

GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION NO. 3501
TO BE ANSWERED ON: 22.3.2023

**NEW SECURITY MECHANISM FOR AADHAAR BASED
FINGERPRINT AUTHENTICATION**

3501. SHRI SUDHEER GUPTA:
SHRI DHAIRYASHEEL SAMBHAJIRAO MANE:
SHRI SHRIRANG APPA BARNE:
SHRI BIDYUT BARAN MAHATO:
SHRI PRATAPRAO JADHAV:

Will the Minister of ELECTRONICS AND INFORMATION TECHNOLOGY be pleased to state:

- (a) whether Unique Identification Authority of India (UIDAI) has rolled out a new security mechanism for Aadhaar based fingerprint authentication and faster detection of spoofing attempts;
- (b) if so, the details thereof and the salient features of the said mechanism;
- (c) whether the new security mechanism for Aadhaar based fingerprint authentication has been made fully functional and if so, the details thereof;
- (d) the sector/segments in which this new technology is likely to be introduced and the manner in which it will be beneficial for the common people in the country; and
- (e) whether this new technology will help in curbing financial frauds in the country and if so, the details thereof?

ANSWER

MINISTER OF STATE FOR ELECTRONICS AND INFORMATION TECHNOLOGY
(SHRI RAJEEV CHANDRASEKHAR)

(a) and (b): Yes, Sir.

The Unique Identification Authority of India provides digital identity (Aadhaar) and digital authentication services to the residents of India. The Authority has rolled out new Finger Minutiae Record - Finger Image Record (FMR-FIR) modality for fingerprint based Aadhaar authentications w.e.f. 28.2.2023. This is an artificial intelligence/machine learning (AI/ML) based modality to check the liveness of the fingerprint and distinguish between genuine finger and spoofed/gummy finger. It does not allow any authentication which is attempted by use of spoofed/gummy finger.

(c): The new FMR-FIR modality for fingerprint based Aadhaar authentication has now become fully functional w.e.f. 28.2.2023 except for few entities who have sought some more time for readiness of their respective applications.

(d) and (e): The new technology is sector agnostic and will be used wherever fingerprint biometric authentication is carried out. Since the new FMR-FIR modality detects the liveness of finger at the time of authentication, any attempted authentication done by use of spoofed/gummy finger will be detected and stopped, thereby protecting residents from frauds including financial frauds.
