TechMax Solution
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Techmax Solution provides **Biometric Time Attendance System for AEBAS Project** Aadhar Enabled Biometric Attendance System.
This Biometric Device used to make attendance and send to aebas (http://www.attendance.gov.in) portal.

Vivekanand Biometric Time Attendance System For AEBAS Introduced By **TechMax Solution** at Surat (Gujarat-India).

***Device Design & Specifications is Subject to Change without Prior Notice.**

Features of Biometric Device:
- Fully Standalone Device (No Need Of Any Computer or Software)
- Complete Match With All AEBAS Norms.
- Online With AEBAS Portal.
- 512 MB RAM – 4 GB Memory.
- STQC Certified Sensor.
- 7 Inch Touch Screen.
- Both Mounting (Table Top + Wall Mount)
- Fastest Fingerprint Matching.

Why Vivekanand Biometric is Better Than All Other Devices ?
- This Device is fully standalone so you don't need to install any kind of software in computer. So there is no problems like provide team viewer to vendor, reinstall software because of virus in computer, Operating System compatibility, format computer.
- Because of Standalone Device you don't depend on computer to send attendance to AEBAS Portal.
- This Device is very user friendly like android application so you don't need highly educated people to operate this.
- Because of Standalone Device you need less support and time for installation.
- Quick and Hassle Free installation than all other devices.

Preface
As part of the "Digital India" program of Government of India, it has been decided to implement common Biometric Attendance System (BAS) in the Central Government Offices (Agencies) located in Delhi which may be extended to offices of the state and governments and other government institutions in future. The proposed system would enable an employee to register attendance by simply presenting his/her biometric (finger print/Iris). This event will be authenticated online after one to one match with the bio-metric attributes stored in the UIDAI data base against the employee's Aadhaar number. For implementing this project, the Central Government Organizations need to follow a structured approach in coordinating with different stakeholders. The purpose of this document is to serve as handbook for the Central Government organizations that are implementing Bio-metric Attendance System for their employees.

Targeted Audience
This document is intended for the Central Government organizations that would like to implement Bio-metric Attendance System in their organization. The following are such envisaged Agencies
- Ministries, Departments, Attached/Sub-ordinate organizations of Central Government
- Autonomous Central Government bodies, institutions and offices
- States, Districts and other Government/Semi Government bodies like municipalities
- Central Public Sector Units

Device Specifications as Below:

Hardware Specification		
		Specifications
1	**Integrated Attendance Device Type 1 - Integrated Android Tablet and Single Fingerprint Scanner Device Housed in Rugged Casing**	• Specifications of Android Tablet same as those given for Item No. 3 • Specifications for Single Fingerprint Scanner Device same as those given for Item No. 4 (STQC Certificate for the integrated bio-metric device must be submitted) • Android Tablet and Single Fingerprint Scanner should be integrated in a rugged casing. **The Rugged Casing should comply with the following:** • The casing should be made of inflexible, solid material and can be of polycarbonate / thick plastic / acrylic / other tough material. • It should be of black color and should have a glossy / matte finish • Acrylic casings must have a thickness of at least 5 mm. • Casing should be durable and should be able to withstand rough daily operational usage. • The casing should not suffer any damage or disfiguration on being dropped from a height of up to 2 meters • Tablet should be vertically oriented in the casing. This is important because the attendance application to be deployed is designed to run in vertical mode only. • The casing should be designed to cover/hide the android task bar of the tablet. This is required to prevent misuse of any other functionality of the tablet. • The casing should have provision to access the power/reset button of the tablet. The access should be easy but controlled. The vendor thus should make arrangements to provide an external tool to perform the power on/off and/or reset function of the tablet through the casing. • The fingerprint scanner should be ergonomically placed to support ease of usage for biometric attendance in standing posture of the users.
2	**Integrated Attendance Device Type 2 - Integrated Attendance Device Manufactured as a Single Unit**	An integrated device for recoding biometric attendance with STQC certified fingerprint sensor meeting following configurations requirements • Display – At least 4 inch display with a minimum of 800x480 pixel resolution, 16 M Colors • Processor- 1.0 GHz or above • RAM- 512 MB or above • Hard Key / Soft Key Numeric key pad • Internal Storage- 4GB or above • Expandable storage through micro SD, minimum 8 GB • USB Port- Minimum one available USB host port to support application loading / configurations / full functional keyboard • Device must come with connector cables to allow connection of the device to Micro USB and Standard USB ports • Internal Speakers • GSM SIM card slot • Inbuilt replaceable battery with min. battery backup of up to 120 minutes • Charging / operation on AC 100 -240 volt range with inbuilt surge protection Biometric sensor/extractor • STQC certified fingerprint sensor/extractor for Aadhaar authentication (STQC Certificate for the integrated bio-metric device must be submitted) • SDK for fingerprint device • The fingerprint scanner should be ergonomically placed to support ease of usage for biometric attendance in standing posture of the users Connectivity Requirements • Mandatory Edge / 3G mobile data support • Wi-Fi IEEE 802.11b/g/n OR LAN (Ethernet) interface OR Both • Strength, safety and operating environment • Should be able to withstand 1 m drop test • Operating temp: 0°C to 50°C • Storage not including battery: 0°C to 55°C • CE certification/ RoHS certification • SAR values within acceptable range Operating system / software requirements • Android 4.0 Operating System or above • Sample application to test fingerprint sensor/extractor • Vendor has to provide all necessary technical support for integration of their device drivers with the attendance software and associated UIDAI applications.

3	**Android Tablet with 7 inch screen**	• Processor- 1.0 GHz or above • RAM- 512 MB or above Internal Storage- 4GB or above • Expandable storage through micro SD, minimum 8 GB • USB Port- Minimum one Micro USB port and an optional additional USB Port • USB port should provide power supply to biometric device and support USB OTG. • Front facing Camera with VGA resolution • Internal Speakers • 7''Capacitive touch screen and minimum 800x480 pixel resolution or above, 16 M Colors • GSM SIM card slot • Min. Battery backup up to 120 minutes • SAR values within acceptable range • Separate charging non-usb port with AC adapter 200-240 volt range • Micro USB host cable • Connectivity Requirements • Mandatory Edge / 3G mobile data support • Wi-Fi IEEE 802.11b/g/n OR LAN (Ethernet) interface OR Both • Software Requirements • Android 4.0 Operating System or Above • Safety and other standards compliance – CE certification/ RoHS certification • Full featured Web Browser • Application to be deployed on android tablet will require rooted Android OS • Vendor has to provide all necessary technical support for integration of their device drivers with the attendance software and associated UIDAI attendance applications.
4	**Single Fingerprint Scanner Device for use with Android Tablet**	• STQC certified Single Finger-print biometric device for Aadhaar Authentication with driver, in-built template extractor software/SDK (mandatorily with license, if required) (STQC Certificate for the device must be submitted) • API/SDK for Android (4.0 and above) platform. • Device should be plug and play with any android (4.0 and above) tablet without need of any additional license to be deployed. • The device should have integrated micro USB or standard USB type connector. • Device must come with connector cables to allow connection of the device to Micro USB and Standard USB ports • Vendor has to provide all necessary technical support for integration of their device drivers with the attendance software and associated UIDAI applications.
5	**Fingerprint Scanner Device for use with Desktop**	• STQC certified single finger-print biometric device for Aadhaar Authentication and extractor software/SDK (STQC Certificate must be submitted) • API/SDK for Windows (7.0 and above) platform. • Device should be plug and play with any Windows (7.0 and above) without need of any additional license to be deployed. • The device should have integrated USB 2.0 type connector. • Device must come with connector cables to allow connection of the device to Micro USB and Standard USB ports • Vendor has to provide all necessary technical support for integration of their device drivers with the attendance software and associated UIDAI applications.
6	**Iris Authentication Device for use with Desktop**	• STQC certified Iris authentication device for Aadhaar Authentication and extractor software/SDK (STQC Certificate must be submitted) • API/SDK for Windows (7.0 and above) platform and Android (4.0 or above) Operating System • Device should be plug and play with any Windows (7.0 and above) and Android (4.0 and above) without need of any additional license to be deployed • The device should have integrated USB 2.0 type connector. • Device must come with connector cables to allow connection of the device to Micro USB and Standard USB ports • Sample application for Windows and Android platform to test Iris sensor/extractor • Vendor has to provide all necessary technical support for integration of their device drivers with the attendance software and associated UIDAI applications.