Surat Smart City Development Limited

ADDENDUM AND CORRIGENDUM - II

RFP No.: SSCDL-BiometricAttendance-01-2017

The Bidders are requested to take note of the following changes made in the RFP document, which are to be taken in to account while submitting the RFP. They shall be presumed to have done so and submitted the RFP accordingly.

- This Addendum and Corrigendum shall be the part of the RFP documents.
- Content specified in this Addendum and Corrigendum supersede relevant content to that effect as provided in the original RFP documents. All other specifications, terms and conditions of the original RFP document shall remain unchanged.
- Bidders shall read and consider following points, which shall be a part of the RFP documents.

Highlighted Colour	What does it indicate?
No highlight	Indicates content as per original RFP document
Highlighted in Green	Indicates amendment as per this Addendum and Corrigendum-II

Sr. No.	Tender Reference	Existing Clause	Amended / New Clause
1.	Section 6 Page No. 29	**6.6 Bid Fee & Earnest Money Deposit (EMD)** • The bidder should pay non-refundable **Bid Fee of Rs. 4248/-** [Rs. 3600 + 18% GST] (Rupees Four Hundred & Forty Eight Only) and **EMD of Rs. 1,50,000/-** (One Lakh Fifty Thousand Only) by separate Demand Draft or Banker's Cheque of any scheduled/nationalized bank payable at Surat in favour of **"Surat Smart City Development Limited"**. • Failure to submit Bid Fee and EMD as required shall lead to the bid being rejected summarily. • Any bid not accompanied with valid Earnest Money Deposit in the acceptable amount, form and validity period will be summarily rejected by the Authority as being non-responsive and bids of such Bidder shall not be evaluated further. • No interest will be payable by the Authority on the Earnest Money Deposit. • The EMD of unsuccessful Bidders will be returned by the Authority, without any Interest, as promptly as possible on acceptance of the Proposal of the Selected Bidder or when the Authority cancels the Bidding Process. • The Selected Bidder's EMD will be returned, without any interest, upon the Selected Bidder signing the Agreement and furnishing the Security Deposit in accordance with the provision thereof. • The EMD shall be forfeited and appropriated by the Authority as damages without prejudice to any other right or remedy that may be available to the Authority hereunder or otherwise, under the following conditions:	**6.6 Bid Fee & Earnest Money Deposit (EMD)** • The bidder should pay non-refundable **Bid Fee of Rs. 4032/-** [Rs. 3600 + 12% GST] (Rupees Four Hundred & Thirty Two Only) and **EMD of Rs. 1,50,000/-** (One Lakh Fifty Thousand Only) by separate Demand Draft or Banker's Cheque of any scheduled/nationalized bank payable at Surat in favour of **"Surat Smart City Development Limited"**. • Failure to submit Bid Fee and EMD as required shall lead to the bid being rejected summarily. • Any bid not accompanied with valid Earnest Money Deposit in the acceptable amount, form and validity period will be summarily rejected by the Authority as being non-responsive and bids of such Bidder shall not be evaluated further. • No interest will be payable by the Authority on the Earnest Money Deposit. • The EMD of unsuccessful Bidders will be returned by the Authority, without any Interest, as promptly as possible on acceptance of the Proposal of the Selected Bidder or when the Authority cancels the Bidding Process. • The Selected Bidder's EMD will be returned, without any interest, upon the Selected Bidder signing the Agreement and furnishing the Security Deposit in accordance with the provision thereof. • The EMD shall be forfeited and appropriated by the Authority as damages without prejudice to any other right or remedy that may be available to the Authority hereunder or otherwise, under the following conditions:

Sign & Stamp

		- If a Bidder submits a non-responsive Proposal; - If a Bidder engages in a corrupt practice, fraudulent practice, coercive practice, undesirable practice, or restrictive practice; - If a Bidder withdraws its Proposal during the Proposal Validity Period as specified in this RFP and as extended by mutual consent of the respective Bidder(s) and the Authority; - In the case of Successful Bidder, if it fails within the specified time limit – - to sign and return the duplicate copy of LOA - to sign the Agreement within the time period specified by the Authority. - to furnish the Security Deposit along with the signed copy of LOA; or - In case the Successful Bidder, having signed the Contract, commits any breach thereof prior to furnishing the Security Deposit.	- If a Bidder submits a non-responsive Proposal; - If a Bidder engages in a corrupt practice, fraudulent practice, coercive practice, undesirable practice, or restrictive practice; - If a Bidder withdraws its Proposal during the Proposal Validity Period as specified in this RFP and as extended by mutual consent of the respective Bidder(s) and the Authority; - In the case of Successful Bidder, if it fails within the specified time limit – - to sign and return the duplicate copy of LOA - to sign the Agreement within the time period specified by the Authority. - to furnish the Security Deposit along with the signed copy of LOA; or - In case the Successful Bidder, having signed the Contract, commits any breach thereof prior to furnishing the Security Deposit.
2.	Section 5 Page No. 25	**5. ELIGIBILITY CRITERIA** The bidder interested in being considered for "Bid for Implementation of Smart Biometric Attendance System at various offices of Surat Municipal Corporation" must meet the following minimum eligibility criteria: <table><tr><th>#</th><th>Pre-Qualification Criteria</th><th>Proof Document Required</th></tr><tr><td>5.1</td><td>The Bidder should be manufacturer/OEM of the Biometric Device. In the case the bidder is not manufacturer, the bidder should be duly authorized by the manufacturer/OEM to supply the goods by submitting</td><td>Manufacturer's Authorization Form document to be submitted for Biometric Device. (Form –1.7:</td></tr></table>	**5. ELIGIBILITY CRITERIA** The bidder interested in being considered for "Bid for Implementation of Smart Biometric Attendance System at various offices of Surat Municipal Corporation" must meet the following minimum eligibility criteria: <table><tr><th>#</th><th>Pre-Qualification Criteria</th><th>Proof Document Required</th></tr><tr><td>5.1</td><td>The Bidder should be manufacturer/OEM of the Biometric Device. In the case the bidder is not manufacturer, the bidder should be duly authorized by the manufacturer/OEM to supply the goods by submitting</td><td>Manufacturer's Authorization Form document to be submitted for Biometric Device. (Form –1.7:</td></tr></table>

			Manufacturer's Authorization as per "Form –1.7: Authorisation letter from OEM".	Authorisation letter from OEM)		Manufacturer's Authorization as per "Form –1.7: Authorisation letter from OEM".	Authorisation letter from OEM)
		5.2	The bidder should have an average annual turnover of Rs. 50 lakhs in each of the last three financial years i.e. 2014-15, 2015-16 and 2016-17. The copies of Audited Annual Accounts for last three years to be submitted along with the bid [Financial Years of 2014-15, 2015-16 and 2016-17]. If 2016-17 Financial Statements of any bidder is unaudited then the Audited Financial Statements of 2013-14 along with an undertaking letter from the bidder that the 2016-17 Statements are not audited is to be submitted.	Financial Capability Statement as in Appendix-1 Form –1.4	5.2	The bidder should have an average annual turnover of Rs. 50 lakhs in each of the last three financial years i.e. 2014-15, 2015-16 and 2016-17. The copies of Audited Annual Accounts for last three years to be submitted along with the bid [Financial Years of 2014-15, 2015-16 and 2016-17]. If 2016-17 Financial Statements of any bidder is unaudited then the Audited Financial Statements of 2013-14 along with an undertaking letter from the bidder that the 2016-17 Statements are not audited is to be submitted.	Financial Capability Statement as in Appendix-1 Form –1.4
		5.4	The bidder must have completed at least 5 years of experience/operation in the field of Supply, Installation and Implementation of Biometric based Time Attendance Systems as on bid start date.	Copy of work order / Completion certificate / Contract clearly indicating years in operation	5.4	The bidder must have completed at least 5 years of experience/operation in the field of Supply, Installation and Implementation of Biometric based Time Attendance Systems as on bid start date.	Copy of work order / Completion certificate / Contract clearly indicating years in operation
		5.5	**If Type-A & Type-B devices are from same OEM** The OEM (by OEM or its channel partner) shall have successfully completed the supply to PSU / Government Organization / Banks / Educational institutions [Financial Years of 2014-15, 2015-16 and 2016-17] - at least 80% of the tender quantity (420 nos.) of Biometric devices in one	Copy of work order / Completion certificate / Contract clearly indicating quantity	5.5	**If Type-A & Type-B devices are from same OEM** The OEM (by OEM or its channel partner) shall have successfully completed the supply to PSU / Government Organization / Banks / Educational institutions [Financial Years of 2014-15, 2015-16 and 2016-17] - at least 80% of the tender quantity (420 nos.) of Biometric devices in one	Copy of work order / Completion certificate / Contract clearly indicating quantity

financial year during last three years out of which one order shall be of 50% of the tender quantity (263 nos.).
OR

- at least 60% of the tender quantity (315 nos.) of Biometric devices in each of two financial year during last three years out of which two order shall be of 33% of the tender quantity (173 nos.).

If Type-A & Type-B devices are from different OEM

OEM Criteria for Type-A

The OEM (by OEM or its channel partner) shall have successfully completed the supply to PSU / Government Organization / Banks / Educational institutions [Financial Years of 2014-15, 2015-16 and 2016-17]

- at least 80% of the tender quantity (200 nos.) of Biometric devices in one financial year during last three years out of which one order shall be of 50% of the tender quantity (125 nos.).
  OR

  at least 60% of the tender quantity (150 nos.) of Biometric devices in each of two financial year during last three years out of which two order shall be of 33% of the tender quantity (83 nos.).

---

financial year during last three years out of which one order shall be of 50% of the tender quantity (263 nos.).
OR

- at least 60% of the tender quantity (315 nos.) of Biometric devices in each of two financial year during last three years out of which two order shall be of 33% of the tender quantity (173 nos.).

If Type-A & Type-B devices are from different OEM

OEM Criteria for Type-A

The OEM (by OEM or its channel partner) shall have successfully completed the supply to PSU / Government Organization / Banks / Educational institutions [Financial Years of 2014-15, 2015-16 and 2016-17]

- at least 80% of the tender quantity (200 nos.) of Biometric devices in one financial year during last three years out of which one order shall be of 50% of the tender quantity (125 nos.).
  OR

  at least 60% of the tender quantity (150 nos.) of Biometric devices in each of two financial year during last three years out of which two order shall be of 33% of the tender quantity (83 nos.).

			OEM Criteria for Type-B The OEM (by OEM or its channel partner) shall have successfully completed the supply to PSU / Government Organization / Banks / Educational institutions [Financial Years of 2014-15, 2015-16 and 2016-17] - at least 80% of the tender quantity (220 nos.) of Biometric devices in one financial year during last three years out of which one order shall be of 50% of the tender quantity (138 nos.). OR at least 60% of the tender quantity (165 nos.) of Biometric devices in each of two financial year during last three years out of which two order shall be of 33% of the tender quantity (91 nos.).			**OEM Criteria for Type-B** The OEM (by OEM or its channel partner) shall have successfully completed the supply to PSU / Government Organization / Banks / Educational institutions [Financial Years of 2014-15, 2015-16 and 2016-17] - at least 80% of the tender quantity (220 nos.) of Biometric devices in one financial year during last three years out of which one order shall be of 50% of the tender quantity (138 nos.). OR at least 60% of the tender quantity (165 nos.) of Biometric devices in each of two financial year during last three years out of which two order shall be of 33% of the tender quantity (91 nos.).	
		5.6	The bidder must have supplied at least 100 Biometric Attendance Devices or biometric based access control devices in any two financial year out of last three years [Financial Years of 2014-15, 2015-16 and 2016-17].	Copy of work order / Completion certificate / Contract clearly indicating quantity	5.6	The bidder must have supplied average 100 or more Biometric Attendance Devices or biometric based access control devices in any two financial year out of last three years [Financial Years of 2014-15, 2015-16 and 2016-17].	Copy of work order / Completion certificate / Contract clearly indicating quantity
		5.7	The bidder must have at least one support/service center in Surat, please attach documentary evidence. In case the bidder is OEM and is providing after sales support through Franchisee and/or Service Provider, the Franchisee and/or Service Provider must have at least one service center in Surat. The undertaking in hard copy duly signed by the	Proof of address for Service Center in Surat	5.7	The bidder must have at least one support/service center in Surat, please attach documentary evidence. In case the bidder is OEM and is providing after sales support through Franchisee and/or Service Provider, the Franchisee and/or Service Provider must have at least one service center in Surat. The undertaking in hard copy duly signed by the	Proof of address for Service Center in Surat

#							
			bidder OEM & the franchisee and/or Service Provider shall also be attached with the bid for after sales support. [Note: If bidder does not have the local presence, it should open a local office within 60 days from issuance of LOI / Work Order whichever is earlier.]			bidder OEM & the franchisee and/or Service Provider shall also be attached with the bid for after sales support. [Note: If bidder does not have the local presence, it should open a local office within 60 days from issuance of LOI / Work Order whichever is earlier.]	
		5.8	The bidder should not be black-listed / debarred by any of the Government or Public Sector Units in India as on the date of the submission of the tender.	Anti-Blacklisting Affidavit as per as per "Form –1.5: Format for Declaration by the bidder for not being Blacklisted / Debarred"	5.8	The bidder should not be black-listed / debarred by any of the Government or Public Sector Units in India as on the date of the submission of the tender.	Anti-Blacklisting Affidavit as per as per "Form –1.5: Format for Declaration by the bidder for not being Blacklisted / Debarred"
		5.9	The bidder should furnish Bid Fee and an Earnest Money Deposit (EMD) as specified in RFP and the bidder should furnish Solvency Certificate amounting minimum 20% of the consideration of the Contract from a scheduled/nationalized bank.	EMD & Bid Fee as per RFP along with Solvency Certificate	5.9	The bidder should furnish Bid Fee and an Earnest Money Deposit (EMD) as specified in RFP and the bidder should furnish Solvency Certificate amounting minimum 20% of the consideration of the Contract from a scheduled/nationalized bank.	EMD & Bid Fee as per RFP along with Solvency Certificate

3.

4.4.15 Hardware Specifications

I. Biometric Device – **TYPE A** (minimum technical specification)		
#	**Feature**	**Descriptions**
4.	Memory	- Memory to store up to 5,000 Face and 20,000 Fingerprints on terminal itself. - Device Memory: RAM – 2 GB, Flash Memory – 4 GB - Memory to store minimum 10,00,000 transaction logs along with min 25,000 picture logs.

4.4.15 Hardware Specifications

I. Biometric Device – **TYPE A** (minimum technical specification)		
#	**Feature**	**Descriptions**
4.	Memory	- Memory to store up to 5,000 Face and 20,000 Fingerprints on terminal itself. - Device Memory: RAM – 2 GB, Flash Memory – 4 GB - Memory to store minimum 10,00,000 transaction logs along with min 20,000 picture logs.

			9.	RF Card Reader	- High Frequency Contactless Smart Card Reader - Read Range: Up to 10 cm. - Capability to read popular card technologies (EMV / MIFARE) - The protocol of data from the reader shall be an open format and non-proprietary.	9.	RF Card Reader	- High Frequency Contactless Smart Card Reader - Read Range: Up to 10 cm. - <mark>Capability to read MIFARE RFID Card</mark> - The protocol of data from the reader shall be an open format and non-proprietary.
			15.	USB Support	- Support for connectivity using USB Dongle - Support for data export/import/backup	15.	<mark>Support for backup</mark>	- <mark>Support for data export/import/backup on external media using USB or MicroSD/SD/etc. card</mark>

4.								
		4.4.15 Hardware Specifications				**4.4.15 Hardware Specifications**		
		II. Biometric Device – TYPE B (minimum technical specification)				**II. Biometric Device – TYPE B (minimum technical specification)**		
		#	**Feature**	**Descriptions**		**#**	**Feature**	**Descriptions**
		9.	RF Card Reader	- High Frequency Contactless Smart Card Reader - Read Range: Up to 10 cm. - Capability to read popular card technologies (EMV / MIFARE) - The protocol of data from the reader shall be an open format and non-proprietary.		9.	RF Card Reader	- High Frequency Contactless Smart Card Reader - Read Range: Up to 10 cm. - <mark>Capability to read MIFARE RFID Card</mark> - The protocol of data from the reader shall be an open format and non-proprietary.
		15.	USB Support	- Support for connectivity using USB Dongle - Support for data export/import/backup		15.	<mark>Support for backup</mark>	- <mark>Support for data export/import/backup on external media using USB or MicroSD/SD/etc. card</mark>

The following changes have been added / revised and appended in this Addendum and Corrigendum document. The same supersedes relevant content to that effect as provided in the original RFP documents.

8. TECHNICAL SPECIFICATIONS

- The Bidder may participate in the bid by quoting items meeting or exceeding the minimum technical specification detailed as under.
- Bidders needs to clearly specify the make & model of the product offered.
- The bidder must clearly specify the compliance of the offered product vis-à-vis specification and deviation if any in the Column-D and Column-E respectively.
- The technical spec sheet and the product brochure of the product offered should also be submitted along with technical bid.
- In case the space provided is not sufficient then a separate paper as per the format below can be annexed to the bid. The same must be duly signed and stamped.

TECHNICAL (MINIMUM) SPECIFICATIONS

#	Feature	Descriptions	Compliance (Yes/ No)	Deviation from Specification / Remarks if Any
A	B	C	D	E
I. Biometric Device – TYPE A (minimum technical specification) [Quantity – 250 units] [Specify the Make & Model of the product proposed] _____				
1.	Authentication Method	Biometric authentication based of face recognition, finger print recognition, Card, Password and combinations (configurable) with the following priority 1. Face 2. Finger 3. Card		
2.	Processor	1GHz Quad Core Processor or better for fast processing.		
3.	Display	- Screen Size – 4" Touch Screen Colour Display - Resolution – Min. 800 X 600		

4.	Memory	- Memory to store up to 5,000 Face and 20,000 Fingerprints on terminal itself. - Device Memory: RAM – 2 GB, Flash Memory – 4 GB - Memory to store minimum 10,00,000 transaction logs along with min 20,000 picture logs		
5.	Communication	- Built-in wired Ethernet connectivity - Protocol support DHCP/SSL/IPv4 - Connectivity using direct SIM card / USB Dongle preferred - Built-in Wireless connectivity with wifi preferred - Device must be capable to communicate with the central server (with fixed IP) through intranet/internet (device with/without fixed IP).		
6.	Camera	- Built-in 1.3 MP camera with IR sensor - It should read a face in 0 lux conditions means extreme dark environments and even with considerable background light of 20,000 lux.		
7.	Fingerprint Scanner	- 500 dpi optical sensor - Minimum sensor area 13 mm X 15 mm		
8.	Keypad	Touch screen based		
9.	RF Card Reader	- High Frequency Contactless Smart Card Reader - Read Range: Up to 10 cm. - Capability to read MIFARE RFID Card - The protocol of data from the reader shall be an open format and non-proprietary.		
10.	Authentication mode & speed	- System should be able to perform in 1:1 and 1:n authentication modes. And should support 1:3000 face authentication and 1:12000 for biometric authentication for 1:n modes. o For 1:1 mode: < 0.5 second o For 1:n mode: < 4 second - Support for authentication modes like Terminal only; Server only		
11.	FRR / FAR for Face Recognition	FRR – 0.1% or better / FAR – 0.001% or better		
12.	FRR / FAR for Finger print scanner	FRR – 0.1% or better / FAR – 0.001% or better		
13.	Operating Temperature	Temp. 0 degree to 60 degree		

14.	Indicator	- Indication through Sound and Display - Sound (24 bit). Sound should be audible to the users even after placement of the protective enclosure. - Provision to provide a unique tone for various status conditions such as successful attendance marking / failure to mark attendance, etc. - Appropriate visible display message should be shown based on the event type. - The display and sound should be synchronised. - In case of failure to reach the face, the system should show appropriate message for marking attendance through finger and subsequently card and pin. - Warning alarm in case of tampering with machine. - To display private message against a verified user / displaying global messages for all users.		
15.	Support for backup	- Support for data export/import/backup on external media using USB or MicroSD/SD/etc. card		
16.	Certificates	CE / FCC / ROHS Certifications		
17.	Security	- Ability to detect live face and live fingerprint - Device must ensure that the person marking the presence is actually present. - Attendance should not be marked using image / video - Attendance should not be marked using fake fingerprints made of Rubber, Silicon, Gel, etc.		
18.	Template on Card	Device should support the Template on card feature by reading the face or finger templates stored on card & comparing the same at the time of marking of presence.		
19.	Finger Enrolment	Software shall be able to register any 4 fingerprints of an employee in software & terminal itself		
20.	Software/firmware updates	- All software/firmware updates to be provided free of cost during the contract period. - There should be provision to update the software/firmware from the central console.		
21.	Other features	The download punch information of employees from the readers should be transferred to the central server in real-time.		

22.	Other features	To capture picture of authorized or unauthorized users & transfer the same to server on real time basis w/o any delay unless network is down. The device should have full functionality in off-line mode. It should be able to send all events once connectivity is re-established (employees must be able to punch in/out for shift, break, entry, exit, etc. while device is offline).		
23.	Other features	Blacklist Employee configuration to send an alert to software if a blacklist employees punches.		
24.	Other features	In the event of reader failure/ malfunction/ tempering, the central console should be able to identify the same and appropriate alarms shall be generated for such incidents.		
25.	Other features	The devise must have built-in real-time clock and the same should be in sync with the server time.		
26.	Other features	The reader should be rugged and should be capable to operate in diverse office/working environment. It should be capable to work for long period of time; it should be built within a tamper proof rugged body to make it more secure and rodent proof; device must be strong enough to sustain shock/drops from table heights etc.		
27.	Power Supply	The device shall come with India style power plug and should work in standard power supply condition (230 V single phase power supply).		
II. Biometric Device – TYPE B (minimum technical specification) [Quantity – 275 units] **[Specify the Make & Model of the product proposed]** _____				
#	**Feature**	**Descriptions**		
1.	Authentication Method	Biometric authentication based of face recognition, finger print recognition, Card, Password and combinations (configurable) with the following priority 1. Face 2. Finger 3. Card		
2.	Processor	1GHz Processor or better for fast processing.		
3.	Display	- Screen Size – 3.5" Touch Screen Colour Display - Resolution – Min. 800 X 600		
4.	Memory	- Memory to store up to 500 Face and 2000 Fingerprints on terminal itself. - Device Memory: RAM – 1 GB, Flash Memory – 2 GB - Memory to store minimum 1,00,000 transaction logs along with min 2500 picture logs.		

5.	Communication	- Built-in wired Ethernet connectivity - Protocol support DHCP/SSL/IPv4 - Connectivity using direct SIM card / USB Dongle preferred - Built-in Wireless connectivity with wifi preferred - Device must be capable to communicate with the central server (with fixed IP) through intranet/internet (device with/without fixed IP).		
6.	Camera	- Built-in 1.3 MP camera with IR sensor - It should read a face in 0 lux conditions means extreme dark environments and even with considerable background light of 20,000 lux.		
7.	Fingerprint Scanner	- 500 dpi optical sensor - Minimum sensor area 13 mm X 15 mm		
8.	Keypad	Touch screen based		
9.	RF Card Reader	- High Frequency Contactless Smart Card Reader - Read Range: Up to 10 cm. - Capability to read MIFARE RFID Card - The protocol of data from the reader shall be an open format and non-proprietary.		

10.	Authentication mode & speed	- System should be able to perform in 1:1 and 1:n authentication modes. And should support 1:500 face authentication and 1:2000 for biometric authentication for 1:n modes.
		   o For 1:1 mode: < 0.5 second
		   o For 1:n mode: < 2 second
		- Support for authentication modes like Terminal only; Server only		

11.	FRR / FAR for Face Recognition	FRR – 0.1% or better / FAR – 0.001% or better		
12.	FRR / FAR for Finger print scanner	FRR – 0.1% or better / FAR – 0.001% or better		
13.	Operating Temperature	Temp. 0 degree to 60 degree		
14.	Indicator	- Indication through Sound and Display - Sound (24 bit). Sound should be audible to the users even after placement of the protective enclosure.		

		- Provision to provide a unique tone for various status conditions such as successful attendance marking / failure to mark attendance, etc. - Appropriate visible display message should be shown based on the event type. - The display and sound should be synchronised. - In case of failure to reach the face, the system should show appropriate message for marking attendance through finger and subsequently card and pin. - Warning alarm in case of tampering with machine. - To display private message against a verified user / displaying global messages for all users.		
15.	Support for backup	- Support for data export/import/backup on external media using USB or MicroSD/SD/etc. card		
16.	Certificates	CE / FCC / ROHS Certifications		
17.	Security	- Ability to detect live face and live fingerprint - Device must ensure that the person marking the presence is actually present. - Attendance should not be marked using image / video - Attendance should not be marked using fake fingerprints made of Rubber, Silicon, Gel, etc.		
18.	Template on Card	Device should support the Template on card feature by reading the face or finger templates stored on card & comparing the same at the time of marking of presence.		
19.	Finger Enrolment	Software shall be able to register any 4 fingerprints of an employee in software & terminal itself		
20.	Software/firmware updates	- All software/firmware updates to be provided free of cost during the contract period. - There should be provision to update the software/firmware from the central console.		
21.	Other features	The download punch information of employees from the readers should be transferred to the central server in real-time.		
22.	Other features	To capture picture of authorized or unauthorized users & transfer the same to server on real time basis w/o any delay unless network is down.		

		The device should have full functionality in off-line mode. It should be able to send all events once connectivity is re-established (employees must be able to punch in/out for shift, break, entry, exit, etc. while device is offline).		
23.	Other features	Blacklist Employee configuration to send an alert to software if a blacklist employees punches.		
24.	Other features	In the event of reader failure/ malfunction/ tempering, the central console should be able to identify the same and appropriate alarms shall be generated for such incidents.		
25.	Other features	The devise must have built-in real-time clock and the same should be in sync with the server time.		
26.	Other features	The reader should be rugged and should be capable to operate in diverse office/working environment. It should be capable to work for long period of time; it should be built within a tamper proof rugged body to make it more secure and rodent proof; device must be strong enough to sustain shock/drops from table heights etc.		
27.	Power Supply	The device shall come with India style power plug and should work in standard power supply condition (230 V single phase power supply).		
III. RFID Card Specification (minimum technical specification) [Quantity – 22,000 units] **[Specify the Make & Model of the product proposed]** _____				
1.	RFID Card (MIFARE-4K)	- Technology : Mifare 4K - Standard size : ISO 7810 (5.40 x 8.57 x 0.076 cm) - EEPROM Size : 4 Kbyte - Compliance : ISO 14443A - Color : White - Security features to avoid unauthorized reading - Suitable for Photo ID printing - Should have10 years data retention. - Should be made of rugged, reliable, non-breaking plastic material Must be integrated with the proposed solution to write the user face and finger template.		

IV. Biometric Device Enclosure (minimum technical specification) [Quantity – 525 units] [Specify the Make & Model of the product proposed] _____				
1.	Device Enclosure	The reader to be mounted on walls with proper enclosures/ stands for ease of operation and accessibility. - Enclosure should be tamper proof and rugged to secure the device. - It should be rodent proof. - It should have sufficient space to accommodate Biometric Device and Power Supply. - Air Ventilation should be sufficient to avoid heating. - It should have lock and key provision for safety. - Provision for Wall Mounting is required. - It should be powder coated. - Should have sufficient thickness to withstand pressure.		

*****