

# *Cybersecurity Internal Audit Checklist in India* (SAMPLE)

## 1. REGULATORY COMPLIANCE & LEGAL FRAMEWORK

### Indian Cybersecurity Laws & Regulations

- ☐ Information Technology Act, 2000 (amended 2008) compliance verification
- ☐ Information Technology (Reasonable Security Practices) Rules, 2011 implementation
- ☐ Personal Data Protection Bill (DPDP Act 2023) compliance assessment
- ☐ Reserve Bank of India (RBI) Cyber Security Framework compliance (for financial institutions)
- ☐ SEBI IT Framework compliance (for market intermediaries)
- ☐ Sectoral regulations compliance (TRAI, IRDA, etc.)
- ☐ Critical Information Infrastructure (CII) protection measures (if applicable)

## Documentation & Policies

- ☐ Cybersecurity policy document existence and annual review
- ☐ Information security policy aligned with IS/ISO/IEC 27001:2013
- ☐ Data classification and handling procedures documented
- ☐ Incident response plan documented and tested
- ☐ Business continuity and disaster recovery plans
- ☐ Privacy policy and consent management procedures
- ☐ Vendor risk management policy for third-party assessments

## 2. GOVERNANCE & RISK MANAGEMENT

### Organizational Structure

- ☐ Designated Chief Information Security Officer (CISO) or equivalent
- ☐ Information Security Committee with defined roles & responsibilities
- ☐ Cybersecurity governance framework implementation
- ☐ Regular board/senior management reporting on cybersecurity posture
- ☐ Cybersecurity budget allocation and utilization tracking

### Risk Assessment & Management

- ☐ Annual cybersecurity risk assessment conducted
- ☐ Risk register maintained with mitigation strategies
- ☐ Threat landscape analysis and threat modeling
- ☐ Business impact analysis for critical systems
- ☐ Third-party risk assessments for vendors and partners
- ☐ Supply chain security risk evaluation



## 3. TECHNICAL SECURITY CONTROLS

### Network Security

- ☐ Firewall configuration and rule review
- ☐ Intrusion Detection/Prevention System (IDS/IPS) deployment
- ☐ Network segmentation and micro-segmentation implementation
- ☐ Virtual Private Network (VPN) security configuration
- ☐ Wireless network security (WPA3, network isolation)
- ☐ Network monitoring and logging capabilities
- ☐ DNS security and filtering implementation

### Endpoint Security

- ☐ Antivirus/anti-malware solution deployment and updates
- ☐ Endpoint Detection and Response (EDR) implementation
- ☐ Device encryption (full disk encryption) enforcement
- ☐ Mobile Device Management (MDM) for corporate devices
- ☐ USB port controls and removable media policies
- ☐ Patch management system for operating systems & applications
- ☐ Secure configuration baselines for workstations and servers

### Identity & Access Management

- ☐ Multi-Factor Authentication (MFA) implementation for critical systems
- ☐ Privileged Access Management (PAM) solution deployment
- ☐ Regular access review and certification process
- ☐ Role-based access control (RBAC) implementation
- ☐ Single Sign-On (SSO) deployment where applicable
- ☐ Password policy enforcement (complexity, expiration, history)
- ☐ Service account management and monitoring



## 4. DATA PROTECTION & PRIVACY

### Data Security

- ☐ Data classification scheme implementation and labeling
- ☐ Data Loss Prevention (DLP) solution deployment
- ☐ Database security controls (encryption, access logging)
- ☐ Backup and recovery procedures testing
- ☐ Data retention and disposal policies implementation
- ☐ Cross-border data transfer compliance assessment
- ☐ Cloud data security and encryption verification

### Privacy Compliance

- ☐ Consent management system implementation
- ☐ Data subject rights fulfillment process
- ☐ Privacy impact assessment procedures
- ☐ Data breach notification procedures (within 6 hours to CERT-In)
- ☐ Data localization requirements compliance (where applicable)
- ☐ Privacy by design implementation in new systems

## 5. APPLICATION SECURITY

### Secure Development

- ☐ Security Development Lifecycle (SDLC) implementation
- ☐ Static Application Security Testing (SAST) integration
- ☐ Dynamic Application Security Testing (DAST) procedures
- ☐ Code review processes for security vulnerabilities
- ☐ Third-party component vulnerability management
- ☐ API security testing and monitoring



## Web Application Security

- ☐ Web Application Firewall (WAF) deployment and tuning
- ☐ SSL/TLS configuration and certificate management
- ☐ OWASP Top 10 vulnerability assessment
- ☐ Session management and authentication controls
- ☐ Input validation and output encoding implementation

## 6. CLOUD SECURITY (IF APPLICABLE)

### Cloud Governance

- ☐ Cloud security policy and procedures documentation
- ☐ Cloud service provider security assessment
- ☐ Shared responsibility model understanding and implementation
- ☐ Cloud access controls and identity management
- ☐ Cloud workload protection and monitoring
- ☐ Multi-cloud/hybrid cloud security architecture review

## 7. INCIDENT RESPONSE & BUSINESS CONTINUITY

### Incident Management

- ☐ Computer Security Incident Response Team (CSIRT) establishment
- ☐ Incident response playbooks for various scenarios
- ☐ Integration with CERT-In reporting requirements
- ☐ Incident response testing and simulation exercises
- ☐ Forensics capabilities and evidence handling procedures
- ☐ Communication plan for stakeholders during incidents

## Business Continuity

- ☐ Business Impact Analysis (BIA) conducted
- ☐ Recovery Time Objective (RTO) and Recovery Point Objective (RPO) defined
- ☐ Disaster recovery testing (at least annually)
- ☐ Alternative site arrangements and testing
- ☐ Critical vendor dependency assessment
- ☐ Communication systems redundancy

## 8. SECURITY MONITORING & OPERATIONS

### Security Operations Center (SOC)

- ☐ 24/7 security monitoring capabilities (in-house or outsourced)
- ☐ Security Information and Event Management (SIEM)
- ☐ implementation
- ☐ Log management and retention policy compliance
- ☐ Threat intelligence integration and analysis
- ☐ Security metrics and KPIs tracking
- ☐ Regular security posture reporting

### Vulnerability Management

- ☐ Automated vulnerability scanning tools deployment
- ☐ Regular penetration testing (at least annually)
- ☐ Vulnerability assessment and prioritization process
- ☐ Patch management program with defined SLAs
- ☐ Zero-day vulnerability response procedures

## 9. TRAINING & AWARENESS

### Employee Training

- ☐ Cybersecurity awareness training program implementation
- ☐ Phishing simulation exercises and training
- ☐ Role-specific security training for IT staff
- ☐ New employee security orientation program
- ☐ Annual refresher training and assessment
- ☐ Security awareness metrics and tracking

### Specialized Training

- ☐ Incident response team training and certification
- ☐ Security tools training for technical staff
- ☐ Compliance training for relevant personnel
- ☐ Third-party security training verification

## 10. VENDOR & THIRD-PARTY MANAGEMENT

### Vendor Risk Assessment

- ☐ Security questionnaires and due diligence process
- ☐ Vendor security certification verification (ISO 27001, SOC 2)
- ☐ Contractual security requirements and SLAs
- ☐ Regular vendor security reviews and audits
- ☐ Fourth-party risk assessment procedures
- ☐ Vendor incident notification requirements



# 11. PHYSICAL & ENVIRONMENTAL SECURITY

## Physical Access Controls

- ☐ Biometric or card-based access control systems
- ☐ Visitor management and escort procedures
- ☐ CCTV surveillance and monitoring
- ☐ Secure areas for critical infrastructure
- ☐ Clean desk and clear screen policies
- ☐ Equipment disposal and sanitization procedures

## Environmental Controls

- ☐ Fire suppression systems in data centers
- ☐ Uninterruptible Power Supply (UPS) and backup generators
- ☐ Environmental monitoring (temperature, humidity)
- ☐ Secure cable management and protection

# 12. AUDIT & ASSESSMENT

## Internal Audits

- ☐ Annual internal cybersecurity audit program
- ☐ Security control testing and validation
- ☐ Gap analysis and remediation tracking
- ☐ Compliance audit findings management
- ☐ Audit trail maintenance and protection





## External Assessments

- ☐ Third-party security assessments and penetration testing
- ☐ Compliance certification maintenance (ISO 27001, etc.)
- ☐ Regulatory examination preparedness
- ☐ Industry benchmark comparisons

