

F.No. 15011/08/2021-DBT  
भारत सरकार / Government of India  
रसायन व उर्वरक मंत्रालय / Ministry of Chemicals & Fertilizers  
उर्वरक विभाग / Department of Fertilizers  
(DBT Division)

Shastri Bhawan, New Delhi  
Dated 18<sup>th</sup> July, 2023

**OFFICE MEMORANDUM**

**Subject: PoS Specifications and Guidelines for Procurement, Deployment, Installation and Training of Point of Sale (PoS) devices under DBT project –reg.**

The undersigned is directed to circulate herewith the revised PoS Specifications (Annexure-A) and guidelines (Annexure-B) for procurement, deployment, Installation and training of point of sale (PoS) devices under DBT project for information and necessary action.

This issues with the approval of Competent Authority.

Encl: as above.

**(M.Subramanian)**  
Director (DBT)  
Tel. 23382552

To

1. All State Lead Fertilizer Suppliers
2. All PoS Vendors

Copy to:

1. PPS to Secretary (Fert)
2. PPS to AS (NA)
3. PA to JS (AK)
4. PM, DBT-PMU

**POS SPECIFICATIONS**

S. No	Description	Specifications
1	Processor	<p>Latest Quad Core or higher processor capable of performing at least 10 transactions per minute in laboratory environment. Each transaction consists of:</p> <ul style="list-style-type: none"> <li>i. Perform biometric Authentication of the fertilizer Beneficiary with UIDAI server.</li> <li>ii. Generate Encrypted payload for maximal sales data.</li> <li>iii. Stored Encrypted transaction data in the local storage.</li> <li>iv. Transmit the Encrypted transaction sales data to the iFMS server.</li> <li>v. Remove locally stored sales data only after getting acknowledgement from the server.</li> </ul>
2	OS	<ul style="list-style-type: none"> <li>i. Secure OS having an inbuilt web browser supporting HTML 5, CSS3 Java scripts (Source code of OS shall be CC compliant at least EAL level 2 Certified or OS hardened and tested by an independent lab with a declaration of equivalence to CCEAL 2 PCI PTS 4.0 or above enabled).</li> <li>ii. Android 7.0 or above for PCI-PTS certified managed PoS device.</li> </ul>
3	Memory	2 GB or Higher RAM and 16GB or higher Flash Memory.
4	Expansion Slot	Micro SD slot to support SD card with minimum 8GB high speed SD card.
5	Communication	Should support GSM network 2G/3G/4G/5G with GPRS, Wi-Fi, and Ethernet.
6	Interface	USB 2.0 or higher. The USB port should support device battery charging through any other USB charging source.
7	Display	5.5 inch or higher color TFT Display supporting QVGA (1280x720) or better resolution and 64K or higher colors. In case of Touch Screen Keypad, Display shall be 5.5 inch or higher color scratch resistant multipoint capacitive Touch TFT display supporting

		QVGA (1280x720) or better resolution and 64K or higher colors.
8	Keypad	On screen soft touch Keypad
9	Battery	Swappable and Dry/Rechargeable 2600mAH or higher, Li-ion or Li polymer battery capable of providing minimum 8 hours of operation while all function of device active.
10	Power Adapter	Power Adapter with Surge protection and operating range 100 to 240V, 50Hz. AC input.
11	SIM and SAM Slot	One or more GSM SIM slot and minimum one SAM slots for software up-gradation device.
12	Printer	2" or higher Thermal/ Non Thermal printer
13	Audio	Good Quality Speaker with 1 W or higher output for announcements (Optional).
14	Finger Print Scanner	Fingerprint module should be STQC and UIDAI certified with L1 Registered Device (RD).
15	Smart card reader	STQC and EMV compliant smart card reader to read Credit / Debit card for financial transactions.
16	Status Indications	Status indicators provides ease of use Indicators for connectivity (presence/absence), Signal Strength, battery status etc.
17	Other Accessories	Durable Carry Case and user manual etc.
18	SDK	Appropriate SDK need to be provided along with the devices.
19	Terminal Management	Device management should be indigenously developed, with data transfer within India only.
20	Environment, Health and Safety Durability, Humidity EMI/EMC Compliance.	STQC certified.
21	Add-On Antenna	May be provisioned for the PoS devices which will be used in remote locations and hilly areas for better signal reception and seamless transactions.
22	Web Camera	5MP or higher auto-focus camera, capable of reading 1D line barcode and QR codes.
23	IRIS Scanner	<ul style="list-style-type: none"> <li>i. The PoS should have an interface to connect the IRIS scanner.</li> <li>ii. IRIS scanner may be provided separately as an alternative option for biometric authentication through PoS device and IRIS scanner should be STQC and UIDAI compliant.</li> </ul>

24	Face Scanner	iii. The PoS should have the provision for face authentication and should be STQC and UIDAI compliant.
25	Warranty and AMC	Three years comprehensive warranty and AMC for a period of two years after expiry of comprehensive warranty period.
26	Payment Certification	<ul style="list-style-type: none"> <li>i. PoS should have PCI (payment card industry) for financial bank standard compliance - PCI PTS 4.0 or above.</li> <li>ii. The model number of the PoS device should be clearly mentioned in the PCI certificate.</li> </ul>

**Guidelines for Procurement, Deployment, Installation and Training of Point of Sale (PoS) devices in DBT project –reg.**

**1. Procurement of PoS devices:**

- i. LFS/Fertilizer companies shall provide action plan to DoF for procurement of PoS devices and its distribution/installation at retail point.
- ii. LFS/Fertilizer companies will be permitted to procure Android based PoS devices only as per the specifications issued by DoF.
- iii. Only empanelled PoS vendors will be allowed to participate in the tendering process for PoS procurement.
- iv. Currently fingerprint L0 RD (Registered Device) is used in PoS devices deployed for DBT Fertilizer Project. Fingerprint biometric authentication transactions will be continued for the time being in L0 RD. As per UIDAI's letter dated 27<sup>th</sup> January 2023, all the existing L0 RD will be discontinued by 30 June 2024 and thereafter only fingerprint L1 RD will be allowed to perform Aadhaar based authentication. Therefore, LFS/Fertilizer companies will procure PoS devices enabled with only Fingerprint L1 registered devices. (Copy is enclosed at **Annexure-I to III**).
- v. As per UIDAI, all fertilizer companies will purchase only PCI-PTS certified PoS devices (OS-Android 7 and above) running on certified Managed android RD service.
- vi. As per UIDAI advisory, all fertilizer companies shall ensure to deploy devices (Discrete Fingerprint and Iris Devices) supporting only latest OS specification (Windows 10/Android OS 10 and above).
- vii. It is clarified that the pending orders for procurement of PoS devices as per the existing specifications issued on May'2022 will continue to be executed for supply and deployment till the new specifications are issued. Thereafter, all the fertilizer companies will procure PoS devices as per the latest specification issued by DoF.

**2. Deployment and installation of PoS devices:**

- i. A "DBT Working Group" committee should be constituted to oversee the issues related to PoS device and its procurement, distribution, training etc. at the District level and State level involving relevant stakeholders.
- ii. LFS/Fertilizer Companies/District Agriculture Officers (DAOs) will ensure proper distribution of PoS devices at retail points.
- iii. A Nodal Officer should be appointed in each district by the State Government for coordination in DBT fertilizer project.
- iv. If a new dealer takes a new license to start fertilizer business, the District Agriculture Officer will inform the State Agriculture Officer and the Fertilizer companies about the new dealer, based on which the DBT State Coordinator will coordinate with the companies for supply of PoS devices to the new dealer/retailer.

- v. It should be ensured that State Agriculture Officers/LFS or representatives of Fertilizer companies do not charge any extra amount from the dealers for PoS deployment.

**3. Training program with stakeholders:**

- i. DBT State Coordinator will conduct State level one day comprehensive training program on PoS device for Master Trainers (Company Representatives / Agriculture Officers).
- ii. Training will be organized at the district level for the District Collector / District Agriculture Officer and all the retailers of Fertilizer companies.
- iii. The Master Trainer shall attend the district level retailer training program and accordingly conduct full day training program for the retailers.
- iv. DBT State Coordinator to update the Master Trainer's list (Name, Mobile No., Company Name, Email ID etc.) from time to time and share the same with the stakeholders.
- v. DBT State Coordinator to arrange new training programs for Master Trainers at the State level and review the training programs from time to time.
- vi. District Collector/District Agriculture Officer and DBT State Coordinator will visit to take stock of district level DBT training programme.
- vii. DBT State Coordinator shall arrange special training programs at district level for PoS vendors and retailers on technical issues.
- viii. DBT State Coordinator will update all the training session done in every month in the Google Sheet to share with DoF.
- ix. The DBT State Coordinator will provide training, testing and assistance to retailers to obtain online certification using the link: <https://e-learning.uidai.gov.in/login/index.php> as per UIDAI's Standard Operating Procedure (SOP) for training, testing and certification of certification operators (Copy is enclosed at **Annexure-IV**) and submit the compliance report to DBT PMU from time to time.

**4. Role of PoS vendors:**

- i. Department of Fertilizers (DOF) vide DOF letter No. 15011/20/2019-DBT dated 28 January 2020 had issued instructions regarding AMC which are mandatory to be followed by LFS and the Fertilizer companies.
- ii. It is clarified that the cost of Annual Maintenance Contract (AMC) of PoS devices is to be met by the Fertilizer companies from the retail margin/incentive of Rs. 50/MT which is allowed to accept receipt of fertilizer through mFMS/iFMS.
- iii. All companies are advised to review AMC of PoS devices and ensure that wherever AMC is lapsed, it has to be renewed without any delay. If there is any lapse in renewal of AMC with vendors, DoF will view it seriously and take strict action against the lapsed fertilizer company accordingly.
- iv. PoS suppliers/vendors are directed to provide timely maintenance and repair services of PoS equipment without any delay on the part of the vendor to ensure smooth and uninterrupted fertilizer sales through PoS.

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F. No. HQ-13023/1/2020-AUTH-I HQ/2084

भारत सरकार  
इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी मंत्रालय  
भारतीय विशिष्ट पहचान प्राधिकरण (यूआईडीएआई)  
ऑथेंटिकेशन डिवीज़न

यूआईडीएआई मुख्यालय भवन, तीसरी मंजिल,  
बंगला साहेब रोड, काली मंदिर के पीछे,  
गोल मार्केट, नई दिल्ली- 110001  
दिनांक: 20.06.2022

To

All AUA/KUAs and all Device vendors

**Sub: Removal of old and deployed devices from Authentication ecosystem for strengthening authentication security**

Dear Partners,

Please refer: (i) UIDAI letter No. 13043/02/2021-Auth-I-HQ dated 31.05.2022

Your entity has been appointed as an AUA/KUA by UIDAI for availing the Aadhaar authentication facility for authentication of the residents using the authentication L0 devices (Finger Print and Iris) certified by STQC/UIDAI.

2. UIDAI vide its letter 31.05.2022 has issued an advisory to all authentication ecosystem partners regarding strengthening of biometric authentication security by which AUA/KUAs were inter alia asked to ensure deploying devices supporting the latest OS Specification (Windows 10/Android OS 10 and above).

3. As per Aadhaar (Authentication and Offline Verification) Regulations- 2021, Regulations no. 14 (d) requesting entity is required to employ only those devices, equipment, or software, which are duly registered with or approved or certified by the authority for this purpose and are in accordance with the standards and specification laid down by the authority. However, it has been noted that some of the AUAs/KUAs have still deployed certain authentication devices whose device certificates issued by STQC have expired and have not been renewed/recertified by the device manufacturer. List of such devices is attached for ready reference.

4. Therefore, you are requested to identify and phase out such devices in time bound manner and it may be noted that services of such devices thereafter will be stopped from 31.12.2022 and no authentication will be permitted on these devices.

This issues with the approval of competent authority.



(Sanjeev Yadav)

Director (Auth-I, HQ UIDAI)

Copy for information to:

1. DG, STQC
2. DDG (Tech Centre, UIDAI)

F. No. 13043/2/2021-AUTH-I-HQ

भारत सरकार

इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी मंत्रालय  
भारतीय विशिष्ट पहचान प्राधिकरण (यूआईडीएआई)  
(अधिप्रमाणन विभाग)

यूआईडीएआई मुख्यालय भवन, तीमरी मंजिल,  
बंगला साहेब रोड, काली मंदिर के पीछे,  
गोल मार्केट, नई दिल्ली- 110001.

दिनांक: 31.05.2022

To  
All AUA/KUAs

**Sub: Advisory regarding Strengthening of Biometric Authentication Security**

Dear Madam/Sir,

Your entity has been appointed as an AUA/KUA by UIDAI for availing the Aadhaar authentication facility for authentication of the residents. UIDAI extends the facility of biometric (FP, Iris and Face) authentication which provides irrefutable authentication of the resident as per the data available with its CIDR. This privilege enjoins upon the user entity a set of responsibilities as per Aadhaar Act and its regulations to provide safe and secure authentication process in the interest of residents. In this regard under Regulation 14 (1) of The Aadhaar (Authentication and Offline verification) Regulations-2021, UIDAI hereby issues following directions to AUAs for immediate compliance:

- i. **Implementation of FMR-FIR in Single PID block:**
  - (a) UIDAI vide its letter No. 11020/198/2017-UIDAI (Auth-1)/dated 11.11.202, 03.02.2022, 30.03.2022 and 04.05.2022 has informed to all the ecosystem partners to expedite the FMR-FIR Single PID block implementation as per the guidelines of UIDAI and complete the necessary changes required in regards with AUA/KUA applications and supporting resources and devices by 30.06.2022. Please note that in interest of the overall ecosystem, UIDAI may not be in position to grant any further extension.
  - (b) All the AUAs currently using the ISO format should migrate to the XML based authentications and adapt FMR-FIR single PID block implementation.



ii. **Assisted Mode authentication:**

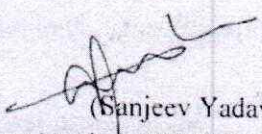
- (a) Vide Aadhaar Act and Aadhaar (Authentication and Offline Verification) Regulations- 2021, Regulations no. 14 (d), (e) and (f) a requesting entity is required to maintain security of devices being used for biometric authentication.
- (b) AUAs/KUAs are therefore requested to maintain details of devices and operators in assisted mode by maintaining proper logs of the operator with name of operator, deviceID, date and time, etc. These logs should be verified by AUAs at regular periods.
- (c) Entities must carry out analysis of devices with high failure rate and such devices should be replaced.
- (d) Vide Aadhaar Act and Aadhaar (Authentication and Offline Verification) Regulations- 2021, Regulations no. 14 (m), it is responsibility of AUA to ensure that UIDAI guidelines are followed even if Biometric Auth modality in assisted mode is being outsourced to third party or representative hired by AUA.

iii. **Device Level Security:**

- (a) Those devices which report very few or zero transactions over a period of time could be potential targets for frauds. Therefore, AUAs are requested to have an oversight over it and such devices, if possible should be taken out of the system.
- (b) Devices, though certified by STQC/UIDAI are deployed by AUAs. Therefore AUA needs to ensure that all devices in their system are certified, no tempering is done with them and are compliant with all guidelines.
- (c) AUA/KUAs to ensure deploying devices supporting only the latest OS specifications (Windows 10 / Android OS 10 and above).

2. AUA/KUA's are requested to strictly follow the above-mentioned advisories and help towards making the Aadhaar Authentication Ecosystem safe and secure.

3. This issues with the approval of competent authority.

  
(Sanjeev Yadav)  
Director (Auth-1, HQ UIDAI)

Copy for information to:

1. DG, STQC
2. All RO, UIDAI
3. DDG (Tech Centre, UIDAI)

F. No. HQ-13021/1/2021-Auth-I/HQ  
Government of India  
Ministry of Electronics & Information Technology  
Unique Identification Authority of India (UIDAI)  
Authentication and Verification Division

Third Floor, UIDAI Headquarters,  
Bangla Sahib Road, Behind Kali Mandir,  
Gole Market, New Delhi - 110001  
Date: 27.01.2023

To

All AUA/KUAs/ASAs

Sub: Phase out of existing fingerprint 1.0 Registered Devices from Aadhaar authentication ecosystem.

Dear Partners,

Please refer: (i) UIDAI letter No. HQ-13021/1/2021-Auth-I/HQ dated 25.04.2022 and 31.05.2022  
(ii) Letter No. HQ-13023/1/2020-Auth-I/HQ/2084 dated 20.06.2022 and 23.12.2022  
(iii) Letter No. HQ-13029/1/2021-Auth-I/HQ dated 23.12.2022

In order to enhance the security levels of finger print based authentication transaction, UIDAI takes several security measures from time to time to ensure security of authentication transactions and end to end encryption during the authentication process. In this regard, fingerprint devices being used in Aadhaar authentication ecosystem have been upgraded from the currently used fingerprint 1.0 RD to the next generation fingerprint 1.1 RD. First batch of devices have already been certified on 30.10.2022 (website link: <https://uidai.gov.in/en/ecosystem/authentication-devices-documents/biometric-devices.html>). The key features of fingerprint 1.1 Registered Devices (RD) were communicated in details vide letters at reference (i) to all authentication ecosystem partners and also during various Central/State government level workshops organised by UIDAI since notification.

2. Roll out of fingerprint 1.1 RD

Since at present all fingerprint devices in the authentication ecosystem are of 1.0 standards, the fingerprint biometric authentication transactions shall for the time being continue both in 1.0 RD and 1.1 RD. However, to avoid any disruptions in the system, all the existing deployed fingerprint 1.0 RD would be phased out of the authentication ecosystem in a gradual manner. To provide sufficient period for this transition, it has been decided that use of all the existing fingerprint 1.0 RD will be discontinued by 30.06.2024 and thereafter only fingerprint 1.1 RD will be allowed to perform Aadhaar based authentications. Therefore, all AUA/KUAs may like to procure fingerprint 1.1 RD for use in their authentication ecosystem.

3. Phase out of fingerprint L0 RD

(a) UIDAI vide letters No. HQ-13023/1/2020-Auth-1 HQ/2084 dated 20.06.2022 and 23.12.2022 has issued directions to all AUA/KUAs regarding removal of old and deployed L0 RD. The devices whose STQC certification has not been renewed and on which there were nil or fewer transactions reported have already been hot listed w.e.f 01.01.2023. The devices reporting higher authentication transactions would be hot listed on 31.03.2024.

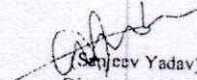
(b) UIDAI vide letter No. HQ- 13029/1/2021-Auth-1-HQ dated 23.12.2022 has also asked all AUA/KUA to identify the L0 registered devices having low authentication success rate (below 30%) or are more than five years old vintage and to remove such devices from the authentication ecosystem in a phased manner.

(c) Timelines for phase out of fingerprint L0 Registered devices are as follows:

Date	Roll out Plan of fingerprint L0 compliant Registered Device	Remarks
31/03/2023	Fingerprint L0 RD deployed before 31.12.2014	AUA/KUA to give self declaration, that no fingerprint L0 RD deployed are of before 31.12.2014
30/06/2023	Fingerprint L0 RD deployed before 31.12.2016	AUA/KUA to give self declaration, that no fingerprint L0 RD deployed are of before 31.12.2016
31/12/2023	Fingerprint L0 RD deployed before 31.12.2019	AUA/KUA to give self declaration, that no fingerprint L0 RD deployed are of before 31.12.2019
30/06/2024	Sunset of fingerprint L0 RD	No authentication transaction will be passed through fingerprint L0 RD

4. As the iris devices are relatively more secure, all the Iris L0 RD will continue to function as present.

5. This issues with the approval of competent authority.

  
 (Sanjeev Yadav)  
 Director (Auth-1)

Copy for information to:

1. All Secretaries of Government of India Ministries/ Departments
2. All Chief Secretaries of States/UT
3. DG, STQC
4. All DDGs, UIDAI (Head Quarters, Tech Centre, Regional offices)

No. HQ-27/06/2022-TNG-TST-HQ  
Government of India  
Ministry of Electronics & Information Technology  
Unique Identification Authority of India  
(Training, Testing & Certification Division)

7<sup>th</sup> Floor, UIDAI Headquarter,  
Bangla Sahib Road, Behind Kali Mandir,  
Gole Market, New Delhi - 110 001  
Dated 21.03.2023

**Standard Operating Procedure (SOP) for Training, Testing and Certification of Authentication Operators**

1. **Purpose :**

To define the Standard Operating procedure (SOP) for the training, testing and certification of Authentication Operators in Aadhaar ecosystem within the framework of Training, Testing & Certification Policy dated 02.01.2023 of UIDAI.

2. **Scope :**

This SOP is applicable to Authentication Operators in the Aadhaar ecosystem.

3. **Eligibility :**

The minimum qualification criteria for an Authentication Operator is as under:

12<sup>th</sup> (Intermediate/Senior Secondary)  
or  
Matriculation + 2 years ITI  
or  
Matriculation + 3 years Polytechnic Diploma

[In case of India Post Payments Bank (IPPB)/Anganwadi Asha Worker - 10<sup>th</sup> (Matriculation)]

4. **Procedure:**

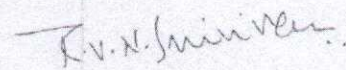
- i. In order to become an Authentication Operator, the candidates duly verified by any active Authentication User Agency (AUA) / e KYC User Agency (KUA), shall be required to register on the link (as per the instructions) given under 'Training, Testing & Certification Ecosystem' available on the UIDAI website (<https://uidai.gov.in>). Any candidate attempting to register with incorrect AUA/Sub-AUA, KUA/Sub-KUA and/or multiple registrations with single mobile number / email id shall be not be entertained. (Candidates without authorization of an active AUA/Sub-AUA, KUA/Sub-KUA are not allowed to register.)
- ii. The candidates shall be required to undergo online training on Learning Management System (LMS) Portal of UIDAI (<https://e-learning.uidai.gov.in/login/index.php>).
- iii. After online training on LMS, the candidate will be required to take an assessment test.
- iv. Once the candidate passes the assessment test, he/ she shall undergo classroom training, provided by the Training Partner, duly identified by UIDAI, followed by a 'Certification Examination'.

- v. For appearing in 'Certification Examination', the candidate should carry the authorization letter (in original) issued from the AUA/ Sub-AUA, KUA/Sub- KUA; **else the candidate will not be allowed to appear for the examination.** The format of Authorization letter is enclosed as Annexure 'A'.
- vi. Passing in the above said 'Authentication Certification Examination' Certificate with three (3) years validity will be issued to candidate. In case, the candidate fails in the said 'Certification Examination', there should be a gap of minimum of 1 (one) month for re-appearing in the next Certification Examination.
- vii. Once certification is granted, the Operators shall be required to go for classroom training once in 3 years.
- viii. The Operators will be required to reappear in the Certification Examination, within 6 (six) months from the expiry of the current Certificate validity. Reappearance and passing in Certification Examination will extend the validity of existing Certificate for further three (3) years from its date of expiry. In case, the candidate fails in Certification Examination, there will be a gap of minimum 15 days for re-appearing in Certification Examination.

5. **Re-certification of existing Authentication Operators :**

All the AUA/ Sub-AUA, KUA/Sub- KUA shall ensure that the Authentication Operators in Aadhaar ecosystem have passed certification examination **before '30<sup>th</sup> June, 2024'**.

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(RVN Srinivas)  
Director, TT&C Division

Authorization Letter Format

Letter No :- .....

Date:-DD/MM/YYYY

**TO WHOM IT MAY CONCERN**

This is to authorize Sh./Smt./Ms./Kumari .....

S/D/W of Sh.....having

Aadhar No. ....to register for Authentication

Operator Examination.

Name and Code of AUA/ Sub-AUA, KUA/Sub- KUA .....

Authorization is valid for one month only. In case the candidate fails to appear in Exam in a month, He/She has to obtain the authorization again.



Signature & Code of AUA/ Sub-AUA,  
KUA/Sub- KUA with Stamp

