

	Electronics Corporation of Tamil Nadu Limited
Rate Contract Tender	
	Supply, Installation, Commissioning and Maintenance of Biometric Systems under Warranty & CAMC service method(WCS) /Lease Cum Service Method(LCS)
	Tender Ref. ELCOT/Proc/OT/33146/Biometric Systems /RC/2018-19
	Corrigendum No.12 Revised Tender Document

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Acronyms and Definitions	
AMC/CAMC	Annual Maintenance Contract / Comprehensive Annual Maintenance Contract
CST	Central Sales Tax
DSC	Digital Signature Certificate
EMD	Earnest Money Deposit
ERTL	Electronic Regional Test Laboratories
ETDC	Electronics Test & Development Centre
FOR	Free on Road / Rail
HR	Human Resources
HRMS	Human Resources Management System
ICT	Information and Communication Technology
IPR	Intellectual Property Rights
ISO	International Organisation for Standardisation
IT	Information Technology
LD	Liquidated Damage
LOA	Letter of Acceptance
MIS	Management Information System
NABL	National Accreditation Board for Testing and Calibration Laboratories
OEM	Original Equipment Manufacturer
PC-OEM	Personal Computer - Original Equipment Manufacturer
RFP	Request for Proposal
ROHS	Restriction of Use of Hazardous Substances
SAMEER	Society for Applied Microwave Electronics Engineering & Research.
SD	Security Deposit
SDK	Software Development Kit
SNR	Site Not Ready
SPOC	Single Point of Contact
SRS	Software Requirements Specification
ST/VAT	Service Tax/ Value Added Tax
GST	Goods and Services Tax

Know Your Rights

1. ALL TENDERS WILL BE OPENED ONLY IN THE PRESENCE OF THE BIDDERS.
2. THE BIDDERS HAVE A RIGHT TO INSIST ON PROCESSING OF TECHNICAL BIDS IN THE BIDDERS PRESENCE ONLY.
3. PRICE BID OPENING AND PRICE COMPARISON WILL BE DONE ONLY IN THE PRESENCE OF THE BIDDERS.
4. BIDDERS / BIDDERS ARE ELIGIBLE FOR A BIDDER SIGNED COPY OF THE PRICE BID COMPARISON STATEMENT ON THE SPOT.
5. PLEASE INSIST ON YOUR RIGHTS AND AVAIL THE SAME.

MANAGING DIRECTOR
ELCOT

Letter of Undertaking

To
The Managing Director
Electronics Corporation of Tamil Nadu Limited
692 Anna Salai, Nandanam
Chennai-600035

Sir,

Sub: Undertaking for participating in ELCOT's Procurement Tender - Reg.
Ref: **Tender No. ELCOT/Proc/OT/33146/Biometric Systems/RC/2018-19**

I/We ----- have gone through the Terms and Conditions, Scope of Work and Specification and will abide by them as laid down (Tender Documents, Technical bid and Price Bid)

I/We ----- hereby confirm that our Company was not blacklisted by any State Government/ Central Government/ Public Sector Undertakings during the last three years. We also hereby confirm that our EMD/SD was not forfeited by any State Government / Central Government / Public Sector Undertakings during the last three years due to our non-performance, non-compliance with the tender conditions etc.

I/We ----- hereby declare that all the particulars furnished by us in this Tender are true to the best of my/our knowledge and we understand and accept that if at any stage, the information furnished is found to be incorrect or false, we are liable for disqualification from this tender and also are liable for any penal action that may arise due to the above.

I/We ----- certify that no refurbished components are used in the manufacturing and supply of Biometric Systems / tendered items. The licences for the operating systems and other software to be installed under this contract is certified as genuine and valid.

I/We ----- certify that we are liable and responsible for any disputes arising out of Intellectual Property Rights.

In case of violation of any of the conditions above, I/We understand that I/ We are liable to be blacklisted by ELCOT for a period of three years.

Yours faithfully

for _____

Name, Signature

Designation

Seal

Note:

- 1) Declaration in the company's letter head should be submitted as per format given above

- 2) If the bidding firm has been blacklisted by any State Government/ Central Government/ Public Sector Undertakings earlier, then the details should be provided.

1. Preamble

Electronics Corporation of Tamil Nadu Limited (ELCOT), a wholly owned Government of Tamil Nadu Undertaking is the Optional Procurement Agency of the Government of Tamil Nadu for procurement of IT related products like Computers, Printers, other peripherals and software as per G.O.Ms.No.58 of Finance (BPE) Department dated 16.2.1999 with latest amendments. ELCOT is procuring various IT related products and services for all the State Government Departments / Boards / Autonomous Bodies, etc. As part of the procurement activities, ELCOT inviting bids under **RATE CONTRACT** for the procurement of various **Biometric Systems** for various Government organisations under WCS or LCS.

Short Titles used in the Tender Document :

- 1) **Bidder:** Bidder means the party who makes a formal offer in pursuance of the tender floated.
- 2) **Successful Bidder:** Successful Bidder means the Bidder who becomes successful through the tender process.
- 3) **Day:** A day means a calendar day.
- 4) **Service Centre:** Service Centre means the centre or place, wherein the Bidder, inter alia undertakes and performs the service activities relating to the Biometric Systems indicated in the tender and shall include a Direct service centre or Authorised dealer or Franchisee service centre of the bidder/OEM

Details about the Regions and Districts:

Region	Districts to be Covered under each Region
North	(Chennai), Kancheepuram, Tiruvallur, Tiruvannamalai, Villupuram & Vellore.
East	Ariyalur, Cuddalore, Thanjavur, (Tiruchirapalli), Thiruvarur, Nagapattinam, Pudukkottai & Perambalur.
South	Ramanathapuram, (Madurai), Theni, Dindigul, Tirunelveli, Virudhunagar, Thoothukudi, Sivagangai & Kanyakumari.
West	Salem, Erode, Karur, (Coimbatore), Tiruppur, Dharmapuri, Namakkal, Krishnagiri & Nilgiris.

- 6) **Life Cycle Cost:** Life Cycle Cost under this tender/contract means the total cost to be incurred by the Purchaser towards the purchase of Biometric Systems and also charges to be incurred by the Purchaser towards maintenance of Biometric Systems for the whole period including Standard warranty period of 3 years and CAMC period of 2 years under WCS method or 3 years under LCS method and any further extended period mutually agreed by the Successful Bidder and the Purchaser.
- 7) **Purchaser:** Purchaser means the end-user for whom the procurement is indented through the tender.

2. e-Tender Schedule

ELECTRONICS CORPORATION OF TAMILNADU LIMITED (ELCOT)

1.	Tender inviting Authority, Designation and Address	The Managing Director ELCOT, II Floor MHU Complex 692 Anna Salai, Nandanam, Chennai-600035. e-mail: md@elcot.in and procurement@elcot.in URL: www.elcot.in
2.	A) Name of the Work	Supply, Installation, Commissioning and Maintenance of Biometric Systems
	B) Tender reference	ELCOT/Proc/OT/33146/Biometric Systems /RC/ 2018-19
	C) Installation	At the Purchaser premises throughout the State of Tamil Nadu
3.	Tender documents available place	Tender documents can be freely downloaded from https://tenders.elcot.in , www.elcot.in and www.tenders.tn.gov.in till closing date and time of the Tender. The tender document fee is waived for downloading the Tender.
4.	e-Tender Portal Charges	For every Tender submitted through e-Tender, a portal charge of Rs. 10,000/- (Rupees Ten Thousands only) should be payable by way of Demand Draft only
5	Earnest Money Deposit (EMD)	Rs. 3,00,000/- (Rupees Three Lakh Only) should be paid by way of Demand Draft or Banker's Cheque drawn in favour of Electronics Corporation of Tamil Nadu Limited and payable at Chennai only.
6	Tender submission	Two Part Tender comprising of Technical Bid and Price Bid should be submitted electronically through e-Tender Portal https://tenders.elcot.in
7	Bid signing	Bidders should possess valid Class 2/Class 3 - Signing and Encryption Digital Signature Certificates for signing the Bids
8	Help manuals for e-Tender	Bidders may download the help documents and user manuals from https://tenders.elcot.in
9	Date and Place of e-Portal Training and Pre-Bid Meeting	19/09/2018 @ 11.00 AM at the address mentioned in Column (1) above. (7 days from the date of publications and uploading of the document)
10	Due Date, Time and Place of submission of Tender	27/11/2018 @ 4.00 PM at the address mentioned in Column (1) above. (21 days from the date of publications and uploading of the document)
11	Date, Time and Place of opening of the Technical Bids	27/11/2018 @ 4.15 PM at the address mentioned in Column (1) above. (21 days from the date of publications and uploading of the document)
12	Date, Time and Place of opening of Price Bids	Will be intimated only to the Technically Qualified Bidders

3. General Instructions

3.1 General

- a) The Bidders are requested to examine the instructions, terms and conditions and specifications given in the Tender. Failure to furnish all required information in every aspect will be at the Bidder's risk and may result in the rejection of bid.
- b) It will be imperative for each Bidder(s) to familiarise itself with the prevailing legal situations for the execution of contract. ELCOT shall not entertain any request for clarification from the Bidder regarding such legal aspects of submission of the Bids.
- c) It will be the responsibility of the Bidder that all factors have been investigated and considered while submitting the Bids and no claim whatsoever including those of financial adjustments to the contract awarded under this tender will be entertained by ELCOT. Neither any time schedule nor financial adjustments arising thereof shall be permitted on account of failure by the Bidder to appraise themselves.
- d) The Bidder shall be deemed to have satisfied itself fully before Bidding as to the correctness and sufficiency of its Bids for the contract and price quoted in the Bid to cover all obligations under this Tender.
- e) It must be clearly understood that the Terms and Conditions and specifications are intended to be strictly enforced. No escalation of cost in the Tender by the Bidder will be permitted throughout the period of Agreement or throughout the period of completion of contract whichever is later on account of any reasons whatsoever.
- f) The Bidder shall make all arrangements as part of the contract to supply, commission and train the beneficiaries at various locations at their own cost and transport.
- g) The Bidder should be fully and completely responsible to ELCOT and State Government for all the deliveries and deliverables.

- h) Any bidder who is blacklisted in ELCOT will not be eligible to bid for Tenders in ELCOT, as per the conditions of blacklisting.
- i) In case show cause notice has been issued by ELCOT for poor performance, then ELCOT reserves the right to disqualify the bid submitted by such Bidder.

3.2 Clarifications in the Tender

- a) A prospective Bidder requiring any clarification in the Tender may notify ELCOT by letter or by Fax or by E-mail to md@elcot.in with a copy to procurement@elcot.in. We encourage paper free e-mail communication.
- b) The responses to the clarifications will be notified in the websites by means of Corrigendum to the Tender Document. It would be advantageous to commence e-mail contact with procurement@elcot.in to register your e-mail id.

3.3 Amendments to the Tender

- a) Before closing of the Tender, clarifications and amendments if any will be notified in the websites mentioned in the Tender Schedule. The Bidders periodically check for the amendments or corrigendum or information in the websites till the closing date of this Tender. ELCOT will not make any individual communication and will in no way be responsible for any ignorance pleaded by the Bidders.
- b) No clarifications would be offered by ELCOT within 48 hours prior to the due date and time for opening of the Tender.
- c) Before the closing of the Tender, ELCOT may amend the Tender document as per requirements or wherever ELCOT feels that such amendments are absolutely necessary.
- d) Amendments also may be given in response to the queries by the prospective Bidders.
- e) Such amendments will be notified in the websites mentioned in the

Tender schedule.

- f) ELCOT at its discretion may or may not extend the due date and time for the submission of bids on account of amendments.
- g) ELCOT is not responsible for any misinterpretation of the provisions of this tender document on account of the Bidders failure to update the Bid documents on changes announced through the website.

3.4 Language of the Bid

- a) The bid prepared by the Bidder as well as all correspondence and documents relating to the bid shall be in English only. The supporting documents and printed literature furnished by the bidder may be in another language provided they are accompanied by an accurate translation in English duly notarised, in which case, for all purposes of the bid, the translation shall govern. Bids received without such translation copy are liable to be rejected.

3.5 Bid Currency

Price should be quoted in Indian Rupees (INR) only and Payment shall be made in Indian Rupees only.

3.6 Contacting Tender Inviting Authority

- a) Bidders shall not make attempts to establish unsolicited and unauthorised contact with the Tender Accepting Authority, Tender Inviting Authority or Tender Scrutiny Committee after the opening of the Tender and prior to the notification of the Award and any attempt by any Bidder to bring to bear extraneous pressures on the Tender Accepting Authority shall be sufficient reason to disqualify the Bidder.
- b) Notwithstanding anything mentioned above, the Tender Inviting Authority or the Tender Accepting Authority may seek bonafide

clarifications from Bidders relating to the tenders submitted by them during the evaluation of tenders.

3.7 Force Majeure

Neither the Purchaser / ELCOT nor the Successful Bidder shall be liable to the other for any delay or failure in the performance of their respective obligations due to causes or contingencies beyond their reasonable control such as:

- Natural phenomena including but not limited to earthquakes, floods and epidemics.
- Acts of any Government authority domestic or foreign including but not limited to war declared or undeclared, priorities and quarantine restrictions.
- Accidents or disruptions including, but not limited to fire, explosions, breakdown of essential machinery or equipment, power and water shortages.
- In such claim of Force Majeure clause, the bidder should submit the written claim, explaining the cause within 7 days of such occurrence and should be accepted by ELCOT/ Purchaser.

3.8 Arbitration

In case of any dispute, the matter will be referred to a sole Arbitrator to be appointed by the Managing Director of ELCOT under the “Arbitration and Conciliation Act 1996”. The arbitration shall be held in Chennai, India and the language shall be English only. Subject to the above, the Courts at Chennai alone only shall have jurisdiction in the matter.

4. Eligibility Criteria

The Bidders should have the following Eligibility for participating in the Tender. The Bidders should enclose documentary evidence for fulfilling the Eligibility in the Technical Bid. If a bidder fails to enclose the documentary proof for eligibility, their bid will be summarily rejected.

4.1 Eligibility

	Eligibility Conditions	Documentary Proof to be submitted
1	The Bidder / OEM shall be a Company registered in India under the Indian Companies Act 1956 / Partnership Firm / Sole Proprietorship Firm and existing for the past 3 years as on 30.06.2018.	The Bidder shall provide the Certificate of Incorporation for Registered Companies /Partnership Deed for Partnership Firms / GST or Service Tax Registration Certificate for Sole Proprietorship Firms.
2	<p>OEM shall be a Company registered in India under the Indian Companies Act 1956 and existing for the past 3 years as on 30.06.2018.</p> <p>This clause / Eligibility criteria is applicable for the OEMs, whose company is registered in India. If the bidder is SI, they can bid with MAF.</p> <p>Consortium OEM authorized SI (System Integrator) or maximum three members Consortium are only eligible to apply.</p> <p>Category 1(WCS): Consortium bidding is permitted with the prime bidder satisfying the Eligibility criteria meant for the System Integrator authorised by OEM or OEM directly.</p> <p>Category 2(LCS): Consortium bidding is permitted with the Prime bidder being a System Integrator having experience in dealing with IT products such as Server, Desktop, Printers, UPS, Display equipments viz. Projectors.</p>	<p>OEM shall provide the Certificate of Incorporation.</p> <p>Letter of Authorisation (MAF) from the manufacturer to represent their product / services for this Tender in the prescribed format shall have to be submitted by the authorized SI (System Integrator) of the OEMs.</p> <p>In case of consortium, maximum three members are permitted. Consortium Agreement dated not earlier than the tender publication date should be submitted. The Agreement should define the roles and responsibilities of the members of the consortium. The members of the consortium should identify one bidder member as 'Prime Bidder' who will act on behalf of this consortium. On becoming successful bidder the consortium agreement should be registered and submitted. An undertaking to the effect should be submitted.</p>

3	<p>Biometric Systems - OEMs or their authorised Dealers/ Distributors are only eligible to Bid.</p> <p>After winning the contract, the OEM Bidder cannot authorize their Dealer / Distributor / Partner to execute the contract, until & unless it is accepted by ELCOT . ELCOT's decision in this regard is final.</p>	<p>Copy of Manufacturing License with Manufacturing capacity for Biometric Systems shall have to be submitted by the BIOMETRIC SYSTEM OEMs.</p> <p>Letter of Authorisation from the manufacturer of Biometric Systems to represent their product for this Tender in the prescribed format shall have to be submitted by the Authorized Dealer / Distributor of the OEMs. Copy of Manufacturing License with Manufacturing capacity of the BIOMETRIC SYSTEMS OEM shall have to be submitted by the Authorized Dealer / Distributor.</p>
4	OEM /Authorized Dealer / Distributor should have 3 years of existence in the Biometric Systems business as on 30.06.2018.	Copy of Purchase Order issued in the name of OEM / Bidder dated prior to 30.06.2015 and Copy of Completion / Performance Certificate for the above Purchase Order should be submitted.
5	The Bidder shall have an Average Annual Turnover of Rs.5 (Five) Crores or above in the last three successive Audited Financial Years.	Copies of the Audited Annual Reports containing the Balance sheets and Profit and Loss account for the last 3 Audited Financial years. (2014-15,2015-16 & 2016-17) shall have to submitted.
6	The Bidder/OEM shall have executed Single order for supply, installation and commissioning of BIOMETRIC SYSTEMS for a value of at least Rs.5 Lakhs and above in Tamil Nadu or 15 Lakhs and above in India for any Government Departments / Organisations / Public Sector Undertakings in the last 3 years.	Relevant copies of Purchase Orders obtained and completion/ performance certificate obtained from the Purchasers should be submitted.
7	<p>The bidder/OEM should have atleast one service centre (Own Service centre) in each region (North, East, South and West as given in the Tender Document)</p> <p>Undertaking letter shall be submitted by the bidder for establishing the service centre, in case they do not have service centre in zones. The service centre should be established as per tender conditions, within 30 days from the date of issuance of LOA and before the issuance of first purchase order.</p>	In case of OEM/ Bidder's Own Service Centre, the copies of the land-line telephone bills (month before the due date)/ any legal proof shall be submitted as a proof for availability of the service centres.

8.	Bidder / Manufacturer should have ISO 9001:2008 certified manufacturing facility.	Should submit copy of <u>VALID</u> ISO 9001:2008 Certificate or equivalent certificate.
9	The bidder should have office in Chennai.	Copies of the land-line telephone bills for the month before the due date / valid rental agreement/ any legal proof should be submitted as a proof for availability of the office in Chennai.
10	The Bidder/OEM shall have their own Website.	The URL of the Website Name and Copy of Home Page Print out shall be submitted.

5. SPECIFICATIONS

Specification for Category 1:**Group A- Android Tablet based Biometric System**

Code	Item Description	Make	Approx Qty.
33146 – 001	Android Tablet based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Type	Integrated Android Tablet based and Single Fingerprint Scanner Device
2	Tablet	Android 6.0 operating system or above.
3	Processor	Quad core 1.2 Ghz Processor or above
4	RAM	2 GB or higher
5	Internal Memory	16 GB or higher
6	External Memory	Expandable upto 32 GB or higher
7	USB Port	Micro USB v2.0 Port – 2 Nos (with OTG support) or One Micro USB v2.0 port and one round pin DC Jack Adaptor for charging on AC 100-240v, 50hz. Shall be provided with Inbuilt surge protection.
8	Camera	Front facing Camera 5 MP (Auto focus with flash) or better
9	Audio	Microphone with High Amplitude Speakers.
10	Display	7" Capacitive touch screen with minimum 1024 X 600 pixel resolution, (16 M colors) or better,
11	GSM SIM Slot	Single GSM SIM slot
12	Battery Backup	Minimum battery backup upto 120 minutes, with minimum 4000mAH battery or above
13	Data Support	2G,3G & 4G data support.
14	Wi-Fi & Lan	Wi-Fi IEEE 802.11b/g/n, LAN – 10/100/1000 Mbps
15	Bluetooth	Bluetooth 4.0 or higher
16	Certification / Compliance	a) CE/FCC certification for Fingerprint scanner, b) RoHS (OEM Declaration), c) BIS certification for Android tablet d) Biometric Systems scanner: STQC and UIDAI Registered Device Certification
17	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of AEBAS with NIC software. 3) Software / Application support 3rd party payroll / HRMS / ERP and other applications.

18	Fingerprint scanner	1) STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0/Level 1 compliance, as applicable. 3) API and SDK for Android 6.0 operating system or latest version 4) Device should be plug and play with any android (6.0 and above) tablet without need of any additional license to be deployed. 5) Bidder has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications
19	Casing	1) Android Tablet and Single Fingerprint Scanning Device should be housed in a rugged casing. 2) The casing should be made of inflexible / metal /other tough material. 3) Casing should be durable and should be able to withstand rough daily operational usage. 4) Tablet should be vertically oriented in the casing as the attendance application to be deployed is designed to run in vertical mode only. 5) 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 (Optional). 6) The casing should have provision to access the power on/off and /or reset function of the tablet through the secured casing.
20	Response time	<5 seconds for an authentication transaction in Client-Server environment.
21	Operating Temperature	0 C to 50 C
22	Warranty	3 years On site Comprehensive warranty
23	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 002	Android Tablet based Biometric Attendance Systems (Non Aadhaar integrated with STQC Certified Finger Print Scanner)	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Type	Integrated Android Tablet based and Single Fingerprint Scanner Device
2	Tablet	Android 6.0 operating system or above.
3	Processor	Quad core 1.2 Ghz Processor or above
4	RAM	2 GB or higher
5	Internal Memory	16 GB or higher
6	External Memory	Expandable upto 32 GB or higher

7	USB Port	Micro USB v2.0 Port – 2 Nos (with OTG support) or
9	File format outputs Single and Multi-page	One Micro USB v2.0 port and one round pin DC Jack Adaptor for charging on AC 100-240v, 50hz. Shall be provided with Inbuilt surge protection.
8	Camera	Front facing Camera 5 MP (Auto focus with flash) or better
9	Audio	Microphone with High Amplitude Speakers.
10	Display	7" Capacitive touch screen with minimum 1024 X 600 pixel resolution, (16M colors) or better,
11	GSM SIM Slot	Single GSM SIM slot
12	Battery Backup	Minimum battery backup upto 120 minutes, with minimum 4000mAH battery or above
13	Data Support	2G,3G & 4G data support.
14	Wi-Fi & Lan	Wi-Fi IEEE 802.11b/g/n, LAN – 10/100/1000 Mbps
15	Bluetooth	Bluetooth 4.0 or higher
16	Certification / Compliance	a) CE/FCC certification for Fingerprint scanner, b) RoHS (OEM Declaration), c) BIS certification for Android tablet d) Biometric Systems scanner: STQC and UIDAI Registered Device Certification
17	Application Compatibility	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated) / database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. 2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software 3) software / Application support 3rd party payroll / HRMS / ERP and other applications. 4) This device should also support Aadhaar based Attendance System Provided by NIC
18	Fingerprint scanner	1) STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0/Level 1 compliance, as applicable. 3) API and SDK for Android 6.0 operating system or latest version 4) Device should be plug and play with any android (6.0 and above) tablet without need of any additional license to be deployed. 5) Bidder has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications
19	Casing	1) Android Tablet and Single Fingerprint Scanning Device should be housed in a rugged casing. 2) The casing should be made of inflexible / metal /other tough material. 3) Casing should be durable and should be able to withstand rough daily operational usage. 4) Tablet should be vertically oriented in the casing as the attendance application to be deployed is designed to run in vertical mode only. 5) 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 (Optional). 6) The casing should have provision to access the power on/off and /or reset function of the tablet through the secured casing.
20	Response time	<5 seconds for an authentication transaction in Client-Server environment.

21	Operating Temperature	0 C to 50 C
22	Warranty	3 years On site Comprehensive warranty
23	Accessories	Power Adapter, USB cable

Add on Item:

Code	Item Description
33146 - 003	Metal Enclosure with Lock and Key (Tablet based Biometric Attendance system)

Group B: Linux based Biometric Attendance System- Non Aadhaar

Code	Item Description	Make	Approx Qty.
33146 – 004 (100 Users)	Linux based Biometric Systems (Non Aadhaar) – 100 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	100 or above
2	Card Storage (RFID)	100 or above
3	Transaction storage	1,00,000
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
6	FAR	<=0.0001%
7	FRR	<=1%
8	Identification speed	<1 sec
9	Algorithm Ver	10
10	Display	2.8" Color TFT or above
11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above
19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required</p>

		software.
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 – 005 (500 Users)	Linux based Biometric Systems (Non Aadhaar) – 500 User without Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl. No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	500 or above
2	Card Storage (RFID)	500 or above
3	Transaction storage	50000
4	Card reader	Card Reader is Optional
5	Fingerprint sensor(Biometric)	500 DPI Optical sensor
6	FAR	<=0.0001%
7	FRR	<=1%
8	Identification speed	<1 sec
9	Algorithm Ver	10
10	Display	2.8" Color TFT or above
11	Keypad	Yes- 4 x 4 Keypad
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB-host
15	Power Supply	DC 5V: 0.8 Amps
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Battery is Optional

19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Attendance System (BAS) Software at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of BAS with the required software.</p>
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 – 006 (500 Users)	Linux based Biometric Systems (Non Aadhaar) – 500 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	500 or above
2	Card Storage (RFID)	500 or above
3	Transaction storage	1,00,000
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
6	FAR	<=0.0001%
7	FRR	<=1%
8	Identification speed	<1 sec
9	Algorithm Ver	10
10	Display	2.8" Color TFT or above
11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above

19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 – 007 (1000 Users)	Linux based Biometric Attendance Systems (Non Aadhaar) – 1000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	1000 or above
2	Card Storage (RFID)	1000 or above
3	Transaction storage	1,00,000
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
6	FAR	<=0.0001%
7	FRR	<=1%
8	Identification speed	<1 sec
9	Algorithm Ver	10
10	Display	2.8" Color TFT or above
11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%

18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above
19	Compatible Software and SDK	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. 2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 008	Linux based Biometric Attendance Systems (Non Aadhaar) - 2000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	2000 or above
2	Card Storage (RFID)	2000 or above
3	Transaction storage	1,00,000
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
6	FAR	<=0.0001%
7	FRR	<=1%
8	Identification speed	<1 sec
9	Algorithm Ver	10
10	Display	2.8" Color TFT or above
11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp
16	Operating Temperature	0°C to 45°C

17	Operating Humidity	20% -80%
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above
19	Compatible Software and SDK	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. 2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 009	Linux based Biometric Attendance Systems (Non Aadhaar) - 3000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	3000 or above
2	Card Storage (RFID)	3000 or above
3	Transaction storage	1,00,000
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
6	FAR	<=0.0001%
7	FRR	<=1%
8	Identification speed	<1 sec
9	Algorithm Ver	10
10	Display	2.8" Color TFT or above
11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp

16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above
19	Compatible Software and SDK	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. 2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 010	Linux based Biometric Attendance Systems (Non Aadhaar) - 5000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	5000 or above
2	Card Storage (RFID)	5000 or above
3	Transaction storage	1,00,000
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
6	FAR	<=0.0001%
7	FRR	<=1%
8	Identification speed	<1 sec
9	Algorithm Ver	10
10	Display	2.8" Color TFT or above
11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker

14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above
19	Compatible Software and SDK	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. 2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 011	Linux based Biometric Attendance Systems (Non Aadhaar) - 9600 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	9600 or above
2	Card Storage (RFID)	9600 or above
3	Transaction storage	2,00,000 or above
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
6	FAR	<=0.0001%
7	FRR	<=1%
8	Identification speed	<0.5 sec
9	Algorithm Ver	10
10	Display	3" Color TFT or above

11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above
19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 012	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (100 Users)	Any Reputed make	1 No.

SL.No	Parameter	Tender Specifications
1	Face capacity	100(1:N), 100(1:1) or above
2	Fingerprints templates	4000
3	ID Card Storage	10000
4	Transaction storage	1,00,000
5	Card reader	Inbuilt proximity card reader
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
7	Push Data	Yes

8	Communication	TCP/IP, RS232/485, USB Host
9	Display	4.3-Inch Touch Screen
10	FAR	<=0.0001%
11	FRR	<=1%
12	Keypad	Yes
13	Schedule Bell/Speaker	Mini Speaker
14	Identification speed	<0.5 sec
15	Wiegand Signal	Output
16	Optional Functions	MiFare Card, Wi-Fi, 3G
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above
18	Power Supply	12V: 3A
19	Temperature	0 °C- 45 °C
20	Humidity	20%-80%
21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>
22	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 013	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (500 Users)	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Face capacity	500(1:N), 500(1:1) or above
2	Fingerprints templates	4000
3	ID Card Storage	10000

4	Transaction storage	1,00,000
5	Card reader	Inbuilt proximity card reader
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
7	Push Data	Yes
8	Communication	TCP/IP, RS232/485, USB Host
9	Display	4.3-Inch Touch Screen
10	FAR	<=0.0001%
11	FRR	<=1%
12	Keypad	Yes
13	Schedule Bell/Speaker	Mini Speaker
14	Identification speed	<0.5 sec
15	Wiegand Signal	Output
16	Optional Functions	MiFare Card, Wi-Fi, 3G
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above
18	Power Supply	12V: 3A
19	Temperature	0 °C- 45 °C
20	Humidity	20%-80%
21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required softw are.</p>
22	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 014	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (1000 Users)	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Face capacity	1000(1:N), 1000(1:1) or above
2	Fingerprints templates	4000
3	ID Card Storage	10000
4	Transaction storage	1,00,000
5	Card reader	Inbuilt proximity card reader
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
7	Push Data	Yes
8	Communication	TCP/IP, RS232/485, USB Host
9	Display	4.3-Inch Touch Screen
10	FAR	$\leq 0.0001\%$
11	FRR	$\leq 1\%$
12	Keypad	Yes
13	Schedule Bell/Speaker	Mini Speaker
14	Identification speed	< 0.5 sec
15	Wiegand Signal	Output
16	Optional Functions	MiFare Card, Wi-Fi, 3G
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above
18	Power Supply	12V: 3A
19	Temperature	0 °C- 45 °C
20	Humidity	20%-80%
21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>
22	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 015	Linux based Biometric	Any Reputed make	1 No.

	Attendance Systems (Non Aadhaar) with Face Recognition (2000 Users)		
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Sl.No	Parameter	Tender Specifications
1	Face capacity	2000(1:N), 2000(1:1) or above
2	Fingerprints templates	4000
3	ID Card Storage	10000
4	Transaction storage	1,00,000
5	Card reader	Inbuilt proximity card reader
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
7	Push Data	Yes
8	Communication	TCP/IP, RS232/485, USB Host
9	Display	4.3-Inch Touch Screen
10	FAR	$\leq 0.0001\%$
11	FRR	$\leq 1\%$
12	Keypad	Yes
13	Schedule Bell/Speaker	Mini Speaker
14	Identification speed	< 0.5 sec
15	Wiegand Signal	Output
16	Optional Functions	MiFare Card, Wi-Fi, 3G
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above
18	Power Supply	12V: 3A
19	Temperature	0 °C- 45 °C
20	Humidity	20%-80%
21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>
22	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 016	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (5000 Users)	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Face capacity	5000(1:N), 5000(1:1) or above
2	Fingerprints templates	4000
3	ID Card Storage	10000
4	Transaction storage	1,00,000
5	Card reader	Inbuilt proximity card reader
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
7	Push Data	Yes
8	Communication	TCP/IP, RS232/485, USB Host
9	Display	4.3-Inch Touch Screen
10	FAR	$\leq 0.0001\%$
11	FRR	$\leq 1\%$
12	Keypad	Yes
13	Schedule Bell/Speaker	Mini Speaker
14	Identification speed	< 0.5 sec
15	Wiegand Signal	Output
16	Optional Functions	MiFare Card, Wi-Fi, 3G
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above
18	Power Supply	12V: 3A
19	Temperature	0 °C- 45 °C
20	Humidity	20%-80%

21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>
22	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 017	Linux Based Fingerprint and Card based Time-Attendance and Door Access Device with POE-100 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	GENERAL - Application	Time- Attendance and Door Access
2	GENERAL - Integration	AEBAS Server (AADHAAR Enabled Biometric Attendance System)
3	GENERAL - Credential Support	Finger, RFID Card and AADHAAR Number
4	GENERAL - Card Support	Mifare Smart Card (Read/Write Supported)
5	GENERAL - Sensor	Suprema Optical Sensor (STQC Certified)
6	GENERAL - Keypad	Touch Screen Based
7	DISPLAY - Display	3.5" TFT Display with Capacitive Touch Panel
8	DISPLAY - Display Size	320 x 240 Pixels
9	COMMUNICATION - Ethernet	Yes (10/100 Mbps on Ethernet)
10	COMMUNICATION - Wi-Fi	Yes (802.11 b/g/n)
11	COMMUNICATION - PoE	Yes (IEEE 802.3 af)
12	COMMUNICATION - Mobile Broadband	Yes (3G/4G Support) Through USB dongle
13	AUDIO-VISUAL - User Photo Display	Yes
14	AUDIO-VISUAL - Buzzer	Yes
15	CONFIGURATION - Platform (Operating System)	Embedded Linux
16	CONFIGURATION - CPU	800 MHz ARM Cortex A8 based Processor

17	CONFIGURATION - Flash Memory	256 MB Flash
18	CONFIGURATION - RAM Memory	512 MB DDR3 RAM
19	CONFIGURATION - Micro SD Card	Yes (Inbuilt 4 GB)
20	ELECTRICAL - Input Power	12 VDC @ 2A
21	ELECTRICAL - Tamper Detection	Yes
22	ENVIRONMENTAL - Humidity	5% to 85% RH Non-Condensing
23	ENVIRONMENTAL - Operating Temperature	0°C to + 50°C (32°F to 122°F)
24	INTERFACES - Exit Switch	Yes
25	INTERFACES - Door Status Sense	Programmable NO, NC, Supervised
26	INTERFACES - Door Lock Relay	Form C, SPDT Relay (Max 2A@30 VDC)
27	INTERFACES - Door Lock Power	Internal 12VDC @ 0.5A or External
28	INTERFACES - Aux-IN	Programmable NO, NC, Supervised
29	INTERFACES - Aux-OUT	Form C, SPDT Relay (Max 2A@30 VDC)
30	INTERFACES - Reader Interface types	RS 232, and Wiegand IN/OUT
31	INTERFACES - Reader Types – Features	1 Port for Card Reader / Finger Reader / Card Finger Combo Reader / Third Party Wiegand reader

Code	Item Description	Make	Approx Qty.
33146 - 018	Linux Based Fingerprint and Card based Time-Attendance and Door Access Device with POE-500 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	GENERAL - Application	Time- Attendance and Door Access
2	GENERAL - Integration	AEBAS Server (AADHAAR Enabled Biometric Attendance System)
3	GENERAL - Credential Support	Finger, RFID Card and AADHAAR Number
4	GENERAL - Card Support	Mifare Smart Card (Read/Write Supported)
5	GENERAL - Sensor	Suprema Optical Sensor (STQC Certified)
6	GENERAL - Keypad	Touch Screen Based
7	DISPLAY - Display	3.5" TFT Display with Capacitive Touch Panel
8	DISPLAY - Display Size	320 x 240 Pixels
9	COMMUNICATION - Ethernet	Yes (10/100 Mbps on Ethernet)
10	COMMUNICATION - Wi-Fi	Yes (802.11 b/g/n)
11	COMMUNICATION - PoE	Yes (IEEE 802.3 af)
12	COMMUNICATION - Mobile Broadband	Yes (3G/4G Support) Through USB dongle

13	AUDIO-VISUAL - User Photo Display	Yes
14	AUDIO-VISUAL - Buzzer	Yes
15	CONFIGURATION - Platform (Operating System)	Embedded Linux
16	CONFIGURATION - CPU	800 MHz ARM Cortex A8 based Processor
17	CONFIGURATION - Flash Memory	256 MB Flash
18	CONFIGURATION - RAM Memory	512 MB DDR3 RAM
19	CONFIGURATION - Micro SD Card	Yes (Inbuilt 4 GB)
20	ELECTRICAL - Input Power	12 VDC @ 2A
21	ELECTRICAL - Tamper Detection	Yes
22	ENVIRONMENTAL - Humidity	5% to 85% RH Non-Condensing
23	ENVIRONMENTAL - Operating Temperature	0°C to + 50°C (32°F to 122°F)
24	INTERFACES - Exit Switch	Yes
25	INTERFACES - Door Status Sense	Programmable NO, NC, Supervised
26	INTERFACES - Door Lock Relay	Form C, SPDT Relay (Max 2A@30 VDC)
27	INTERFACES - Door Lock Power	Internal 12VDC @ 0.5A or External
28	INTERFACES - Aux-IN	Programmable NO, NC, Supervised
29	INTERFACES - Aux-OUT	Form C, SPDT Relay (Max 2A@30 VDC)
30	INTERFACES - Reader Interface types	RS 232, and Wiegand IN/OUT
31	INTERFACES - Reader Types – Features	1 Port for Card Reader / Finger Reader / Card Finger Combo Reader / Third Party Wiegand reader

Code	Item Description	Make	Approx Qty.
33146 - 019	Linux Based Fingerprint and Card based Time-Attendance and Door Access Device with POE-1000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	GENERAL - Application	Time- Attendance and Door Access
2	GENERAL - Integration	AEBAS Server (AADHAAR Enabled Biometric Attendance System)
3	GENERAL - Credential Support	Finger, RFID Card and AADHAAR Number
4	GENERAL - Card Support	Mifare Smart Card (Read/Write Supported)
5	GENERAL - Sensor	Suprema Optical Sensor (STQC Certified)
6	GENERAL - Keypad	Touch Screen Based
7	DISPLAY - Display	3.5" TFT Display with Capacitive Touch Panel
8	DISPLAY - Display Size	320 x 240 Pixels
9	COMMUNICATION - Ethernet	Yes (10/100 Mbps on Ethernet)

10	COMMUNICATION - Wi-Fi	Yes (802.11 b/g/n)
11	COMMUNICATION - PoE	Yes (IEEE 802.3 af)
12	COMMUNICATION - Mobile Broadband	Yes (3G/4G Support) Through USB dongle
13	AUDIO-VISUAL - User Photo Display	Yes
14	AUDIO-VISUAL - Buzzer	Yes
15	CONFIGURATION - Platform (Operating System)	Embedded Linux
16	CONFIGURATION - CPU	800 MHz ARM Cortex A8 based Processor
17	CONFIGURATION - Flash Memory	256 MB Flash
18	CONFIGURATION - RAM Memory	512 MB DDR3 RAM
19	CONFIGURATION - Micro SD Card	Yes (Inbuilt 4 GB)
20	ELECTRICAL - Input Power	12 VDC @ 2A
21	ELECTRICAL - Tamper Detection	Yes
22	ENVIRONMENTAL - Humidity	5% to 85% RH Non-Condensing
23	ENVIRONMENTAL - Operating Temperature	0°C to + 50°C (32°F to 122°F)
24	INTERFACES - Exit Switch	Yes
25	INTERFACES - Door Status Sense	Programmable NO, NC, Supervised
26	INTERFACES - Door Lock Relay	Form C, SPDT Relay (Max 2A@30 VDC)
27	INTERFACES - Door Lock Power	Internal 12VDC @ 0.5A or External
28	INTERFACES - Aux-IN	Programmable NO, NC, Supervised
29	INTERFACES - Aux-OUT	Form C, SPDT Relay (Max 2A@30 VDC)
30	INTERFACES - Reader Interface types	RS 232, and Wiegand IN/OUT
31	INTERFACES - Reader Types – Features	1 Port for Card Reader / Finger Reader / Card Finger Combo Reader / Third Party Wiegand reader

Code	Item Description	Make	Approx Qty.
33146 - 020	Linux Based Fingerprint and Card based Time-Attendance and Door Access Device with POE-2000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	GENERAL - Application	Time- Attendance and Door Access
2	GENERAL - Integration	AEBAS Server (AADHAAR Enabled Biometric Attendance System)
3	GENERAL - Credential Support	Finger, RFID Card and AADHAAR Number
4	GENERAL - Card Support	Mifare Smart Card (Read/Write Supported)
5	GENERAL - Sensor	Suprema Optical Sensor (STQC Certified)
6	GENERAL - Keypad	Touch Screen Based

7	DISPLAY - Display	3.5" TFT Display with Capacitive Touch Panel
8	DISPLAY - Display Size	320 x 240 Pixels
9	COMMUNICATION - Ethernet	Yes (10/100 Mbps on Ethernet)
10	COMMUNICATION - Wi-Fi	Yes (802.11 b/g/n)
11	COMMUNICATION - PoE	Yes (IEEE 802.3 af)
12	COMMUNICATION - Mobile Broadband	Yes (3G/4G Support) Through USB dongle
13	AUDIO-VISUAL - User Photo Display	Yes
14	AUDIO-VISUAL - Buzzer	Yes
15	CONFIGURATION - Platform (Operating System)	Embedded Linux
16	CONFIGURATION - CPU	800 MHz ARM Cortex A8 based Processor
17	CONFIGURATION - Flash Memory	256 MB Flash
18	CONFIGURATION - RAM Memory	512 MB DDR3 RAM
19	CONFIGURATION - Micro SD Card	Yes (Inbuilt 4 GB)
20	ELECTRICAL - Input Power	12 VDC @ 2A
21	ELECTRICAL - Tamper Detection	Yes
22	ENVIRONMENTAL - Humidity	5% to 85% RH Non-Condensing
23	ENVIRONMENTAL - Operating Temperature	0°C to + 50°C (32°F to 122°F)
24	INTERFACES - Exit Switch	Yes
25	INTERFACES - Door Status Sense	Programmable NO, NC, Supervised Form C, SPDT Relay (Max 2A@30 VDC)
26	INTERFACES - Door Lock Relay	Internal 12VDC @ 0.5A or External
27	INTERFACES - Door Lock Power	Internal 12VDC @ 0.5A or External
28	INTERFACES - Aux-IN	Programmable NO, NC, Supervised Form C, SPDT Relay (Max 2A@30 VDC)
29	INTERFACES - Aux-OUT	Programmable NO, NC, Supervised Form C, SPDT Relay (Max 2A@30 VDC)
30	INTERFACES - Reader Interface types	RS 232, and Wiegand IN/OUT
31	INTERFACES - Reader Types – Features	1 Port for Card Reader / Finger Reader / Card Finger Combo Reader / Third Party Wiegand reader

Code	Item Description	Make	Approx Qty.
33146 - 021	Linux Based Fingerprint and Card based Time-Attendance and Door Access Device with POE-5000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	GENERAL - Application	Time- Attendance and Door Access
2	GENERAL - Integration	AEBAS Server (AADHAAR Enabled Biometric Attendance System)
3	GENERAL - Credential Support	Finger, RFID Card and AADHAAR Number

4	GENERAL - Card Support	Mifare Smart Card (Read/Write Supported)
5	GENERAL - Sensor	Suprema Optical Sensor (STQC Certified)
6	GENERAL - Keypad	Touch Screen Based
7	DISPLAY - Display	3.5" TFT Display with Capacitive Touch Panel
8	DISPLAY - Display Size	320 x 240 Pixels
9	COMMUNICATION - Ethernet	Yes (10/100 Mbps on Ethernet)
10	COMMUNICATION - Wi-Fi	Yes (802.11 b/g/n)
11	COMMUNICATION - PoE	Yes (IEEE 802.3 af)
12	COMMUNICATION - Mobile Broadband	Yes (3G/4G Support) Through USB dongle
13	AUDIO-VISUAL - User Photo Display	Yes
14	AUDIO-VISUAL - Buzzer	Yes
15	CONFIGURATION - Platform (Operating System)	Embedded Linux
16	CONFIGURATION - CPU	800 MHz ARM Cortex A8 based Processor
17	CONFIGURATION - Flash Memory	256 MB Flash
18	CONFIGURATION - RAM Memory	512 MB DDR3 RAM
19	CONFIGURATION - Micro SD Card	Yes (Inbuilt 4 GB)
20	ELECTRICAL - Input Power	12 VDC @ 2A
21	ELECTRICAL - Tamper Detection	Yes
22	ENVIRONMENTAL - Humidity	5% to 85% RH Non-Condensing
23	ENVIRONMENTAL - Operating Temperature	0°C to + 50°C (32°F to 122°F)
24	INTERFACES - Exit Switch	Yes
25	INTERFACES - Door Status Sense	Programmable NO, NC, Supervised
26	INTERFACES - Door Lock Relay	Form C, SPDT Relay (Max 2A@30 VDC)
27	INTERFACES - Door Lock Power	Internal 12VDC @ 0.5A or External
28	INTERFACES - Aux-IN	Programmable NO, NC, Supervised
29	INTERFACES - Aux-OUT	Form C, SPDT Relay (Max 2A@30 VDC)
30	INTERFACES - Reader Interface types	RS 232, and Wiegand IN/OUT
31	INTERFACES - Reader Types – Features	1 Port for Card Reader / Finger Reader / Card Finger Combo Reader / Third Party Wiegand reader

Group C- Linux based Biometric Attendance System - Aadhaar

Code	Item Description	Make	Approx Qty.
33146 - 022	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 100 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above
3	Memory	1GB RAM or above, 8GB Flash or above
4	Operating System	LINUX OS (3.0.35) or above
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)
6	Interfaces/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1
7	Speaker	1W Audio Speaker supporting MP3 and WAV file
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n
11	GPS	Optional
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.

15	Operating Temperature	0°C to 55°C
16	Safety	CE certified
17	Drop Test	3-4 Feet Drop test
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.
21	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 023	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 500 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above
3	Memory	1GB RAM or above, 8GB Flash or above
4	Operating System	LINUX OS (3.0.35) or above
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)
6	Interfaces /Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1
7	Speaker	1W Audio Speaker supporting MP3 and WAV file
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head

		stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n
11	GPS	Optional
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.
15	Operating Temperature	0°C to 55°C
16	Safety	CE certified
17	Drop Test	3-4 Feet Drop test
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.
21	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 024	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 1000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD
2	Micro Process	ARM Cortex A8 @ 1 Ghz or above

	or	
3	Memory	1GB RAM or above, 8GB Flash or above
4	Operating System	LINUX OS (3.0.35) or above
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)
6	Interfaces/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1
7	Speaker	1W Audio Speaker supporting MP3 and WAV file
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n
11	GPS	Optional
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.
15	Operating Temperature	0°C to 55°C
16	Safety	CE certified
17	Drop Test	3-4 Feet Drop test
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.
21	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 025	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 2000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above
3	Memory	1GB RAM or above, 8GB Flash or above
4	Operating System	LINUX OS (3.0.35) or above
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)
6	Interfaces/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1
7	Speaker	1W Audio Speaker supporting MP3 and WAV file
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n
11	GPS	Optional
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.
15	Operating Temperature	0°C to 55°C

	ture	
16	Safety	CE certified
17	Drop Test	3-4 Feet Drop test
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.
21	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - 026	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 5000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above
3	Memory	1GB RAM or above, 8GB Flash or above
4	Operating System	LINUX OS (3.0.35) or above
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)
6	Interfaces/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1
7	Speaker	1W Audio Speaker supporting MP3 and WAV file
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI

		applications
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n
11	GPS	Optional
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.
15	Operating Temperature	0°C to 55°C
16	Safety	CE certified
17	Drop Test	3-4 Feet Drop test
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.
21	Accessories	Power Adapter, USB cable

Add on Items for Group B and Group C:

Code	Item Description
33146-027	Wifi Facility for Linux Based Bio Metric Attendance System
33146-028	GPRS for Linux Based Bio Metric Attendance System
33146-029	Metal Enclosure with Lock and key (Linux Based Biometric Attendance System)

Inlieu items for Group B and Group C:

Code	Item Description
33146-030	HID Card Reader in lieu of Proximity card reader
33146-031	Mifare Card reader in lieu of Proximity Card Reader

Group D- Multi Door Access Control

Code	Item Description	Make	Approx Qty.
33146 - 032	Multi Door Access Controller - Finger + Card (Up to 4 Doors)	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Processor	32Bit MIPS Processor with 32MB RAM, 128 Flash Memory
2	Fingerprint Templates Capacity	3,000 or above
3	Card Storage capacity	30,000 or above
4	Event Buffer	1,00,000
5	Communication	TCP/IP, RS485
6	Reader Port	1 No extended RS485 Port
7	input port	8ea (Exit button #1, Exit Button #2, Exit Button #3, Exit Button #4, Door sensor #1, Door sensor #2, Door Sensor #3, Door Sensor #4)
8	Reader	Finger Print & Proximity Card Reader
9	Input power	9.6-14.4V DC 5A
10	Compatible Software	1) Bidder should provide the necessary controller software free of cost, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. Bidder has to provide all necessary technical support for the door access control.

Code	Item Description	Make	Approx Qty.
33146 - 033	Multi Door Access Controller -USB Single Finger Print Scanner for enrolment	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Sensor	Optical Finger print sensor
2	Resolution	Up to 500 DPI
3	Image Size	15.5 * 18 mm
4	Interface	USB 1.1 / 2.0
5	Operating System	Windows 2000, XP, 2003, Vista, 7 (32/64 bit)
6	Operating Temperature	0°C - 45°C
7	Operating Humidity	20% - 80%
8	Other Features	High performance fingerprint scanner for precise authentication for PC or network security
		Excellent adaptation for dry and wet fingerprint
		USB interface facilitates communication

Code	Item Description	Make	Approx Qty.
33146 - 034	Multi Door Access Controller - USB Card Reader for Enrolment.	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Read Range	Up to 10 CM
2	Card Type	Proximity/ MiFare/HID
3	Power / Current	USB 5V DC / Max. 100mA
4	LED Indicator	2 Color LED Indicators (Red & Green)
5	Beeper	Yes
6	Operating Frequency	125KHz (CR10E) 13.56MHz (CR10M)
7	Operating temperature	-10° to +70°
8	Operating Humidity	10% to 90% (relative humidity non-considered)
9	Operating temperature	-20° to +65°C
10	Operating Humidity	10% to 90% (relative humidity non-considered)

11	Color	Black
12	Operating system support	IEmlation Keypad (Compatible with WIN98/2000/XP/VISTA/7 and Above)

Code	Item Description	Make	Approx Qty.
33146 - 035	Finger Print Reader for Entry & Exit.	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Sensor	Optical Finger Print Sensor
2	Resolutions	500 Dpi
3	Communication	RS 485
4	Voice Prompt	Yes

Code	Item Description	Make	Approx Qty.
33146 - 036	Card Reader for Entry & Exit	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Communication	RF ID
2	card type	Proximity/MiFare/HID
3	Voice Prompt	Yes

Code	Item Description	Make	Approx Qty.
33146 - 037	Mifare Smart Card Based Door Controller for Access Control and Time Attendance (for Enrolment)	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	GENERAL - Credential Support	Card
2	GENERAL - User Capacity	10,000

3	GENERAL - Type of Card	Mifare Smart Card
4	CAPACITY - Cards Per User	2
5	CAPACITY - Events Buffer	50,000
6	COMMUNICATION - RS-485	Yes (115.2 Kbps)
7	COMMUNICATION - Battery Backup	No
8	COMMUNICATION - Ethernet	Yes (10/100 Mbps)
9	COMMUNICATION - PoE	Yes (IEEE 802.3 af)
10	INTERFACES - Exit Switch	Yes
11	INTERFACES - Door Status Sense	Programmable NO, NC, Supervised
12	INTERFACES - Door Lock Relay	Form C, SPDT Relay (Max 1A@30 VDC)
13	INTERFACES - Door Lock Power	Internal 12VDC @ 0.5A or External
14	INTERFACES - Reader Interface types	RS 232, and Wiegand IN/OUT
15	AUDIO-VISUAL - Buzzer	Yes
16	AUDIO-VISUAL - LED	Single LED (Tri-Color)
17	CONFIGURATION - CPU	32 Bit Micro-controller
18	CONFIGURATION - Flash Memory	512 KB Internal Memory + 4 MB External Flash
19	CONFIGURATION - RAM Memory	128 KB SRAM
20	ELECTRICAL - Input Power	12 VDC @ 2A
21	ENVIRONMENTAL - Humidity	5% to 85% RH Non-Condensing
22	OTHERS - System Integration	Software API for Software Integration
23	OTHERS - Operational Mode	Direct Door with Server
24	OTHERS - IP65	Verified
25	OTHERS - Real Time Clock	Rechargable RTC with NTP Server/ GPS Clock
26	OTHERS - Tamper Detection	Yes
27	OTHERS - Certification	CE, BIS

Code	Item Description	Make	Approx Qty.
33146 - 038	Optical Finger Print and Card Based Door Controller for Access Control and time Attendance with STQC Certified	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	GENERAL - Credential Support	Card, PIN and Finger
2	GENERAL - Display	128 x 64 Dot Matrix Display
3	GENERAL - Keypad	16 Touch Sense Keys
4	CAPACITY - User Capacity	50,000 (Max. 9600 in 1:N Mode)
5	CAPACITY - Template Per User	Up to 10 (Single Template per Finger Mode), Up to 5 (Dual Template per Finger Mode)

6	CAPACITY - Template Storage Capacity	9600 in 1:N Mode and 1 lac in 1:1 Mode
7	CAPACITY - Cards Per User	Upto 2
8	CAPACITY - Event Buffer	5,00,000
9	CAPACITY - Types of Cards Support	Proximity Card (EM Prox) & Smart Card (Mifare and HID iClass) (Card Module Required)
10	COMMUNICATION - Mobile Broadband	Yes (2G/3G Support)
11	COMMUNICATION - RS-485	Yes (115.2 Kbps)
12	COMMUNICATION - Ethernet	Yes (10/100 Mbps on Ethernet)
13	INTERFACES - Exit Switch	Yes
14	INTERFACES - Door Status Sense	Programmable NO, NC, Supervised
15	INTERFACES - Door Lock Relay	Form C, SPDT Relay (Max 2A@30 VDC)
16	INTERFACES - Door Lock Power	Internal 12VDC @ 0.5A or External
17	INTERFACES - Aux-IN	Programmable NO, NC, Supervised
18	INTERFACES - Aux-OUT	Form C, SPDT Relay (Max 1A@30 VDC)
19	INTERFACES - Reader Interface types	RS 232, and Wiegand IN only
20	INTERFACES - Reader Types	1 Port for Card Reader / Finger Reader / Card Finger Combo Reader / Third Party Wiegand reader
21	INTERFACES - USB	2 USB Ports (1 for Data Transfer and 1 for 2G-3G Dongle)
22	AUDIO- VISUAL - Buzzer	Yes
23	AUDIO- VISUAL - LED	4 LEDs (Status, Alarm, Allowed, Denied)
24	CONFIGURATION - CPU	400 MHz ARM 9 based Processor
25	CONFIGURATION - Flash Memory	256 MB Flash
26	CONFIGURATION - RAM Memory	128 MB DDR2 RAM
27	ELECTRICAL - Input Power	12 VDC @ 2A
28	ELECTRICAL - Reader Power Output	Internal 12 VDC @ 0.5 A or External
29	ELECTRICAL - Battery Backup	No
30	ENVIRONMENTAL - Humidity	5% to 85% RH Non-Condensing
31	ENVIRONMENTAL - Operating Temperature	0°C to + 50°C (32°F to 122°F)
32	ENVIRONMENTAL - Certification	CE and RoHS
33	OTHERS - System Integration	Software API for Software Integration
34	OTHERS - Real Time Clock	Rechargeable RTC with NTP Server/ GPS Clock
35	OTHERS - Operational Mode	Direct Door with Server
36	OTHERS - Tamper Detection	Yes
37	SENSOR SPECIFICATIONS - Sensing Area	15.9mm x 17.9mm (0.62" x 0.70")
38	SENSOR SPECIFICATIONS - Sensor Technology	Suprema Optical Sensor with STQC certified
39	SENSOR SPECIFICATIONS - Image Size in Pixels	288 x 288
40	SENSOR SPECIFICATIONS - Image Resolution in DPI	500
41	SENSOR SPECIFICATIONS - Identification Time	< 1sec
42	SENSOR SPECIFICATIONS - Equal Error rate (ERR)	< 0.1%
43	SENSOR SPECIFICATIONS - Water-proof	IP65, Scratch free
44	SENSOR SPECIFICATIONS - Verification Time	< 1sec (less than 3000 templates)

45	SENSOR SPECIFICATIONS - Template Size	384 bytes
46	SENSOR SPECIFICATIONS - Fingerprint Module	ISO 19794-2 Compliant
47	ISO Card Support - Proximity - 125 KHz	No ISO Standards
48	ISO Card Support - Mifare Card - 13.56 MHz	ISO 14443 A Supported
49	ISO Card Support - HID iCLASS Card - 13.56 MHz	ISO 14443 A and ISO 15693 Supported
50	ISO Card Support - DesFire Card - 13.56 MHz	ISO 14443 A Supported (Read Only)

Code	Item Description	Make	Approx Qty.
33146 - 039	Fingerprint and Mifare card based exit reader	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	GENERAL - Credential Support	Finger and Card
2	GENERAL - Sensor	Optical
3	GENERAL - Type of Cards	Mifare Smart
4	COMMUNICATION - RS 232	Yes
5	AUDIO-VISUAL - Buzzer	Yes
6	AUDIO-VISUAL - LED	Single LED (Tri-Color)
7	ELECTRICAL - Input Power	12 VDC @ 0.1A
8	ENVIRONMENTAL - Humidity	5% to 85% RH Non-Condensing
9	ENVIRONMENTAL - Operating Temperature	0°C to + 50°C (32°F to 122°F)
10	OTHERS - Tamper Detection	Yes
11	OTHERS - IP 65	Verified
12	SENSOR SPECIFICATIONS - Sensing Area	15.9mm x 17.9mm (0.62" x 0.70")
13	SENSOR SPECIFICATIONS - Sensor Technology	Suprema Optical Sensor with STQC certified
14	SENSOR SPECIFICATIONS - Image Size in Pixels	288 x 288
15	SENSOR SPECIFICATIONS - Image Resolution in DPI	500
16	SENSOR SPECIFICATIONS - Identification Time	< 1sec
17	SENSOR SPECIFICATIONS - Equal Error rate (ERR)	< 0.1%
18	SENSOR SPECIFICATIONS - Water-proof	IP 65, Scratch Resistance
19	SENSOR SPECIFICATIONS - Verification Time	< 1sec (less than 3000 templates)
20	SENSOR SPECIFICATIONS - Template Size	384 bytes
21	SENSOR SPECIFICATIONS - Fingerprint Module	ISO 19794-2 Compliant

Code	Item Description	Make	Approx Qty.
33146 - 040	ID Card Printer	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Print Technology	300 Dpi Colour Dye sublimation, monochrome, thermal rewritable
2	Feed System	Manual and hopper Fed
3	Card Capacity	100 input / 30 output
4	Printing	Single-sided, Double-sided
5	Smart Card Encoders	Contact Chip, Mifare, DESFire and HID I Class other encoders
6	Operating systems	Windows 7, 8, 8.1, 10 (32 bit and 64 bit), GNU/Linux and Mac OS X 10.9.0 upwards
7	USB Connection	USB 2.0, USB 3.0
8	Ethernet	RJ 45 Connectivity
9	Printing Speed	Colour - > 100 Cards Per Hour Monochrome - > 500 cards Per Hour
10	Accept Card Dimension	ISO CR80 85.6mm x 54mm / 3.375" x 2.125" ISO CR79 83.9mm x 51mm / 3.303" x 2.051" 0.51 mm to 1.02mm / 20mil to 40 mil
11	Weight	5.5kg / 12lbs
12	Printer size	Height: 233 mm / 9.2" Length: 453mm / 17.8" Width: 206mm / 8.1"
13	Environmental Operating Range	Office Environment 10o C to 30o C
14	Supported Print	ID Cards, QR Code and Barcode Printing
15	Supported Cards	RFID proximity , Mifare Card, HID iclass
16	Software	ID Card design Software, software for writing information in Mifare Card, HIDiclass and necessary SDK should be provide along with the printer.

Add on item for Group D

Code	Item Description
33146-041	Cat 6 UTP LAN Cable
33146-042	Cable laying with 20 mm Conduit Per Meter
33146-043	Electronic Magnetic Lock (for Single Door) with suitable bracket and standard accessories
33146 – 044	Electronic Magnetic Lock (for Double Door) with suitable bracket and standard accessories
33146-045	Exit Manual Switch
33146-046	Finger Print Reader Optical
33146-047	RFID Reader (proximity Card)
33146-048	RFID Reader (HID Card)
33146-049	RFID reader (Mifare Card)
33146-050	RFID Reader (HID Card) with Finger Print
33146-051	RFID reader (Mifare Card) with finger Print
33146-052	RFID reader (proximity Card) with finger Print
33146-053	USB Single Finger Print Scanner for Enrolment
33146-054	USB Proximity card Reader for Enrolment
33146-055	USB Mifare card Reader for Enrolment
33146-056	USB HID card Reader for Enrolment
33146-057	Huawei E3351 Data Card or Equivalent
33146-058	Network Switch 10/100/1000 (8 Port) (Unmanaged)
33146-059	Network Switch 10/100/1000 (16 Port) (Unmanaged)
33146-060	Network Switch 10/100/1000 (24 Port) (Unmanaged)
33146-061	Network Switch 10/100/1000 (48 Port) (Unmanaged)
33146-062	Proximity Card
33146-063	Mifare Card
33146-064	HID Card
33146-065	Normal Plain Plastic Card.
33146-066	Wall Mounting Kit for Biometric Devices.
33146-067	Printing charges per card on Proximity/Mifare/HID card for ID Card
33146-068	Color dye film for ID Card Printer-(150 Cards Double Printing)

33146-069	Monochrome dye film for ID Card Printer-(1000 Cards Single Side Printing)
33146-070	Cleaning kit for ID Card Printer

Group E- Aadhaar Enrolment and authentication Devices

Code	Item Description	Make	Approx Qty.
33146 - 071	Finger Print Enrolment Device (FED 4+4+2 Fingers)	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Scanner Resolution	500 dpi or above and 256 level grey scale, 8 bit
2	Data and Power	USB 2.0 and above
3	Active Platen Area	3.2 x 3.0 in. (81.28 x 76.2 mm)
4	Time for Scanning a finger print	Maximum 4 sec for finger print
5	Operating System	FED should be compatible with all Operating Systems (Windows and all OS) of the Desktops and all
6	LED Indicators	Power, status and fingerprint image quality
7	Capture Format	Single finger rolls, single finger flats, four finger slaps, two thumbs
8	Fingerprint Image Format	Fingerprint image data shall be stored and interchanged using the data format specified in ANSI/NIST-2011 "Data Format for the Interchange of Fingerprint Information", WSQ, NIST, BMP, ISO Formats. The configuration of the data shall include Transaction information, User-Defined Text and Fingerprint image data (high-resolution grayscale) or the latest. FED must have capacity to perform local search at PS level of at least 10000 persons.
9	Image Quality	Complies with FBI's IAFIS Image Quality. Electronic images must be of sufficient forensic quality to allow for: (i) Conclusive fingerprint comparisons (identification or non-identification decision); (ii) fingerprint Classification; (iii) automatic feature detection; and (iv) Overall National Automated Fingerprint Identification System (NAFIS) search reliability.
10	Enrolment	If the quality of acquired finger print is lesser than 60% of the desired quality, the system should reject the fingerprint. Further, system should allow for a maximum of 3 attempts to capture fingerprint, and if still the quality level is lower than the desired, the system should prompt the operator to take manual prints.
11	Mandatory Features	(i) Capture forensic grade high resolution fingerprints of all ten fingers (ii) Use latest technologies to minimize noise and capture high quality fingerprints (iii) The device should also have default fingerprint reader functionality for querying the FED (iv) FED software for ensuring instant data transfer and interoperability (NAFIS application for ensuring Interoperability and accurate

		data transfer from FED station to NAFIS via state/UT headquarter) (v) Fingerprint live-scan collection to confirm to the specification sets for performance standards on Fingerprint image scanners for resolution, geometric image accuracy, modulation transfer function, signal-to-noise ratio, grayscale range, grayscale linearity, an grayscale uniformity (vi) The fingerprint ridge pattern (nail to nail) shall be clearly visible (smudge-free) with differentiable ridges and valleys for the entire area around the core and delta
12	Certifications	FBI IAFIS IQS Appendix-F, IP 54 compliance, FCC, CE, UL or equivalent certification from reputed Labs in India
13	Compatible Software and SDK/API	SDK should work with existing applications used by the departments and also for the new applications. Bidder has to provide all necessary SDK / API / technical support for the integration of FED Device with the required software free of cost when ever required.

Code	Item Description	Make	Approx Qty.
33146 – 072	PALM Print Device Specification (Palm and 10 Fingers)	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Image Resolution	500dpi
2	Palm / Fingerprint Image Dimensions	Palm – 5.0" x 5.1" (127 mm x 130 mm) Rolled fingers – 1.5" x 1.6" (38 mm x 41 mm) ID Flats – 3.0" x 3.2" (76 mm x 81 mm)
3	PC Interface	USB 2.0 or above
4	Scanner Size	Tenderer as specify
5	Capture Mechanism	Automatic, via foot pedal switch or capture button
6	Palm / Fingerprint Image Format	Standard Output Formats creation of ANSI/NIST-2011 "Data Format for the Interchange of Fingerprint Information", WSQ, NIST, BMP, ISO Formats.
7	Operating System	FED should be compatible with all Operating Systems (Windows and all OS) of the Desktops and all
8	Minimum Hardware Requirements	Intel i3 Quad-Core Processor with 1.8 GHz, >= 4GB RAM
9	Image Quality	FBI IAFIS IQS CJIS-RS-0010(V7) Appendix F certified
10	Humidity	10-90% relative humidity, non-condensing
11	Power Supply	100-240 V AC auto-adjusting; 50-60 Hz, 40 W maximum

12	Certifications	FBI IAFIS IQS Appendix-F, IP 54 compliance, FCC, CE, UL, BIS / ISO-60950-1, RoHS
13	Compatible Software and SDK/API	SDK should work with existing applications used by the departments and also for the new applications. Bidder has to provide all necessary SDK / API / technical support for the integration of Palm Device with the required software free of cost when ever required.

Code	Item Description	Make	Approx Qty.
33146 - 073	Single IRIS Scanner	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Spatial Resolution	>60% @ 1.0 LP/mm
2	Pixel Resolution	>18 pixels/mm
3	Pixel Depth	8 bits/pixel
4	Image Margins Left & Right	>=0.6x iris radius
5	Top & Bottom	>=0.2x iris radius
6	Imaging Wave Length	700-900 nm
7	Output Image	KIND1 to KIND7 with JPEG2000 Compression
8	Capture Mode	Auto capture with built-in quality check
9	Capture time	< 2 sec
10	Safety Exempt Group	As per IEC 62471:2006-07
11	Health - Safety	RoHS Complaint
12	ESD Air discharge	+/- 8KV,
13	contact type	+/-4KV
14	Radiated Emission	FCC Part 15B/IEC: CISPR 22 CLASS B Standard
15	Radiated Immunity	As per IEC/EN 61000-4 3:2006+A2:2010
16	Connectivity	USB 2.0 and above
17	Operating System	Support Windows, Android, Linux
18	Power Consumption:	< 300 mA (Active Mode) & < 60 mA (Sleep Mode)
19	Certification-	UIDAI Certified RD Compliant, BIS

Code	Item Description	Make	Approx Qty.
33146 - 074	Dual IRIS Scanner	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Iris Diameter	210 mm
2	Spatial resolution @ 4.0 Lp/mm	60 % or higher
3	Resolution	16 Pixels/mm or Higher
4	No. of simultaneous captured eyes	2 nos.
5	View finder	External with Capture Distance > 750mm, Capture volume (width/height/depth) > 250x500x500 mm, Exposure Time: 15 ms

6	Special Spread - Power in any 100nm band	35 Watt or above
7	Imaging wavelength	700-900 nm
8	Scan type	Progressive
9	Image margins -Left & right	0.50 x iris diameter mm
10	Image margins -Top & bottom	0.25 x iris diameter mm
11	Pixel Depth	8 bits/pixel
12	Image evaluation frame rate	>= 5 frames/sec, continuous image capture
13	Capture mode	Dual Optical System for simultaneous capture of both iris images. Auto capture with built-in quality check (incorporates NIST quality considerations).
14	Sensor signal to noise ratio	<= 36 DB
15	Connectivity	USB, USB-IF certified or Networked TCP/IP
16	Operating System Compatibility	Linux /Windows (Latest)
17	Software API	Compliant with latest UIDAI Device Capture Specifications Linux/Windows 64 bit certified by UIDAI.
18	Certifications	STQC Certified (Certificate to be given with technical bid) , ISO/IEC 19794-6, FCC Class A, RoHS, IP54 compliant, WHQL, CE.
19	Certifications for Eye Safety	Class 1 LED Product; IEC/EN 62471 standards

Add on Item for Group E

Code	Item Description
33146-075	UIDAI Certified GPS Device - (Built in Roof Mount Magnet / GPS Patch Antenna.)
33146-076	LED Focus Light – 60watt, LED with 2Mtrs wire and on/off switch.
33146-077	Surge Protector Spike – 6 nos. of 5A sockets, fuse, on/off switch, Indian Style /ISO Certified
33146-078	White Screen – Size: 4 * 5 feet, non Reflecting & opaque, Mountable with stand

Specification for Category 2:

Category 2- Lease Cum Service Model

Group A- Android Tablet based Biometric System

Code	Item Description	Make	Approx Qty.
33146 - LCS - 001	Android Tablet based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Type	Integrated Android Tablet based and Single Fingerprint Scanner Device
2	Tablet	Android 6.0 operating system or above.
3	Processor	Quad core 1.2 Ghz Processor or above
4	RAM	2 GB or higher
5	Internal Memory	16 GB or higher
6	External Memory	Expandable upto 32 GB or higher
7	USB Port	Micro USB v2.0 Port – 2 Nos (with OTG support) or One Micro USB v2.0 port and one round pin DC Jack Adaptor for charging on AC 100-240v, 50hz. Shall be provided with Inbuilt surge protection.
8	Camera	Front facing Camera 5 MP (with flash) or better
9	Audio	Microphone with High Amplitude Speakers.
10	Display	7" Capacitive touch screen with minimum 1024 X 600 pixel resolution, (16 M colors) or better,
11	GSM SIM Slot	Single GSM SIM slot
12	Battery Backup	Minimum battery backup upto 120 minutes, with minimum 4000mAH battery or above
13	Data Support	2G,3G & 4G data support.
14	Wi-Fi & Lan	Wi-Fi IEEE 802.11b/g/n, LAN – 10/100/1000 Mbps
15	Bluetooth	Bluetooth 4.0 or higher
16	Certification / Compliance	a) CE/FCC certification for Fingerprint scanner, b) RoHS (OEM Declaration), c) BIS certification for Android tablet d) Biometric Systems scanner: STQC and UIDAI Registered Device Certification
17	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of AEBAS with NIC software. 3) Software / Application support 3rd party payroll / HRMS / ERP and

		other applications.
18	Fingerprint scanner	1) STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0/Level 1 compliance, as applicable. 3) API and SDK for Android 6.0 operating system or latest version 4) Device should be plug and play with any android (6.0 and above) tablet without need of any additional license to be deployed. 5) Bidder has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications
19	Casing	1) Android Tablet and Single Fingerprint Scanning Device should be housed in a rugged casing. 2) The casing should be made of inflexible / metal /other tough material. 3) Casing should be durable and should be able to withstand rough daily operational usage. 4) Tablet should be vertically oriented in the casing as the attendance application to be deployed is designed to run in vertical mode only. 5) The casing should have provision to access the power on/off and /or reset function of the tablet through the secured casing.
20	Response time	<5 seconds for an authentication transaction in Client-Server environment.
21	Operating Temperature	0 C to 50 C
22	Warranty	3 years On site Comprehensive warranty
23	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - LCS - 002	Android Tablet based Biometric Attendance Systems (Non Aadhaar integrated with STQC Certified Finger Print Scanner)	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Type	Integrated Android Tablet based and Single Fingerprint Scanner Device
2	Tablet	Android 6.0 operating system or above.
3	Processor	Quad core 1.2 Ghz Processor or above
4	RAM	2 GB or higher
5	Internal Memory	16 GB or higher
6	External Memory	Expandable upto 32 GB or higher
7	USB Port	Micro USB v2.0 Port – 2 Nos (with OTG support) or

9	File format outputs Single and Multi-page	One Micro USB v2.0 port and one round pin DC Jack Adaptor for charging on AC 100-240v, 50hz. Shall be provided with Inbuilt surge protection.
8	Camera	Front facing Camera 5 MP (with flash) or better
9	Audio	Microphone with High Amplitude Speakers.
10	Display	7" Capacitive touch screen with minimum 1024 X 600 pixel resolution, (16M colors) or better,
11	GSM SIM Slot	Single GSM SIM slot
12	Battery Backup	Minimum battery backup upto 120 minutes, with minimum 4000mAH battery or above
13	Data Support	2G,3G & 4G data support.
14	Wi-Fi & Lan	Wi-Fi IEEE 802.11b/g/n, LAN – 10/100/1000 Mbps
15	Bluetooth	Bluetooth 4.0 or higher
16	Certification / Compliance	a) CE/FCC certification for Fingerprint scanner, b) RoHS (OEM Declaration), c) BIS certification for Android tablet d) Biometric Systems scanner: STQC and UIDAI Registered Device Certification
17	Application Compatibility	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated) / database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. 2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software 3) software / Application support 3rd party payroll / HRMS / ERP and other applications. 4) This device should also support Aadhaar based Attendance System Provided by NIC
18	Fingerprint scanner	1) STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0/Level 1 compliance, as applicable. 3) API and SDK for Android 6.0 operating system or latest version 4) Device should be plug and play with any android (6.0 and above) tablet without need of any additional license to be deployed. 5) Bidder has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications
19	Casing	1) Android Tablet and Single Fingerprint Scanning Device should be housed in a rugged casing. 2) The casing should be made of inflexible / metal /other tough material. 3) Casing should be durable and should be able to withstand rough daily operational usage. 4) Tablet should be vertically oriented in the casing as the attendance application to be deployed is designed to run in vertical mode only. 5) The casing should have provision to access the power on/off and /or reset function of the tablet through the secured casing.
20	Response time	<5 seconds for an authentication transaction in Client-Server environment.
21	Operating Temperature	0 C to 50 C
22	Warranty	3 years On site Comprehensive warranty
23	Accessories	Power Adapter, USB cable

Group B: Linux based Biometric Attendance System- Non Aadhaar

Code	Item Description	Make	Approx Qty.
33146- LCS – 003 (100 Users)	Linux based Biometric Systems (Non Aadhaar) – 100 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	100 or above
2	Card Storage (RFID)	100 or above
3	Transaction storage	1,00,000
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
6	FAR	$\leq 0.0001\%$
7	FRR	$\leq 1\%$
8	Identification speed	< 1 sec
9	Algorithm Ver	10
10	Display	2.8" Color TFT or above
11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above

19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146- LCS - 004 (500 Users)	Linux based Biometric Systems (Non Aadhaar) - 500 User without Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl. No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	500 or above
2	Card Storage (RFID)	500 or above
3	Transaction storage	50000
4	Card reader	Card Reader is Optional
5	Fingerprint sensor(Biometric)	500 DPI Optical sensor
6	FAR	<=0.0001%
7	FRR	<=1%
8	Identification speed	<1 sec
9	Algorithm Ver	10
10	Display	2.8" Color TFT or above
11	Keypad	Yes- 4 x 4 Keypad
12	LED Indicator	Green/Red or Onscreen Status

13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB-host
15	Power Supply	DC 5V: 0.8 Amps
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Battery is Optional
19	Compatible Software and SDK	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated) / database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. 2) Bidder should install Biometric Attendance System (BAS) Software at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of BAS with the required software.
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146- LCS-005 (500 Users)	Linux based Biometric Systems (Non Aadhaar) - 500 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	500 or above
2	Card Storage (RFID)	500 or above
3	Transaction storage	1,00,000
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
6	FAR	<=0.0001%
7	FRR	<=1%
8	Identification speed	<1 sec
9	Algorithm Ver	10
10	Display	2.8" Color TFT or above

11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above
19	Compatible Software and SDK	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. 2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - LCS - 006 (1000 Users)	Linux based Biometric Systems (Non Aadhaar) - 1000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	1000 or above
2	Card Storage (RFID)	1000 or above
3	Transaction storage	1,00,000
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
6	FAR	<=0.0001%
7	FRR	<=1%
8	Identification speed	<1 sec

9	Algorithm Ver	10
10	Display	2.8" Color TFT or above
11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above
19	Compatible Software and SDK	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. 2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - LCS - 007	Linux based Biometric Systems (Non Aadhaar) - 2000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	2000 or above
2	Card Storage (RFID)	2000 or above
3	Transaction storage	1,00,000
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
6	FAR	<=0.0001%
7	FRR	<=1%

8	Identification speed	<1 sec
9	Algorithm Ver	10
10	Display	2.8" Color TFT or above
11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above
19	Compatible Software and SDK	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. 2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - LCS - 008	Linux based Biometric Systems (Non Aadhaar) - 3000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	3000 or above
2	Card Storage (RFID)	3000 or above
3	Transaction storage	1,00,000
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
6	FAR	<=0.0001%

7	FRR	<=1%
8	Identification speed	<1 sec
9	Algorithm Ver	10
10	Display	2.8" Color TFT or above
11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above
19	Compatible Software and SDK	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. 2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - LCS - 009	Linux based Biometric Systems (Non Aadhaar) - 5000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	5000 or above
2	Card Storage (RFID)	5000 or above
3	Transaction storage	1,00,000
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric	500 DPI Optical sensor

	Systems)	
6	FAR	<=0.0001%
7	FRR	<=1%
8	Identification speed	<1 sec
9	Algorithm Ver	10
10	Display	2.8" Color TFT or above
11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above
19	Compatible Software and SDK	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. 2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - LCS - 010	Linux based Biometric Systems (Non Aadhaar) - 9600 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	9600 or above
2	Card Storage (RFID)	9600 or above

3	Transaction storage	2,00,000 or above
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
6	FAR	<=0.0001%
7	FRR	<=1%
8	Identification speed	<0.5 sec
9	Algorithm Ver	10
10	Display	3" Color TFT or above
11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above
19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - LCS - 011	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (100 Users)	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Face capacity	100(1:N), 100(1:1) or above
2	Fingerprints templates	4000
3	ID Card Storage	10000
4	Transaction storage	1,00,000
5	Card reader	Inbuilt proximity card reader
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
7	Push Data	Yes
8	Communication	TCP/IP, RS232/485, USB Host
9	Display	4.3-Inch Touch Screen
10	FAR	$\leq 0.0001\%$
11	FRR	$\leq 1\%$
12	Keypad	Yes
13	Schedule Bell/Speaker	Mini Speaker
14	Identification speed	< 0.5 sec
15	Wiegand Signal	Output
16	Optional Functions	MiFare Card, Wi-Fi, 3G
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above
18	Power Supply	12V: 3A
19	Temperature	0 °C- 45 °C
20	Humidity	20%-80%
21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>
22	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - LCS -	Linux based Biometric	Any Reputed make	1 No.

012	Attendance Systems (Non Aadhaar) with Face Recognition (500 Users)		
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Sl.No	Parameter	Tender Specifications
1	Face capacity	500(1:N), 500(1:1) or above
2	Fingerprints templates	4000
3	ID Card Storage	10000
4	Transaction storage	1,00,000
5	Card reader	Inbuilt proximity card reader
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
7	Push Data	Yes
8	Communication	TCP/IP, RS232/485, USB Host
9	Display	4.3-Inch Touch Screen
10	FAR	$\leq 0.0001\%$
11	FRR	$\leq 1\%$
12	Keypad	Yes
13	Schedule Bell/Speaker	Mini Speaker
14	Identification speed	< 0.5 sec
15	Wiegand Signal	Output
16	Optional Functions	MiFare Card, Wi-Fi, 3G
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above
18	Power Supply	12V: 3A
19	Temperature	0 °C- 45 °C
20	Humidity	20%-80%
21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>
22	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - LCS - 013	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (1000 Users)	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Face capacity	1000(1:N), 1000(1:1) or above
2	Fingerprints templates	4000
3	ID Card Storage	10000
4	Transaction storage	1,00,000
5	Card reader	Inbuilt proximity card reader
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
7	Push Data	Yes
8	Communication	TCP/IP, RS232/485, USB Host
9	Display	4.3-Inch Touch Screen
10	FAR	<=0.0001%
11	FRR	<=1%
12	Keypad	Yes
13	Schedule Bell/Speaker	Mini Speaker
14	Identification speed	<0.5 sec
15	Wiegand Signal	Output
16	Optional Functions	MiFare Card, Wi-Fi, 3G
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above
18	Power Supply	12V: 3A
19	Temperature	0 °C- 45 °C
20	Humidity	20%-80%

21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>
22	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - LCS - 014	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (2000 Users)	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Face capacity	2000(1:N), 2000(1:1) or above
2	Fingerprints templates	4000
3	ID Card Storage	10000
4	Transaction storage	1,00,000
5	Card reader	Inbuilt proximity card reader
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
7	Push Data	Yes
8	Communication	TCP/IP, RS232/485, USB Host
9	Display	4.3-Inch Touch Screen
10	FAR	<=0.0001%
11	FRR	<=1%
12	Keypad	Yes
13	Schedule Bell/Speaker	Mini Speaker
14	Identification speed	<0.5 sec
15	Wiegand Signal	Output

16	Optional Functions	MiFare Card, Wi-Fi, 3G
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above
18	Power Supply	12V: 3A
19	Temperature	0 °C- 45 °C
20	Humidity	20%-80%
21	Compatible Software and SDK	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement. 2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.
22	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - LCS - 015	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (5000 Users)	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Face capacity	5000(1:N), 5000(1:1) or above
2	Fingerprints templates	4000
3	ID Card Storage	10000
4	Transaction storage	1,00,000
5	Card reader	Inbuilt proximity card reader
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
7	Push Data	Yes
8	Communication	TCP/IP, RS232/485, USB Host
9	Display	4.3-Inch Touch Screen

10	FAR	<=0.0001%
11	FRR	<=1%
12	Keypad	Yes
13	Schedule Bell/Speaker	Mini Speaker
14	Identification speed	<0.5 sec
15	Wiegand Signal	Output
16	Optional Functions	MiFare Card, Wi-Fi, 3G
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above
18	Power Supply	12V: 3A
19	Temperature	0 °C- 45 °C
20	Humidity	20%-80%
21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>
22	Accessories	Power Adapter, USB cable

Group C- Linux based Biometric Attendance System - Aadhaar

Code	Item Description	Make	Approx Qty.
33146 - LCS - 016	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 100 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above
3	Memory	1GB RAM or above, 8GB Flash or above
4	Operating System	LINUX OS (3.0.35) or above
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)
6	Interfaces /Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1
7	Speaker	1W Audio Speaker supporting MP3 and WAV file
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n
11	GPS	Optional
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.
15	Operating Temperat	0°C to 55°C

	ure	
16	Safety	CE certified
17	Drop Test	3-4 Feet Drop test
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance. gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.
21	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - LCS - 017	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 500 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above
3	Memory	1GB RAM or above, 8GB Flash or above
4	Operating System	LINUX OS (3.0.35) or above
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)
6	Interfaces/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1
7	Speaker	1W Audio Speaker supporting MP3 and WAV file
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications

9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n
11	GPS	Optional
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.
15	Operating Temperature	0°C to 55°C
16	Safety	CE certified
17	Drop Test	3-4 Feet Drop test
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.
21	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - LCS - 018	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 1000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above
3	Memory	1GB RAM or above, 8GB Flash or above
4	Operating	LINUX OS (3.0.35) or above

	g System	
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)
6	Interface s/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1
7	Speaker	1W Audio Speaker supporting MP3 and WAV file
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n
11	GPS	Optional
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.
15	Operating Temperature	0°C to 55°C
16	Safety	CE certified
17	Drop Test	3-4 Feet Drop test
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.
21	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 - LCS -	Linux based Aadhaar Enabled	Any Reputed make	1 No.

019	Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 2000 Users	
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Sl. No.	Parameter	Tender Specifications
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above
3	Memory	1GB RAM or above, 8GB Flash or above
4	Operating System	LINUX OS (3.0.35) or above
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)
6	Interfaces/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1
7	Speaker	1W Audio Speaker supporting MP3 and WAV file
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n
11	GPS	Optional
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.
15	Operating Temperature	0°C to 55°C
16	Safety	CE certified
17	Drop Test	3-4 Feet Drop test
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.

21	Accessories	Power Adapter, USB cable
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Code	Item Description	Make	Approx Qty.
33146 - LCS - 020	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 5000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above
3	Memory	1GB RAM or above, 8GB Flash or above
4	Operating System	LINUX OS (3.0.35) or above
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)
6	Interfaces/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1
7	Speaker	1W Audio Speaker supporting MP3 and WAV file
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n
11	GPS	Optional
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.
15	Operating	0°C to 55°C

	Tempera ture	
16	Safety	CE certified
17	Drop Test	3-4 Feet Drop test
18	Certificat ions	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE
19	SD Card Provisio n	Provision Micro SD Card Reader (upto 32GB)
20	Applicati on Compati bility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.
21	Accesso ries	Power Adapter, USB cable

6. Bid Preparation and Submission

6.1 Tender Procedure

- a) ELCOT facilitated e-Tender portal <https://tenders.elcot.in>.
The prospective Bidders should register themselves in the e-Tender Portal and submit the Bids electronically through the e-Tender portal. The paper based physical Tender submission is not permitted.
- b) The e-Tender training session will be held on the date and time as mentioned in the Tender Schedule. The Bidders are requested to download the e-Tender help manual and user manuals from the Portal for reference.
- c) It is mandatory for the Bidders to possess a valid Class-2/Class -3 Signing and Encryption Digital Signature in the name of the tender submitting authority to complete the e-Tender Bid process as per the provisions of Government of India IT Act 2000 with latest amendments.
- d) The Technical Bid form and Price Bid form will be available in spreadsheet format for downloading. The registered Bidders can log into the e-Tender system and download the Bid Forms.
- f) The Bid forms should be filled and submitted using the Digital Signature Certificates. The supporting documents should be scanned and uploaded in the e-Tender system.

6.2 Cost of Bidding

The Bidders should bear all costs associated with the preparation and submission of Bids. ELCOT will in no way be responsible or liable for these charges/costs incurred regardless of the conduct or outcome of the bidding process.

6.3 Tender Document Fee

- a) The Tender Documents may be directly purchased from ELCOT on payment of fees as mentioned in the Tender schedule. The Tender document cost may be paid by way of Demand Draft / Banker's Cheque in favour of Electronics Corporation of Tamil Nadu Limited, payable at Chennai (not applicable for this tender).
- b) The Tender Documents can be downloaded free of cost from the websites mentioned in the Tender Schedule. The Tender document fee is waived for such downloaded documents.

6.4 Earnest Money Deposit (EMD)

- a) An EMD amount as specified in the Tender Schedule should be paid by way of Demand Draft or Banker's Cheque drawn in favour of "Electronics Corporation of Tamil Nadu Limited" payable at Chennai. The Demand Draft or Banker's Cheque should be deposited physically at ELCOT before the date and time of opening of the Tender. The EMD in the form of Bank Guarantee is not acceptable.
- b) The EMD of the unsuccessful Bidders will be returned at the expense of the Bidders within a reasonable time consistent with the rules and regulations in this regard. The EMD amount held by ELCOT till it is refunded to the unsuccessful Bidders will not earn any interest thereof.
- c) The EMD amount of the Successful Bidder can be converted as part of the Security Deposit (SD) for successful execution of the work and will be returned only after the successful fulfilment of the Contract.
- d) The EMD amount will be forfeited by ELCOT, if the Bidder withdraws the bid during the period of its validity specified in the tender or if the Successful Bidder fails to sign the contract or the Successful in bidder fails to remit Security Deposit within the

respective due dates.

6.5 Portal Charges

- a) For each and every Bid submitted, a non-refundable Portal charge as mentioned in the Tender Schedule should be paid by way of Demand Draft or Banker's Cheque drawn in favour of "Electronics Corporation of Tamil Nadu Limited" payable at Chennai. The payment by way of Demand Draft or Banker's Cheque should be deposited physically at ELCOT before the date and time of opening of the Tender.
- b) The payment particulars should be entered in the e-Tender Portal. At the time of the Technical Bid opening, the payment committed in the Bid should be factual and should match with the physically submitted payments.
- c) Even though the payment particulars are entered in the e-Tender portal, if the Bidder fails to submit the physical instrument, their bid is liable for rejection. If any of the information committed in the e-Tender Bid does not match with physically submitted payment, ELCOT reserves the right to reject the bid summarily

6.8 Letter of Authorisation

A letter of Authorisation from the Board of Directors / appropriate authority authorising the Tender submitting authority or a Power of Attorney should be submitted in the Technical bid, otherwise the Bids will be summarily rejected.

6.7 Two Part Bidding

Bidders should examine all Instructions, Terms and Conditions and Technical specifications given in the Tender document. Failure to furnish information required by the Bid or submission of a Bid not substantially responsive in every aspect will be at the Bidders risk and may result in rejection of Bids. Bidders should strictly submit the Bid as specified in the Tender, failing which the bids will be considered as non-responsive

and will be rejected.

6.7.1 Technical Bid Form

- a) The Technical Bid Form will be in specific format which should be filled and signed using the Digital Signature Certificate (DSC) as guided by the e tender portal.
- b) The Technical Bid Form should not be changed or altered or tampered otherwise the bids are liable for rejection.
- c) The Technical Bid Form should not contain any Price indications strictly, otherwise the Bids will be summarily rejected.
- d) The bidders should submit the details of make and model of the items offered against the tender requirement. The compliance sheet is given in the Annexure -1 (A 1.6)

6.7.2 Price Bid Form

- a) The Price Bid Form will be in specific format which should be filled and signed using the Digital Signature Certificate (DSC) as guided by the e tender portal.
- b) The Price Bid Form should not be changed or altered or tampered otherwise the bids are liable for rejection.
- c) The Price Bid Form should not contain any conditional offers or variation clauses, otherwise the Bids will be summarily rejected.
- d) The Prices quoted shall be in INDIAN RUPEES (INR) only. The tender is liable for rejection if Price Bid contains conditional offers.
- e) The cost quoted by the Bidder shall include cost and expenses on all counts viz., cost of equipment, materials, tools, techniques, methodologies, manpower, supervision, administration, overheads, travel, lodging, boarding, in-station & outstation expenses, etc., and any other cost involved in the supply.
- f) The cost quoted by the Bidder shall be kept firm for a period specified in the Tender from the date of opening of the tender. The Bidder should keep the

Price firm during the period of Contract including during the period of extension of time if any. Escalation of cost will not be permitted during the said periods or during any period while providing services whether extended or not for reasons other than increase of duties / taxes payable to the Governments in India within the stipulated delivery period. The Bidders should particularly take note of this factor before submitting the Bids.

g) The Prices finalised after negotiations should be kept valid during the Rate Contract period and no escalation in the final price will be entertained including reasons due to Foreign Exchange fluctuations.

h) Exchange Rate fluctuations (Foreign Currency Rate Exchange) cannot be cited as reason for delay or dishonour of Purchase Order.

6.8 Bid closing date and time

The Bids should be submitted not later than the date and time specified in the Tender Schedule or Corrigendum if published. The e-Tender portal will automatically lock the date and time exactly on the date and time. Even if the Bid submission is in half way through during the closing date and time, submission would not be possible. Hence the Bidders should be cautious to submit the Bids well in advance to avoid disappointments.

7. Tender opening and Evaluation

7.1 Technical Bid Opening

The Technical Bid will be opened on the date and time as specified in the Tender schedule in the presence of those Bidders, who choose to be present against production of an authorisation letter from the Bidding authority. A maximum of two representatives for each Bidder would be allowed to attend the Tender opening.

7.2 Tender Validity

The offer submitted by the Bidders should be valid for a minimum period of 180 days from the date of opening of the Tender. The Rate Contract will be valid for 1 year from the date of signing of the contract or agreement / date of release of the first Purchase order, whichever is later. However ELCOT reserves the right to extend or short close the Tender validity period if situation warrants to benefit the Government.

7.3 Initial Scrutiny

Initial Bid scrutiny will be conducted and incomplete details as given below will be treated as non-responsive.

If Tenders are;

- not submitted in two parts as specified in the Tender
- received without the Letter of Authorisation
- received without EMD amount and e-Portal charges.
- found with suppression of information or incomplete information
- furnished with subjective and conditional offers.
- submitted without supporting documents in compliance to the Eligibility Criteria and Evaluation Criteria
- non-compliance of any of the clauses stipulated in the Tender
- lesser validity period

All responsive Bids will be considered for further evaluation.

The decision of ELCOT will be final in this regard.

7.4 Clarifications by ELCOT

When deemed necessary, ELCOT may seek bonafide clarifications on any aspect from the Bidder. However, that would not entitle the Bidder to change or cause any change in the substance of the Bid or price quoted. During the course of Technical Bid evaluation, ELCOT may seek additional information or historical documents for verification to facilitate decision making. In case the Bidder failed to comply with the requirements of ELCOT as stated above, such Bids may at the discretion of ELCOT, shall be rejected as technically non-responsive.

7.5 Tender Evaluation

7.5.1 Suppression of facts and misleading information

- a. During the Bid evaluation, if any suppression or misrepresentation or any of its kind, is brought to the notice of ELCOT, then ELCOT shall have the right to reject the Bid and if after selection, ELCOT would terminate the contract, as the case may be, will be without any compensation to the Bidder and the EMD / SD, as the case may be, shall be forfeited.
 - b. Bidders should note that any figures in the proof documents submitted by the Bidders for proving their eligibility is found suppressed or erased, ELCOT shall have the right to seek the correct facts and figures or reject such Bids.
 - c. It is up to the Bidders to submit the full copies of the proof documents to meet out the criteria. Otherwise, ELCOT at its discretion may or may not consider such documents.
 - d. The Tender calls for full copies of documents to prove the Bidder's experience and capacity to undertake the project.
-

7.5.2 Technical Bid Evaluation

- a) A Technical Committee will examine the Technical Bids against the Eligibility Criteria and Evaluation Criteria given in the Tender document. The evaluation will be conducted based on the support documents submitted by the Bidders. The documents which did not meet the eligibility criteria in the first stage of scrutiny will be rejected in that stage itself and further evaluation will not be carried out for such bidders. The eligible Bidders alone will be considered for further evaluation.
- b) The sample submitted will be evaluated for the tendered specification as given in the Scope of work to select the technically qualified bidder.
- c) The bidders have to submit their samples as per the terms specified in “9.1 Sample Submission Clause” . Bids without submission of samples are liable to be rejected.
- d) For those Bidders who have already worked or working with ELCOT, their previous performance in ELCOT would be the mandatory criteria for selection. If any unsatisfactory performances of those Bidders are found, their Bids will be straight away rejected.

The Unsatisfactory performance is defined as

- 1.Non responsiveness after getting the LOA or Purchase order
- 2.Delay in supply, installation of the ordered items etc.
- 3.Lack of communication about the delay in deliveries, Installation etc.
- 4.Poor warranty and CAMC period support.
- 5.Delay in providing services citing reasons of OEM' s support issues.

7.5.3 Price Bid Evaluation

- a) The Price Bids of the Technically Qualified Bidders alone will be opened and evaluated. The Price Bid should include all expenses towards this Tender. The Price Bids will be opened in the presence of the Bidders at ELCOT. The Bidders or their authorised representatives will be allowed to take part in the Price Bid Opening.
- b) Price Bid evaluation will be done as per the Tamil Nadu Transparency in Tender Rules 2000 with latest amendments.
- c) As this is a Rate Contract, the following method of price evaluation will be adopted.
 - The Price Bid Evaluation shall include duties such as Customs Duty and Central Excise Duty as part of the price. The taxes (GST) quoted by the bidders will not be taken for the price bid evaluation. However the GST rates quoted should comply with the statutory guidelines. The taxes will be paid extra as applicable at the time of billing.
 - In evaluation of the price of an imported item, the price shall be determined inclusive of the Customs duty with Counter Veiling Duty (CVD) as applicable.
 - In evaluation of the price of item is subject to excise duty, the price shall be determined inclusive of such excise duty as applicable.

a) Partial bid is allowed with the following conditions for Category 1.

The bidders who quote for each Group(A,B,C,D & E)under Category 1 should quote for all the relevant items for that Group, failing which bid is liable for rejection and will not be considered for further processing. i.e Partial bidding is permitted as group wise ie. the bidder should quote for all items in the group. However the bidder may quote for all the groups or any one group or multiple group of items.

As ELCOT wants to ensure that fair price is quoted against each line item and hence single bid items are liable for rejection. However ELCOT' s decision is final in this regard.

b) Partial bid is not allowed for Category -2.

d) i) The prices will be evaluated for Category 1 as follows and the decision of ELCOT will be the final.

The total cost excluding applicable Local Taxes and including all other duties and charges (Such as Excise Duty, Customs Duty, Installation Charges etc., as per the guidelines stated above) of individual group will be taken for Price Bid evaluation. Though the 4th and 5th year Comprehensive Annual Maintenance Charges (CAMC) are not included in the price bid evaluation, the L1 Bidders have to match the lowest CAMC Charges for the 4th and 5th year quoted by other Bidders.

ii)The prices will be evaluated for Category 2 as follows and the decision of ELCOT will be the final.

The total cost excluding applicable Local Taxes and including all other duties and charges (Such as Customs Duty, Installation Charges etc., as per the guidelines stated above) of all tendered items will be taken for Price Bid evaluation. The bidder who has become lowest in **overall total** will be called as L1 bidder. The L1 bidder will be negotiated to reduce the quoted price further and to match the L1 price of the items (If any), where they have not become L1. Other qualified Bidders will be negotiated to match overall L1 Price. If more than one Bidder matches the overall L1 Price, then order may be placed with more than one Bidder, who matches the L1 Price. However, preference will be given to the L1 Bidder. The L1 Bidder will be given an order value more than the other Bidders, who matches the L1 Price. The decision of ELCOT will be the final.

- e) The L1 Bidder as well as all the Technically Qualified Bidders will be negotiated to match L1 Price. If more than one Bidder matches the L1 Price, then order will be placed more than one Bidder, who matches the L1 Price. However, preference will be given to the L1 Bidder. The L1 Bidder will be given an order value more than the other Bidders, who match the L1 Price. The L1 will be given not less than 60% subject to or restricted to their capacity (manufacturing or trading). The decision of ELCOT will be the final.
- f) All the Bidders, who are selected after the Price Bid evaluation will be called as Successful Bidders.
- g) In this case, the value of the order will be restricted to the monthly licensed manufacturing capacity of the Bidder and remaining quantity will be re-Tendered. However ELCOT reserves the right to cancel the tender and retender to invite the competitive offers / quotes after a thorough analysis of the tender specification terms and conditions.
- h) The negotiation and arriving at the L1 rates, L1 bidder and matching of the L1 rates etc should be completed within 30 days from the date of opening of price bid.
- i) The Successful Bidder should not sell the Tendered items to any other Purchaser at price which is lower than the final negotiated price offered to ELCOT. If it is found that it has been sold at lower rate, then that lower price will be fixed by ELCOT for that item in future and also for the already supplied quantities under this tender.
- j) The successful bidder should supply, install and maintain the ordered items only as per the approved specification and as per the OEM' s MAF conditions, until otherwise approved by ELCOT for change (improvement) in specification. If found otherwise or violating condition, then the tender / contract is liable for cancellation and penal action will be initiated

against the erring bidder / bidder / supplier or OEM including blacklisting of them.

7.6 Negotiations

Negotiations will be conducted with all the Successful Bidders for improvement in the Scope of Work, Specification, further reduction in price and advancement of delivery schedule.

7.7 Award of Contract

- a) Total quantity will be apportioned among the L1 Bidder and other Bidders who have agreed to match L1 rate, as per the provisions of Tamil Nadu Transparency in Tenders Act, 1998 and the Tamil Nadu Transparency in Tenders Rules, 2000 and Terms and Conditions of the Tender. In general minimum 60% of the tender/ contract value will be awarded to the L1 bidder and the balance be shared to any other bidders who are matching the L1 rates/rate of the L1 bidder.
- b) No dispute can be raised by any Bidder whose Bid has been rejected and no claims will be entertained or paid on this account.

7.8 ELCOT reserves the right to:

- 7.8.1 Negotiate with the Bidder whose offer is the lowest evaluated price for further reduction of prices.
- 7.8.2 Insist on quality / specification of materials to be supplied.
- 7.8.3 Modify, reduce or increase the quantity requirements to an extent of the tendered quantity as per the provisions of Tamil Nadu Transparency in Tenders Act 1998 and Tamil Nadu Transparency in Tenders Rules, 2000.
- 7.8.4 Change the list of areas of supply locations from time to time based upon the requirement of the purchase.
- 7.8.5 Ask other qualified Bidders to match the L1 price as this is a rate contract tender.

- 7.8.6 If delivery performance of the Bidder is not as per the Schedule or not as per the tender terms and conditions, then ELCOT reserves the right to reallocate the quantity to other Bidder(s).
- 7.8.7 ELCOT reserves its right to inspect the bidder' s factory before or after placement of Orders and based on the inspection, ELCOT reserves its right to modify the quantity ordered.
- 7.8.8 ELCOT reserves its right to withhold any amount for the deficiency in the service aspect of the ordered items supplied to the Purchasers anytime during the contract period.

8. Execution of Work

8.1 Acceptance of Tender and Withdrawals

The final acceptance of the tender is entirely vested with ELCOT who reserves the right to accept or reject, any or all of the tenders in full or in parts without assigning any reason whatsoever. The Tender Accepting Authority may also reject all the tenders for reasons such as change in Scope, Specification, lack of anticipated financial resources, court orders, calamities or any other unforeseen circumstances. After acceptance of the Tender by ELCOT, the Successful Bidder shall have no right to withdraw their tender or claim higher price.

8.2 Letter of Acceptance (LOA)

After acceptance of the Tender by ELCOT, a Letter of Acceptance (LOA) will be issued to the Successful Bidder(s) by ELCOT. Under this rate contract, ELCOT has the right to issue LOA to more than one bidder.

8.3 Payment of Security Deposit (SD)

The successful Bidder will be required to remit a Security Deposit (SD) equivalent to five percent of the value of the order, inclusive of EMD by way of Demand Draft payable at Chennai or in the form of unconditional irrevocable Bank Guarantee valid for a period of 15 months from the date of issue of letter of Acceptance and confirmation from ELCOT. **The SD shall be paid within 10 days from the date of letter of acceptance(LOA) issued by ELCOT.** However, for Rate Contract tenders, the EMD amount will be converted into the Security Deposit (SD). The SD furnished by the Successful Bidder in respect of the tender will be returned to them after successful fulfilment of contract. The Security Deposit will be refunded to the Successful Bidder only after successful completion of the Purchase Order / contract. The Security Deposit held by ELCOT till it is refunded to the Successful Bidder will not earn any interest thereof.

The Security Deposit will be forfeited if the Successful Bidder withdraws

the Bid during the period of Bid validity specified in the Tender or if the Bidder fails to sign the contract or the bidder fails to supply/deliver the items as per purchase / work order within the stipulated delivery / time schedule.

8.4 Execution of Contract

- a) The Successful Bidder should execute a Contract in the INR 100 non-judicial Stamp Paper bought in Tamil Nadu only in the name of the Bidder within one week from the date of Letter of Acceptance issued by ELCOT with such changes/modifications as may be indicated by ELCOT at the time of execution on receipt of confirmation from ELCOT.
- b) The Successful Bidder shall not assign or make over the contract, the benefit or burden thereof to any other person or persons or body corporate for the execution of the contract or any part thereof without the prior written consent of ELCOT. ELCOT reserves its right to cancel the purchase order either in part or full, if this condition is violated. If the Successful Bidder fails to execute the agreement, the SD of the Successful Bidder will be forfeited and their tender will be held as non-responsive.
- c) The expenses incidental to the execution of the agreement should be borne by the Successful Bidder.
- d) The conditions stipulated in the agreement should be strictly adhered to and violation of any of the conditions will entail termination of the contract without prejudice to the rights of ELCOT and ELCOT also have the right to recover any consequential losses from the Successful Bidder.

8.5 Release of Purchase Order

After execution of the Contract and payment of Security Deposit, "Firm Purchase Order" for the supply and commissioning of Tendered items will

be issued to the Successful Bidder by ELCOT. The supply and payment will be based on the Purchase Order(s) issued from time to time. However in certain specific cases, the supply of items shall be based on LOA or any specific instructions by letter or email or fax etc. for which regularisation purchase / work order will be issued to regularise the transactions.

8.6 Refund of EMD

The EMD amount paid by the Successful Bidder(s) will be adjusted towards Security Deposit payable by them. If the Successful Bidder submits Security Deposit for the stipulated value in full by way of Bank Guarantee, the EMD will be refunded. The EMD amount of the Unsuccessful Bidder will be refunded after finalisation and issue of Firm Purchase Order to the Successful Bidder.

8.7 Release of SD

The Security Deposit will be refunded to the Successful Bidder on completion of entire supply subject to satisfaction of ELCOT. Such completion would be arrived at when the entire quantity is supplied by the Bidder as per the Contract Agreement and as per the LOA or order including Purchase Order(s) issued by ELCOT from time to time.

8.8 Forfeiture of EMD and SD

- a) If the successful Bidder fails to act according to the tender conditions or backs out, after the tender has been accepted, the EMD will be forfeited by ELCOT.
- b) If the Successful Bidder fails to remit the SD, the EMD remitted by them will be forfeited to ELCOT and the tender will be held void. If the successful bidder fails to sign the contract within the stipulated time, then the SD remitted will be forfeited and the tender will be held void.

- c) If the Successful Bidder fails to act up on to the tender conditions or backs out from the contract, the SD mentioned above will also be forfeited by ELCOT.

8.9 Termination of Contract

8.9.1 Termination for default

- a) ELCOT may without prejudice to any other remedy for breach of contract, by written notice of default with a notice period of 7 days, sent to the Successful Bidder, terminate the contract in whole or part, (i) if the Successful Bidder fails to deliver any or all of the goods within the time period(s) specified in the Contract, or fails to supply the items as per the Delivery Schedule or within any extension thereof granted by ELCOT; or (ii) if the Successful Bidder fails to perform any of the obligation(s) under the contract; or (iii) if the Successful Bidder, in the judgement of ELCOT, has engaged in fraudulent and corrupt practices in competing for or in executing the Contract or (iv) supplies the items inferior to the ordered / accepted specifications ; or (v) not procured and supplied the item from the OEM from whom the MAF was obtained and not submitted as per tender conditions unless and otherwise taking written approval from ELCOT for alternate OEM source.
- b) In the event ELCOT terminates the Contract in whole or in part, ELCOT may procure, upon terms and in such manner as it deems appropriate, the goods and services similar to those and delivered and the Successful Bidder shall be liable to ELCOT for any additional costs for such similar goods. However, the Successful Bidder shall continue the performance of the contract to the extent not terminated.

8.9.2 Termination for Insolvency

ELCOT may at any time terminate the Contract by giving written notice with a notice period of 7 days to the Successful Bidder, if the Successful Bidder becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Successful Bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to ELCOT.

8.9.3 Termination for Convenience

ELCOT may by written notice, with a notice period of seven days sent to the Successful Bidder, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for ELCOT's convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective. On termination, the successful Bidder is not entitled to any compensation whatsoever.

8.10 Execution of Work Order

The Successful Bidder should nominate and intimate ELCOT, an Account Manager for Single Point of Contact (SPOC), who should be responsible for effective delivery of work complying with all the terms and conditions. The Successful Bidder should ensure that the Account Manager fully familiarises with the Tender Conditions, Scope of Work and deliverables.

8.11 Assigning of Tender whole or in part

The successful Bidder shall not assign or make over the contract, the benefit or burden thereof to any other person or persons or body corporate. The Bidder should not under-let or sublet to any person(s) or body corporate for the execution of the contract or any part thereof without the written consent of ELCOT.

8.12 Liquidated Damages (LD)

Liquidated damage will be levied at the rate of 0.25% per day (Saturday, Sunday and Government holidays excluded) on the un-delivered portion of the material, if the delivery has not been completed in full within the stipulated period. The delivery period will effect from the date of receipt of confirmed consignee address. If the Successful Bidder fails to supply even after the lapse of one month after the stipulated date of delivery, then the orders/contracts are liable for cancellation and the EMD/ Security Deposit will be forfeited in addition to ELCOT reserving the right to blacklist the suppliers for a period of three years from participating in ELCOT' s tenders. This alone will not relieve the Bidder and the difference in cost of the items purchased through other Technically qualified Bidders or any other alternative sources will be recovered from the successful Bidder.

8.13 Penalty for Non-Fulfilment of Tender

A Penalty will be levied at 10% of the total value of the Purchase Order, for non-fulfilment or non-observance of any of the conditions stipulated in the Agreement, Terms and Conditions and Work Order / contract.

8.14 Other Conditions

- a) The final decision would be based on the technical capacity and pricing of the Bidder. ELCOT does not bind itself in selecting the bidder offering lowest prices.
- b) ELCOT reserves the right not to accept lowest price, to reject any or all the tenders without assigning any reason, to relax or waive any of the conditions stipulated in the terms and conditions of tender as deemed necessary in the best interest of ELCOT for good and sufficient reasons.
- c) ELCOT reserves the right to extend this contract rates, supply and

provide relevant services under special offer to Students / Government Employees / Government Education Institutions /Trust / Government schemes / Government Departments /PSUs/ units etc. The successful bidder should not raise any dispute related with the supply of the Biometric Systems under any of the scheme adopted by ELCOT. Non cooperation by the bidder may lead to termination of the contract and ELCOT reserves the right to Black list the successful bidder for a period of 3 years from participating ELCOT or any other Government Tenders.

8.15 Arbitration and Jurisdiction

- (a) In case of any dispute, the matter will be referred to a Sole Arbitrator to be appointed by the Managing Director of ELCOT in accordance with the "Arbitration and Conciliation Act 1996". The arbitration shall be held in Chennai, India and the language English only.
- (b) Subject to the above, the Courts at Chennai alone only shall have jurisdiction in the matter.

8.16 Other Documents to be submitted:

1. Copy of ESI Registration or necessary Exemption Letter for ESI Registration should be submitted.
2. Copy of EPF Registration or necessary Exemption Letter for ESI Registration should be submitted.
3. For any manpower services, the bidders should adhere to the contract payment structure provided by ELCOT.
4. For payment claims, the bidder / suppliers / contractors / outsourcing agencies should submit proof for payment of cash on hand through Bank credit (ECS details and UTR numbers etc) and other documents for proof of statutory payments such as PF, ESI etc.

9. Scope of Work

9.1 Scope of work

9.1.a. - Scope of Work for Category -1.

Scope for the Successful Bidder:-

1. Supply the Ordered items in time, as per the approved specification.
2. Install the supplied items at the Purchaser locations along with the appropriate licenses (If applicable).
3. It is the responsibility of the Successful Bidder to provide Warranty Services and CAMC services.

9.1.b. - Scope of Work for Category -2

1. Bio Metric attendance devices which comply with UIDAI/STQC finger print scanner and SIM card should be installed at all designated locations in Tamil Nadu and the same should be maintained by the bidder for the period of 3 years.
2. The attendance of each and every student must be saved in the NIC server or the pointed servers through the dedicated application. Biometric device should display the photo of the user after the authentication as applicable.
3. The successful bidder shall maintain centralised “Bio metric Attendance software” enabled with capturing of the Thumb Impression of the user with the Bio metric device provided by this Department.
4. Online domain login for accessing the application will be provided by the department. Charges incurred towards customisation of the report format/Modification of the software should be borne by the bidder.
5. The reports regarding the attendance of the users must be furnished to the department on daily (Morning and the Night) /weekly and monthly basis as per directions of the department.

6. ID cards for each user have to be provided by the bidder for storing the 8 digit Aadhaar number wherever required. The details to be stored in the ID card such as scanned copy of photo, name of the student etc will be provided by the department.
7. Successful bidder shall maintain adequate spares and stand by hardware in all the Districts in order to provide uninterruptible service by keeping the downtime of any asset to the barest minimum of 4 (Four) hours from the date and time of service request otherwise a penalty of 1% of the basic cost of the item for every delayed hour be charged.

9.2 Sample Submission

- a) For each item quoted in the Tender, the samples should be submitted indicating the make, model number and brochures / specification of the items for testing by ELCOT as per Appendix-3 of the Tender.
- b) The bidders have to submit the samples within 7 days from the date of submission of Bids unless any specific time given by ELCOT in writing.
- c) Such samples should be delivered to ELCOT' s QA team along with the INTERNAL TEST REPORT carried out by the OEM / Bidder as per this Tender specifications duly certified by the OEM / Bidder' s Quality Inspection Officer with signature and designation.
- d) If the samples are not delivered within the time limit specified in the Tender, it would be treated as non-responsive to the Tender conditions and the Bids is liable for rejection.
- e) Sample evaluation is part of technical bid evaluation.

9.3 Special Concession for ELCOT approved products

- a) If the samples of the tender specification has already been tested and approved by ELCOT in earlier tenders, then the Bidder need not submit those products for sample evaluation. The bidder shall provide the reference of the tender number and test reports.
- b) ELCOT reserves the right to call for samples again if need arises and to call for any other sample of any other item at any point of time.

9.4 Compliance with Technical Specification

All the Bidders should submit the items as asked for testing. The results and compliance statement would be prepared and evaluated. The samples of those Bidders, which do not conform to the technical specifications, the Bids of those Bidders will be rejected. The whole evaluation exercise would be done in the presence of the bidders in a transparent manner.

9.5 Benchmark Test Results

The Benchmark test results will enable ELCOT to derive the following details:

- a) To know whether the bidders propose to offer the configuration as per the Tender specification or not.
- b) To provide decision support for the Technical Committee whether to accept or reject the products.

9.6 Analysis of Benchmark Results

9.6.1 General

- a) If the equipment supplied for evaluation meets the tender specifications, it would be treated that the equipment had passed the “specifications test”. If the specifications are below the tender specifications, then the equipment would be treated as “failed” in the “specifications test”. The bidders should take utmost care to bring in the samples which should be equal to or better than the specifications given in the tender documents.
- b) ELCOT reserves the right to reject a sample if it is found that it does not meet the specifications. In such cases the bidder would be treated as “failed” in this test. However, ELCOT reserves its right to offer one last opportunity to the bidder to produce another sample for evaluation, say within a short period of 2-3 days. Such a sample would be evaluated again to find out whether the bidder gets “pass” in this test.
- c) Offering this additional opportunity is solely at the discretion of ELCOT. ELCOT would be pleased to provide such an opportunity ONLY if public interest (healthy competition) demands such a step. In the normal course such an additional opportunity would not be given to the bidders.
- d) The supplied item should be as per the approved specification of the sample submitted and the OEM concerned. Any improved specification of the items should be submitted for evaluation and has to be accepted by ELCOT. If any deviation found during the contract period, the penal action will be initiated including blacklisting of the successful bidder.

9.6.2 Linux compliance test for Biometric Systems

1. All the samples will be tested for BOSS Linux compliance for the Tender

Specifications. If a Sample fails in any of the parameters, then it would be treated as “FAILED” in the “Linux Compatibility Test”. The Bidders must provide the necessary Drivers.

2. Linux compatibility test may or may not be carried out for the bidders who have produced Linux certification. However if they become Successful, their product will be tested for Linux compatibility before issuing order.
3. If the bidder applied for Linux certification, bidder shall produce necessary documents related to this. For these bidders, Linux compatibility will be tested.

9.6.3. Linux Compatibility for Peripherals

- a) All the Peripherals would be connected to the running BOSS Linux (their own system or any other system arranged by ELCOT) to find out whether they work under Linux environment in an efficient and trouble free manner.
- b) All such operations would be carried out using GUI/X Windows procedures only. If the Peripherals work without any hitches, then it would be treated as “passed” in the Linux compatibility test. Otherwise, it would be treated as “failed”.
- c) The Bidder or OEM shall provide tested results for Suse Linux and Red Hat.

9.7 Software to be pre loaded

The licensed / supported version of the software shall be pre-loaded and the license shall be in the name of Purchaser/s. The Original License shall be submitted to the Purchaser/s at the time of delivery. ELCOT or its Purchaser/s Departments will not be liable or responsible for any disputes arising out of Intellectual Property Rights. It is at the risk of the Successful Bidder when such dispute arises.

9.8 Pre-despatch Inspection

Pre-dispatch inspection will be carried out by the Authorised Agency appointed by ELCOT and / or Representatives of ELCOT.

9.8.1 Specification Test

- a) Specification conformity will be tested for the ordered items as per technical specification given in the tender document.
- b) The successful bidder should intimate the readiness of the goods after internal testing along with test report and warranty certificate.
- c) The systems should be supplied in full as per the ordered configuration for acceptance testing. No System, which falls short of the technical specification, will be taken up for acceptance testing under any circumstances, however can offer a better specification than the one finalised through the tender and the same will be accepted for testing.
- d) The successful Bidder should intimate the readiness of the items to ELCOT for pre-despatch inspection 7 days in advance before the despatch.

9.8.2 Pre despatch Acceptance

- a) 100% Physical Verification will be done by ELCOT. List of Sl.No with make of each item should be given..
- b) Benchmark test will be conducted for all systems either on 100% basis or on random sampling basis.
- c) The items should give the same performance results as given during technical evaluation benchmarking.
- d) Any item got rejected during acceptance test shall be re-offered for acceptance test within 2 days..

9.9 Supply, installation and Commissioning

Delivery Schedule for Category 1:

For Locations:-

1 to 50 locations - Within 42 days from the date of Purchase Order.

51 to 100 locations - Within 49 days from the date of Purchase Order.

101 to 200 locations - Within 56 days from the date of Purchase Order.

201 and above locations - Within 72 days from the date of Purchase Order.

For Quantities:-

1 to 50 Nos. - within 28 days from the date of Purchase order.

51 to 100 Nos. - Within 42 days from the date of Purchase Order.

101 to 500 Nos. - Within 49 days from the date of Purchase Order.

501 to 1000 Nos. - Within 56 days from the date of Purchase Order.

1001 and above Nos. - Within 72 days from the date of Purchase Order.

The Delivery Schedule shall be taken from Location/Quantity whichever is higher.

In general the delivery schedule is taken from the date of purchase order and on specific instructions from ELCOT the delivery schedule is taken from the date of LOA or any written instruction through email or Fax etc.

Delivery Schedule for Category -2 :

The ordered items should be delivered, installed and commissioned within **15 to 42** days from the date of LOA / Agreement, whichever is earlier.

a) In general the delivery schedule is taken from the date of purchase order and on specific instructions from ELCOT, the delivery schedule is taken from the date of LOA or any Written instruction through email or Fax etc.

b) Based on any urgent requirement of Government Departments, Delivery Schedule may be reduced by ELCOT after the discussions with the Successful Bidders. In such cases, preference will be given to the bidder(s) / suppliers who have sufficient stock and meet the delivery schedule of the intending departments, without violation of any rules, acts etc. In such specific cases, if the L1 bidder is not ready to supply the required urgent quantity, then the items will be procured from the other successful bidders, who is ready to supply the items and the decision of ELCOT will be final in this regard.

- c) The Successful Bidders after obtaining the Consignee address shall visit the sites to assess the readiness of the site for installation. A report in this respect shall be submitted to ELCOT within 10 days. ELCOT may advise the Purchaser to prepare the site ready for installation. ELCOT advises the successful bidders not to supply the items for the sites which are not ready and in this connection, the successful bidder on receipt of supply instructions from ELCOT shall get the information on site readiness from the respective consignee.
- d) However the Purchaser is responsible for the site preparation before the scheduled installation dates.
- e) The Successful Bidder is responsible for all unpacking, assemblies, wiring, installations, cabling between hardware units and connecting to power supplies. The Successful Bidder will test all hardware operations and accomplish all adjustments necessary for successful and continuous operation of the hardware at all the installation sites.
- f) The Successful Bidder selected for various equipments to be installed at single user premises shall co-ordinate with each other and prepare a list where delivery is planned by all the parties, so that installation and handing over can be carried out to the consignees suitably / simultaneously by all the parties. The Successful Bidder must send the proposed delivery schedule to each consignee and to ELCOT well in advance.
- g) The supply and installation of ordered items along with necessary operational and user manuals / drawings, circuit diagram, etc., shall be made available in the Tender document. The Successful Bidder shall be responsible for commissioning of the items supplied by preparing interfacing / integrating with purchaser' s equipment / accessories / software supplied by other bidders.

h) After successful Installation, commissioning and handing over of the ordered items to the consignees/Purchasers, the Successful Bidder must obtain signed installation certificate / Installation Report (IR) in the Installation Certificate Format (Format will be provided to the Successful Bidder along with the Letter of Acceptance) along with Sample test results duly certified by the respective consignee on the installed items. The IR should carry the full specification and OEM description as per tender / contract / purchase / work order. The system generated report should be submitted duly certified by the consignee from technical compliance especially in server, Desktop, SAN, NAS etc as applicable.

i) The Successful Bidder shall send status report in the format prescribed in such intervals as may be required by ELCOT from time to time till the execution of the entire order. Status Report Format will be provided to the Successful Bidder along with the Letter of Acceptance. Such status report should accompany with each claim for payment.

j) The Successful Bidder shall undertake to supply spares for the maintenance of the supplied items for period of minimum FIVE years or extended period mutually accepted.

k) The details of the service centre representatives responsible for attending the installation, warranty services at each consignee/Purchaser site, name and designation of the contact person and centre in-charge, higher level in-charge who is responsible to oversee the service centres, person to whom complaints can be made in case the service provided by any centre is not satisfactory, phone, fax, mobile numbers & email address must be provided well in advance to each consignee/Purchaser and to ELCOT. The above shall be complied by the Successful Bidders. Service Centre details shall be made available in the Websites of the OEM / Bidder and ELCOT.

- 1) In the rare event of non-acceptance of delivery items by the user, the bidder shall immediately report ELCOT for suitable directions.

9.10 Minimum Stock Maintenance

- a) Some occasions may arise that Biometric Systems may be required to be delivered within a short period of 24 hours to the Purchasers. In such occasions, it may be very difficult to arrange shipment of the items from the bidder premises due to the routine formalities. To tackle such conditions, the successful Bidder should maintain an ex-stock of about 10 units of all items at bidder premises. Upon issuance of notice from ELCOT, the successful Bidder should supply, install and commission the ex-stock at the Purchaser premises.
- b) No financial commitment will be given by ELCOT for maintaining the ex-stock items.
- c) At any point of time, the successful Bidder should ensure the minimum ex-stock level. The successful bidder should also ensure that the short fall of 10 numbers should be replenished within 7 days from the date of delivery of the items from the minimum stock.
- d) ELCOT reserves the right to inspect the Minimum stock level at any point of time and may impose a penalty. If the bidder fails to maintain the minimum stock level in three instances during the Rate contract period, ELCOT reserves the right to terminate the Contract with the successful bidder and the bidder will be declared as non performer which may not permit the bidder in participating tenders floated by ELCOT in future, for the next three years.

9.11 Warranty Clause

a) Warranty Clause for Category 1(WCS)

The warranty clause during the Standard warranty period of 3 years and CAMC period of 4th and 5th years would be applicable as follows.

- a) All the Tendered items should be supplied to the Purchaser site free from breakages, malfunctions, breakdowns or manufacturing defects. If any of the items are found defective due to manufacturing defect or design fault or transit damage occurred at the time of supply or within one month from the date of installation, the items in full should be replaced.
- b) All the materials and components of the Tendered items should be covered with a replacement warranty during the Standard warranty and CAMC period from the date of signing of installation report of the ordered items. The successful Bidder shall be liable to make good the loss by replacing the items or other accessories found defective during the warranty period.
- c) The successful Bidder should give an undertaking to maintain the spares of all the hardware items of 2% of the total quantity ordered. Service Level Agreement (SLA) during maintenance support period (warranty or post warranty (CAMC)).
- d) During the warranty and CAMC support period, the complaints received from the Purchasers should be attended as below.
 - 1) If the complaint is received during the forenoon (up to 2 PM), the complaint should be attended on the same day.
 - 2) If the complaint is received during the afternoon (after 2 PM), the complaint should be attended on the next day. If next day is the declared Holiday, the complaint should be attended in the next working day under normal circumstances. In emergency situations or urgent requirement of the Purchaser, the complaint should be attended within 2 hours on the same day.
 - 3) All the complaints should be attended from the nearest service centres.
 - 4) All the complaints should be rectified within 2 working days excluding the date of complaint.

b) Warranty Clause for Category 2- Lease Cum Service Model (LCS)

The warranty clause during the three years period would be applicable as follows.

a) All the Tendered items shall be supplied to the customer site free from breakages, malfunctions, breakdowns or manufacturing defects. If any of the items are found defective due to manufacturing defect or design fault or transit damage occurred at the time of supply or within one month from the date of installation, the items in full shall be replaced.

b) All the materials and components of the Tendered items shall be covered with a replacement warranty of 39 months from the date of signing of installation report of the ordered items. The successful Bidder shall be liable to make good the loss by replacing the items or other accessories found defective during the warranty / project period.

c) The Successful Bidder shall give an undertaking to maintain the spares of all the hardware items of 2% of the total quantity ordered (to be available in full working condition and be replenished after servicing) at their Chennai Office, which is open to inspection by ELCOT or customer department at any time.

d) During the warranty period, the complaints received from the customers shall be attended as below.

e) If the complaint is received during the forenoon (up to 2 PM), the complaint shall be attended on the same day.

f) If the complaint is received during the afternoon (after 2 PM), the complaint shall be attended on the next day. If next day is the declared Holiday, the complaint shall be attended in the next working day under normal circumstances. In emergency situations or urgent requirement of the customer, the complaint shall be resolved within 4 hours.

g) All the complaints shall be attended from the nearest service centres.

- h) All the complaints shall be rectified within 2 working days excluding the date of complaint, if the items are taken for repair / replacement after during standby.
- i) Monthly Report on the periodical / preventive maintenance of the supplied items shall be sent to ELCOT by e-mail.
- j) Weekly breakdown maintenance report shall be sent to ELCOT with details of rectification.

5) Penalty for nonadherence of the above SLA (Service Level Agreement)

a) Category 1:

If the complaints are not rectified within the stipulated period as mentioned in clause **9.11.d.4 under Category 1**, an equivalent standby shall be supplied till rectification. A penalty of **0.25%** on the value of the item will be charged per day till the equipment is put on working condition, in case the standby item is not supplied. 0.25% per day subject to Maximum of 30days on value of the ITEM, thereafter ELCOT holds the options for cancellation of the order and re-procures the same from any other bidder at the cost of supplier and forfeits the EMD/SD / Performance Security of the bidder.

b) Category 2:

If the complaints are not rectified within the stipulated period as mentioned in class **9.11.d.4 under Category 2** an equivalent standby shall be supplied till rectification. A penalty of **1%** on the value of the item will be charged per day till the equipment is put on working condition, in case the standby item is not supplied.

6. Weekly breakdowns maintenance report shall be sent to ELCOT with details of RECTIFICATION.

7) After expiry of warranty ,the purchaser/ELCOT has option to enter into Comprehensive Annual Maintenance Contract (CAMC) with supplier/Bidder for Post Warranty Maintenance of the items.

9.12 Call Centre Facility

The Successful Bidders may set up a call centre supported by a web based application for this purpose and may provide access to ELCOT. All the complaints as well as rectification details should be recorded in the call centre software. The features of the Call Centre will be discussed mutually. In case, the Purchaser directly calls ELCOT, provision should be made for ELCOT to register the complaints. Any failure to the Warranty conditions would attract a penalty under non-fulfilment of Tender conditions.

10. Payment Clause

10.1(a) Payment clause for Category 1(WCS):

- 100% of the total cost of ordered items will be paid by ELCOT on behalf of the Purchaser, after receipt of funds from the Purchaser, on installation, commissioning and handing over of the ordered items to the Purchaser, after testing all the software and fulfilling the technical specifications on submission of an irrevocable Bank Guarantee for 5% of the cost of the ordered value valid for 65 months during the warranty and CAMC period. (OR)
- 95% of the total cost of ordered items will be paid by ELCOT on behalf of the Purchaser, after receipt of funds from the Purchaser, on installation, commissioning and handing over of the ordered items to the Purchaser, after testing all the software and fulfilling the technical specifications and the balance 5% will be released to the supplier after completion of 5 years warranty and CAMC period.
- 1. ELCOT advises the bidder / supplier to supply the items only if the site is ready. On receipt of the consignee details, the concerned authority may be contacted for issue of Site Ready Certificate and then arrange for supplies only to the sites, which are ready.

2. However if the site is not ready within 15 days of delivery, 75% of total cost will be paid on submitting the proof of delivery and certificate from the Purchaser that the site is not yet ready, after receipt of funds from the Purchaser and balance 25% total cost will be paid on installation, commissioning and handing over of the systems on submission of an irrevocable Bank Guarantee for 5% of the cost of the ordered value valid for Standard warranty plus CAMC period.

“If the Purchaser is not issuing an SNR (Site Not Ready), the Successful Bidder may give an Undertaking to ELCOT stating that the Purchaser is not issuing an SNR. The 75% of total cost of the invoice will be made to the Successful Bidder on verifying the same with the Purchaser. ”

- Bills will be honoured within 30 working days after submission of bills along with all supporting documents in complete shape and accepted by ELCOT. The Successful Bidder should file relevant invoices online using the web based procurement software in operation at ELCOT.

10.2(b) Payment clause for Category 2(LCS):

- No advance payment
- The entire asset' s cost will be divided into **12 quarters (3 years)** and the quarterly payment on completion of supply, installation and successful commissioning of Biometric devices to the Department and a certificate obtained from the department in the prescribed format and a concurrence letter from the department to ELCOT.
- The quarterly payment will be paid after deduction of 5% of the contract value towards performance security deposit, LD and Penalty etc as applicable. Alternatively the successful bidder / contractor can be paid 100% quarterly payment against submission of irrevocable Bank Guarantee from a nationalised / scheduled bank for the 5% contract value towards Performance Security Deposit with validity for 40 months from the date of installation, commissioning and acceptance.
- Bills will be honoured within 15 working days after submission of bills along with all supporting documents in complete shape. The Supplier should file relevant invoices online using the web based Procurement Software in operation at ELCOT.

- 10.2 The Successful Bidder hereby agrees to get the refund of incentive, excise duty and proportionate sales tax from authorities concerned and pass it on to Purchaser(s) if the Government or any other appropriate agency reduces the Excise duty or Sales tax or give incentive of any type retrospectively after supplying the Ordered items failing which action will be taken to recover the balance amount from the Successful Bidder under the Revenue Recovery Act or any other relevant act. If any purchaser (Government Department/ Institutions / Unit/ PSU etc) request/claim for exemption from ED or Tax, then the successful bidder before accepting the order should produce the relevant documentation and accordingly the PO / Work order will be issued.
- 10.3 Penalty amount if any, will be adjusted in the payment due to the Successful Bidder.
- 10.4 All taxes and other levies imposed by Governments in India will be paid at actual as applicable.
- 10.5 If any customer department have obtained exemption from payment of any duty or taxes or any concessional rate of duty or taxes, then the bidder / supplier / contractor should extend the concession to the department / customer and bill the customer / purchaser accordingly.

Appendix-1 Model Form of Contract

(To be executed on a Rs. 100/- Non-Judicial Stamp Paper bought in Tamil Nadu by the Successful Bidder for the supply and commissioning of Biometric Systems)

(NO FIGURES IN NUMERALS OR WORDS SHALL BE FILLED UP IN THIS SAMPLE FORM AT THE TIME OF SUBMISSION OF TENDER)

This CONTRACT is entered into at Chennai on the day of (Year) between Electronics Corporation of Tamil Nadu Limited, a wholly owned Government of Tamil Nadu Undertaking, a Company registered under the Indian Companies Act, 1956 and having its Registered office at 692, Anna Salai, Nandanam, Chennai- 600 035 herein after referred to as “ELCOT” (which term shall mean and include its Successors and permitted assigns) on behalf of Purchaser (s) to be communicated by ELCOT from time to time (herein after referred to as “Purchaser (s)”) and a Company registered under the Indian Companies Act, 1956 and having its Registered Office at hereinafter referred to as the “Successful Bidder” (which term shall mean and include its Successors and permitted assigns)

Whereas, ELCOT had floated a Rate Contract Tender vide Tender No. **ELCOT/Proc/OT/33146/Biometric Systems/RC/2018-19** for the supply, installation and commissioning of Biometric Systems under WCS(Warranty Cum CAMC Service)/LCS(Lease Cum Service) method and the Successful Bidder has been selected as one of the suppliers in the Tender as per the following terms and conditions:-

1. This document on having been signed by both the parties shall constitute a binding contract between the parties and shall remain in force for a period of 65 months. But in the event of any breach of agreement at any time on the part of the Successful Bidder, the contract shall be determinable by ELCOT without compensation to the Successful Bidder. The contract may also be put to an end at any time by ELCOT upon giving

seven days notice to the Successful Bidder.

2. The Successful Bidder agrees that in the event of failure of 10% or more of the vital components of the equipments occurring during the first three year warranty period, ELCOT would have a right to blacklist them for any procurement through ELCOT for a period of three years from that date.
3. The Successful Bidder agrees to supply, install and commission the Bill of Materials detailed in ELCOT Tender **ELCOT/Proc/OT/33146/Biometric Systems/RC/2018-19** after carrying out successfully all tests prescribed by the Purchaser(s) at an unit price plus applicable Taxes as inducted in Annexure to this Contract to the Purchaser(s) before the specified date. The price offered is firm and is not subject to enhancement on any ground.

4. Delivery Schedule:

a) Delivery Schedule for Category 1(WCS) :

For Locations:-

- 1 to 50 locations - Within 42 days from the date of Purchase Order.
- 51 to 100 locations - Within 49 days from the date of Purchase Order.
- 101 to 200 locations - Within 56 days from the date of Purchase Order.
- 201 and above locations - Within 72 days from the date of Purchase Order.

For Quantity:-

- 1 to 50 Nos. - within 28 days from the date of Purchase order.
- 51 to 100 Nos. - Within 42 days from the date of Purchase Order.
- 101 to 500 Nos. - Within 49 days from the date of Purchase Order.
- 501 to 1000 Nos. - Within 56 days from the date of Purchase Order.
- 1001 and above Nos. - Within 72 days from the date of Purchase Order.

The Delivery Schedule shall be taken from Location/Quantity whichever is higher.

In general the delivery schedule is taken from the date of purchase

order and on specific instructions from ELCOT the delivery schedule is taken from the date of LOA or any written instruction through email or Fax etc.

b) Delivery Schedule for Category -2 (LCS):

The ordered items should be delivered, installed and commissioned within 15 to 42 days from the date of LOA / Agreement, whichever is earlier.

NOTE: Based on any urgent requirement of Government Departments, Delivery Schedule may be reduced by ELCOT after the discussions and concurrence from the Successful Bidders.

5. The price of the ordered items as per the Tender includes excise duty, Surcharges, Freight, Octroi, insurance, commissioning, and such other levies that may be applicable. Any concessional tax or Duty claimed by customer shall be considered based on documentation.
6. The goods or materials to be supplied under this contract are to be of the quality and of the sort mentioned in the ELCOT Tender document.
7. The goods or materials are to be delivered on F.O.R destination indicated by ELCOT/Purchaser(s) without any extra cost in such quantities or numbers contained in the purchase order to be issued by ELCOT from time to time. Any amendments to the orders in terms of quantities or delivery period etc., may be incorporated on a mutually agreed basis. The delivery of goods to the destination is the responsibility of the Successful Bidder only. The goods supplied under the contract shall be covered for comprehensive insurance by the Successful Bidder till delivery and acceptance by the authority concerned.
8. ELCOT is entitled to change the list of consignee address from time to time based on the requirement of the Purchaser(s). In this situation, the suppliers shall not claim any additional charges

except for any major amount involved which will be resolved mutually.

9. The goods sold under this agreement shall not be taken back. However any replacement necessitated, as part of the warranty commitments shall be carried out by the Successful Bidder and faulty parts/materials that arise out of such replacements shall be taken back by the Successful Bidder within a reasonable time.
10. If the supply, installation and commissioning of the Ordered items are not effected as specified in the purchase order, Purchaser(s) /ELCOT shall have the full authority to cancel the order and to take any such action that will be deemed fit in the circumstances.
11. In case of failure by the Successful Bidder to deliver goods or materials demanded from them, within the period specified for delivery or in case of goods or materials delivered by them, not being of the stipulated quality and specifications or in the case of goods or materials being delivered without a correct invoice in duplicate, ELCOT or anyone duly authorized by ELCOT shall have the power to reject any such goods or materials and to purchase from others instead of any goods or materials so rejected or not delivered. Unless the successful Bidder shall themselves forthwith supply that shall be sufficient and satisfactory any excess of cost so incurred by the Purchaser(s) over the contract price together with all charges and expenses attending the purchase shall be recoverable by ELCOT / Purchaser(s) from the Successful Bidder.

12. Liquidated damage will be levied at the rate of 0.25% per day (Saturday, Sunday and Government holidays excluded) on the un-delivered portion of the material, if the delivery has not been completed in full within the stipulated period. The delivery period will effect from the date of receipt of confirmed consignee address. If the Successful Bidder fails to supply even after the lapse of one month after the stipulated date of delivery, then the orders/contracts are liable for cancellation and the EMD/ Security Deposit will be forfeited in addition to that ELCOT reserving the right to blacklist the suppliers for a period of three years from participating in ELCOT' s tenders. This alone will not relieve the Bidder and the difference in cost of the items purchased through other Technically qualified Bidders or any other alternative sources will be recovered from the successful Bidder.
13. A Penalty will be levied at 10% of the total value of the Purchase Order, for non-fulfilment or non-observance of any of the conditions stipulated in the Agreement, Terms and Conditions and Work Order.
14. Notwithstanding anything contained in the penalty clause, ELCOT reserves the right to blacklist the bidder from taking part in any of the procurement operations of ELCOT for a minimum period of three years from the date of blacklisting for failure to carry out supply in time or according to the quality and quantity prescribed or any such similar reasons. This penalty shall be over and above all other penalties.

15. **WARRANTY:-**

Warranty Clause for Category 1(WCS)

- i) The materials or goods are to be given 3 years of Standard warranty with 2 years of CAMC for items under category 1 , after installation and commissioning against any manufacturing defect and bad workmanship solely by the Successful Bidder irrespective of whether the same have been manufactured by them or not. The warranty period of 3 years will commence

from the date of installation and commissioning of the ordered items after carrying out successfully the tests prescribed by Purchaser/(s) and installation in good working condition. A report of services attended on monthly basis must be submitted to ELCOT for each order during the warranty period.

ii) The Successful Bidder shall undertake to supply the spares for the Standard warranty and CAMC period of the offered items for the period of three years. If any manufacturing or other technical defects is found within 3 years from the date of installation, commissioning and handing over of the ordered items to Purchaser (s), they will have to be rectified or replaced free of cost by the Successful Bidder in good working condition.

(iii) If the complaints are not rectified within the stipulated period as mentioned in the tender conditions, an equivalent standby shall be supplied till rectification. A penalty of 0.25% on the value of the item will be charged per day till the equipment is put on working condition, in case the standby item is not supplied.

(iv) The Successful Bidder agrees to provide comprehensive maintenance of the ordered items, which shall include preventive maintenance and corrective maintenance at the location specified by the Purchaser(s). The maintenance shall include replacement of all parts. The Ordered items, which are down, shall be restored in good working condition within 48 hours. Otherwise, the Successful Bidder shall be liable for a penalty of 10% per week of breakdown period on the costs of only those machineries, which are non- functional. The Purchaser(s) reserves the right to terminate the maintenance contract in the event of unsatisfactory maintenance and claim damages for non-fulfillment of contract.

Warranty Clause for Category 2- Lease Cum Service Model (LCS)

The warranty clause during the three years period would be applicable as follows.

i) All the Tendered items shall be supplied to the customer site free from breakages, malfunctions, breakdowns or manufacturing defects. If any of the items are found defective due to manufacturing defect or design fault or transit damage occurred at the time of supply or within one month from the date of installation, the items in full shall be replaced.

ii) All the materials and components of the Tendered items shall be covered with a replacement warranty of 39 months from the date of signing of installation report of the ordered items. The successful Bidder shall be liable to make good the loss by replacing the items or other accessories found defective during the warranty / project period.

iii) The Successful Bidder shall give an undertaking to maintain the spares of all the hardware items of 2% of the total quantity ordered (to be available in full working condition and be replenished after servicing) at their Chennai Office, which is open to inspection by ELCOT or customer department at any time.

iv) If the complaints are not rectified within the stipulated period as mentioned in the tender conditions, an equivalent standby shall be supplied till rectification. A penalty of 1% on the value of the item will be charged per day till the equipment is put on working condition, in case the standby item is not supplied.

v) The maintenance shall include replacement of all parts. The Ordered items, which are down, shall be restored in good working condition

within 48 hours. Otherwise, the Successful Bidder shall be liable for a penalty of 10% per week of breakdown period on the costs of only those machineries, which are non- functional. The Purchaser(s) reserves the right to terminate the maintenance contract in the event of unsatisfactory maintenance and claim damages for non-fulfillment of contract.

16. PAYMENT TERMS:

10.1(a) Payment clause for Category 1(WCS):

- 100% of the total cost of ordered items will be paid by ELCOT on behalf of the Purchaser, after receipt of funds from the Purchaser, on installation, commissioning and handing over of the ordered items to the Purchaser, after testing all the software and fulfilling the technical specifications on submission of an irrevocable Bank Guarantee for 5% of the cost of the ordered value valid for 65 months during the warranty and CAMC period. (OR)
- 95% of the total cost of ordered items will be paid by ELCOT on behalf of the Purchaser, after receipt of funds from the Purchaser, on installation, commissioning and handing over of the ordered items to the Purchaser, after testing all the software and fulfilling the technical specifications and the balance 5% will be released to the supplier after completion of 5 years warranty and CAMC period.
- 1. ELCOT advises the bidder / supplier to supply the items only if the site is ready. On receipt of the consignee details, the concerned authority may be contacted for issue of Site Ready Certificate and then arrange for supplies only to the sites, which are ready.

2. However if the site is not ready within 15 days of delivery, 75% of total cost will be paid on submitting the proof of delivery and certificate from the Purchaser that the site is not yet ready, after receipt of funds from the Purchaser and balance 25% total cost will be paid on installation,

commissioning and handing over of the systems on submission of an irrevocable Bank Guarantee for 5% of the cost of the ordered value valid for Standard warranty plus CAMC period.

“If the Purchaser is not issuing an SNR (Site Not Ready), the Successful Bidder may give an Undertaking to ELCOT stating that the Purchaser is not issuing an SNR. The 75% of total cost of the invoice will be made to the Successful Bidder on verifying the same with the Purchaser.”

- Bills will be honoured within 30 working days after submission of bills along with all supporting documents in complete shape and accepted by ELCOT. The Successful Bidder should file relevant invoices online using the web based procurement software in operation at ELCOT.

10.2(b) Payment clause for Category 2(LCS)

- No advance payment
- The entire asset's cost will be divided into **12 quarters (3 years)** and the quarterly payment on completion of supply, installation and successful commissioning of Biometric devices to the Department and a certificate obtained from the department in the prescribed format and a concurrence letter from the department to ELCOT.
- The quarterly payment will be paid after deduction of 5% of the contract value towards performance security deposit, LD and Penalty etc as applicable. Alternatively the successful bidder / contractor can be paid 100% quarterly payment against submission of irrevocable Bank Guarantee from a nationalised / scheduled bank for the 5% contract value towards Performance Security Deposit with validity for 40 months from the date of installation, commissioning and acceptance.
- Bills will be honoured within 15 working days after submission of bills along with all supporting documents in complete shape. The Supplier should file relevant invoices online using the web based Procurement Software in operation at ELCOT.

- f) The Successful Bidder hereby agrees to get the refund of incentive, excise duty and proportionate sales tax from authorities concerned and pass it on to Purchaser(s) if the Government or any other appropriate agency reduces the Excise duty or Sales tax or give incentive of any type retrospectively after supplying the Ordered items failing which action will be taken to recover the balance amount from the Successful Bidder under the Revenue Recovery Act or any other relevant act.
- g) Penalty amount if any, will be adjusted in the payment due to the Successful Bidder.
- h) All taxes and other levies imposed by Governments in India will be paid at actual as applicable.
17. The Successful Bidder agrees that in the event of non-fulfillment or non-observance of any of the conditions stipulated in the Contract, the Successful Bidder shall pay as penalty an amount equivalent to 10% of total value of Contract or an amount equal to the actual loss incurred by the Purchaser(s) whichever is higher subject to the condition that the loss amount would not exceed the value of the goods supplied / to be supplied.
18. The contract or any part share of interest in it is not be transferred or assigned by the Successful Bidder directly or indirectly to any person or persons whomsoever without the prior written consent of the Purchaser(s).
19. Neither the Purchaser(s)/ELCOT nor the Successful Bidder shall be liable to the other for any delay or failure in the performance of their respective obligations due to causes or contingencies beyond their reasonable control such as
- i) Natural phenomena including but not limited to earthquakes, floods and epidemics.

- ii) Acts of any Government authority domestic or foreign including but not limited to war declared or undeclared, priorities and quarantine restrictions.
 - iii) Accidents or disruptions including, but not limited to fire, explosions, break down of essential machinery or equipment, power and water shortages.
20. The following documents shall be deemed to form and be read and construed as part of this Contract.
- a) Technical Specifications
 - b) Tender Terms and Conditions
 - c) Amendments issued by ELCOT for the Tender document
 - d) Corrigendum / Clarifications issued by ELCOT for the Tender Document
 - e) Detailed final offer of the Successful Bidder
 - f) Purchase Order(s) issued by ELCOT from time to time
 - g) Correspondence made by ELCOT to the Successful Bidder from time to time during the period of the contract.
 - h) Wherever the offer conditions furnished by the Successful Bidder are at variance with conditions of this contract or conditions stipulated in the purchase order, the latter shall prevail over the offer conditions furnished by the Successful Bidder.
21. (a) Unless otherwise provided in the agreement, any notice, request, consent or other communication given or required to be given hereunder shall be given by mailing the same by registered mail, postage prepaid, return receipt requested in the case of the Successful Bidder to the Purchaser(s) at their respective addresses and set forth above or with other addresses and to the attention of such other person or persons as may hereafter be designated by like notice hereunder and any such notice sent by post shall be deemed to have been served on the date when in the ordinary course of post, it would have been delivered at the address to

which it was sent.

(b) Any notice to the Successful Bidder shall be deemed to be sufficiently served, if given or left in writing at their usual or last known place of abode or business.

22. Termination of Contract

22.1 Termination for default - (a) ELCOT may without prejudice to any other remedy for breach of contract, by written notice of default with a notice period of seven days, sent to the Successful Bidder, terminate the contract in whole or part, (i) if the Successful Bidder fails to deliver any or all of the goods within the time period(s) specified in the Contract, or fails to supply the items as per the Delivery Schedule or within any extension thereof granted by ELCOT; or (ii) if the Successful Bidder fails to perform any of the obligation(s) under the contract; or (iii) if the Successful Bidder, in the judgement of ELCOT, has engaged in fraudulent and corrupt practices in competing for or in executing the Contract.

(b) In the event of ELCOT terminating the Contract in whole or in part, ELCOT may procure, upon terms and in such manner as it deems appropriate, the goods and services similar to those and delivered and the Successful Bidder shall be liable to ELCOT for any additional costs for such similar goods. However, the Successful Bidder shall continue the performance of the contract to the extent not terminated.

22.2 Termination for Insolvency - ELCOT may at any time terminate the Contract by giving written notice with a notice period of 7 days to the Successful Bidder, if the Successful Bidder becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Successful Bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue

thereafter to ELCOT.

22.3 Termination for Convenience:- ELCOT may by written notice, with a notice period of seven days sent to the Successful Bidder, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for ELCOT's convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective. On termination, the successful Bidder is not entitled to any compensation whatsoever.

23. ELCOT reserves the right to cancel the order(s) and to terminate the contract in the event of short performance or non performance of the Successful Bidder.

24. Arbitration Clause:-

(a) Except as otherwise provided elsewhere in the contract, if any dispute, difference, question or disagreement arises between the parties hereto or their respective representatives or assignees, at any time in connection with construction, meaning, operation, effect, interpretation or out of the contract or breach thereof, the same shall be decided by Sole Arbitrator to be appointed by the Managing Director of ELCOT.

(b) If the Arbitrator so appointed dies, resigns, incapacitated or withdraws for any reason from the proceedings, another Arbitrator shall be appointed by the Managing Director of ELCOT. The Arbitrator so appointed shall proceed with the reference from the stage, where his predecessor had left if both parties consent for the same, otherwise, he shall proceed de novo.

(c) It is a term of the contract that the party invoking arbitration shall specify all disputes to be referred to arbitration at the time of invocation of arbitration and not thereafter.

(d) It is also a term of the contract that neither party to the contract

shall be entitled to seek interest and the arbitrator shall not grant interest.

(e) The Arbitral Tribunal shall give reasoned award and the same shall be final, conclusive and binding on the parties.

(f) The venue of the arbitration shall be Chennai and language English.

(g) The fees of the Arbitrator and expenses incidental to the arbitration proceedings shall be borne equally by the parties.

(h) Subject to as aforesaid, the provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment in lieu thereof shall apply to the arbitration proceedings under this Clause.

25. Subject to the above, the Courts at Chennai alone shall have jurisdiction in the matter.

In Witness whereof the parties hereto have signed on the day, month and year above written in the presence of

**For and or behalf of
Successful Bidder**

**For and on behalf of
Electronics Corporation of
Tamil Nadu Limited**

Witnesses:

- 1.
- 2.

Witnesses

- 1.
- 2.

Appendix-2 Bank Guarantee Format

(To be executed in Rs.100/- Stamp Paper)

To
The Managing Director
Electronics Corporation of Tamil Nadu Limited
MHU Complex II Floor
692 Anna Salai, Nandanam
Chennai - 600035

Bank Guarantee No:
Amount of Guarantee:
Guarantee covers from:
Last date for lodgement of claim:

This Deed of Guarantee executed by (Banker's Name & Address) having our Head Office at (address) (hereinafter referred to as "the Bank") in favour of The Managing Director, Electronics Corporation of Tamil Nadu Limited, MHU Complex II Floor, 692 Anna Salai, Nandanam, Chennai - 600035 (hereinafter referred to as "the Beneficiary") for an amount not exceeding Rs.____/- (Rupees _____ Only) as per the request of M/s. _____ having its office address at _____ (hereinafter referred to as "Supplier") against Letter of Acceptance reference _____ dated ____/____/____ of M/s. Electronics Corporation of Tamil Nadu Limited. This guarantee is issued subject to the condition that the liability of the Bank under this guarantee is limited to a maximum Rs.____/- (Rupees _____ Only) and the guarantee shall remain in full force up to ____ months from the date of Bank Guarantee and cannot be invoked otherwise by a written demand or claim by the beneficiary under the Guarantee served on the Bank before ____ months from the date of Bank Guarantee.

AND WHEREAS it has been stipulated by you in the said ORDER that the Supplier shall furnish you with a Bank Guarantee by a Scheduled/Nationalised Bank for the sum specified therein as security for compliance with the Contractor's performance obligations for a period in accordance with the contract.

AND WHEREAS we have agreed to give the Supplier a Guarantee.

THEREFORE, we (Bankers address)....., hereby affirm that we are Guarantors and responsible to you on behalf of the Supplier up to a total of Rs. _____/- (Rupees _____ Only) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the contract and without any demur, cavil or argument, any sum or sums within the limit of Rs. _____/- (Rupees _____ Only) as aforesaid, without your needing to prove or show grounds or reasons for your demand or the sum specified therein. We will pay the guaranteed amount notwithstanding any objection or dispute whatsoever raised by the Supplier.

This Guarantee is valid until _____ months from the date of Bank Guarantee.

Notwithstanding, anything contained herein

Our liability under this guarantee shall not be exceed Rs. _____/- (Rupees _____ Only). This bank guarantee shall be valid up to __ months from the date of Bank Guarantee and we are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before _____

In witness whereof the Bank, through its authorised Officer, has set its, hand and stamp on this at _____.

Witness:

(Signature)

(Name in Block Letters)

Appendix-3 Sample Submission Form

Date of submission: __/__/__

Bidder Name :

Bidder Address :

Tender No. :

Sample Submitted On :

Tender Product Sl No. :

Sl.No .	Item No. in the Tender	Item Description	Make	Model	Sl.No of the Item

BIDDER

ELCOT

<i>Bidding Company Name:</i>	<i>Name & Designation of the Person Receives the Sample:</i>
<i>Signature of the Representative:</i>	<i>Store I/C Name & Designation:</i>
<i>Name:</i>	<i>Signature:</i>
<i>Designation:</i>	
<i>Contact No.</i>	

Appendix - 4 Manufacturer's Letter of Guarantee (Manufacturer Authorisation Form)

To
The Managing Director,
Electronics Corporation of Tamil Nadu Ltd.,
MHU Complex, II Floor,
692, Anna Salai,
Nandanam, Chennai - 600 035.

Sir,

We hereby authorise M/sto undertake to submit a Bid, and subsequently negotiate and sign the contract with the purchaser against Tender No: ELCOT/Proc/OT/33146/Biometric Systems/RC/2018-19 for the (type the Description of goods) developed by us. We hereby extend our full warranty for the goods offered for supply by the above firm against this tender.

We also undertake to provide timely supplies as per terms of tender and as agreed mutually and also to provide a trouble free and continuous support either directly or through our authorised partners under our supervision during the Warranty and Extended Warranty Period and CAMC period. We will provide the necessary spares support in the event of replacement of any spare parts is necessitated while providing Warranty and Extended Warranty Period and CAMC period and if the spares are not available then we will arrange for complete replacement of the item(s) with an equivalent / higher model.

For this tender we authorise M/s. _____ (Complete address and full contact details of the partner) to be our sales and service partner. In the event of discontinuation of supply and service by our partner viz., M/s. _____ or any problem arises during provision of supply and services, the entire responsibility to provide trouble free and continuous supply and services to the end user / purchaser rests with us and we undertake to provide supply and services directly or through our alternative sales / service partners.

In case of violation of any of the conditions above, I/We understand that I/ We are liable to be blacklisted by ELCOT for a period of three years.

(Signature for and on behalf of Principal)

Signature with date:

Name of the signatory:

Designation:

Authorised by CEO in India / Asia etc:

If so details of the official authorising the signatory:

Note: (1) Competent authority of the Manufacturer / Principal should issue the letter of authority.

(2) If the Bidder submits the Manufacturer's Letter of Guarantee other than the specimen provided above will not be considered as valid and hence will lead to rejection of the Bid itself.

Appendix-5 Letter of Guarantee for Maintaining Minimum Stock

To
The Managing Director,
Electronics Corporation of Tamil Nadu Ltd.,
MHU Complex, II Floor,
692, Anna Salai, Nandanam, Chennai - 600 035.
Sir,

We, M/s hereby undertake and ensure that as per the Tender clause **9.10 Minimum Stock Maintenance and 9.11 C Warranty Clause** for the tender reference **ELCOT/Proc/OT/33146/Biometric Systems/RC/2018-19** floated by ELCOT for the supply of Biometric Systems, will maintain the minimum stock for the tendered items and strictly follow the instructions of ELCOT for the immediate delivery of the Biometric Systems as per the conditions stipulated in the Tender.

1. Minimum ex-stock of about 10 units of all items will be kept in the premises as confirmed by ELCOT. Upon issuance of notice from ELCOT, we will deliver and install the items within 24 hours for the Chennai Purchasers and 48 hours for the Purchasers outside Chennai.

2. No financial commitment will be claimed by us for maintaining the ex-stock items.

3. We ensure that at any point of time the minimum ex-stock level will be maintained. The short fall of 10 numbers will be replenished within 7 days from the date of delivery of the items from the minimum stock.

4. ELCOT can inspect the Minimum stock level at any point of time and may impose a penalty of 20% of the cost of the equipments which are shortage of the specified qty.

If we fail to maintain the minimum stock level in three instances during the Rate Contract period, ELCOT reserves the right to terminate the RC contract with us and we may be declared as non performer which may not permit us in participating tenders floated by ELCOT in future, for the next three years.

In case of violation of any of the conditions above, I/We understand that I/ We are liable to be blacklisted by ELCOT for a period of three years.

(Signature for and on behalf of Principal)

Appendix-6 Format for Clarifications / Amendments

FORMAT FOR
QUERIES ON TENDER CONDITIONS AND TECHNICAL SPECIFICATIONS

FOR COMMERCIAL CONDITIONS:

<i>Sl .N o.</i>	<i>Page No.</i>	<i>Clause No.</i>	<i>Title of the Clause</i>	<i>Description of the Clauses as per Tender Document</i>	<i>Amendment requested</i>	<i>Reasons for requesting the amendment</i>

FOR TECHNICAL SPECIFICATIONS:

<i>Sl .N o.</i>	<i>Pag e No.</i>	<i>Product Code</i>	<i>Item Name</i>	<i>Existing Specification as per Tender Document</i>	<i>Technical Parameter as per Tender Document</i>	<i>Amendment requested</i>	<i>Reasons for requesting the amendment</i>

Annexure-1 Technical Bid

A1.1 Check-list for Enclosures

Documents to be submitted		Fill (YES or NO)
Filled Tender Technical Bid Form and Price Bid Form		
Payment of Portal Charges and EMD amount		
Two Part Bid submission		
Letter of Authorisation for signing the Tender document		
Eligibility Criteria		
1.	Manufacturing License for Biometric Systems should be submitted	
	Manufacturing capacity of Biometric Systems should be submitted	
2.	Certificate of Incorporation of OEM/Bidder	
3.	Copies of the Audited Balance sheets and Profit and Loss account for the last 3 Financial years (2016-2017 or 2015-2016 and two preceding financial years)	
4.	Full copies of Work Order or signed Agreement and performance / order completion certificate from the Purchasers for executing single order value and 3 years existence	
5.	<u>Service Centre Facilities</u> In case of Manufacturer's service centre or franchise service centre, copies of the land-line telephone bills for the month before due date or al agreement or any legal proof should be submitted as a proof for availability of the service centres ●Manufacturer should submit undertaking to do servicing directly or through their authorised service partners under their supervision. (MAF) ●The bidders should obtain Performance Certificate from the Purchaser and submit along with tender document as a proof for service capabilities.	
6.	The bidder should have ISO 9001:2015 certified manufacturing facility or equivalent .Copy of the certificate shall be submitted	
7.	Power of Attorney for submitting the bid	
8.	Language of the supporting documents only in English	

A1.2 Profile of the Bidder

1.	Name of the Company	Principal Bidder
2.	Year of incorporation	
3.	Nature of the Company (Registered Company or Partnership or Proprietary)	
4.	Registered office (In India) or the office covering the Business transaction in India	
	Telegraphic Address	
	Office Telephone Number	
	Fax Number	
	Contact Person	
	Name	
	Personal Telephone Number	
	Email Address	
5.	Local presence at Tamil Nadu	
	Telegraphic Address	
	Office Telephone Number	
	Fax Number	
	Contact Person	
	Name	
	Personal Telephone Number	
	Email Address	
6.	Registration Details	
	Permanent Account Number	
	GST Registration Number	
7.	Banker's Name, Address and Account Number	
8.	ESI Registration No. and ESI Remittance details for last 3 years	

9.	PF Registration No. and PF Remittance details for last 3 years.	
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A1.3 Details in support of Eligibility Criteria

Sl.No.	Description	Please give details along with proof
1.	Certificate of Incorporation	
2.	Manufacturing capacity	
3.	Annual Turn over (INR)	
	2016-17	
	2015-16	
	2014-15	
4.	Details of single Purchase order for hardware or peripherals executed in Government organisations	
5.	Details about service centres in Tamil Nadu	

A1.4 Details in support of Evaluation Criteria**1. List of Service Centres**

S.No	District	Name of the Bidder, who established the centre and address of the centre	Details about the facilities and no. of service persons	Documents attached for supporting the claim

2. Track record on timely completed supply orders

S. No	Name of Purchasers	Purchase order reference, item, quantity and locations	Schedule date given by Purchaser	Actual date of completion supported by performance certificate

A1.5 Hardware Compliance

The Bidders should submit the details of the make and model of each item offered against the tender requirement and samples for the same need to be submitted for evaluation.

Category 1:

SN	Item Code	ITEM DESCRIPTION	Item Quoted details along with Make & Model
Category 1 - Group A- Android Tablet Based Bio Metric System			
1	33146-001	Android Tablet based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner	
2	33146-002	Android Tablet based Biometric Attendance Systems (Non Aadhaar integrated with STQC Certified Finger Print Scanner)	
	Add on Item		
3	33146-003	Metal Enclosure with Lock and key (Tablet Based Biometric Attendance System)	
Category 1 - Group B- Linux Based Bio Metric Attendance System - Non Aadhaar			
4	33146-004	Linux Based Bio Metric System (Non Aadhaar) - 100 User with Battery Backup and Proximity Card Reader	
5	33146-005	Linux Based Biometric Attendance Systems (500 Users) without Battery and Proximity Card Reader	
6	33146-006	Linux based Biometric Attendance Systems (500 Users) with Battery Backup and Proximity Card Reader	
7	33146-007	Linux Based Biometric Attendance Systems (1000 Users) with Battery Backup and Proximity Card	

		Reader	
8	33146-008	Linux Based Biometric Attendance Systems (2000 Users) with Battery Backup and Proximity Card Reader	
9	33146-009	Linux Based Biometric Attendance Systems (3000 Users) with Battery Backup and Proximity Card Reader	
10	33146-010	Linux Based Biometric Attendance Systems (5000 Users) with Battery Backup and Proximity Card Reader	
11	33146-011	Linux Based Biometric Attendance Systems (10000 Users) with Battery Backup and Proximity Card Reader	
12	33146-012	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 100 User	
13	33146-013	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 500 User	
14	33146-014	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 1000 User	
15	33146-015	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 2000 User	
16	33146-016	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 5000 User	
17	33146-017	Linux Based Fingerprint and card Based time - Attendance and Door Access Device with POE - 100 User	
18	33146-018	Linux Based Fingerprint and card Based time - Attendance and Door Access Device with POE - 500 User	
19	33146-019	Linux Based Fingerprint and card Based time - Attendance and Door Access Device with POE - 1000 User	
20	33146-020	Linux Based Fingerprint and card Based time - Attendance and Door Access Device with POE - 2000 User	
21	33146-021	Linux Based Fingerprint and card Based time - Attendance and Door Access Device with POE - 5000 User	
Category 1 - Group C -Linux Based Bio Metric Attendance System - Aadhaar			

22	33146-022	Linux Based Bio Metric Attendance System integrated with STQC Finger Print Scanner (Aadhaar Enabled) - 100 User	
23	33146-023	Linux Based Bio Metric Attendance System integrated with STQC Finger Print Scanner (Aadhaar Enabled) - 500 User	
24	33146-024	Linux Based Bio Metric Attendance System integrated with STQC Finger Print Scanner (Aadhaar Enabled) - 1000 User	
25	33146-025	Linux Based Bio Metric Attendance System integrated with STQC Finger Print Scanner (Aadhaar Enabled) - 2000 User	
26	33146-026	Linux Based Bio Metric Attendance System integrated with STQC Finger Print Scanner (Aadhaar Enabled) - 5000 User	
	Add on Items		
27	33146-027	Wifi Facility for Linux Based Bio Metric Attendance System	
28	33146-028	GPRS for Linux Based Bio Metric Attendance System	
29	33146-029	Metal Enclosure with Lock and key (Linux Based Biometric Attendance System)	
	Inlieu Items		
30	33146-030	HID Card Reader in lieu of Proximity card reader	
31	33146-031	Mifare Card reader in lieu of Proximity Card Reader	
Category 1 - Group D - Multi Door Access Control			
32	33146-032	Multi Door Access Controller - Finger + Card (up to 4 Doors)	
33	33146-033	Multi Door Access Controller - USB Single Finger Print Scanner for Enrolment	
34	33146-034	Multi Door Access Controller - USB Card reader for Enrolment	
35	33146-035	Finger Print Reader for Entry and Exit	
36	33146-036	Card Reader for Entry and Exit	
37	33146-037	Mifare Smart Card Based Door Controller for Access Control and Time Attendance (for	

		Enrolment)	
38	33146-038	Optical Finger Print and Card Based Door Controller for Access Control and time Attendance with STQC Certified	
39	33146-039	Fingerprint and Mifare card based exit reader	
40	33146 – 040	ID Card Printer	
	Add on Item		
41	33146-041	Cat 6 UTP LAN Cable	
42	33146-042	Cable laying with 20 mm Conduit Per Meter	
43	33146-043	Electronic Magnetic Lock (for Single Door) with suitable bracket and standard accessories	
44	33146 – 044	Electronic Magnetic Lock (for Double Door) with suitable bracket and standard accessories	
45	33146-045	Exit Manual Switch	
46	33146-046	Finger Print Reader Optical	
47	33146-047	RFID Reader (proximity Card)	
48	33146-048	RFID Reader (HID Card)	
49	33146-049	RFID reader (Mifare Card)	
50	33146-050	RFID Reader (HID Card) with Finger Print	
51	33146-051	RFID reader (Mifare Card) with finger Print	
52	33146-052	RFID reader (proximity Card) with finger Print	
53	33146-053	USB Single Finger Print Scanner for Enrolment	
54	33146-054	USB Proximity card Reader for Enrolment	
55	33146-055	USB Mifare card Reader for Enrolment	
56	33146-056	USB HID card Reader for Enrolment	
57	33146-057	Huawei E3351 Data Card or Equivalent	
58	33146-058	Network Switch 10/100/1000 (8 Port) (Unmanaged)	
59	33146-059	Network Switch 10/100/1000 (16 Port) (Unmanaged)	
60	33146-060	Network Switch 10/100/1000 (24 Port) (Unmanaged)	
61	33146-061	Network Switch 10/100/1000 (48 Port) (Unmanaged)	

62	33146-062	Proximity Card	
63	33146-063	Mifare Card	
64	33146-064	HID Card	
65	33146-065	Normal Plain Plastic Card.	
66	33146-066	Wall Mounting Kit for Biometric Devices.	
67	33146-067	Printing charges per card on Proximity/Mifare/HID card for ID Card	
68	33146-068	Color dye film for ID Card Printer-(150 Cards Double Printing)	
69	33146-069	Monochrome dye film for ID Card Printer-(1000 Cards Single Side Printing)	
70	33146-070	Cleaning kit for ID Card Printer	
Category 1 - Group E - Aadhaar Enrolment and authentication Devices			
71	33146-071	Finger Print Enrolment Device (FED 4+4+2 Fingers)	
72	33146-072	PALM Print Device Specification (Palm and 10 Fingers)	
73	33146-073	Single IRIS Scanner	
74	33146-074	Dual IRIS Scanner	
	Add on Item		
75	33146-075	UIDAI Certified GPS Device - (Built in Roof Mount Magnet / GPS Patch Antenna.)	
76	33146-076	LED Focus Light – 60watt, LED with 2Mtrs wire and on/off switch.	
77	33146-077	Surge Protector Spike – 6 nos. of 5A sockets, fuse, on/off switch, Indian Style /ISO Certified	
78	33146-078	White Screen – Size: 4 * 5 feet, non Reflecting & opaque, Mountable with stand	

Category 2: Lease Cum service Method(LCS)

SN	Item Code	ITEM DESCRIPTION	Item Quoted details along with Make & Model
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Category 2 – Group A- Android Tablet Based Bio Metric System			
1	33146-LCS-001	Android Tablet based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner	
2	33146-LCS-002	Android Tablet based Biometric Attendance Systems (Non Aadhaar integrated with STQC Certified Finger Print Scanner)	
Category 2 - Group B- Linux Based Bio Metric Attendance System - Non Aadhaar			
3	33146-LCS-003	Linux Based Bio Metric System (Non Aadhaar) - 100 User with Battery Backup and Proximity Card Reader	
4	33146-LCS-004	Linux Based Biometric Attendance Systems (500 Users) without Battery and Proximity Card Reader	
5	33146-LCS-005	Linux based Biometric Attendance Systems (500 Users) with Battery Backup and Proximity Card Reader	
6	33146-LCS-006	Linux Based Biometric Attendance Systems (1000 Users) with Battery Backup and Proximity Card Reader	
7	33146-LCS-007	Linux Based Biometric Attendance Systems (2000 Users) with Battery Backup and Proximity Card Reader	
8	33146-LCS-008	Linux Based Biometric Attendance Systems (3000 Users) with Battery Backup and Proximity Card Reader	
9	33146-LCS-009	Linux Based Biometric Attendance Systems (5000 Users) with Battery Backup and Proximity Card Reader	
10	33146-LCS-010	Linux Based Biometric Attendance Systems (10000 Users) with Battery Backup and Proximity Card Reader	
11	33146-LCS-011	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 100 User	
12	33146-LCS-012	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 500 User	
13	33146-LCS-013	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 1000 User	
14	33146-LCS-014	Linux Based Bio Metric System (Non Aadhaar) -	

		with Face Recognition 2000 User	
15	33146-LCS-015	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 5000 User	
Category 2 - Group C- Linux Based Bio Metric Attendance System - Aadhaar			
16	33146-LCS-016	Linux Based Bio Metric Attendance System integrated with STQC Finger Print Scanner (Aadhaar Enabled) - 100 User	
17	33146-LCS-017	Linux Based Biometric Attendance Systems (500 Users)	
18	33146-LCS-018	Linux Based Biometric Attendance Systems (1000 Users)	
19	33146-LCS-019	Linux Based Biometric Attendance Systems (2000 Users)	
20	33146-LCS-020	Linux Based Biometric Attendance Systems (5000 Users)	

A1.6 BIDDER COMPLIANCES

Group A- Android Tablet based Biometric System

Code	Item Description	Make	Approx Qty.
33146 – 001	Android Tablet based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner	Any Reputed make	1 No.

Sl. No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Type	Integrated Android Tablet based and Single Fingerprint Scanner Device			
2	Tablet	Android 6.0 operating system or above.			
3	Processor	Quad core 1.2 Ghz Processor or above			

4	RAM	2 GB or higher			
5	Internal Memory	16 GB or higher			
6	External Memory	Expandable upto 32 GB or higher			
7	USB Port	Micro USB v2.0 Port – 2 Nos (with OTG support) or One Micro USB v2.0 port and one round pin DC Jack Adaptor for charging on AC 100-240v, 50hz. Shall be provided with Inbuilt surge protection.			
8	Camera	Front facing Camera 5 MP (Auto focus with flash) or better			
9	Audio	Microphone with High Amplitude Speakers.			
10	Display	7" Capacitive touch screen with minimum 1024 X 600 pixel resolution, (16 M colors) or better,			
11	GSM SIM Slot	Single GSM SIM slot			
12	Battery Backup	Minimum battery backup upto 120 minutes, with minimum 4000mAH battery or above			
13	Data Support	2G,3G & 4G data support.			
14	Wi-Fi & Lan	Wi-Fi IEEE 802.11b/g/n, LAN – 10/100/1000 Mbps			
15	Bluetooth	Bluetooth 4.0 or higher			
16	Certification / Compliance	a) CE/FCC certification for Fingerprint scanner, b) RoHS (OEM Declaration), c) BIS certification for Android tablet d) Biometric Systems scanner: STQC and UIDAI Registered Device Certification			
17	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of AEBAS with NIC software. 3) Software / Application support 3rd party payroll / HRMS / ERP and other applications.			
18	Fingerprint scanner	1) STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0/Level 1 compliance, as applicable. 3) API and SDK for Android 6.0 operating system or latest version 4) Device should be plug and play with any android (6.0 and above) tablet without need of any additional license to be deployed. 5) Bidder has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications			
19	Casing	1) Android Tablet and Single Fingerprint Scanning Device should be housed in a rugged casing. 2) The casing should be made of inflexible / metal /other tough material. 3) Casing should be durable and should be able to withstand rough daily operational usage. 4) Tablet should be vertically oriented in the casing as the attendance application to be deployed is designed to run in vertical mode only. 5) 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 (Optional). 6) The casing should have provision to access the power on/off and /or reset function of the tablet through the secured casing.			
20	Response time	<5 seconds for an authentication transaction in Client-Server environment.			
21	Operating Temperature	0 C to 50 C			
22	Warranty	3 years On site Comprehensive warranty			
23	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - 002	Android Tablet based Biometric Attendance Systems (Non Aadhaar integrated with STQC Certified Finger Print Scanner)	Any Reputed make	1 No.

Sl. No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Type	Integrated Android Tablet based and Single Fingerprint Scanner Device			
2	Tablet	Android 6.0 operating system or above.			
3	Processor	Quad core 1.2 Ghz Processor or above			
4	RAM	2 GB or higher			
5	Internal Memory	16 GB or higher			
6	External Memory	Expandable upto 32 GB or higher			
7	USB Port	Micro USB v2.0 Port – 2 Nos (with OTG support) or			
9	File format outputs Single and Multi-page	One Micro USB v2.0 port and one round pin DC Jack Adaptor for charging on AC 100-240v, 50hz. Shall be provided with Inbuilt surge protection.			
8	Camera	Front facing Camera 5 MP (Auto focus with flash) or better			
9	Audio	Microphone with High Amplitude Speakers.			
10	Display	7" Capacitive touch screen with minimum 1024 X 600 pixel resolution, (16M colors) or better,			
11	GSM SIM Slot	Single GSM SIM slot			
12	Battery Backup	Minimum battery backup upto 120 minutes, with minimum 4000mAH battery or above			
13	Data Support	2G,3G & 4G data support.			
14	Wi-Fi & Lan	Wi-Fi IEEE 802.11b/g/n, LAN – 10/100/1000 Mbps			
15	Bluetooth	Bluetooth 4.0 or higher			

16	Certification / Compliance	a) CE/FCC certification for Fingerprint scanner, b) RoHS (OEM Declaration), c) BIS certification for Android tablet d) Biometric Systems scanner: STQC and UIDAI Registered Device Certification			
17	Application Compatibility	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated) / database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. 2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software 3) software / Application support 3rd party payroll / HRMS / ERP and other applications. 4) This device should also support Aadhaar based Attendance System Provided by NIC			
18	Fingerprint scanner	1) STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0/Level 1 compliance, as applicable. 3) API and SDK for Android 6.0 operating system or latest version 4) Device should be plug and play with any android (6.0 and above) tablet without need of any additional license to be deployed. 5) Bidder has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications			

19	Casing	1) Android Tablet and Single Fingerprint Scanning Device should be housed in a rugged casing. 2) The casing should be made of inflexible / metal /other tough material. 3) Casing should be durable and should be able to withstand rough daily operational usage. 4) Tablet should be vertically oriented in the casing as the attendance application to be deployed is designed to run in vertical mode only. 5) 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 (Optional). 6) The casing should have provision to access the power on/off and /or reset function of the tablet through the secured casing.			
20	Response time	<5 seconds for an authentication transaction in Client-Server environment.			
21	Operating Temperature	0 C to 50 C			
22	Warranty	3 years On site Comprehensive warranty			
23	Accessories	Power Adapter, USB cable			

Add on Item:

Code	Item Description
33146 - 003	Metal Enclosure with Lock and Key (Tablet based Biometric Attendance system)

Group B: Linux based Biometric Attendance System- Non Aadhaar

Code	Item Description	Make	Approx Qty.
33146 – 004 (100 Users)	Linux based Biometric Systems (Non Aadhaar) – 100 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications
1	Fingerprints templates Storage capacity	100 or above
2	Card Storage (RFID)	100 or above
3	Transaction storage	1,00,000
4	Card reader	Inbuilt proximity card reader
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor
6	FAR	<=0.0001%
7	FRR	<=1%
8	Identification speed	<1 sec
9	Algorithm Ver	10
10	Display	2.8" Color TFT or above
11	Keypad	Yes
12	LED Indicator	Green/Red or Onscreen Status
13	Schedule Bell/Speaker	Mini Speaker
14	Communication	TCP/IP, USB
15	Power Supply	DC 12V: 1.5Amp
16	Operating Temperature	0°C to 45°C
17	Operating Humidity	20% -80%
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above
19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at</p>

		Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.
20	Accessories	Power Adapter, USB cable

Code	Item Description	Make	Approx Qty.
33146 – 005 (500 Users)	Linux based Biometric Systems (Non Aadhaar) – 500 User without Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl. No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	500 or above			
2	Card Storage (RFID)	500 or above			
3	Transaction storage	50000			
4	Card reader	Card Reader is Optional			
5	Fingerprint sensor(Biometric)	500 DPI Optical sensor			
6	FAR	<=0.0001%			
7	FRR	<=1%			
8	Identification speed	<1 sec			
9	Algorithm Ver	10			
10	Display	2.8" Color TFT or above			
11	Keypad	Yes- 4 x 4 Keypad			
12	LED Indicator	Green/Red or Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB-host			

15	Power Supply	DC 5V: 0.8 Amps			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			
18	Battery	Battery is Optional			
19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Attendance System (BAS) Software at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of BAS with the required software.</p>			
20	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 – 006 (500 Users)	Linux based Biometric Systems (Non Aadhaar) – 500 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	500 or above			
2	Card Storage (RFID)	500 or above			
3	Transaction storage	1,00,000			
4	Card reader	Inbuilt proximity card			

		reader			
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
6	FAR	<=0.0001%			
7	FRR	<=1%			
8	Identification speed	<1 sec			
9	Algorithm Ver	10			
10	Display	2.8" Color TFT or above			
11	Keypad	Yes			
12	LED Indicator	Green/Red or Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB			
15	Power Supply	DC 12V: 1.5Amp			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above			
19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>			

20	Accessories	Power Adapter, USB cable			
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Code	Item Description	Make	Approx Qty.
33146 – 007 (1000 Users)	Linux based Biometric Systems (Non Aadhaar) – 1000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	1000 or above			
2	Card Storage (RFID)	1000 or above			
3	Transaction storage	1,00,000			
4	Card reader	Inbuilt proximity card reader			
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
6	FAR	<=0.0001%			
7	FRR	<=1%			
8	Identification speed	<1 sec			
9	Algorithm Ver	10			
10	Display	2.8" Color TFT or above			
11	Keypad	Yes			
12	LED Indicator	Green/Red or Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB			
15	Power Supply	DC 12V: 1.5Amp			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above			

19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>			
20	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - 008	Linux based Biometric Systems (Non Aadhaar) - 2000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	2000 or above			
2	Card Storage (RFID)	2000 or above			
3	Transaction storage	1,00,000			
4	Card reader	Inbuilt proximity card reader			
5	Fingerprint	500 DPI Optical			

	sensor(Biometric Systems)	sensor			
6	FAR	$\leq 0.0001\%$			
7	FRR	$\leq 1\%$			
8	Identification speed	< 1 sec			
9	Algorithm Ver	10			
10	Display	2.8" Color TFT or above			
11	Keypad	Yes			
12	LED Indicator	Green/Red or Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB			
15	Power Supply	DC 12V: 1.5Amp			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above			
19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has</p>			

		to provide all necessary technical support for integration of BAS with the required software.			
20	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - 009	Linux based Biometric Systems (Non Aadhaar) – 3000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	3000 or above			
2	Card Storage (RFID)	3000 or above			
3	Transaction storage	1,00,000			
4	Card reader	Inbuilt proximity card reader			
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
6	FAR	<=0.0001%			
7	FRR	<=1%			
8	Identification speed	<1 sec			
9	Algorithm Ver	10			
10	Display	2.8" Color TFT or above			
11	Keypad	Yes			
12	LED Indicator	Green/Red or Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB			
15	Power Supply	DC 12V: 1.5Amp			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			

18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above			
19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>			
20	Accessories	Power Adapter, USB			

		cable			
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Code	Item Description	Make	Approx Qty.
33146 - 010	Linux based Biometric Systems (Non Aadhaar) - 5000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	5000 or above			
2	Card Storage (RFID)	5000 or above			
3	Transaction storage	1,00,000			
4	Card reader	Inbuilt proximity card reader			
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
6	FAR	<=0.0001%			
7	FRR	<=1%			
8	Identification speed	<1 sec			
9	Algorithm Ver	10			
10	Display	2.8" Color TFT or above			
11	Keypad	Yes			
12	LED Indicator	Green/Red or Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB			
15	Power Supply	DC 12V: 1.5Amp			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above			

19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>			
20	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - 011	Linux based Biometric Systems (Non Aadhaar) – 9600 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	9600 or above			
2	Card Storage (RFID)	9600 or above			
3	Transaction storage	2,00,000 or above			
4	Card reader	Inbuilt proximity card reader			
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
6	FAR	<=0.0001%			
7	FRR	<=1%			
8	Identification speed	<0.5 sec			
9	Algorithm Ver	10			
10	Display	3" Color TFT or above			
11	Keypad	Yes			
12	LED Indicator	Green/Red or Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB			
15	Power Supply	DC 12V: 1.5Amp			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			
18	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above			

19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>			
20	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - 012	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (100 Users)	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Face capacity	100(1:N), 100(1:1) or			

		above			
2	Fingerprints templates	4000			
3	ID Card Storage	10000			
4	Transaction storage	1,00,000			
5	Card reader	Inbuilt proximity card reader			
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
7	Push Data	Yes			
8	Communication	TCP/IP, RS232/485, USB Host			
9	Display	4.3-Inch Touch Screen			
10	FAR	<=0.0001%			
11	FRR	<=1%			
12	Keypad	Yes			
13	Schedule Bell/Speaker	Mini Speaker			
14	Identification speed	<0.5 sec			
15	Wiegand Signal	Output			
16	Optional Functions	MiFare Card, Wi-Fi, 3G			
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above			
18	Power Supply	12V: 3A			
19	Temperature	0 °C- 45 °C			
20	Humidity	20%-80%			
21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System</p>			

		(BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.			
22	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - 013	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (500 Users)	Any Reputed make	1 No.

SL.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Face capacity	500(1:N), 500(1:1) or above			
2	Fingerprints templates	4000			
3	ID Card Storage	10000			
4	Transaction storage	1,00,000			
5	Card reader	Inbuilt proximity card reader			
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
7	Push Data	Yes			
8	Communication	TCP/IP, RS232/485, USB Host			
9	Display	4.3-Inch Touch Screen			
10	FAR	<=0.0001%			
11	FRR	<=1%			
12	Keypad	Yes			

13	Schedule Bell/Speaker	Mini Speaker			
14	Identification speed	<0.5 sec			
15	Wiegand Signal	Output			
16	Optional Functions	MiFare Card, Wi-Fi, 3G			
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above			
18	Power Supply	12V: 3A			
19	Temperature	0 °C- 45 °C			
20	Humidity	20%-80%			
21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the</p>			

		required software.			
22	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - 014	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (1000 Users)	Any Reputed make	1 No.

SL.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Face capacity	1000(1:N), 1000(1:1) or above			
2	Fingerprints templates	4000			
3	ID Card Storage	10000			
4	Transaction storage	1,00,000			
5	Card reader	Inbuilt proximity card reader			
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
7	Push Data	Yes			
8	Communication	TCP/IP, RS232/485, USB Host			

9	Display	4.3-Inch Touch Screen			
10	FAR	<=0.0001%			
11	FRR	<=1%			
12	Keypad	Yes			
13	Schedule Bell/Speaker	Mini Speaker			
14	Identification speed	<0.5 sec			
15	Wiegand Signal	Output			
16	Optional Functions	MiFare Card, Wi-Fi, 3G			
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above			
18	Power Supply	12V: 3A			
19	Temperature	0 °C- 45 °C			
20	Humidity	20%-80%			
21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to</p>			

		provide all necessary technical support for integration of BAS with the required software.			
22	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - 015	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (2000 Users)	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Face capacity	2000(1:N), 2000(1:1) or above			
2	Fingerprints templates	4000			
3	ID Card Storage	10000			
4	Transaction storage	1,00,000			
5	Card reader	Inbuilt proximity card reader			
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
7	Push Data	Yes			
8	Communication	TCP/IP, RS232/485, USB Host			
9	Display	4.3-Inch Touch Screen			
10	FAR	<=0.0001%			
11	FRR	<=1%			

12	Keypad	Yes			
13	Schedule Bell/Speaker	Mini Speaker			
14	Identification speed	<0.5 sec			
15	Wiegand Signal	Output			
16	Optional Functions	MiFare Card, Wi-Fi, 3G			
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above			
18	Power Supply	12V: 3A			
19	Temperature	0 °C- 45 °C			
20	Humidity	20%-80%			
21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for</p>			

		integration of BAS with the required software.			
22	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - 016	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (5000 Users)	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Face capacity	5000(1:N), 5000(1:1) or above			
2	Fingerprints templates	4000			
3	ID Card Storage	10000			
4	Transaction storage	1,00,000			
5	Card reader	Inbuilt proximity card reader			
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
7	Push Data	Yes			
8	Communication	TCP/IP, RS232/485, USB Host			

9	Display	4.3-Inch Touch Screen			
10	FAR	$\leq 0.0001\%$			
11	FRR	$\leq 1\%$			
12	Keypad	Yes			
13	Schedule Bell/Speaker	Mini Speaker			
14	Identification speed	< 0.5 sec			
15	Wiegand Signal	Output			
16	Optional Functions	MiFare Card, Wi-Fi, 3G			
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above			
18	Power Supply	12V: 3A			
19	Temperature	0 °C- 45 °C			
20	Humidity	20%-80%			
21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of</p>			

		BAS with the required softw are.			
22	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - 017	Linux Based Fingerprint and Card based Time-Attendance and Door Access Device with POE-100 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	GENERAL Application	- Time- Attendance and Door Access			
2	GENERAL Integration	- AEBAS Server (AADHAAR Enabled Biometric Attendance System)			
3	GENERAL Credential Support	- Finger, RFID Card and AADHAAR Number			
4	GENERAL - Card Support	Mifare Smart Card (Read/Write Supported)			
5	GENERAL - Sensor	Suprema Optical Sensor (STQC Certified)			
6	GENERAL - Keypad	Touch Screen Based			
7	DISPLAY - Display	3.5" TFT Display with Capacitive Touch Panel			
8	DISPLAY - Display Size	320 x 240 Pixels			
9	COMMUNICATION - Ethernet	- Yes (10/100 Mbps on Ethernet)			
10	COMMUNICATION - Wi-Fi	- Yes (802.11 b/g/n)			

11	COMMUNICATION - PoE	Yes (IEEE 802.3 af)			
12	COMMUNICATION - Mobile Broadband	Yes (3G/4G Support) Through USB dongle			
13	AUDIO-VISUAL - User Photo Display	Yes			
14	AUDIO-VISUAL - Buzzer	Yes			
15	CONFIGURATION - Platform (Operating System)	Embedded Linux			
16	CONFIGURATION - CPU	800 MHz ARM Cortex A8 based Processor			
17	CONFIGURATION - Flash Memory	256 MB Flash			
18	CONFIGURATION - RAM Memory	512 MB DDR3 RAM			
19	CONFIGURATION - Micro SD Card	Yes (Inbuilt 4 GB)			
20	ELECTRICAL - Input Power	12 VDC @ 2A			
21	ELECTRICAL - Tamper Detection	Yes			
22	ENVIRONMENTAL - Humidity	5% to 85% RH Non-Condensing			
23	ENVIRONMENTAL - Operating Temperature	0°C to + 50°C (32°F to 122°F)			
24	INTERFACES - Exit Switch	Yes			
25	INTERFACES - Door Status Sense	Programmable NO, NC, Supervised			
26	INTERFACES - Door Lock Relay	Form C, SPDT Relay (Max 2A@30 VDC)			
27	INTERFACES - Door Lock Power	Internal 12VDC @ 0.5A or External			
28	INTERFACES - Aux-IN	Programmable NO, NC, Supervised			
29	INTERFACES - Aux-OUT	Form C, SPDT Relay (Max 2A@30 VDC)			
30	INTERFACES - Reader Interface types	RS 232, and Wiegand IN/OUT			
31	INTERFACES - Reader Types - Features	1 Port for Card Reader / Finger Reader / Card Finger Combo Reader / Third Party Wiegand reader			

Code	Item Description	Make	Approx Qty.
33146 - 018	Linux Based Fingerprint and Card based Time-Attendance and	Any Reputed make	1 No.

	and Door Access Device with POE- 500 Users		
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Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	GENERAL - Application	Time- Attendance and Door Access			
2	GENERAL - Integration	AEBAS Server (AADHAAR Enabled Biometric Attendance System)			
3	GENERAL - Credential Support	Finger, RFID Card and AADHAAR Number			
4	GENERAL - Card Support	Mifare Smart Card (Read/Write Supported)			
5	GENERAL - Sensor	Suprema Optical Sensor (STQC Certified)			
6	GENERAL - Keypad	Touch Screen Based			
7	DISPLAY - Display	3.5" TFT Display with Capacitive Touch Panel			
8	DISPLAY - Display Size	320 x 240 Pixels			
9	COMMUNICATION - Ethernet	Yes (10/100 Mbps on Ethernet)			
10	COMMUNICATION - Wi-Fi	Yes (802.11 b/g/n)			
11	COMMUNICATION - PoE	Yes (IEEE 802.3 af)			
12	COMMUNICATION - Mobile Broadband	Yes (3G/4G Support) Through USB dongle			
13	AUDIO-VISUAL - User Photo Display	Yes			
14	AUDIO-VISUAL - Buzzer	Yes			
15	CONFIGURATION - Platform (Operating System)	Embedded Linux			
16	CONFIGURATION - CPU	800 MHz ARM Cortex A8 based Processor			
17	CONFIGURATION - Flash Memory	256 MB Flash			
18	CONFIGURATION - RAM Memory	512 MB DDR3 RAM			
19	CONFIGURATION - Micro SD Card	Yes (Inbuilt 4 GB)			

20	ELECTRICAL - Input Power	12 VDC @ 2A			
21	ELECTRICAL - Tamper Detection	Yes			
22	ENVIRONMENT AL - Humidity	5% to 85% RH Non-Condensing			
23	ENVIRONMENT AL - Operating Temperature	0°C to + 50°C (32°F to 122°F)			
24	INTERFACES - Exit Switch	Yes			
25	INTERFACES - Door Status Sense	Programmable NO, NC, Supervised			
26	INTERFACES - Door Lock Relay	Form C, SPDT Relay (Max 2A@30 VDC)			
27	INTERFACES - Door Lock Power	Internal 12VDC @ 0.5A or External			
28	INTERFACES - Aux-IN	Programmable NO, NC, Supervised			
29	INTERFACES - Aux-OUT	Form C, SPDT Relay (Max 2A@30 VDC)			
30	INTERFACES - Reader Interface types	RS 232, and Wiegand IN/OUT			
31	INTERFACES - Reader Types - Features	1 Port for Card Reader / Finger Reader / Card Finger Combo Reader / Third Party Wiegand reader			

Code	Item Description	Make	Approx Qty.
33146 - 019	Linux Based Fingerprint and Card based Time-Attendance and Door Access Device with POE-1000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	GENERAL - Application	Time- Attendance and Door Access			
2	GENERAL - Integration	AEBAS Server (AADHAAR Enabled Biometric Attendance System)			
3	GENERAL - Credential Support	Finger, RFID Card and AADHAAR Number			
4	GENERAL - Card Support	Mifare Smart Card (Read/Write Supported)			
5	GENERAL -	Suprema Optical Sensor			

	Sensor	(STQC Certified)			
6	GENERAL - Keypad	Touch Screen Based			
7	DISPLAY - Display	3.5" TFT Display with Capacitive Touch Panel			
8	DISPLAY - Display Size	320 x 240 Pixels			
9	COMMUNICATIO N - Ethernet	Yes (10/100 Mbps on Ethernet)			
10	COMMUNICATIO N - Wi-Fi	Yes (802.11 b/g/n)			
11	COMMUNICATIO N - PoE	Yes (IEEE 802.3 af)			
12	COMMUNICATIO N - Mobile Broadband	Yes (3G/4G Support) Through USB dongle			
13	AUDIO-VISUAL - User Photo Display	Yes			
14	AUDIO-VISUAL - Buzzer	Yes			
15	CONFIGURATION - Platform (Operating System)	Embedded Linux			
16	CONFIGURATION - CPU	800 MHz ARM Cortex A8 based Processor			
17	CONFIGURATION - Flash Memory	256 MB Flash			
18	CONFIGURATION - RAM Memory	512 MB DDR3 RAM			
19	CONFIGURATION - Micro SD Card	Yes (Inbuilt 4 GB)			
20	ELECTRICAL - Input Power	12 VDC @ 2A			
21	ELECTRICAL - Tamper Detection	Yes			
22	ENVIRONMENTA L - Humidity	5% to 85% RH Non-Condensing			
23	ENVIRONMENTA L - Operating Temperature	0°C to + 50°C (32°F to 122°F)			
24	INTERFACES - Exit Switch	Yes			
25	INTERFACES - Door Status Sense	Programmable NO, NC, Supervised			
26	INTERFACES - Door Lock Relay	Form C, SPDT Relay (Max 2A@30 VDC)			
27	INTERFACES - Door Lock Power	Internal 12VDC @ 0.5A or External			
28	INTERFACES - Aux-IN	Programmable NO, NC, Supervised			
29	INTERFACES - Aux-OUT	Form C, SPDT Relay (Max 2A@30 VDC)			

30	INTERFACES - Reader Interface types	RS 232, and Wiegand IN/OUT			
31	INTERFACES - Reader Types - Features	1 Port for Card Reader / Finger Reader / Card Finger Combo Reader / Third Party Wiegand reader			

Code	Item Description	Make	Approx Qty.
33146 - 020	Linux Based Fingerprint and Card based Time-Attendance and Door Access Device with POE-2000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	GENERAL - Application	Time- Attendance and Door Access			
2	GENERAL - Integration	AEBAS Server (AADHAAR Enabled Biometric Attendance System)			
3	GENERAL - Credential Support	Finger, RFID Card and AADHAAR Number			
4	GENERAL - Card Support	Mifare Smart Card (Read/Write Supported)			
5	GENERAL - Sensor	Suprema Optical Sensor (STQC Certified)			
6	GENERAL - Keypad	Touch Screen Based			
7	DISPLAY - Display	3.5" TFT Display with Capacitive Touch Panel			
8	DISPLAY - Display Size	320 x 240 Pixels			
9	COMMUNICATION - Ethernet	Yes (10/100 Mbps on Ethernet)			
10	COMMUNICATION - Wi-Fi	Yes (802.11 b/g/n)			
11	COMMUNICATION - PoE	Yes (IEEE 802.3 af)			
12	COMMUNICATION - Mobile Broadband	Yes (3G/4G Support) Through USB dongle			
13	AUDIO-VISUAL - User Photo Display	Yes			
14	AUDIO-VISUAL - Buzzer	Yes			
15	CONFIGURATION -	Embedded Linux			

	Platform (Operating System)				
16	CONFIGURATION - CPU	800 MHz ARM Cortex A8 based Processor			
17	CONFIGURATION - Flash Memory	256 MB Flash			
18	CONFIGURATION - RAM Memory	512 MB DDR3 RAM			
19	CONFIGURATION - Micro SD Card	Yes (Inbuilt 4 GB)			
20	ELECTRICAL - Input Power	12 VDC @ 2A			
21	ELECTRICAL - Tamper Detection	Yes			
22	ENVIRONMENTAL - Humidity	5% to 85% RH Non-Condensing			
23	ENVIRONMENTAL - Operating Temperature	0°C to + 50°C (32°F to 122°F)			
24	INTERFACES - Exit Switch	Yes			
25	INTERFACES - Door Status Sense	Programmable NO, NC, Supervised			
26	INTERFACES - Door Lock Relay	Form C, SPDT Relay (Max 2A@30 VDC)			
27	INTERFACES - Door Lock Power	Internal 12VDC @ 0.5A or External			
28	INTERFACES - Aux-IN	Programmable NO, NC, Supervised			
29	INTERFACES - Aux-OUT	Form C, SPDT Relay (Max 2A@30 VDC)			
30	INTERFACES - Reader Interface types	RS 232, and Wiegand IN/OUT			
31	INTERFACES - Reader Types – Features	1 Port for Card Reader / Finger Reader / Card Finger Combo Reader / Third Party Wiegand reader			

Code	Item Description	Make	Approx Qty.
33146 - 021	Linux Based Fingerprint and Card based Time-Attendance and Door Access Device with POE-5000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	GENERAL - Application	Time- Attendance and			

		Door Access			
2	GENERAL - Integration	AEBAS Server (AADHAAR Enabled Biometric Attendance System)			
3	GENERAL - Credential Support	Finger, RFID Card and AADHAAR Number			
4	GENERAL - Card Support	Mifare Smart Card (Read/Write Supported)			
5	GENERAL - Sensor	Suprema Optical Sensor (STQC Certified)			
6	GENERAL - Keypad	Touch Screen Based			
7	DISPLAY - Display	3.5" TFT Display with Capacitive Touch Panel			
8	DISPLAY - Display Size	320 x 240 Pixels			
9	COMMUNICATION - Ethernet	Yes (10/100 Mbps on Ethernet)			
10	COMMUNICATION - Wi-Fi	Yes (802.11 b/g/n)			
11	COMMUNICATION - PoE	Yes (IEEE 802.3 af)			
12	COMMUNICATION - Mobile Broadband	Yes (3G/4G Support) Through USB dongle			
13	AUDIO-VISUAL - User Photo Display	Yes			
14	AUDIO-VISUAL - Buzzer	Yes			
15	CONFIGURATION - Platform (Operating System)	Embedded Linux			
16	CONFIGURATION - CPU	800 MHz ARM Cortex A8 based Processor			
17	CONFIGURATION - Flash Memory	256 MB Flash			
18	CONFIGURATION - RAM Memory	512 MB DDR3 RAM			
19	CONFIGURATION - Micro SD Card	Yes (Inbuilt 4 GB)			
20	ELECTRICAL - Input Power	12 VDC @ 2A			
21	ELECTRICAL - Tamper Detection	Yes			
22	ENVIRONMENTAL - Humidity	5% to 85% RH Non-Condensing			
23	ENVIRONMENTAL - Operating Temperature	0°C to + 50°C (32°F to 122°F)			
24	INTERFACES - Exit Switch	Yes			
25	INTERFACES - Door Status Sense	Programmable NO, NC, Supervised			
26	INTERFACES - Door Lock Relay	Form C, SPDT Relay (Max 2A@30 VDC)			
27	INTERFACES - Door Lock Power	Internal 12VDC @ 0.5A or External			
28	INTERFACES - Aux-IN	Programmable NO,			

		NC, Supervised			
29	INTERFACES - Aux-OUT	Form C, SPDT Relay (Max 2A@30 VDC)			
30	INTERFACES - Reader Interface types	RS 232, and Wiegand IN/OUT			
31	INTERFACES - Reader Types – Features	1 Port for Card Reader / Finger Reader / Card Finger Combo Reader / Third Party Wiegand reader			

Group C- Linux based Biometric Attendance System - Aadhaar

Code	Item Description	Make	Approx Qty.
33146 - 022	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 100 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD			
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above			
3	Memory	1GB RAM or above, 8GB Flash or above			
4	Operating System	LINUX OS (3.0.35) or above			
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)			
6	Interfaces/ Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1			
7	Speaker	1W Audio Speaker supporting MP3 and WAV file			
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications			
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.			
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n			
11	GPS	Optional			
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A			
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above			
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.			
15	Operating Temperature	0°C to 55°C			
16	Safety	CE certified			
17	Drop Test	3-4 Feet Drop test			
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE			
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)			
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.			

21	Accessories	Power Adapter, USB cable			
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Code	Item Description	Make	Approx Qty.
33146 - 023	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 500 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD			
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above			
3	Memory	1GB RAM or above, 8GB Flash or above			
4	Operating System	LINUX OS (3.0.35) or above			
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)			
6	Interfaces/ Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1			
7	Speaker	1W Audio Speaker supporting MP3 and WAV file			
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder			

		has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications			
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.			
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n			
11	GPS	Optional			
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A			
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above			
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.			
15	Operating Temperature	0°C to 55°C			
16	Safety	CE certified			
17	Drop Test	3-4 Feet Drop test			
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE			
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)			
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before			

		delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.			
21	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - 024	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 1000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD			
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above			
3	Memory	1GB RAM or above, 8GB Flash or above			
4	Operating System	LINUX OS (3.0.35) or above			
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)			
6	Interfaces/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1			
7	Speaker	1W Audio Speaker supporting MP3 and WAV file			
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI			

		guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications			
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.			
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n			
11	GPS	Optional			
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A			
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above			
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.			
15	Operating Temperature	0°C to 55°C			
16	Safety	CE certified			
17	Drop Test	3-4 Feet Drop test			
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE			
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)			
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.			
21	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - 025	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 2000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD			
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above			
3	Memory	1GB RAM or above, 8GB Flash or above			
4	Operating System	LINUX OS (3.0.35) or above			
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)			
6	Interfaces/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1			
7	Speaker	1W Audio Speaker supporting MP3 and WAV file			
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications			
9	Contact less card	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.			

	reader				
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n			
11	GPS	Optional			
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A			
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above			
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.			
15	Operating Temperature	0°C to 55°C			
16	Safety	CE certified			
17	Drop Test	3-4 Feet Drop test			
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE			
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)			
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.			
21	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - 026	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 5000 Users	Any Reputed make	1 No.

Sl.	Parame	Tender Specifications	As per	Bidder's	Bidders
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No.	ter		Brochure	offer	compliance Yes/ No
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD			
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above			
3	Memory	1GB RAM or above, 8GB Flash or above			
4	Operating System	LINUX OS (3.0.35) or above			
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)			
6	Interfaces/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1			
7	Speaker	1W Audio Speaker supporting MP3 and WAV file			
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications			
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.			
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n			
11	GPS	Optional			
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A			
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above			
14	Enclosure	Rugged casing made up of ABS+PC			

	re	Complying to IP51 Standards and wall mount facility to be provided.			
15	Operating Temperature	0°C to 55°C			
16	Safety	CE certified			
17	Drop Test	3-4 Feet Drop test			
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE			
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)			
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.			
21	Accessories	Power Adapter, USB cable			

Add on Items for Group B and Group C:

Code	Item Description
33146-027	Wifi Facility for Linux Based Bio Metric Attendance System
33146-028	GPRS for Linux Based Bio Metric Attendance System
33146-029	Metal Enclosure with Lock and key (Linux Based Biometric Attendance System)

Inlieu items for Group B and Group C:

Code	Item Description
33146-030	HID Card Reader in lieu of Proximity card reader
33146-031	Mifare Card reader in lieu of Proximity Card Reader

Group D- Multi Door Access Control

Code	Item Description	Make	Approx Qty.
33146 - 032	Multi Door Access Controller	Any Reputed make	1 No.

	- Finger + Card (Up to 4 Doors)		
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Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Processor	32Bit MIPS Processor with 32MB RAM, 128 Flash Memory			
2	Fingerprint Templates Capacity	3,000 or above			
3	Card Storage capacity	30,000 or above			
4	Event Buffer	1,00,000			
5	Communication	TCP/IP, RS485			
6	Reader Port	1 No extended RS485 Port			
7	input port	8ea (Exit button #1, Exit Button #2, Exit Button #3, Exit Button #4, Door sensor #1, Door sensor #2, Door Sensor #3, Door Sensor #4)			
8	Reader	Finger Print & Proximity Card Reader			
9	Input power	9.6-14.4V DC 5A			
10	Compatible Software	1) Bidder should provide the necessary controller software free of cost, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. Bidder has to provide all necessary technical support for the door access control.			

Code	Item Description	Make	Approx
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			Qty.
33146 - 033	Multi Door Access Controller -USB Single Finger Print Scanner for enrolment	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Sensor	Optical Finger print sensor			
2	Resolution	Up to 500 DPI			
3	Image Size	15.5 * 18 mm			
4	Interface	USB 1.1 / 2.0			
5	Operating System	Windows 2000, XP, 2003, Vista, 7 (32/64 bit)			
6	Operating Temperature	0°C - 45°C			
7	Operating Humidity	20% - 80%			
8	Other Features	High performance fingerprint scanner for precise authentication for PC or network security			
		Excellent adaptation for dry and wet fingerprint			
		USB interface facilitates communication			

Code	Item Description	Make	Approx Qty.
33146 - 034	Multi Door Access Controller - USB Card Reader for Enrolment.	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Read Range	Up to 10 CM			
2	Card Type	Proximity/ MiFare/HID			
3	Power / Current	USB 5V DC / Max. 100mA			
4	LED Indicator	2 Color LED Indicators (Red & Green)			

5	Beeper	Yes			
6	Operating Frequency	125KHz (CR10E) 13.56MHz (CR10M)			
7	Operating temperature	-10° to +70°			
8	Operating Humidity	10% to 90% (relative humidity non- considered)			
9	Operating temperature	-20° to +65°C			
10	Operating Humidity	10% to 90% (relative humidity non-considered)			
11	Color	Black			
12	Operating system support	IEmulation Keypad (Compatible with WIN98/2000/XP/VISTA/7 and Above)			

Code	Item Description	Make	Approx Qty.
33146 - 035	Finger Print Reader for Entry & Exit.	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Sensor	Optical Finger Print Sensor			
2	Resolutions	500 Dpi			
3	Communication	RS 485			
4	Voice Prompt	Yes			

Code	Item Description	Make	Approx Qty.
33146 - 036	Card Reader for Entry & Exit	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
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1	Communication	RF ID			
2	card type	Proximity/MiFare/HID			
3	Voice Prompt	Yes			

Code	Item Description	Make	Approx Qty.
33146 - 037	Mifare Smart Card Based Door Controller for Access Control and Time Attendance (for Enrolment)	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	GENERAL - Credential Support	Card			
2	GENERAL - User Capacity	10,000			
3	GENERAL - Type of Card	Mifare Smart Card			
4	CAPACITY - Cards Per User	2			
5	CAPACITY - Events Buffer	50,000			
6	COMMUNICATION - RS-485	Yes (115.2 Kbps)			
7	COMMUNICATION - Battery Backup	No			
8	COMMUNICATION - Ethernet	Yes (10/100 Mbps)			
9	COMMUNICATION - PoE	Yes (IEEE 802.3 af)			
10	INTERFACES - Exit Switch	Yes			
11	INTERFACES - Door Status Sense	Programmable NO, NC, Supervised			
12	INTERFACES - Door Lock Relay	Form C, SPDT Relay (Max 1A@30 VDC)			
13	INTERFACES - Door Lock Power	Internal 12VDC @ 0.5A or External			
14	INTERFACES - Reader Interface types	RS 232, and Wiegand IN/OUT			
15	AUDIO-VISUAL - Buzzer	Yes			
16	AUDIO-VISUAL - LED	Single LED (Tri-Color)			
17	CONFIGURATION - CPU	32 Bit Micro-controller			
18	CONFIGURATION - Flash Memory	512 KB Internal Memory + 4 MB External Flash			

19	CONFIGURATION - RAM Memory	128 KB SRAM			
20	ELECTRICAL - Input Power	12 VDC @ 2A			
21	ENVIRONMENTAL - Humidity	5% to 85% RH Non-Condensing			
22	OTHERS - System Integration	Software API for Software Integration			
23	OTHERS - Operational Mode	Direct Door with Server			
24	OTHERS - IP65	Verified			
25	OTHERS - Real Time Clock	Rechargeable RTC with NTP Server/ GPS Clock			
26	OTHERS - Tamper Detection	Yes			
27	OTHERS - Certification	CE, BIS			

Code	Item Description	Make	Approx Qty.
33146 - 038	Optical Finger Print and Card Based Door Controller for Access Control and time Attendance with STQC Certified	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	GENERAL - Credential Support	Card, PIN and Finger			
2	GENERAL - Display	128 x 64 Dot Matrix Display			
3	GENERAL - Keypad	16 Touch Sense Keys			
4	CAPACITY - User Capacity	50,000 (Max. 9600 in 1:N Mode)			
5	CAPACITY - Template Per User	Up to 10 (Single Template per Finger Mode), Up to 5 (Dual Template per Finger Mode)			
6	CAPACITY - Template Storage Capacity	9600 in 1:N Mode and 1 lac in 1:1 Mode			
7	CAPACITY - Cards Per User	Upto 2			
8	CAPACITY - Event Buffer	5,00,000			
9	CAPACITY - Types of Cards Support	Proximity Card (EM Prox) & Smart Card (Mifare and HID iClass) (Card Module			

		Required)			
10	COMMUNICATION - Mobile Broadband	Yes (2G/3G Support)			
11	COMMUNICATION - RS-485	Yes (115.2 Kbps)			
12	COMMUNICATION - Ethernet	Yes (10/100 Mbps on Ethernet)			
13	INTERFACES - Exit Switch	Yes			
14	INTERFACES - Door Status Sense	Programmable NO, NC, Supervised			
15	INTERFACES - Door Lock Relay	Form C, SPDT Relay (Max 2A@30 VDC)			
16	INTERFACES - Door Lock Power	Internal 12VDC @ 0.5A or External			
17	INTERFACES - Aux-IN	Programmable NO, NC, Supervised			
18	INTERFACES - Aux-OUT	Form C, SPDT Relay (Max 1A@30 VDC)			
19	INTERFACES - Reader Interface types	RS 232, and Wiegand IN only			
20	INTERFACES - Reader Types	1 Port for Card Reader / Finger Reader / Card Finger Combo Reader / Third Party Wiegand reader			
21	INTERFACES - USB	2 USB Ports (1 for Data Transfer and 1 for 2G-3G Dongle)			
22	AUDIO- VISUAL - Buzzer	Yes			
23	AUDIO- VISUAL - LED	4 LEDs (Status, Alarm, Allowed, Denied)			
24	CONFIGURATION - CPU	400 MHz ARM 9 based Processor			
25	CONFIGURATION - Flash Memory	256 MB Flash			
26	CONFIGURATION - RAM Memory	128 MB DDR2 RAM			
27	ELECTRICAL - Input Power	12 VDC @ 2A			
28	ELECTRICAL - Reader Power Output	Internal 12 VDC @ 0.5 A or External			
29	ELECTRICAL - Battery Backup	No			
30	ENVIRONMENTAL - Humidity	5% to 85% RH Non-Condensing			
31	ENVIRONMENTAL - Operating Temperature	0°C to + 50°C (32°F to 122°F)			
32	ENVIRONMENTAL - Certification	CE and RoHS			
33	OTHERS - System Integration	Software API for Software Integration			
34	OTHERS - Real Time Clock	Rechargeable RTC with NTP Server/ GPS Clock			
35	OTHERS - Operational Mode	Direct Door with Server			

36	OTHERS - Tamper Detection	Yes			
37	SENSOR SPECIFICATIONS - Sensing Area	15.9mm x 17.9mm (0.62" x 0.70")			
38	SENSOR SPECIFICATIONS - Sensor Technology	Suprema Optical Sensor with STQC certified			
39	SENSOR SPECIFICATIONS - Image Size in Pixels	288 x 288			
40	SENSOR SPECIFICATIONS - Image Resolution in DPI	500			
41	SENSOR SPECIFICATIONS - Identification Time	< 1sec			
42	SENSOR SPECIFICATIONS - Equal Error rate (ERR)	< 0.1%			
43	SENSOR SPECIFICATIONS - Water-proof	IP65, Scratch free			
44	SENSOR SPECIFICATIONS - Verification Time	< 1sec (less than 3000 templates)			
45	SENSOR SPECIFICATIONS - Template Size	384 bytes			
46	SENSOR SPECIFICATIONS - Fingerprint Module	ISO 19794-2 Compliant			
47	ISO Card Support - Proximity - 125 KHz	No ISO Standards			
48	ISO Card Support - Mifare Card - 13.56 MHz	ISO 14443 A Supported			
49	ISO Card Support - HID iCLASS Card - 13.56 MHz	ISO 14443 A and ISO 15693 Supported			
50	ISO Card Support - DesFire Card - 13.56 MHz	ISO 14443 A Supported (Read Only)			

Code	Item Description	Make	Approx Qty.
33146 - 039	Fingerprint and Mifare card based exit reader	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	GENERAL - Credential Support	Finger and Card			
2	GENERAL - Sensor	Optical			
3	GENERAL - Type of Cards	Mifare Smart			
4	COMMUNICATION - RS 232	Yes			
5	AUDIO-VISUAL - Buzzer	Yes			
6	AUDIO-VISUAL - LED	Single LED (Tri-Color)			
7	ELECTRICAL - Input Power	12 VDC @ 0.1A			
8	ENVIRONMENTAL -	5% to 85% RH Non-			

	Humidity	Condensing			
9	ENVIRONMENTAL - Operating Temperature	0°C to + 50°C (32°F to 122°F)			
10	OTHERS - Tamper Detection	Yes			
11	OTHERS - IP 65	Verified			
12	SENSOR SPECIFICATIONS - Sensing Area	15.9mm x 17.9mm (0.62" x 0.70")			
13	SENSOR SPECIFICATIONS - Sensor Technology	Suprema Optical Sensor with STQC certified			
14	SENSOR SPECIFICATIONS - Image Size in Pixels	288 x 288			
15	SENSOR SPECIFICATIONS - Image Resolution in DPI	500			
16	SENSOR SPECIFICATIONS - Identification Time	< 1sec			
17	SENSOR SPECIFICATIONS - Equal Error rate (ERR)	< 0.1%			
18	SENSOR SPECIFICATIONS - Water-proof	IP 65, Scratch Resistance			
19	SENSOR SPECIFICATIONS - Verification Time	< 1sec (less than 3000 templates)			
20	SENSOR SPECIFICATIONS - Template Size	384 bytes			
21	SENSOR SPECIFICATIONS - Fingerprint Module	ISO 19794-2 Compliant			

Code	Item Description	Make	Approx Qty.
33146 - 040	ID Card Printer	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Print Technology	300 Dpi Colour Dye sublimation, monochrome,			

		thermal rewritable			
2	Feed System	Manual and hopper Fed			
3	Card Capacity	100 input / 30 output			
4	Printing	Single-sided, Double-sided			
5	Smart Card Encoders	Contact Chip, Mifare, DESFire and HID I Class other encoders			
6	Operating systems	Windows 7, 8, 8.1, 10 (32 bit and 64 bit), GNU/ Linux and Mac OS X 10.9.0 upwards			
7	USB Connection	USB 2.0, USB 3.0			
8	Ethernet	RJ 45 Connectivity			
9	Printing Speed	Colour - > 100 Cards Per Hour Monochrome - > 500 cards Per Hour			
10	Accept Card Dimension	ISO CR80 85.6mm x 54mm / 3.375" x 2.125" ISO CR79 83.9mm x 51mm / 3.303" x 2.051" 0.51 mm to 1.02mm / 20mil to 40 mil			
11	Weight	5.5kg / 12lbs			
12	Printer size	Height: 233 mm / 9.2" Length: 453mm / 17/8" Width: 206mm / 8.1"			
13	Environmental Operating Range	Office Environment 10o C to 30o C			
14	Supported Print	ID Cards, QR Code and Barcode Printing			
15	Supported Cards	RFID proximity , Mifare Card, HID iclass			
16	Software	ID Card design Software, software for writing information in Mifare Card, HIDiclass and necessary SDK should be provide			

		along with the printer.			
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Add on item for Group D

Code	Item Description
33146-041	Cat 6 UTP LAN Cable
33146-042	Cable laying with 20 mm Conduit Per Meter
33146-043	Electronic Magnetic Lock (for Single Door) with suitable bracket and standard accessories
33146 – 044	Electronic Magnetic Lock (for Double Door) with suitable bracket and standard accessories
33146-045	Exit Manual Switch
33146-046	Finger Print Reader Optical
33146-047	RFID Reader (proximity Card)
33146-048	RFID Reader (HID Card)
33146-049	RFID reader (Mifare Card)
33146-050	RFID Reader (HID Card) with Finger Print
33146-051	RFID reader (Mifare Card) with finger Print
33146-052	RFID reader (proximity Card) with finger Print
33146-053	USB Single Finger Print Scanner for Enrolment
33146-054	USB Proximity card Reader for Enrolment
33146-055	USB Mifare card Reader for Enrolment
33146-056	USB HID card Reader for Enrolment
33146-057	Huawei E3351 Data Card or Equivalent
33146-058	Network Switch 10/100/1000 (8 Port) (Unmanaged)
33146-059	Network Switch 10/100/1000 (16 Port) (Unmanaged)
33146-060	Network Switch 10/100/1000 (24 Port) (Unmanaged)
33146-061	Network Switch 10/100/1000 (48 Port) (Unmanaged)

33146-062	Proximity Card
33146-063	Mifare Card
33146-064	HID Card
33146-065	Normal Plain Plastic Card.
33146-066	Wall Mounting Kit for Biometric Devices.
33146-067	Printing charges per card on Proximity/Mifare/HID card for ID Card
33146-068	Color dye film for ID Card Printer-(150 Cards Double Printing)
33146-069	Monochrome dye film for ID Card Printer-(1000 Cards Single Side Printing)
33146-070	Cleaning kit for ID Card Printer

Group E- Aadhaar Enrolment and authentication Devices

Code	Item Description	Make	Approx Qty.
33146 - 071	Finger Print Enrolment Device (FED 4+4+2 Fingers)	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Scanner Resolution	500 dpi or above and 256 level grey scale, 8 bit			
2	Data and Power	USB 2.0 and above			
3	Active Platen Area	3.2 x 3.0 in. (81.28 x 76.2 mm)			
4	Time for Scanning a finger print	Maximum 4 sec for finger print			
5	Operating System	FED should be compatible with all Operating Systems (Windows and all OS) of the Desktops and all			
6	LED Indicators	Power, status and fingerprint image quality			
7	Capture Format	Single finger rolls, single finger flats, four finger slaps, two thumbs			
8	Fingerprint Image Format	Fingerprint image data shall be stored and interchanged using the data format specified in			

		ANSI/NIST-2011 "Data Format for the Interchange of Fingerprint Information", WSQ, NIST, BMP, ISO Formats. The configuration of the data shall include Transaction information, User-Defined Text and Fingerprint image data (high-resolution grayscale) or the latest. FED must have capacity to perform local search at PS level of at least 10000 persons.			
9	Image Quality	Complies with FBI's IAFIS Image Quality. Electronic images must be of sufficient forensic quality to allow for: (i) Conclusive fingerprint comparisons (identification or non-identification decision); (ii) fingerprint Classification; (iii) automatic feature detection; and (iv) Overall National Automated Fingerprint Identification System (NAFIS) search reliability.			
10	Enrolment	If the quality of acquired finger print is lesser than 60% of the desired quality, the system should reject the fingerprint. Further, system should allow for a maximum of 3 attempts to capture fingerprint, and if still the quality level is lower than the desired, the system should prompt the operator to take manual prints.			
11	Mandatory Features	(i) Capture forensic grade high resolution fingerprints of all ten fingers (ii) Use latest technologies to minimize noise and capture high quality fingerprints (iii) The device should also have default fingerprint reader functionality for querying the FED (iv) FED software for ensuring instant data transfer and interoperability (NAFIS application for ensuring Interoperability and accurate data transfer from FED station to NAFIS via state/UT headquarter) (v) Fingerprint live-scan collection to confirm to the specification sets for performance standards on Fingerprint image scanners for resolution, geometric image accuracy, modulation transfer function, signal-to-noise ratio, grayscale range, grayscale linearity, an grayscale uniformity (vi) The fingerprint ridge pattern			

		(nail to nail) shall be clearly visible (smudge-free) with differentiable ridges and valleys for the entire area around the core and delta			
12	Certifications	FBI IAFIS IQS Appendix-F, IP 54 compliance, FCC, CE, UL or equivalent certification from reputed Labs in India			
13	Compatible Software and SDK/API	SDK should work with existing applications used by the departments and also for the new applications. Bidder has to provide all necessary SDK / API / technical support for the integration of FED Device with the required software free of cost when ever required.			

Code	Item Description	Make	Approx Qty.
33146 – 072	PALM Print Device Specification (Palm and 10 Fingers)	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Image Resolution	500dpi			
2	Palm / Fingerprint Image Dimensions	Palm – 5.0" x 5.1" (127 mm x 130 mm) Rolled fingers – 1.5" x 1.6" (38 mm x 41 mm) ID Flats – 3.0" x 3.2" (76 mm x 81 mm)			
3	PC Interface	USB 2.0 or above			
4	Scanner Size	Tenderer as specify			
5	Capture Mechanism	Automatic, via foot pedal switch or capture button			
6	Palm / Fingerprint Image Format	Standard Output Formats creation of ANSI/NIST-2011 "Data Format for the Interchange of Fingerprint Information", WSQ, NIST, BMP, ISO Formats.			
7	Operating System	FED should be compatible with all Operating Systems (Windows and all OS) of the Desktops and all			

8	Minimum Hardware Requirements	Intel i3 Quad-Core Processor with 1.8 GHz, >= 4GB RAM			
9	Image Quality	FBI IAFIS IQS CJIS-RS-0010(V7) Appendix F certified			
10	Humidity	10-90% relative humidity, non-condensing			
11	Power Supply	100-240 V AC auto-adjusting; 50-60 Hz, 40 W maximum			
12	Certifications	FBI IAFIS IQS Appendix-F, IP 54 compliance, FCC, CE, UL, BIS / ISO-60950-1, RoHS			
13	Compatible Software and SDK/API	SDK should work with existing applications used by the departments and also for the new applications. Bidder has to provide all necessary SDK / API / technical support for the integration of Palm Device with the required software free of cost when ever required.			

Code	Item Description	Make	Approx Qty.
33146 - 073	Single IRIS Scanner	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Spatial Resolution	>60% @ 1.0 LP/mm			
2	Pixel Resolution	>18 pixels/mm			
3	Pixel Depth	8 bits/pixel			
4	Image Margins Left & Right	>=0.6x iris radius			
5	Top & Bottom	>=0.2x iris radius			
6	Imaging Wave Length	700-900 nm			
7	Output Image	KIND1 to KIND7 with JPEG2000 Compression			
8	Capture Mode	Auto capture with built-in quality check			
9	Capture time	< 2 sec			
10	Safety Exempt Group	As per IEC 62471:2006-07			
11	Health - Safety	RoHS Complaint			
12	ESD Air discharge	+/- 8KV,			
13	contact type	+4KV			
14	Radiated Emission	FCC Part 15B/IEC:			

		CISPR 22 CLASS B Standard			
15	Radiated Immunity	As per IEC/EN 61000-4 3:2006+A2:2010			
16	Connectivity	USB 2.0 and above			
17	Operating System	Support Windows, Android, Linux			
18	Power Consumption:	< 300 mA (Active Mode) & < 60 mA (Sleep Mode)			
19	Certification-	UIDAI Certified RD Compliant, BIS			

Code	Item Description	Make	Approx Qty.
33146 - 074	Dual IRIS Scanner	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Iris Diameter	210 mm			
2	Spatial resolution @ 4.0 Lp/mm	60 % or higher			
3	Resolution	16 Pixels/mm or Higher			
4	No. of simultaneous captured eyes	2 nos.			
5	View finder	External with Capture Distance > 750mm, Capture volume (width/height/depth) > 250x500x500 mm, Exposure Time: 15 ms			
6	Special Spread - Power in any 100nm band	35 Watt or above			
7	Imaging wavelength	700-900 nm			
8	Scan type	Progressive			
9	Image margins -Left & right	0.50 x iris diameter mm			
10	Image margins -Top & bottom	0.25 x iris diameter mm			
11	Pixel Depth	8 bits/pixel			
12	Image evaluation frame rate	>= 5 frames/sec, continuous image capture			
13	Capture mode	Dual Optical System for simultaneous capture of both iris images. Auto capture with built-in quality check (incorporates NIST quality considerations).			
14	Sensor signal to noise	<= 36 DB			

	ratio				
15	Connectivity	USB, USB-IF certified or Networked TCP/IP			
16	Operating System Compatibility	Linux /Windows (Latest)			
17	Software API	Compliant with latest UIDAI Device Capture Specifications Linux/Windows 64 bit certified by UIDAI.			
18	Certifications	STQC Certified (Certificate to be given with technical bid) , ISO/IEC 19794-6, FCC Class A, RoHS, IP54 compliant, WHQL, CE.			
19	Certifications for Eye Safety	Class 1 LED Product; IEC/EN 62471 standards			

Add on Item for Group E

Code	Item Description
33146-075	UIDAI Certified GPS Device - (Built in Roof Mount Magnet / GPS Patch Antenna.)
33146-076	LED Focus Light – 60watt, LED with 2Mtrs wire and on/off switch.
33146-077	Surge Protector Spike – 6 nos. of 5A sockets, fuse, on/off switch, Indian Style /ISO Certified
33146-078	White Screen – Size: 4 * 5 feet, non Reflecting & opaque, Mountable with stand

Category 2- Lease Cum Service Model**Group A- Android Tablet based Biometric System**

Code	Item Description	Make	Approx Qty.
33146 - LCS - 001	Android Tablet based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Type	Integrated Android Tablet based and Single Fingerprint Scanner Device			
2	Tablet	Android 6.0 operating system or above.			
3	Processor	Quad core 1.2 Ghz Processor or above			
4	RAM	2 GB or higher			
5	Internal Memory	16 GB or higher			
6	External Memory	Expandable upto 32 GB or higher			
7	USB Port	Micro USB v2.0 Port – 2 Nos (with OTG support) or One Micro USB v2.0 port and one round pin DC Jack Adaptor for charging on AC 100-240v, 50hz. Shall be provided with Inbuilt surge protection.			
8	Camera	Front facing Camera 5 MP (with flash) or better			
9	Audio	Microphone with High Amplitude Speakers.			
10	Display	7" Capacitive touch screen with minimum 1024 X 600 pixel resolution, (16 M colors) or better,			
11	GSM SIM Slot	Single GSM SIM slot			
12	Battery Backup	Minimum battery backup upto 120 minutes, with minimum 4000mAH battery or above			
13	Data Support	2G,3G & 4G data support.			
14	Wi-Fi & Lan	Wi-Fi IEEE 802.11b/g/n, LAN – 10/100/1000 Mbps			
15	Bluetooth	Bluetooth 4.0 or higher			

16	Certification / Compliance	a) CE/FCC certification for Fingerprint scanner, b) RoHS (OEM Declaration), c) BIS certification for Android tablet d) Biometric Systems scanner: STQC and UIDAI Registered Device Certification			
17	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of AEBAS with NIC software. 3) Software / Application support 3rd party payroll / HRMS / ERP and other applications.			
18	Fingerprint scanner	1) STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0/Level 1 compliance, as applicable. 3) API and SDK for Android 6.0 operating system or latest version 4) Device should be plug and play with any android (6.0 and above) tablet without need of any additional license to be deployed. 5) Bidder has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications			
19	Casing	1) Android Tablet and Single Fingerprint Scanning Device should be housed in a rugged casing. 2) The casing should be made of inflexible / metal /other tough material. 3) Casing should be durable and should be able to withstand rough daily operational usage. 4) Tablet should be vertically oriented in the casing as the attendance application to be deployed is designed to run in vertical mode only. 5) The casing should have provision to access the power on/off			

		and /or reset function of the tablet through the secured casing.			
20	Response time	<5 seconds for an authentication transaction in Client-Server environment.			
21	Operating Temperature	0 C to 50 C			
22	Warranty	3 years On site Comprehensive warranty			
23	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - LCS - 002	Android Tablet based Biometric Attendance Systems (Non Aadhaar integrated with STQC Certified Finger Print Scanner)	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Type	Integrated Android Tablet based and Single Fingerprint Scanner Device			
2	Tablet	Android 6.0 operating system or above.			
3	Processor	Quad core 1.2 Ghz Processor or above			
4	RAM	2 GB or higher			
5	Internal Memory	16 GB or higher			
6	External Memory	Expandable upto 32 GB or higher			
7	USB Port	Micro USB v2.0 Port – 2 Nos (with OTG support) or			
9	File format outputs Single and Multi-page	One Micro USB v2.0 port and one round pin DC Jack Adopter for charging on AC 100-240v, 50hz. Shall be provided with Inbuilt surge protection.			
8	Camera	Front facing Camera 5 MP (with flash) or better			
9	Audio	Microphone with High Amplitude Speakers.			

10	Display	7" Capacitive touch screen with minimum 1024 X 600 pixel resolution, (16M colors) or better,			
11	GSM SIM Slot	Single GSM SIM slot			
12	Battery Backup	Minimum battery backup upto 120 minutes, with minimum 4000mAH battery or above			
13	Data Support	2G,3G & 4G data support.			
14	Wi-Fi & Lan	Wi-Fi IEEE 802.11b/g/n, LAN – 10/100/1000 Mbps			
15	Bluetooth	Bluetooth 4.0 or higher			
16	Certification / Compliance	a) CE/FCC certification for Fingerprint scanner, b) RoHS (OEM Declaration), c) BIS certification for Android tablet d) Biometric Systems scanner: STQC and UIDAI Registered Device Certification			
17	Application Compatibility	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated) / database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement. 2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software 3) software / Application support 3rd party payroll / HRMS / ERP and other applications. 4) This device should also support Aadhaar based Attendance System Provided by NIC			
18	Fingerprint scanner	1) STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time.			

		The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0/Level 1 compliance, as applicable. 3) API and SDK for Android 6.0 operating system or latest version 4) Device should be plug and play with any android (6.0 and above) tablet without need of any additional license to be deployed. 5) Bidder has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications			
19	Casing	1) Android Tablet and Single Fingerprint Scanning Device should be housed in a rugged casing. 2) The casing should be made of inflexible / metal /other tough material. 3) Casing should be durable and should be able to withstand rough daily operational usage. 4) Tablet should be vertically oriented in the casing as the attendance application to be deployed is designed to run in vertical mode only. 5) The casing should have provision to access the power on/off and /or reset function of the tablet through the secured casing.			
20	Response time	<5 seconds for an authentication transaction in Client-Server environment.			
21	Operating Temperature	0 C to 50 C			
22	Warranty	3 years On site Comprehensive warranty			
23	Accessories	Power Adapter, USB cable			

Group B: Linux based Biometric Attendance System- Non Aadhaar

Code	Item Description	Make	Approx Qty.
33146- LCS – 003 (100 Users)	Linux based Biometric Systems (Non Aadhaar) – 100 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl. No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	100 or above			
2	Card Storage (RFID)	100 or above			
3	Transaction storage	1,00,000			
4	Card reader	Inbuilt proximity card reader			
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
6	FAR	<=0.0001%			
7	FRR	<=1%			
8	Identification speed	<1 sec			
9	Algorithm Ver	10			
10	Display	2.8" Color TFT or above			
11	Keypad	Yes			
12	LED Indicator	Green/Red or Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB			
15	Power Supply	DC 12V: 1.5Amp			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			
18	Battery	Minimum battery backup upto 2 hours,			

		with minimum 1000 mAH battery or above			
19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>			
20	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146- LCS - 004 (500 Users)	Linux based Biometric Systems (Non Aadhaar) - 500 User without Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl. No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	500 or above			
2	Card Storage (RFID)	500 or above			
3	Transaction storage	50000			

4	Card reader	Card Reader is Optional			
5	Fingerprint sensor(Biometric)	500 DPI Optical sensor			
6	FAR	<=0.0001%			
7	FRR	<=1%			
8	Identification speed	<1 sec			
9	Algorithm Ver	10			
10	Display	2.8" Color TFT or above			
11	Keypad	Yes- 4 x 4 Keypad			
12	LED Indicator	Green/Red or Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB-host			
15	Power Supply	DC 5V: 0.8 Amps			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			
18	Battery	Battery is Optional			
19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated) / database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2)Bidder should install Biometric Attendance System (BAS) Software at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of BAS with the</p>			

		required software.			
20	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146- LCS-005 (500 Users)	Linux based Biometric Systems (Non Aadhaar) - 500 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	500 or above			
2	Card Storage (RFID)	500 or above			
3	Transaction storage	1,00,000			
4	Card reader	Inbuilt proximity card reader			
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
6	FAR	<=0.0001%			
7	FRR	<=1%			
8	Identification speed	<1 sec			
9	Algorithm Ver	10			
10	Display	2.8" Color TFT or above			
11	Keypad	Yes			
12	LED Indicator	Green/Red or			

		Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB			
15	Power Supply	DC 12V: 1.5Amp			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above			
19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>			
20	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - LCS - 006 (1000	Linux based Biometric Systems (Non Aadhaar) - 1000	Any Reputed make	1 No.

Users)	User with Battery backup and Proximity card reader		
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Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	1000 or above			
2	Card Storage (RFID)	1000 or above			
3	Transaction storage	1,00,000			
4	Card reader	Inbuilt proximity card reader			
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
6	FAR	<=0.0001%			
7	FRR	<=1%			
8	Identification speed	<1 sec			
9	Algorithm Ver	10			
10	Display	2.8" Color TFT or above			
11	Keypad	Yes			
12	LED Indicator	Green/Red or Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB			
15	Power Supply	DC 12V: 1.5Amp			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above			
19	Compatible Software and SDK	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be			

		<p>installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>			
20	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - LCS - 007	Linux based Biometric Systems (Non Aadhaar) - 2000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	2000 or above			
2	Card Storage (RFID)	2000 or above			
3	Transaction storage	1,00,000			
4	Card reader	Inbuilt proximity card reader			
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
6	FAR	<=0.0001%			
7	FRR	<=1%			
8	Identification speed	<1 sec			

9	Algorithm Ver	10			
10	Display	2.8" Color TFT or above			
11	Keypad	Yes			
12	LED Indicator	Green/Red or Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB			
15	Power Supply	DC 12V: 1.5Amp			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above			
19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>			
20	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
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33146 - LCS - 008	Linux based Biometric Systems (Non Aadhaar) - 3000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.
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Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	3000 or above			
2	Card Storage (RFID)	3000 or above			
3	Transaction storage	1,00,000			
4	Card reader	Inbuilt proximity card reader			
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
6	FAR	<=0.0001%			
7	FRR	<=1%			
8	Identification speed	<1 sec			
9	Algorithm Ver	10			
10	Display	2.8" Color TFT or above			
11	Keypad	Yes			
12	LED Indicator	Green/Red or Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB			
15	Power Supply	DC 12V: 1.5Amp			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above			

19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>			
20	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - LCS - 009	Linux based Biometric Systems (Non Aadhaar) - 5000 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	5000 or above			

2	Card Storage (RFID)	5000 or above			
3	Transaction storage	1,00,000			
4	Card reader	Inbuilt proximity card reader			
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
6	FAR	$\leq 0.0001\%$			
7	FRR	$\leq 1\%$			
8	Identification speed	< 1 sec			
9	Algorithm Ver	10			
10	Display	2.8" Color TFT or above			
11	Keypad	Yes			
12	LED Indicator	Green/Red or Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB			
15	Power Supply	DC 12V: 1.5Amp			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			
18	Battery	Minimum battery backup upto 2 hours, with minimum 1000 mAH battery or above			
19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric</p>			

		Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.			
20	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - LCS - 010	Linux based Biometric Systems (Non Aadhaar) - 9600 User with Battery backup and Proximity card reader	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Fingerprints templates Storage capacity	9600 or above			
2	Card Storage (RFID)	9600 or above			
3	Transaction storage	2,00,000 or above			
4	Card reader	Inbuilt proximity card reader			
5	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
6	FAR	<=0.0001%			
7	FRR	<=1%			
8	Identification speed	<0.5 sec			
9	Algorithm Ver	10			
10	Display	3" Color TFT or above			

11	Keypad	Yes			
12	LED Indicator	Green/Red or Onscreen Status			
13	Schedule Bell/Speaker	Mini Speaker			
14	Communication	TCP/IP, USB			
15	Power Supply	DC 12V: 1.5Amp			
16	Operating Temperature	0°C to 45°C			
17	Operating Humidity	20% -80%			
18	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above			
19	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the customer requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>			
20	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - LCS - 011	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (100 Users)	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Face capacity	100(1:N), 100(1:1) or above			
2	Fingerprints templates	4000			
3	ID Card Storage	10000			
4	Transaction storage	1,00,000			
5	Card reader	Inbuilt proximity card reader			
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
7	Push Data	Yes			
8	Communication	TCP/IP, RS232/485, USB Host			
9	Display	4.3-Inch Touch Screen			
10	FAR	<=0.0001%			
11	FRR	<=1%			
12	Keypad	Yes			
13	Schedule Bell/Speaker	Mini Speaker			
14	Identification speed	<0.5 sec			
15	Wiegand Signal	Output			
16	Optional Functions	MiFare Card, Wi-Fi, 3G			
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above			
18	Power Supply	12V: 3A			
19	Temperature	0 °C- 45 °C			
20	Humidity	20%-80%			

21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required softw are.</p>			
22	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - LCS - 012	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (500 Users)	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Face capacity	500(1:N), 500(1:1) or above			
2	Fingerprints	4000			

	templates				
3	ID Card Storage	10000			
4	Transaction storage	1,00,000			
5	Card reader	Inbuilt proximity card reader			
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
7	Push Data	Yes			
8	Communication	TCP/IP, RS232/485, USB Host			
9	Display	4.3-Inch Touch Screen			
10	FAR	<=0.0001%			
11	FRR	<=1%			
12	Keypad	Yes			
13	Schedule Bell/Speaker	Mini Speaker			
14	Identification speed	<0.5 sec			
15	Wiegand Signal	Output			
16	Optional Functions	MiFare Card, Wi-Fi, 3G			
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above			
18	Power Supply	12V: 3A			
19	Temperature	0 °C- 45 °C			
20	Humidity	20%-80%			
21	Compatible Software and SDK	1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement. 2) Bidder should			

		install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required softw are.			
22	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - LCS - 013	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (1000 Users)	Any Reputed make	1 No.

SL.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Face capacity	1000(1:N), 1000(1:1) or above			
2	Fingerprints templates	4000			
3	ID Card Storage	10000			
4	Transaction storage	1,00,000			
5	Card reader	Inbuilt proximity card reader			
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
7	Push Data	Yes			
8	Communication	TCP/IP, RS232/485, USB Host			
9	Display	4.3-Inch Touch Screen			

10	FAR	<=0.0001%			
11	FRR	<=1%			
12	Keypad	Yes			
13	Schedule Bell/Speaker	Mini Speaker			
14	Identification speed	<0.5 sec			
15	Wiegand Signal	Output			
16	Optional Functions	MiFare Card, Wi-Fi, 3G			
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above			
18	Power Supply	12V: 3A			
19	Temperature	0 °C- 45 °C			
20	Humidity	20%-80%			
21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required softw are.</p>			
22	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - LCS - 014	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (2000 Users)	Any Reputed make	1 No.

Sl.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Face capacity	2000(1:N), 2000(1:1) or above			
2	Fingerprints templates	4000			
3	ID Card Storage	10000			
4	Transaction storage	1,00,000			
5	Card reader	Inbuilt proximity card reader			
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
7	Push Data	Yes			
8	Communication	TCP/IP, RS232/485, USB Host			
9	Display	4.3-Inch Touch Screen			
10	FAR	<=0.0001%			
11	FRR	<=1%			
12	Keypad	Yes			
13	Schedule Bell/Speaker	Mini Speaker			
14	Identification speed	<0.5 sec			
15	Wiegand Signal	Output			
16	Optional Functions	MiFare Card, Wi-Fi, 3G			
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above			
18	Power Supply	12V: 3A			
19	Temperature	0 °C- 45 °C			
20	Humidity	20%-80%			

21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.</p>			
22	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - LCS - 015	Linux based Biometric Attendance Systems (Non Aadhaar) with Face Recognition (5000 Users)	Any Reputed make	1 No.

SL.No	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Face capacity	5000(1:N), 5000(1:1) or above			
2	Fingerprints templates	4000			
3	ID Card Storage	10000			

4	Transaction storage	1,00,000			
5	Card reader	Inbuilt proximity card reader			
6	Fingerprint sensor(Biometric Systems)	500 DPI Optical sensor			
7	Push Data	Yes			
8	Communication	TCP/IP, RS232/485, USB Host			
9	Display	4.3-Inch Touch Screen			
10	FAR	<=0.0001%			
11	FRR	<=1%			
12	Keypad	Yes			
13	Schedule Bell/Speaker	Mini Speaker			
14	Identification speed	<0.5 sec			
15	Wiegand Signal	Output			
16	Optional Functions	MiFare Card, Wi-Fi, 3G			
17	Battery Backup	Minimum battery backup upto 4 hours, with minimum 2000 mAH battery or above			
18	Power Supply	12V: 3A			
19	Temperature	0 °C- 45 °C			
20	Humidity	20%-80%			
21	Compatible Software and SDK	<p>1) Bidder should provide the necessary web based attendance application / Cloud based / Desktop based (integrated)/ database software, which should be installed in a physical / virtual server available at customer premises as per the Purchaser requirement.</p> <p>2) Bidder should install Biometric</p>			

		Systems Attendance System (BAS) Software at Bidder level before delivery. Bidder has to provide all necessary technical support for integration of BAS with the required software.			
22	Accessories	Power Adapter, USB cable			

Group C- Linux based Biometric Attendance System - Aadhaar

Code	Item Description	Make	Approx Qty.
33146 - LCS - 016	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 100 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD			
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above			
3	Memory	1GB RAM or above, 8GB Flash or above			
4	Operating System	LINUX OS (3.0.35) or above			
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9);			

		Function keys (F1-F10)			
6	Interface s/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1			
7	Speaker	1W Audio Speaker supporting MP3 and WAV file			
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications			
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.			
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n			
11	GPS	Optional			
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A			
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above			
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.			
15	Operating Temperature	0°C to 55°C			
16	Safety	CE certified			
17	Drop Test	3-4 Feet Drop test			
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE			
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)			
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device			

	bility	should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.			
21	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - LCS - 017	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 500 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications			
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD			
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above			
3	Memory	1GB RAM or above, 8GB Flash or above			
4	Operating System	LINUX OS (3.0.35) or above			
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)			
6	Interfaces/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1			
7	Speaker	1W Audio Speaker supporting MP3 and WAV file			
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to			

		provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications			
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.			
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n			
11	GPS	Optional			
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A			
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above			
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.			
15	Operating Temperature	0°C to 55°C			
16	Safety	CE certified			
17	Drop Test	3-4 Feet Drop test			
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE			
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)			
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.			
21	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - LCS - 018	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 1000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD			
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above			
3	Memory	1GB RAM or above, 8GB Flash or above			
4	Operating System	LINUX OS (3.0.35) or above			
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)			
6	Interfaces/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1			
7	Speaker	1W Audio Speaker supporting MP3 and WAV file			
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications			
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.			
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n			
11	GPS	Optional			
12	Power	AC input 10-240V,50/60Hz,DC			

	Adaptor	output 9V.2.2A			
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above			
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.			
15	Operating Temperature	0°C to 55°C			
16	Safety	CE certified			
17	Drop Test	3-4 Feet Drop test			
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE			
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)			
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.			
21	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - LCS - 019	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 2000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
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1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD			
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above			
3	Memory	1GB RAM or above, 8GB Flash or above			
4	Operating System	LINUX OS (3.0.35) or above			
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)			
6	Interfaces/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device - 1 c) USB Host-1			
7	Speaker	1W Audio Speaker supporting MP3 and WAV file			
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications			
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.			
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n			
11	GPS	Optional			
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A			
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh			

		battery or above			
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.			
15	Operating Temperature	0°C to 55°C			
16	Safety	CE certified			
17	Drop Test	3-4 Feet Drop test			
18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE			
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)			
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.			
21	Accessories	Power Adapter, USB cable			

Code	Item Description	Make	Approx Qty.
33146 - LCS - 020	Linux based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner- 5000 Users	Any Reputed make	1 No.

Sl. No.	Parameter	Tender Specifications	As per Brochure	Bidder's offer	Bidders compliance Yes/ No
1	Display	3.5 Inch Touch Screen TFT Color LCD with 320x240 pixels Virtual Keypad on LCD			
2	Micro Processor	ARM Cortex A8 @ 1 Ghz or above			

3	Memory	1GB RAM or above, 8GB Flash or above			
4	Operating System	LINUX OS (3.0.35) or above			
5	Keyboard	Physical integrated QWERTY Keypad; Alpha Numeric (A-Z;0-9); Function keys (F1-F10)			
6	Interfaces/Connectors	a) 1x RS-232 (RJ45 connector for console/Serial port) b) USB Device -1 c) USB Host-1			
7	Speaker	1W Audio Speaker supporting MP3 and WAV file			
8	Finger Print Scanner	1) Inbuilt Finger Print Scanner , STQC Certified single fingerprint Bio-Metric 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) 2) The device should meet the UIDAI guidelines from time to time. The bidder has to submit a letter from OEM on OEM's letter head stating that FP Scanner is approved by UIDAI for Level 0 compliance, as applicable. 3) API and SDK if required 4) Vendor has to provide all necessary technical support for integration of their device drivers with attendance software and associated UIDAI applications			
9	Contact less card reader	ISO1443, NFC Inbuilt proximity card/Mifare. Supports read and write.			
10	Communication Module	A) LAN 10/100/1000 BASE-T (Ethernet) B) DUAL SIM CARD with 3G & 4G data support. C) Wi-Fi IEEE 802.11b/g/n			
11	GPS	Optional			
12	Power Adaptor	AC input 10-240V,50/60Hz,DC output 9V.2.2A			
13	Battery	Minimum battery backup upto 4 hours, with minimum 2000 mAh battery or above			
14	Enclosure	Rugged casing made up of ABS+PC Complying to IP51 Standards and wall mount facility to be provided.			
15	Operating Temperature	0°C to 55°C			
16	Safety	CE certified			
17	Drop Test	3-4 Feet Drop test			

18	Certifications	1) BIS 2) RoHS 3) IP 51 4) STQC certified 5) CE			
19	SD Card Provision	Provision Micro SD Card Reader (upto 32GB)			
20	Application Compatibility	1) The device should be compatible with NIC's AEBAS attendance software application. The Device should be Listed in www.attendance.gov.in 2) Bidder should install Biometric Attendance System (BAS) Software (available for free download from NIC) at Vendor level before delivery. Vendor has to provide all necessary technical support for integration of AEBAS with NIC software.			
21	Accessories	Power Adapter, USB cable			

A 1.6 Declaration

I/We agree that the offer shall remain open for acceptance for a minimum period as stipulated in the Tender from the date of opening of the tender and thereafter until it is withdrawn by us by notice in writing duly addressed to the authority of opening the tender and sent by registered post with acknowledgement due or otherwise delivered at the office of the authority. The EMD amount shall not bear any interest and shall be liable to be forfeited to ELCOT should I/We fail to abide by the stipulations to keep the offer open for a period mentioned above or fail to sign and complete the contract document as required by ELCOT and furnish the Security Deposit as specified in the terms and conditions of the contract. The EMD amount may be adjusted towards SD or refunded to me/us unless the same or any part thereof has been forfeited as aforesaid.

I/We agree to adhere with the schedule of implementation and deliver the items as specified in the tender.

I/We declare that the Price bid has been submitted without any conditions and strictly as per the Terms and Conditions of the tender document and I/We am/are aware that the Price bid is liable to be rejected if it contains any other conditions.

I/We declare that the information furnished in the tender is true to the best of my/our knowledge. If any false/fictitious information is found I/We agree to the rejection of the bids and consequence action.

Annexure-2 - PRICE BID – Biometric Systems with 3 years Warranty for Category 1- Warranty and CAMC Method

RATE CONTRACT REF NO: ELCOT/Proc/OT /33146/Biometric Systems/RC/2018-19

S. N	Product Code	Description	Initial approx Qty & the future on RC	Unit Price for destination(Installation ,Packing, Forwarding and Insurance) with out TAXES	Installation & Commissioning charges & other charges if any (in Rs) per unit	Total Unit Price without GST (Rs.) (5)+(6)	GST in % for Col no. 5	GST Value in Rs.	Total Unit Price with GST (Rs.) (7)+(9)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Group A								
1	33146-001	Android Tablet based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner							
2	33146-002	Android Tablet based							

		Biometric Attendance Systems (Non Aadhaar integrated with STQC Certified Finger Print Scanner)							
	Add on Item								
3	33146-003	Metal Enclosure with Lock and key (Tablet Based Biometric Attendance System)							
	Group B- (Non Aadhaar)								
4	33146-004	Linux Based Bio Metric System (Non Aadhaar) - 100 User with Battery Backup and Proximity Card Reader							
5	33146-005	Linux Based Biometric Attendance Systems (500 Users) without Battery and Proximity Card Reader							
6	33146-006	Linux based Biometric Attendance Systems (500 Users) with Battery Backup							

		and Proximity Card Reader							
7	33146-007	Linux Based Biometric Attendance Systems (1000 Users) with Battery Backup and Proximity Card Reader							
8	33146-008	Linux Based Biometric Attendance Systems (2000 Users) with Battery Backup and Proximity Card Reader							
9	33146-009	Linux Based Biometric Attendance Systems (3000 Users) with Battery Backup and Proximity Card Reader							
10	33146-010	Linux Based Biometric Attendance Systems (5000 Users) with Battery Backup and Proximity Card Reader							
11	33146-011	Linux Based Biometric Attendance Systems (10000 Users) with Battery Backup and Proximity Card Reader							
12	33146-012	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 100 User							

13	33146-013	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 500 User							
14	33146-014	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 1000 User							
15	33146-015	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 2000 User							
16	33146-016	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 5000 User							
17	33146-017	Linux Based Fingerprint and card Based time - Attendance and Door Access Device with POE - 100 User							
18	33146-018	Linux Based Fingerprint and card Based time - Attendance and Door Access Device with POE - 500 User							
19	33146-019	Linux Based Fingerprint and							

		card Based time - Attendance and Door Access Device with POE - 1000 User							
20	33146-020	Linux Based Fingerprint and card Based time - Attendance and Door Access Device with POE - 2000 User							
21	33146-021	Linux Based Fingerprint and card Based time - Attendance and Door Access Device with POE - 5000 User							
	Group C								
22	33146-022	Linux Based Bio Metric Attendance System integrated with STQC Finger Print Scanner (Aadhaar Enabled) - 100 User							
23	33146-023	Linux Based Bio Metric Attendance System integrated with STQC Finger Print Scanner (Aadhaar Enabled) - 500 User							
24	33146-024	Linux Based Bio Metric Attendance System integrated with STQC Finger							

		Print Scanner (Aadhaar Enabled) - 1000 User							
25	33146-025	Linux Based Bio Metric Attendance System integrated with STQC Finger Print Scanner (Aadhaar Enabled) - 2000 User							
26	33146-026	Linux Based Bio Metric Attendance System integrated with STQC Finger Print Scanner (Aadhaar Enabled) - 5000 User							
	Add on Items								
27	33146-027	Wifi Facility for Linux Based Bio Metric Attendance System							
28	33146-028	GPRS for Linux Based Bio Metric Attendance System							
29	33146-029	Metal Enclosure with Lock and key (Linux Based Biometric Attendance System)							
	In Lieu Items								
30	33146-030	HID Card Reader in lieu of							

		Proximity card reader							
31	33146-031	Mifare Card reader in lieu of Proximity Card Reader							
	Group D								
32	33146-032	Multi Door Access Controller - Finger + Card (up to 4 Doors)							
33	33146-033	Multi Door Access Controller - USB Single Finger Print Scanner for Enrolment							
34	33146-034	Multi Door Access Controller - USB Card reader for Enrolment							
35	33146-035	Finger Print Reader for Entry and Exit							
36	33146-036	Card Reader for Entry and Exit							
37	33146-037	Mifare Smart Card Based Door Controller for Access Control and Time Attendance (for Enrolment)							
38	33146-038	Optical Finger Print and Card Based Door Controller							

		for Access Control and time Attendance with STQC Certified							
39	33146-039	Fingerprint and Mifare card based exit reader							
40	33146 – 040	ID Card Printer							
	Add on Item								
41	33146-041	Cat 6 UTP LAN Cable							
42	33146-042	Cable laying with 20 mm Conduit Per Meter							
43	33146-043	Electronic Magnetic Lock (for Single Door) with suitable bracket and standard accessories							
44	33146 – 044	Electronic Magnetic Lock (for Double Door) with suitable bracket and standard accessories							
45	33146-045	Exit Manual Switch							
46	33146-046	Finger Print Reader Optical							
47	33146-047	RFID Reader (proximity Card)							

48	33146-048	RFID Reader (HID Card)							
49	33146-049	RFID reader (Mifare Card)							
50	33146-050	RFID Reader (HID Card) with Finger Print							
51	33146-051	RFID reader (Mifare Card) with finger Print							
52	33146-052	RFID reader (proximity Card) with finger Print							
53	33146-053	USB Single Finger Print Scanner for Enrolment							
54	33146-054	USB Proximity card Reader for Enrolment							
55	33146-055	USB Mifare card Reader for Enrolment							
56	33146-056	USB HID card Reader for Enrolment							
57	33146-057	Huawei E3351 Data Card or Equivalent							
58	33146-058	Network Switch 10/100/1000 (8 Port) (Unmanaged)							
59	33146-059	Network Switch 10/100/1000 (16 Port) (Unmanaged)							

60	33146-060	Network Switch 10/100/1000 (24 Port) (Unmanaged)							
61	33146-061	Network Switch 10/100/1000 (48 Port) (Unmanaged)							
62	33146-062	Proximity Card							
63	33146-063	Mifare Card							
64	33146-064	HID Card							
65	33146-065	Normal Plain Plastic Card.							
66	33146-066	Wall Mounting Kit for Biometric Devices.							
67	33146-067	Printing charges per card on Proximity/Mifare/HID card for ID Card							
68	33146-068	Color dye film for ID Card Printer-(150 Cards Double Printing)							
69	33146-069	Monochrome dye film for ID Card Printer-(1000 Cards Single Side Printing)							
70	33146-070	Cleaning kit for ID Card Printer							
	Group E								

71	33146-071	Finger Print Enrolment Device (FED 4+4+2 Fingers)							
72	33146-072	PALM Print Device Specification (Palm and 10 Fingers)							
73	33146-073	Single IRIS Scanner							
74	33146-074	Dual IRIS Scanner							
	Add on items								
75	33146-075	UIDAI Certified GPS Device - (Built in Roof Mount Magnet / GPS Patch Antenna.)							
76	33146-076	LED Focus Light – 60watt, LED with 2Mtrs wire and on/off switch.							
77	33146-077	Surge Protector Spike – 6 nos. of 5A sockets, fuse, on/off switch, Indian Style /ISO Certified							
78	33146-078	White Screen – Size: 4 * 5 feet, non Reflecting & opaque, Mountable with stand							

	Total								
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Note:

- 1) Partial bidding is permitted as group wise i.e the bidder should quote for all items in each group. However the bidder may quote for all the groups or any one group or multiple group of items.
- 2) Warranty: Three Years
- 3) Rate Contract: 1 year from the date of issue of 1st Purchase Order or from the date of signing the Agreement with ELCOT, Whichever is later.

**Annexure-3 - PRICE BID – Category 2- Biometric Systems under Lease Cum Service method (LCS)
(3 years)**

RATE CONTRACT REF NO: ELCOT/Proc/OT /33146/Biometric Systems/RC/2018-19

S.N	Product Code	Description	Initial approx Qty & the future on RC	Unit Price for destination(Packing, Forwarding and Insurance) with out TAXES	Installation & Commissioning charges & other charges if any (in Rs) per unit	Total Unit Price without GST (Rs.) (5)+(6)	GST in % for Col no. 5	GST Value in Rs.	Total Unit Price with GST (Rs.) (7)+(9)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Group A								
1	33146-LCS-001	Android Tablet based Aadhaar Enabled Biometric Attendance Systems integrated with STQC Certified Finger Print Scanner							

2	33146-LCS-002	Android Tablet based Biometric Attendance Systems (Non Aadhaar integrated with STQC Certified Finger Print Scanner)							
	Group B								
3	33146-LCS-003	Linux Based Bio Metric System (Non Aadhaar) - 100 User with Battery Backup and Proximity Card Reader							
4	33146-LCS-004	Linux Based Biometric Attendance Systems (500 Users) without Battery and Proximity Card Reader							
5	33146-LCS-005	Linux based Biometric Attendance Systems (500 Users) with Battery Backup and Proximity Card Reader							
6	33146-LCS-006	Linux Based Biometric Attendance Systems (1000 Users) with Battery Backup and Proximity Card Reader							
7	33146-LCS-007	Linux Based Biometric							

		Attendance Systems (2000 Users) with Battery Backup and Proximity Card Reader							
8	33146-LCS-008	Linux Based Biometric Attendance Systems (3000 Users) with Battery Backup and Proximity Card Reader							
9	33146-LCS-009	Linux Based Biometric Attendance Systems (5000 Users) with Battery Backup and Proximity Card Reader							
10	33146-LCS-010	Linux Based Biometric Attendance Systems (10000 Users) with Battery Backup and Proximity Card Reader							
11	33146-LCS-011	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 100 User							
12	33146-LCS-012	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 500 User							
13	33146-LCS-013	Linux Based Bio Metric System (Non Aadhaar) -							

		with Face Recognition 1000 User							
14	33146-LCS-014	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 2000 User							
15	33146-LCS-015	Linux Based Bio Metric System (Non Aadhaar) - with Face Recognition 5000 User							
	Group C								
16	33146-LCS-016	Linux Based Bio Metric Attendance System integrated with STQC Finger Print Scanner (Aadhaar Enabled) - 100 User							
17	33146-LCS-017	Linux Based Biometric Attendance Systems (500 Users)							
18	33146-LCS-018	Linux Based Biometric Attendance Systems (1000 Users)							
19	33146-LCS-019	Linux Based Biometric Attendance Systems (2000 Users)							

20	33146-LCS-020	Linux Based Biometric Attendance Systems (5000 Users)							
	Total								

Note:

1) The Bidder shall submit the offer by filling up all the columns against each item/each category. Bidders are not allowed to quote for a few products from the above list. Partial quote is not allowed.

2) Warranty: Three Years

3) Rate Contract: 1 year from the date of issue of 1st Purchase Order or from the date of signing the Agreement with ELCOT, Whichever is later.

Annexure – 4 – Category 1- Comprehensive Warranty Cost for 4th and 5th year for Biometric Systems under Warranty and CAMC Method(WCS)

"RATE CONTRACT REF NO : ELCOT/PROC/OT/33146/ Biometric Systems/RC/2018-19

- a) Comprehensive warranty in percentage for the 4th year =% +.....%GST
- b) Comprehensive warranty in percentage for the 5th year =..... % +% GST

- c) Comprehensive warranty cost for the 4th year =% * (basic cost of the item/s) +%GST
- d) Comprehensive warranty cost for the 5th year =% * (basic cost of the item/s) +%GST

Note:

- a) Comprehensive Warranty for 4th and 5th Year should be quoted without fail, failing which the Price Bid shall not be considered for further process. Comprehensive warranty cost means cost toward all the spares, service charge and all Taxes, excluding consumable cost if any.
- b) Even though the extended warranty cost is excluded in the price bid evaluation, the successful bidder should agree to match the lowest Comprehensive warranty cost offered by the other successful bidders. The Extended warranty rate should not exceed 10% of unit rate as per the G.O.