Compliance checklist for certifying compliance with controls that the AUA/KUA is required to have in place

Version 1.0 [issued in March 2024]

Important note: Wherever a control description requires AUA/KUA to ensure or do anything, the same shall be reported as compliant if and only if the auditor finds that the same is being complied with and, further, that appropriate policies, procedures, mechanisms, resources and technical enablements are in place to secure compliance with the same on an ongoing basis.

Control no.	Short title	Control description	Compliance status (Compliant / Non- compliant / Not applicable)	Auditor's observation	Comments of AUA/KUA management
A.	Information secu	irity governance			
1.	Security organisation and CISO function	AUA/KUA should ensure that it has a designated Chief Information Security Officer (CISO) function that oversees information security governance and compliances. The CISO should have independent reporting to its Board or other governing body or chief executive.			
2.	Appointment of management and technical single point of contact	AUA/KUA should appoint a Management Single Point of Contact (MPOC) and Technical Single Point of Contact (TPOC) that should oversee the management of the authentication application and Aadhaar related activities. MPOC/TPOC should ensure consistent communication with UIDAI on Aadhaar related requirements and compliances.			

		Any change in MPOC/TPOC should be		
		communicated to UIDAL in a timely		
		manner		
2	Information	AUA/KUA should have an information		
5.		AUA/KUA should have an information		
	security policy	security policy and information security		
	and procedure	procedures in accordance with industry		
		leading standards, such as ISO27001		
		(ISMS), NIST Cyber Security Framework,		
		CSA Framework and ISO27701 (PIMS).		
		The entity's information security policy		
		should also address the security aspects of		
		Aadhaar, as provided under the Aadhaar		
		Act, regulations and specifications.		
4.	Aadhaar	AUA/KUA should ensure that the		
	authentication	authentication application design		
	application	architecture is documented and validated		
	design	by UIDAI Technology Centre and covers		
		Aadhaar security requirements.		
5.	Aadhaar	AUA/KUA should ensure that the Aadhaar		
	authentication	data flow is properly documented for its		
	application	AUA/KUA applications and those of its		
	design	Sub-AUAs and Sub-KUAs.		
6.	Risk assessment	AUA/KUA should implement process and		
		procedure to perform periodic (at least		
		annual) information security risk		
		assessment of its ICT infrastructure		
		supporting the authentication application.		

		Further, entity should also perform risk			
		assessment of its third party suppliers /			
		vendors having access to the Aadhaar			
		application and the data of Aadhaar			
		number holders.			
		Security risks should be documented and			
		reviewed periodically by Security Officers			
		/ CISO / those in charge of the security			
		governance of the AUA/KUA and its Sub-			
		AUAs and Sub-KUAs.			
7.	Third party	AUA/KUA should ensure that it has a third			
	information	party information security policy that lays			
	security policy	down the security controls and			
		compliances that its third party vendors,			
		suppliers, ICT service providers and ICT			
		support vendors (<i>e.g.</i> , third party /			
		outsource application developers.			
		infrastructure support vendors, data centre			
		hosting agency, cloud service providers			
		etc.) are obligated to adhere to.			
B.	Compliance reg	uirement			
			1	I	
8.	IPR provisions	The AUA/KUA should be in compliance			
	contained in	with the intellectual property provisions			
	UIDAI's	contained in UIDAI's Aadhaar User			
	Aadhaar User	Agency Agreement (latest version).			
	Agency				
	Agreement				
	(latest version)				

9.	Annual	AUA/KUA should ensure that its		
	information	operations and systems are audited by an		
	security audit by	information systems auditor certified by a		
	CERT-In-	recognised body on an annual basis and on		
	empanelled	need basis to ensure compliance with		
	auditor	UIDAI's standards and specifications. The		
		audit report should be shared with UIDAI.		
		If any non-compliance is found as a result		
		of the audit, AUA/KUA should—		
		(a) determine the causes of the non-		
		compliance;		
		(b) evaluate the need for actions to avoid		
		recurrence of the same;		
		(c) determine and enforce the		
		implementation of corrective and		
		preventive actions; and		
		(d) review the corrective actions taken.		
		The annual audit should cover all security		
		controls applicable under the Aadhaar		
		(Data Security) Regulations, 2016.		
10.	Onboarding of	AUA/KUA should ensure that UIDAI is		
	ASA	informed of the ASAs with whom it has		
		entered into agreement to provide		
		necessary infrastructure for ensuring		
		secure network connectivity and related		
		services to it to enable performance of		
		authentication using the Authentication		
		facilities provided by UIDAI.		

11.	Annual	AUA/KUA should ensure that the		
	compliance	operations and systems of its Sub-AUAs		
	audit of Sub-	and Sub-KUAs are audited on an annual		
	AUAs and Sub-	hasis by an information systems auditor		
		certified by a recognised body to ensure		
	ROAS	compliance with such standards and		
		specifications as LUDAL may specify from		
		specifications as OIDAI may specify from		
		shared with UIDAI.		
С.	Data privacy			
12.	Data protection	AUA/KUA should establish a data		
	policy	protection policy addressing, <i>inter alia</i> ,		
		data protection related aspects under—		
		(a) the Aadhaar Act, the regulations made		
		thereunder and the standards and		
		specifications issued by UIDAI from		
		time to time;		
		(b) the Information Technology Act, 2000		
		("IT Act"); and		
		(c) till the coming into force of the		
		Digital Personal Data Protection Act,		
		2023 ("DPDP Act"), the Information		
		Technology (Reasonable Security		
		Practices and Procedures and		
		Sensitive Personal Data or		
		Information) Rules 2011 ("SPDI		
		Rules") and on and from the date of		
		coming into force of the DPDP Act		
		the said A at and the mules made		
		thereworder		
		tnereunder.		

		Such policy should be published on the website of AUA/KUA and the URL for the same should be mentioned.		
13.	Consent of Aadhaar number holder	The AUA/KUA should obtain consent of the Aadhaar number holder or, in case of a child, the consent of the parent or legal guardian of such child, before collecting		
		their identity information for the purposes of authentication. The consent should be obtained preferably in electronic form.		
14.	Information to Aadhaar number holder on the nature of information that will be shared upon performance of authentication	At the time of authentication, before obtaining consent, AUA/KUA should inform the Aadhaar number holder or, in case of a child, the parent or legal guardian of such child, regarding the nature of information that will be shared by UIDAI upon performance of authentication.		
15.	Information to Aadhaar number holder on use of information received during authentication	At the time of authentication, before obtaining consent, AUA/KUA should inform the Aadhaar number holder or, in case of a child, the consent of the parent or legal guardian of such child, of the uses to which the information received during authentication may be put to by it.		

16.	Alternative	At the time of authentication, before		
	mechanisms for	obtaining consent, AUA/KUA should		
	submission of	inform the Aadhaar number holder or, in		
	identity	case of a child, the parent or legal guardian		
	information	of such child, of the alternatives to		
		submission of identity information.		
17.	Consent	The AUA/KUA should ensure that the		
	communication	consent information is communicated in		
	in local	local language.		
	language			
		The AUA/KUA should also ensure that, on		
		and from the date of coming into force of		
		sub-section (3) of section 5 of the DPDP		
		Act, the Aadhaar number holder has the		
		option to access the contents of the notice		
		referred to in sub-sections (1) and (2) of		
		the said section and the request for consent		
		referred to in sub-section (3) of section 6 in		
		English or any language specified in the		
		Eighth Schedule to the Constitution.		
18.	Communication	The AUA/KUA should make provisions		
	of consent	for communication of consent related		
	related	information to persons with visual/hearing		
	information to	disability in an appropriate manner.		
	persons with			
	visual/hearing			
	disability			
19.	Consent log	AUA/KUA should maintain the logs for—		
	retention	(a) record of consent of the Aadhaar		
		number holder for authentication;		

		and		
		(b) record of disclosure of information,		
		as mentioned in Control numbers		
		13, 14, 15, 16, 17 and 18 above, to		
		the Aadhaar number holder at the		
		time of authentication.		
		For any given Aadhaar number holder,		
		whose identity information was collected,		
		the AUA/KUA should be able to		
		demonstrate that consent was taken and		
		disclosure of information was made.		
20.	Explicit consent;	AUA/KUA should ensure that the consent		
	no umbrella	taken from the Aadhaar number holder		
	consent	should in accordance with the provisions		
		of the Aadhaar Act, 2016 and the		
		regulations made thereunder; no umbrella		
		consent should be taken for sharing e-KYC		
		or Aadhaar number of the Aadhaar number		
		holders with other entities.		
		The AUA/KUA should also ensure that, on		
		and from the date of coming into force of		
		sub-section (1) of section 5 and sub-section		
		(1) of section 6 of the DPDP Act, the		
		consent taken from the Aadhaar number		
		holder is in accordance with the applicable		
		provisions of sections 5 and 6 of the said		
		Act.		
D.	Asset manageme	ent		

21. 22.	Biometric device management Biometric device management	AUA/KUA should capture the biometric information of the Aadhaar number holder using certified and registered biometric devices as per standards specified by UIDAI from time to time. Devices reporting transactions at a very low frequency over time may be potential targets of frauds. Therefore, AUA/KUA	
		should maintain oversignt in respect of the same and identify and remove such devices from the system.	
23.	Biometric device management	AUA/KUA should monitor the operations of its devices and equipment, on periodic basis, for compliance with the terms and conditions, standards, directions and specifications, issued and communicated by UIDAI from time to time.	
24.	Biometric device management	AUA/KUA should carry out analysis of devices with high failure rates and replace them.	
25.	End-point security	AUA/KUA should ensure that biometric deploying devices are connected with end- point systems that have the latest operating system (OS) specifications (as of March 2024, at least Windows 10 and above and Android OS 10 and above), and that	

		systems based on an OS that is end-of-life or end-of-support are not deployed or used.		
26.	Security hardening of assets	AUA/KUA should ensure all the end-point devices and assets are used only after hardening to reduce/eliminate the attack vector and condense the system attack surface.		
27.	Asset inventory maintenance	AUA/KUA should ensure that all assets (business applications, operating systems, databases, network etc.) used for the purpose of delivering services to Aadhaar number holders using Aadhaar Authentication facilities are identified, labelled and classified. AUA/KUA should record the details regarding assets used and maintain and update the asset inventory on a continuous basis. Ownership of authentication assets should be clearly documented.		
28.	Maintenance of software inventory	AUA/KUA should ensure that it uses only licensed software for Aadhaar authentication related infrastructure environment. Record of all software licenses should be kept and updated regularly.		

29.	Asset disposal	AUA/KUA should define a procedure for		
	procedure	disposal of the information assets being		
		used for authentication operations.		
		Information systems and documents		
		containing Aadhaar related information		
		should be disposed of securely.		
30.	Asset repair	AUA/KUA should, before consigning any		
	procedure and	asset for repair, sanitise the same to ensure		
	asset movement	that it does not contain any Aadhaar related		
	logs	data. A register to log the movement of all		
		the assets consigned outside should be		
		maintained.		
31.	Asset repair	AUA/KUA should, in case of in-house		
	procedure	repair of assets, document the details of the		
		original equipment manufacturer (OEM)		
		and maintain the logs of the assets being		
		repaired.		
Е.	Human resource	e security		
32.	Background	AUA/KUA should conduct a background		
	verification and	check and sign a confidentiality agreement		
	signing of	/ non-disclosure agreement (NDA) with all		
	confidentiality	personnel/agency handling Aadhaar related		
	agreement	information. Access to authentication		
		infrastructure should not be granted before		
		signing NDA and completion of		
		background verification (BGV) for		
		personnel.		

33.	Background	AUA/KUA should take an undertaking		
	verification and	from business correspondents (BCs) and		
	signing of	similar entities, Sub-AUAs/Sub-KUAs and		
	confidentiality	other third party contractors regarding		
	agreement with	NDAs and BGVs conducted successfully		
	third-party	for their personnel handling Aadhaar		
	contractors	related data.		
34.	Training and	AUA/KUA should ensure that MPOC,		
	awareness	TPOC and their supporting teams that		
		manage and maintain the authentication		
		application and its underlying		
		infrastructure, are aware of Aadhaar		
		security requirements.		
35.	Operator	AUA/KUA should ensure that the operator		
	qualification	employed for performing authentication		
		functions and maintaining necessary		
		systems, infrastructure and process,		
		possess requisite qualification for		
		undertaking such work.		
36.	Periodic	AUA/KUA should impart information		
	information	security and data privacy trainings to all its		
	security and	personnel as well as those of any BCs,		
	privacy trainings	Sub-AUAs/Sub-KUAs and similar entities,		
	related to	in relation to the use of Aadhaar		
	Aadhaar	Authentication facilities, during induction		
	authentication	of such personnel/entity, on half-yearly		
	operations	basis and as and when changes are made in		
		the authentication ecosystem.		
		AUA/KUA should further ensure that		

		specific and specialised training are		
		imparted for various functional roles		
		involved in the authentication ecosystem		
		and that the same cover all relevant		
		security and data privacy guidelines, as per		
		the UIDAI Information Security Policy for		
		Authentication, Aadhaar Act, 2016 and the		
		regulations made thereunder and circulars,		
		notices etc. issued by UIDAI from time to		
		time.		
		AUA/KUA should also maintain a record		
		of such trainings imparted.		
F.	Incident manage	ement		
37.	Incident	AUA/KUA should ensure that incident		
	management	management framework, including		
	procedure and	forensic investigation, is implemented in		
	RCA procedure	accordance with the requirements under		
		UIDAI's Information Security Policy and		
		circulars. AUA/KUA should perform Root		
		Cause Analysis (RCA) for major incidents		
		identified in its ecosystem as well as that		
		of its sub-contractors, if any.		
38.	Reporting of	AUA/KUA should—		
	incidents to	(a) inform UIDAI misuse of any		
	UIDAI and	information or systems related to the		
	CERT-In	Aadhaar framework or any		
		compromise of Aadhaar related		
		information or systems within its		
		network, and report any		

confidentiality security breach of	
Aadhaar related information to UIDAI	
within 24 hours;	
(b) report cyber incidents as mentioned in	
Annexure I to the directions dated	
28.4.2022 of CERT-In, bearing no.	
20(3)/2022-CERT-In, within 6 hours	
of noticing such incidents or the same	
being brought to their notice; and	
(c) on and from the date of coming into	
force of sub-section (6) of section 8 of	
the DPDP Act, intimation of personal	
data breach to the Board and each	
affected Data Principal, within such	
time as may be prescribed by rules	
made under the said Act.	
39. Incident AUA/KUA should ensure that the Sub-	
reporting AUAs/Sub-KUAs, BCs and other sub-	
requirement for contractors are aware of Aadhaar	
Sub-AUAs/Sub- authentication related incident reporting.	
KUAs and BCs	
G. Access control	
40. Multi-factor AUA/KUA should ensure in the case of	
authentication of assisted devices and applications where	
operator operators need to mandatorily perform	
application functions, that the operator is	
authenticated using a multi-factor	
authentication scheme, such as user id.	
password, Aadhaar authentication. answer	

		hard token, one-time password, voice recognition, biometric data match and PIN.		
41.	Operator logs	AUA/KUA should maintain details of devices and operators employed for the use of Aadhaar Authentication facilities in assisted mode, including proper logs of such operators, along with their name, device ID, date and time, etc. These logs should be verified by AUA/KUA at regular intervals.		
42.	Access provisioning mechanism	AUA/KUA should ensure that only authorised individuals are able to access information facilities such as the authentication application, audit logs, authentication servers, application, source code, information security infrastructure, etc., and Aadhaar processing related information.		
43.	Privilege user access management	AUA/KUA should ensure that systems and procedures are in place for privilege user access management (PAM). Privilege user access should be limited to authorised users only.		
44.	Privilege accounts	AUA/KUA should ensure through the PAM tool that privileged accounts, such as NT Authority, Administrator and root accounts, are accessible only to a limited set of users, and that access to privileged account is not allowed to normal users.		

45.	Periodic access review	AUA/KUA should ensure that access is provided based on least privilege and that access is reviewed periodically (at least half-yearly).		
46.	Access revocation mechanism	Within 24 hours of exit of any personnel, AUA/KUA should revoke the rights and privileges to access or process Aadhaar related information. Upon such revocation, user IDs should be deleted forthwith if not in use.		
47.	Segregation of duties	AUA/KUA should ensure that personnel involved in operational, development or testing functions should not be given additional responsibilities in system administration processes, audit log maintenance, security review of system or processes that may compromise data security. Where segregation of duties is not possible or practicable, the process should include compensating controls, such as monitoring of activities, maintenance and review of audit trails and management supervision.		
48.	Initial password allocation	AUA/KUA should ensure that the allocation of initial passwords is done in a secure manner and that such passwords are changed on first log in.		

49.	Password	AUA/KUA should ensure that passwords
	management	set are complex, with a minimum length of
	guidelines	eight characters and—
		(a) are not based on anything
		somebody else may easily guess or
		obtain using person related
		information, <i>e.g.</i> , name, telephone
		number and date of birth;
		(b) is free of consecutive identical
		characters or all-numeric or all-
		alphabetical groups;
		(c) contain at least one numeric, one
		uppercase letter, one lowercase
		letter and one special character;
		(d) are required to be changed at
		regular intervals (passwords for
		privileged accounts should be
		changed more frequently than
		normal passwords);
		(e) do not allow the use of the last five
		passwords;
		(f) do not allow the username and
		password to be the same for a
		particular user; and
		(a) do not use the same password for
		various UIDAI access needs of a
		particular user.
50.	User account	AUA/KUA should ensure that three
	lockout	successive log-in failures result in the user
		account being locked. End users / operators

		should not be able to log in until their account is unlocked and the password is		
		reset.		
51.	Restriction usage of generic IDs	AUA/KUA should ensure that common or generic or group user IDs are not used.		
H.	Change manager	ment		
52.	Change logs management	AUA/KUA should document all changes to Aadhaar authentication applications, infrastructure, processes and information processing facilities, and maintain change log/register.		
I.	Physical security	7		
53.	Physical security of AUA data centre	AUA/KUA data centre hosting Aadhaar related information should be secured fully and should have access control.		
54.	Security of AUA servers	AUA/KUA should ensure that their servers are placed in an isolated, secure cabinet in the data centre.		
55.	Physical security of AUA/KUA data centre	AUA/KUA data centre and servers should be under 24X7 protection of security guards and CCTV surveillance.		
56.	Physical security of AUA/KUA data centre	AUA/KUA should ensure that access to the data centre is restricted only to authorised individuals and appropriate logs of entry of individuals should be		

		maintained.		
57.	Physical	AUA/KUA should ensure that physical		
	security of	access to the data centre and other		
	AUA/KUA data	restricted areas hosting critical Aadhaar		
	centre	related equipment/information is pre-		
		approved and recorded, along with the		
		date, time and purpose of entry.		
58.	Physical	AUA/KUA should ensure that the		
	security of	movement of all incoming and outgoing		
	AUA/KUA data	assets related to Aadhaar in the AUA/KUA		
	centre	data centre is documented.		
59.	Physical	AUA/KUA should ensure that visible and		
	security of	clearly readable signs/notices notifying		
	AUA/KUA data	areas designated as restricted areas and		
	centre	provisions restricting entry to the same are		
		posted at all points leading to entry to such		
		areas.		
60.	Physical	AUA/KUA should provide lockable		
	security of	cabinets or safes in the data centre and		
	AUA/KUA data	information processing facilities for		
	centre	housing servers containing critical Aadhaar		
		related information. AUA/KUA should		
		deploy label, monitor and test regularly the		
		operation of fire exit doors and fire		
		extinguishing systems.		
61.	Preventive	AUA/KUA should ensure that preventive		
	maintenance	maintenance activities, such as audit of fire		
	activity at data	extinguishers and CCTV, are carried out		
	centre	on a quarterly basis.		

62.	Physical	AUA/KUA should ensure that the data		
	location of	centres hosting servers on which Aadhaar		
	AUA/KUA	related information is stored are within		
	servers	India.		
J.	Data security			
63.	PID encryption	AUA/KUA should ensure that biometric		
	and biometric	data are necessarily encrypted and secured		
	data security	at the time of capture of such information		
		of the Aadhaar number holder, in		
		accordance with such specifications as		
		UIDAI may lay down from time to time.		
64	PID encryption	AUA/KUA should ensure that after		
04.	and biometric	collection of requisite demographic and/or		
	data security	biometric information and/or one-time		
	data security	password (OTP) from the Aadhaar number		
		holder, the client application immediately		
		noted, the cheft application infinediately		
		parameters into a PID block, before		
		transmitting the same, and that the same is		
		sent to the server of the AUA/KUA using		
		secure protocols.		
65.	PID encryption	AUA/KUA should ensure that the PID		
	and biometric	block is encrypted with a dynamic session		
	data security	key using AES 256 symmetric algorithm		
	5	(AES / GCM / No Padding) at the time of		
		capture on the authentication device. The		
		session key should be encrypted with		
		2048-bit UIDAI public key using		

		asymmetric algorithm (RSA/ECB/PKCS1 Padding). In doing so, AUA/KUA should comply with the latest API specification document issued by UIDAI from time to time.		
66.	PID encryption and biometric data security	AUA/KUA should ensure with respect to the operational details referred to against control number 65, that the session key is not stored anywhere except in the memory and that the same is not reused across transactions. Reuse of session key is allowed only when it is used as seed key while using synchronised session key		
< 7		scheme.		
67.	Aadhaar number security	AUA/KUA should ensure that the Aadhaar number / Virtual ID (VID) / ANCS token provided by the Aadhaar number holder for authentication request is not retained by the device operator or within the device or at the AUA/KUA server(s).		
68.	Restriction in storage of Aadhaar number, biometrics and/or eKYC of Aadhaar number holder	AUA/KUA should ensure that under no circumstances assisted devices and any application associated with Aadhaar authentication stores the Aadhaar number, biometrics and/or e-KYC of the Aadhaar number holder.		

69.	Fingerprint	For fingerprint-based biometric		
	biometric data	authentication devices, AUA/KUA should		
	(FMR and FIR)	ensure capture of Finger Minutiae Record		
	capture in single	(FMR) and Finger Image Record (FIR) in		
	PID block	single PID block.		
70.	Security of	AUA/KUA should ensure that the private		
	private keys	key used for digitally signing the		
		authentication request and the licence keys		
		are kept secure and the access to the same		
		is controlled, and that the private key		
		meets such parameters as UIDAI may		
		specify from time to time in the Aadhaar		
		Authentication API Specification		
		document issued by it.		
71.	Use of HSM	AUA/KUA should ensure that key(s) used		
		for digitally signing authentication requests		
		and decrypting e-KYC XML responses are		
		stored only in the Hardware Security		
		Module (HSM), which should be		
		compliant with the latest FIPS 140		
		standard.		
		AUA/KUA should comply with all the		
		requirements of UIDAI circular no. K		
		11020/204/2017-UIDAI (Auth-I), dated		
		22.6.2017 (Implementation of HSM by		
		Entity/ASA).		
72.	Use of HSM	AUA/KUA should have a dedicated, on-		
		premise, HSM set up for the management		
		of security/encryption keys, and should not		

		share the same with any other entity.		
73.	Use of ADV	An AUA/KUA and any other entity which is allowed to store Aadhaar number should collect and store Aadhaar number and any connected data only in a separate, secure database/vault/system, termed as Aadhaar Data Vault (ADV).		
		Such AUA/KUA should ensure that each Aadhaar number is referred to by an additional key, called as reference key, and that mapping of the reference key and Aadhaar number is maintained in ADV.		
74.	Use of Aadhaar data vault (ADV) on cloud	AUA/KUA should ensure that if ADV is hosted on cloud, the ADV cloud service complies with UIDAI's Guidelines for ADV on Cloud. The ADV should be hosted only by Government Community Cloud (GCC) service providers, recognised as such by the Ministry of Electronics and Information Technology.		
75.	Use of ADV on cloud	AUA/KUA having ADV on cloud should get annual SOC2 Type2 examination performed for cloud hosting service. Management review should be performed for non-compliant / qualified controls reported in the SOC2 Type2 reports.		

76.	Use of ADV	AUA/KUA should ensure that Aadhaar		
		numbers along with connected data (such		
		as eKYC XML containing Aadhaar		
		numbers and demographic data), if any, is		
		stored only in a single logical instance of		
		ADV, along with corresponding reference		
		key. AUA/KUA should ensure that		
		appropriate High Availability and Disaster		
		Recovery provisions are made for the		
		vault, with the same level of security.		
77.	Use of ADV	AUA/KUA should ensure that only trusted		
		communications are permitted in and out		
		of the vault; this should ideally be done		
		through APIs/microservices dedicated to		
		obtain the mapping and controlling the		
		access to the APIs/microservices at the		
		application level.		
		AUA/KUA should ensure that any		
		authorised users needing to access such		
		mapping necessarily go through the		
		application for viewing/accessing the data,		
		after appropriate user authentication,		
		authorisation and logging.		
78.	Use of ADV	AUA/KUA should ensure that strong		
		access controls, authentication measures,		
		monitoring and logging of access and		
		raising of necessary alerts for unusual		
		and/or unauthorised attempts to access		
		ADV are implemented.		

79.	End-point	AUA/KUA should ensure that USB access		
	security	on the servers and endpoints is, in the		
		default, restricted for all, and the same is		
		allowed only on approval basis.		
80.	End-point	AUA/KUA should use licensed malware		
	security —	and antivirus solution (preferably Next-		
	antivirus / anti-	Generation antivirus) to protect against		
	malware	malware. The malware/antivirus installed		
		should be configured to update in real		
		time.		
81.	Aadhaar	AUA/KUA should mask Aadhaar numbers		
	information	collected through physical forms or		
	security —	photocopies of Aadhaar letters, by masking		
	Physical	the first eight digits of the Aadhaar		
	Aadhaar	number, before storing physical copies.		
	documents			
82.	Use of security	AUA/KUA and ASA should ensure		
	communication	message security and integrity between		
	protocols	their servers and those of third party		
		entities, such as Sub-AUAs and Sub-		
		KUAs.		
		AUA/KUA should procure digital		
		certificate from a Certifying Authority as		
		defined in the IT Act.		
83.	Restriction on	AUA/KUA, Sub-AUAs, Sub-KUAs,		
	display/	Business Correspondents and other sub-		
	publishing of	contractors performing Aadhaar		
	identity	authentication should ensure that identity		
	information	information is not displayed or disclosed to		

		external agencies or unauthorised persons.	
84.	Restriction in	AUA/KUA should not publish any	
	display/	personal identifiable data including	
	publishing of	Aadhaar in public domain/websites etc.	
	identity		
	information		
85.	Restriction in	AUA/KUA should ensure that display of	
	display/	full Aadhaar number is controlled only for	
	publishing of	the Aadhaar number holder or for such	
	identity	special roles/users of AUA/KUA as have	
	information	functional necessity for the same; by	
		default, all other display should be masked	
		such that only the last four digits of the	
		Aadhaar number are displayed.	
86.	End-point	AUA/KUA should ensure that end-point	
	security	devices used for developing, process and	
		handling Aadhaar data and application	
		timeout after a session is idle for more than	
		30 to 15 minutes, based on the criticality of	
		the application.	
87.	Secure software	AUA/KUA should implement system and	
	development	processes to ensure secure software	
		development practices.	
		Periodic training of developers should be	
		conducted on secure software development	
		practices. Records of such trainings should	

		be maintained.		
88.	Restriction in	AUA/KUA should ensure that there is no		
	local storage of	local storage of Aadhaar number or VID or		
	Aadhaar data /	the PID block on the system, volatile		
	PII information	memory or the database.		
		In case of a mobile application, AUA/KUA		
		should ensure that there is no local storage		
		of Aadnaar number of the PID block in the		
80	Enomention of	ALLA/KLLA should ansure that a KNC date		
69.	stored eKVC	is stored in an encrypted manner in		
	data	database tables		
	Gata	database tables.		
90.	Patch	AUA/KUA should ensure that the patch		
	management	management process is implemented for		
		applying patches to information systems.		
		Patches should be updated at both the		
		application and the server and network		
		levels.		
		AUA/KUA should ensure that either N or		
IZ.	Notesee 1	IN-1 patches are maintained.		
К.	INCLWORK SECURITY	y		

91.	Network	AUA/KUA should establish secure	
	connectivity	network connectivity between AUA/KUA	
	with ASA	and its Sub-AUAs, Sub-KUAs, sub-	
		contractors and ASAs, and should connect	
		with ASAs only through secure leased	
		lines or similar secure private lines. If a	
		public network is used, only a secure	
		channel should be used.	
92.	Segregation of	AUA/KUA should ensure that its servers	
	AUA servers	reside in a segregated network segment	
	network	isolated from the rest of the network of the	
		AUA/KUA organisation. The AUA/KUA	
		servers should be dedicated for online	
		Aadhaar authentication purposes and	
		should not be used for any other activities	
		not related to Aadhaar.	
93.	Firewall access	AUA/KUA should ensure that	
	of network	authentication application servers and	
		infrastructure are hosted behind a firewall	
		and that firewall rules block incoming	
		access requests to the AUA/KUA server	
		from all sources other than whitelisted IP	
		addresses/zones.	
94.	NIPS/IDS	AUA/KUA should ensure that network	
	implementation	intrusion and prevention systems (NIPS)	
		and intrusion detection system (IDS) are	
		implemented to safeguard the network	
		from external attacks / DDoS attacks.	

95	Network	AUA/KUA should ensure that Internet		
	security	access on systems are restricted to		
	security	necessary or work-related websites and		
		that access to web portals known for		
		niat access to web portais known for		
		pirated software, gambing etc. are		
		restricted.		
96.	Encryption of	AUA/KUA should ensure that		
	data on network	transmission of Aadhaar number across		
		open, public networks is always encrypted,		
		using the latest version of Transport Layer		
		Security (TLS) configuration.		
L.	Operations secur	rity		
97.	Segregation of	AUA/KUA should ensure that the testing		
	testing and	and production facilities/environments are		
	production	physically and/or logically separated.		
	environments			
		AUA/KUA should ensure that		
		authentication application testing utilises		
		test data / non-production data and that		
		Aadhaar number holder's identity data are		
		not used for testing the application.		
98.	Restrictions on	AUA/KUA personnel should not		
	designing/	intentionally write, generate, compile, copy		
	compiling	or attempt to introduce any computer code		
	malicious code	designed to damage or otherwise hinder		
		the performance of, or access to, any		
		Aadhaar information.		

99.	License key /	AUA/KUA should ensure that license keys		
	encryption keys	are kept secure and access controlled, and		
	security	that separate license keys are generated for		
		their Sub-AUAs and Sub-KUAs from		
		UIDAI's portal and kept secure and access		
		to the same kept controlled.		
100.	Implementation	AUA/KUA must provide in their		
	of Virtual ID	authentication application the option for an		
		Aadhaar number holder to use a Virtual ID		
		(VID) for authentication, in place of their		
		Aadhaar number.		
101.	UID Token	AUA/KUA should make provision to store		
		UID tokens in their database.		
102.	Restriction on	AUA/KUA should ensure that Aadhaar		
	the use of	number and VID are never used as		
	Aadhaar as	domain-specific identifiers and that		
	domain-specific	domain-specific identifiers are revoked		
	identifier	and/or reissued. For example, instead of		
		using Aadhaar number as bank customer		
		ID or license number or student ID etc., a		
		local, domain-specific identifier mapped in		
		the back-end database should be used.		
103.	Unique device	AUA/KUA should ensure that each		
	code of each	authentication device has a unique device		
	device	code and that a unique transaction number		
		is automatically generated by the		
		authentication device and incremented for		
		each transaction processed.		

104.	Back-up / alternative identity authentication	AUA/KUA should implement exception- handling mechanisms and back-up identity authentication mechanisms to ensure seamless provision of authentication		
	mechanism	delivery of services to Aadhaar number		
105	Notification to	noiders.		
105.	A adhear number	number helder of the success or failure of		
	holders	and authentication request through email		
	noiders	and/or SMS. Such notification should shall		
		include the name of the requesting entity		
		the date and time of authentication, the		
		authentication response code (in case of		
		online authentication), the last four digits		
		of the Aadhaar number and the purpose of		
		authentication, as the case may be.		
		In case of authentication failure, the		
		AUA/KUA should, in clear and precise		
		language, inform the Aadhaar number		
		folder of the reasons of authentication		
		cancelled" "Andhaar deactivated"		
		"Aadhaar locked" "Aadhaar omitted"		
		"Aadhaar suspended" and "Biometrics		
		locked".		
106.	Establishment of	AUA/KUA should have an effective		
	grievance	grievance handling mechanism and		
	handling	provide the same through multiple		
	mechanism	channels.		

107.	Grievance	AUA/KUA should ensure that its Sub-		
	handling	AUAs and Sub-KUAs have a grievance		
	mechanism of	handling mechanism to receive and address		
	Sub-AUAs and	complaints from Aadhaar number holders		
	Sub-KUAs	regarding authentication facilities		
		performed by them.		
108.	Aadhaar	Where applicable, AUA/KUA should		
	authentication	comply with notification no.		
	for banks	13012/79/2017/Legal-UIDAI (No. 6 of		
		2017), dated 19.12.2017, regarding the		
		process for placing and overriding bank		
		accounts on Aadhaar Payments Bridge		
		(APB) — National Payments Corporation		
		of India (NPCI) Mapper. In particular, the		
		AUA/KUA should comply with the		
		following:		
		(a) Override request pertaining to an		
		Aadhaar number holder should be		
		accompanied by the name of		
		his/her current bank on the APB		
		mapper and confirmation from the		
		requesting bank that it has obtained		
		the requisite consent of the Aadhaar		
		holder for switching to the		
		requesting bank on the mapper.		
		(b) Send request for mapping of a new		
		account or overriding an existing		
		bank account to NPCI only after		
		taking explicit, informed consent of		
		the customer.	 	

(c) Inform each accountholder through	
SMS and email, within 24 hours,	
that a request has been sent to	
NPCI to put his/her bank account	
on the mapper or, as the case may	
be, to change his bank account on	
the NPCI mapper (while providing	
the name of current bank on the	
mapper and the last four digits of	
the account number of the new	
bank, along with the bank name)	
and, in case he/she does not want to	
put his/her new bank account on	
the mapper, provide the customer	
an option to reverse such mapping.	
(d) If an accountholder does not have	
an email or mobile number and	
communication cannot be sent,	
his/her physical signature on a	
paper consent form should be	
obtained prior to sending the	
request to the NPCI mapper.	
(e) The records of consents obtained in	
(b) and the communications made	
in items (a), (b) and (c) and	
scanned copy of the consent form	
in (d) should be retained for seven	
years by the bank, in accordance	
with the Aadhaar (Authentication	
and Offline Verification)	

	Application secu	Regulations, 2021. (f) Make available the aforesaid records at the time of audit, in accordance with the Aadhaar (Authentication and Offline Verification) Regulations, 2021.		
109.	Compliance to API specifications and application security	AUA/KUA should ensure that the client applications and software used for authentication should conform to the latest API standards and specifications laid down by UIDAI from time to time, and that its Sub-AUAs and Sub-KUAs use client applications or software development kit (SDK) developed or digitally signed by the AUA/KUA.		
110.	API whitelisting and API gateway implementation	AUA/KUA should ensure that it has API whitelist implemented to limit the data exchange using only authorised APIs and with whitelisted IP addresses. AUA/KUA should also ensure that API gateway is deployed for centralised security enforcement, monitoring and management.		

		AUA/KUA should ensure that rate limitation and throttling mechanisms are implemented to prevent abuse of API and Distributed Denial of Service (DDoS) attacks.		
		AUA/KUA should ensure that Cross- Origin Resource Sharing (CORS) parameters are configured to restrict unauthorised domains from accessing APIs from the client side.		
111.	Source code review by CERT-In- empanelled auditor	AUA/KUA should perform source code review of the modules and applications used for authentication and e-KYC and undergo audit by a CERT-In-empanelled auditor.		
112.	SAST/DAST application audit	AUA/KUA should ensure that authentication application security assessment {including static application security testing (SAST) and dynamic application security testing (DAST)} is performed at least annually or at the time of major changes to the authentication application, and that all vulnerabilities are addressed for remediation and no vulnerable third party components are used by the authentication application.		
113.	Vulnerability assessment	AUA/KUA should plan organisation information security policy, inclusive of		

		vulnerability assessment and penetration		
		testing on its network, infrastructure and		
		applications.		
114.	Configuration	AUA/KUA should ensure that		
	reviews and	authentication applications are integrated		
	system	with IDAM, PIM/PAM and SIEM.		
	walkthrough			
115.	Application	AUA/KUA should ensure that the		
	code review	passwords, tokens, security keys and		
		licenses are not hardcoded in the		
		application code.		
N.	Logging and mo	nitoring		
116.	Authentication	AUA/KUA should maintain logs of the		
	log maintenance	authentication transactions processed by it,		
		which should contain the following		
		transaction details:		
		(a) specified parameters of		
		authentication request submitted;		
		(b) specified parameters received as		
		authentication response;		
		(c) the record of disclosure of		
		information to the Aadhaar number		
		holder at the time of authentication;		
		and		
		(d) record of consent of the Aadhaar		
		number holder for authentication,		
		but shall not, in any event, retain		
		the PID information, Aadhaar		
		number / VID.		

117.	Authentication	AUA/KUA should ensure that the logs of		
	log retention	authentication transactions are stored		
		online for audit purposes for two years		
		and, thereafter, archived for another five		
		years.		
118.	Retention of	AUA/KUA should maintain auditable logs		
	transaction logs	of all such transactions where e-KYC data		
	of Sub-	has been shared with any of its Sub-AUAs		
	AUA/Sub-KUA	and Sub-KUAs, for such period as UIDAI		
		may specify from time to time.		
119.	Security	AUA/KUA should ensure that the		
	incident	event/security logs recording critical user-		
	recording	activities, exceptions and security events		
		are enabled and stored to assist any future		
		investigation and enable access control		
		monitoring.		
120.	Security	AUA/KUA should ensure that regular		
	incident	monitoring of event/security logs takes		
	monitoring	place to detect unauthorised use of		
		information systems and that results of the		
		same are recorded. Further, access to audit		
		trails and event logs should be provided to		
		authorised personnel only.		
121.	Clock	AUA/KUA should connect to the Network		
	synchronisation	Time Protocol (NTP) server of the		
	through use of	National Informatics Centre (NIC) or		
	Network Time	National Physical Laboratory (NPL), or		
	Protocol (NTP)	with NTP servers traceable to the said NTP		
		servers, for synchronisation of all their ICT		
		systems clocks. Entities having ICT		

		infrastructure spanning multiple				
		geographies may also use accurate and				
		standard time source other than NPL and				
		NIC; however, it should be ensured that				
		such time source does not deviate from				
		NPL and NIC.				
0.	Fraud and forensics					
122.	Fraud analytics	AUA/KUA should deploy, as part of its				
	module	systems, a fraud analytics module that is				
		capable of analysing authentication related				
		transactions to identify fraud.				
Р.	Providing Aadhaar Authentication facilities to Sub-AUAs and Sub-KUAs					
123.	Approval from	AUA/KUA should obtain approval from				
	UIDAI for	UIDAI before appointing any entity as its				
	appointment of	Sub-AUA or Sub-KUA, and should also				
	Sub-AUA/Sub-	take permission in respect of any entity				
	KUA	already appointed as a Sub-AUA or Sub-				
		KUA.				
124.	Authentication	AUA/KUA should ensure that the				
	application	authentication application to be used or				
	security	being used for Aadhaar authentication by				
		its Sub-AUAs and Sub-KUAs is developed				
		and be digitally signed by AUA/KUA.				
125.	Authentication	AUA/KUA should ensure that the				
	application	authentication application used by its Sub-				
	security	AUAs and Sub-KUAs does not store				
		biometric data under any circumstance,				
		and that the biometrics / PID block is				
		encrypted at the front-end device / client				

		level.		
126.	Authentication application security	AUA/KUA should ensure that the client application(s) of its Sub-AUAs and Sub- KUAs does/do not, under any circumstance, replay the authentication request using stored biometric data.		
127.	Authentication application audit	AUA/KUA should ensure that the authentication application of its Sub-AUAs and Sub-KUAs are audited by the Standardisation Testing and Quality Certification (STQC) Directorate of the Ministry of Electronics and Information Technology or a CERT-In-empanelled auditor and a compliance report is submitted to UIDAI. AUA/KUA should also ensure that all its Sub-AUAs and Sub- KUAs access Aadhaar Authentication facilities only through duly audited authentication applications.		
