

F.No. 4(4)/57/122/2012/UIDAI/Pt
Government of India
Ministry of Electronics & IT
Unique Identification Authority of India (UIDAI)
(E & U Division)

UIDAI Hqrs Building,
Bangla Sahib Road, New Delhi-01
Date: 31st Dec, 2018

Circular

Sub:- Testing and certification of Aadhaar enrolment kit regarding.

Ref. : Circular No. 1. 4(4)/57/122/2012/E&U dated 23/10/2017
2. Email dated 28 Nov, 2018

Vide above referred circulars, System integrators (SIs) were required to get Aadhaar enrolment kits comprising of specific make and model of devices, tested and certified at any of the Regional office/ Tech Center of UIDAI for its working with ECMP as well inter-operability of the devices. After successful testing, a certificate is provided to SI in the prescribed format.

2. The specification of Aadhaar Enrolment kit has also been upgraded and same is attached.

3. It has been decided that as part of certification following shall be provided by OEM of Biometric Devices (Slap Scanner / IRIS) :

(a) Standard drivers for the devices :-

- (i) Windows 7 to 10 – both 32 bit and 64 bit
- (ii) Ubuntu (from 10.04 to 18.04) 32 bit and 64 bit

(b) SDK supporting Java and .Net for both Windows and Linux drivers as at (a).


(c) VDMs with source code based on the publicly available drivers and SDK versions.

4. In view of the above, it has been decided that all device certification issued by UIDAI till date stands cancelled and SIs are required to reapply for testing and certification afresh with above requirements, to any of the UIDAI's Regional offices / Tech Center.

5. The new format for issue of certificate is attached.

6. All regional Offices / Tech Center may facilitate vendors for testing of the devices and after due diligence, the reports shall be submitted to Hqrs for its concurrence before issuing the certificates by RO/ Tech Center.

5. This has approval of ...DDG (E&U).


(Prabhakaran C.R.)
Dy. Director

Encl: a/a

To,

All Regional offices and Tech Center UIDAI
All System integrators / OEMs.
File.

Aadhaar Enrolment Kit

Aadhaar enrolment kit consists of a set of hardware devices required to carry out successful Aadhaar enrolment & update. This set of devices comprises of following devices.

- I. Laptop/desktop
- II. Monitor
- III. Multifunction printer/scanner
- IV. White screen
- V. Focus Light
- VI. Surge Protector spike
- VII. Iris Scanner
- VIII. Camera
- IX. Slap scanner
- X. GPS Device

1. All these devices shall be as per UIDAI's specifications.
2. Biometric devices (Slap/Iris Scanner) shall be STQC certified.
3. Complete kit warranty shall be for 3 years except White screen, Focus light & surge protector.
4. During warranty, faulty equipment's shall be replaced/repaired within 7 days.
5. Aadhaar Enrolment Kit comprising of specific make/model of device shall be UIDAI certified for its working with latest UIDAI's enrolment client (ECMP)
6. The OEMs of Biometric devices to provide following to UIDAI :
 - A. Standard drivers for their biometric devices for following Operating software.
 - i. Windows 7 to 10 – both 32 bit and 64 bit
 - ii. Ubuntu (from 10.04 to 18.04) 32 bit and 64 bit
 - B. SDK supporting Java and .Net for both Windows and Linux drivers as at (A).
 - C. VDMs with source code based on the publicly available drivers and SDK versions.

Minimum Specification of Aadhaar Enrolment Equipment

Item S.1.1. – Laptop/Desktop

Specification	Details
Machine Form Factor	Desktop/Laptop
Model	From Top 5 vendors as per latest IDC report
CPU	3.2-GHz base frequency Quad Core or later (DeskTop)/ 1.9 Ghz Quad core base frequency or later (Laptop)
Display	Minimum 14" HD Anti-Glare (16:9)
Connectivity	Should have built-in support for Bluetooth 4.0, Wi-Fi (IEEE 802.11b/g/n) and Ethernet (10/1000 Base-T), Bluetooth/WIFI not required incase of Desktop
MEMORY	8-GB DDR4 RAM or higher expandable up to 16-GB with 1DIMM SLOT FREE
Webcam	Built-in webcam with minimum High Definition 720p, not required in case of Desktop
HDD	Minimum 500GB (or Higher) @7200 rpm Hard Disk
Input / Output Ports	One HDMI
	One VGA, 2 in case of laptop
	Dedicated Minimum 5 USB 2.0 port*
	One Ethernet (RJ-45)
Battery Backup	8hrs backup time in case of laptop /0.5KVA UPS with 30 min backup time For desktop
Chipset	Integrated with CPU or equivalent
Graphics	Integrated Graphics
Keyboard	Integrated for laptop sized (Minimum 84 Keys) Windows compatible Spill-resistant, standard keyboard in case of Desktop
Touchpad	Wide Touchpad below keyboard for laptop, Mouse in case of desktop
Preloaded OS	Windows 10 professional
ACCESSORIES	Laptop carrying case/not in case of desktop
WARRANTY	3 years comprehensive onsite-warranty. BATTERY AND POWER ADAPTER WOULD HAVE ONE YEAR WARRANTY
ANTI-VIRUS	For End Point Security

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**In case the laptop has less than 5 USB 2.0 ports, then a USB Hub with multiple USB connections (enabling 5 devices plug-in through USB port) should be provided at no extra cost*

Item S.1.2. – Monitor

Specification	Details
OEM	Among the “Leaders” Quadrant in the India region in any of the previous two Quarters as published in IDC / Gartner / Frost and Sullivan report for the PC / Laptop / Monitors.
Size	15-16 inch or higher
Type	LCD
Resolution	1024 x 768 or above

Item S.1.3. - Multi Functional Device (MFD)

Specification	Details
FUNCTION	PRINT COPY SCAN
DUTY CYCLE IN PAGES	3000 PAGES per month
PPM – BLACK (A4)	18 PPM
Model	From Top 5 vendors as per latest IDC report
RESOLUTION	600X600 DPI
MEDIA USED	Ink tank for low cost running
CUSTOM MEDIA SIZE	UPTO LEGAL
STANDARD OPERATING SYSTEM SUPPORTED	Compatible with Windows 8, Windows 10 and earlier versions of Windows (XP, Vista) and Linux
SCAN RESOLUTION	600X600 DPI OPTICAL
BIT/COLOR DEPTH	24 BITS
COPY SPEED BLACK	18 CPM
COPY RESOLUTION	600 X 600 DPI

Item S.1.4. – White Screen

Specification	Details
Size	4 X 5 ft stand mountable / wall mountable

Accessories	Stand
Non-Reflecting	Yes
Opaque	Yes

Item S.1.5 – Focus Light

Specification	Details
Capacity	60W
Accessories	Stand, 2Mrts Wire and on/off Switch near the operator

Item S.1.6. – Surge Protector Spike

Specification	Details
General	6 nos. of 5A sockets (4 Indian style + 2 International Style), Fuse, on/off Switch and ISO mark

Item S.2.1. – Iris Device Specification

(http://www.stqc.gov.in/sites/upload_files/stqc/files/BDCS-03-08.pdf)

Specification	Stationary (mounted: wall, tripod or stand) ¹	Hand-held ²	Hand-held with alignment aid ³
Iris Diameter (In pixel)	> 210		
Spatial Resolution Pixel Resolution	> 60% @ 4.0 Lp/mm > 16 Pixels/mm		
# of simultaneous captured	2		

¹Stationary: Any capture process where the device is stationary and the subject is required to position and rest himself/herself

² Hand-held: Operator operates and holds the camera and the subject is stationary. ³Alignment aid: Camera has mechanical fixture for alignment. Optical viewfinder is not considered alignment aid.

Specification	Stationary (mounted: wall, tripod or stand) ¹	Hand-held ²	Hand-held with alignment aid ³
eyes ⁴			
Viewfinder	External	Internal	External or Internal
Capture distance	> 750 mm	> 50 mm	> 20 mm

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Capture volume (width/height/depth)	> 250x500x500mm	> 20x15x12mm	> 20x15x12mm
Exposure time	< 15ms	< 33 ms	< 33 ms
Imaging wavelength	700-900 nm		
Spectral Spread	Power in any 100nm band > 35% of total power		
Scan type	Progressive		
Image margins	Left & right: 0.50x iris diameter, Top & bottom: 0.25x iris diameter		
Pixel depth	> 8 bits/pixel		
Image evaluation frame rate	> 5 frames/sec, continuous image capture		
Capture mode	Auto capture with built-in quality check (incorporates NIST quality considerations)		
Sensor signal to noise ratio	> 36 DB		
Connectivity ⁵	USB 2, USB-IF certified Networked (TCP/IP)	Or	USB 2, USB-IF certified
Power	USB or independent PS		
Weight	NA	< 1 kg	< 1 kg
Dimension	<300 x 100 x 300 mm	< 220 x 200 x 100 mm	< 220 x 200 x 100 mm
Operating temperature	0-49C		
Humidity	10 – 90% non-condensing		
Durability/Shock	IP54		
Safety Standard	Exempt Group per IEC 62471:2006-07		
Standards	FCC Class A, RoHS		

⁴ Considered simultaneous if second eye is captured within 2 seconds of first eye done without moving the device.

⁵ Total of only 1 USB port will be available for connectivity and power

Specification	Stationary (mounted: wall, tripod or stand) ¹	Hand-held ²	Hand-held with alignment aid ³
Software AP	Compliant with latest UIDAI Device Capture API Specifications. Linux/Windows 64 bit VDM ready certified by UIDAI		

Item S.2.2 –Camera

(http://www.stqc.gov.in/sites/upload_files/stqc/files/BDCS-03-08.pdf)

Specification	Details
Capture Mode	Plain live capture
Image Quality	Full Frontal (0x01) as per ISO/IEC 19794-5
Minimum Resolution	800 x 600
Capture Mode	Manual Capture with Auto Focus and Auto Lighting Adjustment
Sensor	>2 Mega Pixel Native
Connectivity ⁶	High Speed USB 2.0, USB-IF certified
Lens	Fixed, SLR
Power	Through USB/Independent PS/Lithium Ion preferred to AA/AAA batteries
Mount	Tripod
Operating Temperature	0 to 50 degree Celsius
Humidity	10 – 90%
Safety Standard	UL
Software API	Compliant with latest UIDAI Device Capture API Specifications
Durability / Shock	IP 54

Note: Total of only 1 USB port shall be available for connectivity and power

Item S.2.3. – Finger Print Device Specification

(http://www.stqc.gov.in/sites/upload_files/stqc/files/BDCS-03-08.pdf)

Specification	Details
Capture mode	Plain live scan capture
Image Acquisition Requirements	Setting level 31 or higher (Section 9.1 of Biometric Design Standards for UID Applications V1.0)
Image evaluation frame rate	> 3 frames/sec, continuous image capture
Capture mode	Auto capture with built-in quality check (incorporates NIST

⁶ Total of only 1 USB port will be available for connectivity and power

Specification	Details
	quality considerations)
Capture area	> 76mm x 80mm

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Connectivity ⁷	USB 2, USB-IF certified
Power	Through USB
Dimension (W X H X D)	< 160mm x 160mm x 160mm
Weight	Maximum 2.5 Kg.
Operating temperature	0 – 50 C
Humidity	10 – 90% non-condensing
Durability / Shock	IP 54
Standards	UL certified (if applicable). Meets ISO 19794-4:2005 Section 7 and Annex A certification requirements (IAFIS Appendix F certified).
Software API	Compliant with latest UIDAI Device Capture API Specifications Linux/Windows 64 bit VDM ready certified by UIDAI

Note: Total of only 1 USB port shall be available for connectivity and power

Item S.2.4. – GPS Device

Specification	Details
General	The GPS device should be certified by UIDAI as per GPS related OM 4(4)/57/122/2016/E&U-Pt Note: List of approved GPS vendors are available in the UIDAI website, www.uidai.gov.in
Accessories	With all necessary required cables and accessories to connect to the PC/Laptop
Warranty	3 years Comprehensive on-site Warranty

⁷ Total of only 1 USB port will be available for connectivity and power

**SPECIAL TERMS AND & CONDITIONS FOR AADHAAR
ENROLMENT KIT**

1. Installation & commissioning: Bidder shall provide Remote support Facility for installation of Aadhaar Enrolment Kit
2. Delivery Period:-Bidder shall complete the entire delivery to consignee within 30 days from date of purchase order.
3. Performance bank guarantee -, Bidder shall submit the PBG of 10% of the contract value. to the purchaser before payment is released

4. Payments: 100 percent of the payment shall be made within 10 days of supply of Aadhaar enrolment kit to consignee after its acceptance & submission of PBG .
5. Warranty for the complete kit except white screen, Focus light & surge protector shall be 3 years.
6. SLA: Incase failing to replace/repair of faulty equipment's within 7days (equipment's within warranty), Rs100 penalty per day per equipment till the replacement/ repair shall be deducted from PBG.
7. The ceiling price for Aadhaar enrolment kit shall be Rs 1.5 lakh which may be set on the gem portal in such a way that same is not visible to the sellers but the offered price more than the ceiling price shall not be accepted in the gem portal.