouse is constructed by integrating large volume of electronic data captured from multiple heterogeneous sensors that can be retrieved and analyzed to provide useful insight into the security operations. The data is utilised by security agencies for incidence management, post event analysis and forensic evidence.

Initiatives in Data Mining are implemented in the in-house developed Secure Manufacturing Process, utilized for production of Strategic Electronic Equipment for traceability, analyzing production patterns, predictive and failure analysis using Machine Learning and Deep Learning Algorithms. Initiatives are also taken for development and deployment of Deep Learning Techniques for Automated Vision based Inspection System in association with Centre for Artificial Intelligence of Indian Statistical Institute, Kolkata.

- (c) Yes, Sir. ECIL has collaborated with Bharat Electronics Limited (BEL) and Indian Telephone Industries (ITI) for capacity building in terms of e-Governance. These collaborations are made in the Projects of National Population Register (NPR), Socio Economic and Caste Census (SECC), Marine Fisheries Identity Cards (MFID) to serve the requirements of Ministry of Home Affairs (MHA), Ministry of Rural Development (MORD) and Department of Fisheries.

The collaboration facilitated Skilled Manpower Development for e-Governance projects, up-gradation of in-house IT-Infrastructure to handle e-Governance related project activities, creation of manpower capable of developing high-end indigenous Application Software and Database architectures and Establishment of in-house Manufacturing facilities of Smart Card printing and personalization.

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