Audit TOR Clause	Checkpoints Description	Auditor's comments	Description of Finding/ Observation	Management's comments
1	**Governance**			
1(a)	Whether the Participant has formulated a comprehensive Cyber Security and Cyber Resilience policy document encompassing the framework mentioned in the circular? In case of deviations from the suggested framework, whether reasons for such deviations, technical or otherwise, are provided in the policy document? Is the policy document approved by the Board / Partners / Proprietor of the organization? Is the policy reviewed periodically or at least on annual basis?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
1(b)	Whether the Cyber Security Policy includes the following process to identify, assess, and manage Cyber Security risk associated with processes, information, networks and systems: a. 'Identify' critical IT assets and risks associated with such assets. b. 'Protect' assets by deploying suitable controls, tools and measures. c. 'Detect' incidents, anomalies and attacks through appropriate monitoring tools/processes. d. 'Respond' by taking immediate steps after identification of the incident, anomaly or attack. e. 'Recover' from incident through incident management and other appropriate recovery mechanisms.	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
1(c)	Whether the Cyber Security Policy of Participants has considered the principles prescribed by National Critical Information Infrastructure Protection Centre (NCIIPC) of National Technical Research Organization (NTRO), Government of India (titled 'Guidelines for Protection of National Critical Information Infrastructure') and subsequent revisions, if any, from time to time?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative

1(d)	Whether Participant refers to best practices from international standards like ISO 27001, COBIT 5, etc., or their subsequent revisions, if any, from time to time?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
1(e)	Whether Participant has designated a senior official or management personnel (henceforth, referred to as the "Designated Officer") whose function would be to assess, identify, and reduce security and Cyber Security risks, respond to incidents, establish appropriate standards and controls, and direct the establishment and implementation of processes and procedures as per the Cyber Security Policy?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
1(f)	Whether the Board / Partners / Proprietor of the Participant have formed an internal Technology Committee comprising of experts?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
1(g)	Whether the Participant has established a reporting procedure to facilitate communication of unusual activities and events to the Designated Officer in a timely manner?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
1(h)	Does the "Technology Committee" along with designated officer reviews the status of implementation of Cyber Security & Cyber Resilience Policy on half yearly basis and same has been placed before the Board / Partners / Proprietor of the Participant?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
1(i)	Does the designated officer and technology committee periodically review instances of cyber-attacks, if any, domestically and globally, and take	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative

	steps to strengthen Cyber Security and cyber resilience framework?			
1(j)	Whether Participant has defined and documented the responsibilities of its employees, outsourced staff, and employees of vendors, members or participants and other entities, who may have privileged access or use systems / networks of the Participant towards ensuring the goal of Cyber Security?	Yes/No/NA Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
2	**Identification**			
2(a)	Whether Participant has identified critical assets based on their sensitivity and criticality for business operations, services and data management and maintained up-to-date inventory of its hardware and systems and the personnel to whom these have been issued, software and information assets (internal and external), details of its network resources, connections to its network and data flows?	Yes/No/NA Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
2(b)	Whether Participant has identified cyber risks (threats and vulnerabilities) that it may face, along with the likelihood of such threats and impact on the business and thereby, deploy controls commensurate to the criticality?	Yes/No/NA Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3	**Protection**			
I	**Access Control**			
3(a)	Any access to Participants' systems, applications, networks, databases, etc., should be for a defined purpose and for a defined period. Whether Participant has granted access to IT systems, applications, databases and networks on a need-to-use basis and based on the principle of least privilege and has been granted for the period when the access is required and has been authorized using strong authentication mechanisms?	Yes/No/NA Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative

3(b)	Whether Participant has implemented an access policy which addresses strong password controls for users' access to systems, applications, networks and databases?(Illustrative examples for this are given in Annexure C of SEBI/HO/MIRSD/CIR/PB/2018/147 dated December 03, 2018)	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(c)	Whether all critical systems of the Participant accessible over the internet have two-factor security (such as VPNs, Firewall controls etc.)?	~~Yes/No/~~ Complied / Not complied / NA	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(d)	Whether Participant has ensured that records of user access to critical systems, wherever possible, are uniquely identified and logged for audit and review purposes and such logs have been maintained and stored in a secure location for a time period not less than two (2) years?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(e)	Whether Participant has deployed controls and security measures to supervise staff with elevated system access entitlements (such as admin or privileged users) to Participant's critical systems and controls and measures inter-alia includes restricting the number of privileged users, periodic review of privileged users' activities, disallow privileged users from accessing systems logs in which their activities are being captured, strong controls over remote access by privileged users, etc.?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(f)	Whether employees and outsourced staff such as employees of vendors or service providers, who may have been given authorized access to the Participants' critical systems, networks and other computer resources, have been subjected to stringent supervision, monitoring and access restrictions?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(g)	Whether Participant has formulated an Internet access policy to monitor and regulate the use of internet and internet based services such as social media sites, cloud-based internet storage sites, etc.	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative

	within the Participant's critical IT infrastructure?			
3(h)	Whether User Management addresses deactivation of access of privileges of users who are leaving the organization or whose access privileges have been withdrawn?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
II	**Physical Security**			
3(i)	Whether physical access to the critical systems has been restricted to minimum and only to authorized officials and physical access of outsourced staff/visitors are properly supervised by ensuring at the minimum that outsourced staff/visitors are accompanied at all times by authorized employees?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(j)	Whether physical access to the critical systems is being revoked immediately, if the same is no longer required?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(k)	Whether Participant has ensured that the perimeter of the critical equipments room, if any, are physically secured and monitored by employing physical, human and procedural controls such as the use of security guards, CCTVs, card access systems, mantraps, bollards, etc. where appropriate?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
III	**Network Security Management**			
3(l)	Whether Participant has established baseline standards to facilitate consistent application of security configurations to operating systems, databases, network devices and enterprise mobile devices within their IT environmentand the LAN and wireless networks are secured within the Participants' premises with proper access controls?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative

3(m)	Whether Participant has installed network security devices, such as firewalls, proxy servers, intrusion detection and prevention systems (IDS) to protect their IT infrastructure which is exposed to the internet, from security exposures originating from internal and external sources?	~~Yes/No/~~ Complied / Not complied / NA	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(n)	Whether adequate controls have been deployed to address virus / malware / ransomware attacks. These controls may include host / network / application based IDS systems, customized kernels for Linux, anti-virus and anti-malware software etc.	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
IV	**Data Security**			
3(o)	Whether critical data has been identified and encrypted in motion and at rest by using strong encryption methods? (Illustrative measures in this regard are given in Annexure A and B of SEBI circular SEBI/HO/MIRSD/CIR/PB/2018/147 dated December 03, 2018)	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(p)	Whether Participants has implemented measures to prevent unauthorized access or copying or transmission of data / information held in contractual or fiduciary capacity and ensured that confidentiality of information is not compromised during the process of exchanging and transferring information with external parties? (Illustrative measures to ensure security during transportation of data over the internet are given in Annexure B of SEBI circular SEBI/HO/MIRSD/CIR/PB/2018/147 dated December 03, 2018)	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(q)	Whether the information security policy covers use of devices such as mobile phones, faxes, photocopiers, scanners, etc., within their critical IT infrastructure, that can be used for capturing and transmission of sensitive data? (For instance, defining access policies for personnel, and network connectivity for such devices etc.)	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative

3(r)	Whether Participant allows only authorized data storage devices within their IT infrastructure through appropriate validation processes?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(s)	Whether Participant deploys only hardened hardware / software, including replacing default passwords with strong passwords and disabling or removing services identified as unnecessary for the functioning of the system?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(t)	Whether open ports on networks and systems which are not in use or that can be potentially used for exploitation of data, have been blocked and measures have been taken to secure them?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
V	**Application Security in Customer Facing Applications**			
3(u)	Whether application security is in place for Customer facing applications offered over the Internet such as IBTs (Internet Based Trading applications), portals containing sensitive or private information and Back office applications (repository of financial and personal information offered by Participants to Customers) as they carry significant attack surfaces by virtue of being available publicly over the Internet for mass use? (An illustrative list of measures for ensuring security in such applications is provided in Annexure C of SEBI circular SEBI/HO/MIRSD/CIR/PB/2018/147 dated December 03, 2018)	~~Yes/No/~~ Complied / Not complied / NA	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
VI	**Certification of off-the-shelf products**			

3(v)	Whether Participant has ensured that off the shelf products being used for core business functionality (such as Back office applications) bears Indian Common criteria certification of Evaluation Assurance Level 4which is being provided by Standardisation Testing and Quality Certification (STQC) (Ministry of Electronics and Information Technology)(except Custom developed / in-house software and components need not obtain the certification, but have to undergo intensive regression testing, configuration testing etc. The scope of tests should include business logic and security controls)?	~~Yes/No/~~ Complied / Not complied / NA	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
VII	**Patch management**			
3(w)	Whether Participants has established and ensure that the patch management procedures includes the identification, categorization and prioritization of patches and updates and the implementation timeframe for each category of patches has been established to apply them in a timely manner?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(x)	Whether Participant has performed rigorous testing of security patches and updates, where possible, before deployment into the production environment so as to ensure that the application of patches do not impact other systems?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
VIII	**Disposal of data, systems and storage devices**			
3(y)	Whether Participant has framed suitable policy for disposal of storage media and systems and the critical data / Information on such devices and systems has been removed by using methods such as crypto shredding / degauss / Physical destruction as applicable?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(z)	Whether Participant has formulated a data-disposal and data- retention policy to identify the value and lifetime of various parcels of data?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative

IX	**Vulnerability Assessment and Penetration Testing (VAPT)**			
3(aa)	Whether Participant regularly conducts vulnerability assessment to detect security vulnerabilities in their IT environments exposed to the internet?	<mark>Yes/No/NA</mark> Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(ab)	Whether Participant with systems publicly available over the internet has carried out penetration tests, at-least once a year, in order to conduct an in-depth evaluation of the security posture of the system through simulations of actual attacks on its systems and networks that are exposed to the internet? In addition, whether Participant has performed vulnerability scanning and conducted penetration testing prior to the commissioning of a new system that is accessible over the internet?	<mark>Yes/No</mark> Complied / Not complied /NA	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(ac)	In case of vulnerabilities discovered in off-the-shelf products (used for core business) or applications provided by vendors, whether Participant has reported them to the vendors and NSDL in a timely manner?	<mark>Yes/No/NA</mark> Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
3(ad)	Whether remedial actions have been immediately taken to address gaps that are identified during vulnerability assessment and penetration testing?	<mark>Yes/No/NA</mark> Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
4	**Monitoring and Detection**			
4(a)	Whether Participant has established appropriate security monitoring systems and processes to facilitate continuous monitoring of security events / alerts and timely detection of unauthorised or malicious activities, unauthorised changes, unauthorised access and unauthorised copying or transmission of data / information held in contractual or fiduciary capacity, by internal and external partiesand the security logs of systems, applications	<mark>Yes/No/NA</mark> Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative

	and network devices exposed to the internet has been monitored for anomalies?			
4(b)	Further, to ensure high resilience, high availability and timely detection of attacks on systems and networks exposed to the internet, whether Participant has implemented suitable mechanisms to monitor capacity utilization of its critical systems and networks that are exposed to the internet, for example, controls such as firewalls to monitor bandwidth usage?	~~Yes/No~~ Complied / Not complied /NA	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
5	**Response and Recovery**			
5(a)	Whether alerts generated from monitoring and detection systems have been suitably investigated in order to determine activities that are to be performed to prevent expansion of such incident of cyber attack or breach, mitigate its effect and eradicate the incident?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
5(b)	Whether the response and recovery plan of the Participant includes plans for the timely restoration of systems affected by incidents of cyber-attacks or breaches, for instance, offering alternate services or systems to Customers and has same Recovery Time Objective (RTO) and Recovery Point Objective (RPO) as specified by SEBI for Market Infrastructure Institutions vide SEBI circular CIR/MRD/DMS/17/20 dated June 22, 2012 as amended from time to time?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
5(c)	Whether the response plan defines responsibilities and actions to be performed by its employees and support / outsourced staff in the event of cyber-attacks or breach of Cyber Security mechanism?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative

5(d)	Whether any incident of loss or destruction of data or systems have been thoroughly analyzed and lessons learned from such incidents have been incorporated to strengthen the security mechanism and improve recovery planning and processes?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
5(e)	Whether Participant has conducted suitable periodic drills to test the adequacy and effectiveness of the aforementioned response and recovery plan?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
6	**Sharing of Information**			
6(a)	Whether quarterly reports containing information on cyber-attacks and threats experienced by Participant and measures taken to mitigate vulnerabilities, threats and attacks including information on bugs / vulnerabilities / threats that may be useful for other Participants have been submitted to NSDL?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
7	**Training and Education**			
7(a)	Whether Participant has worked on building Cyber Security and basic system hygiene awareness of staff (with a focus on staff from non-technical disciplines)?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
7(b)	Whether Participant has conducted periodic training programs to enhance knowledge of IT / Cyber Security Policy and standards among the employees incorporating up-to-date Cyber Security threat alerts and where possible, has extended to outsourced staff, vendors etc.?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
7(c)	Whether the training programs have been reviewed and updated to ensure that the contents of the program remain current and relevant?	~~Yes/No/NA~~ Complied / Not complied	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
8	**Systems managed by vendors**			

8(a)	Where the systems (IBT, Back office and other Customer facing applications, IT infrastructure, etc.) of Participant are managed by vendors and the Participant is unable to implement some of the aforementioned guidelines directly, the whether the Participant has instructed the vendors to adhere to the applicable guidelines in the Cyber Security and Cyber Resilience policy and obtain the necessary self-certifications from them to ensure compliance with the policy guidelines?	~~Yes/No~~ Complied / Not complied /NA	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
9	**AI/ML**			
9(a)	Are adequate safeguards in place to prevent abnormal behaviour of the AI or ML application / System	Yes/No/NA	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
9(b)	Has Participant reported details of AI/ML to Depository on a quarterly basis in accordance with SEBI circular SEBI/HO/MIRSD/DOS2/ CIR/P/2019/ 10 dated January 04, 2019	Yes/No/NA	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
9(c)	Whether AI / ML systems comply for all above System Audit Checklist points. In case of any observation, please report	Yes/No/NA	If no, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
10(a)	Whether any other deviation/non-compliance observed by auditor which is not specifically covered above?	Yes/No/NA	If yes, description of finding / observation must be mentioned here	Mandatory, if auditor's comments are negative
11(a)	Whether any deviation/non- compliance observed during last audit?	Yes/No	If yes, description of finding / observation must be mentioned here	Mandatory, if auditor's comment is negative
11(b)	Status of compliance for deviations observed during last audit	Complied / Not complied	Mandatory, if Not complied	Mandatory, if auditor's comments is negative